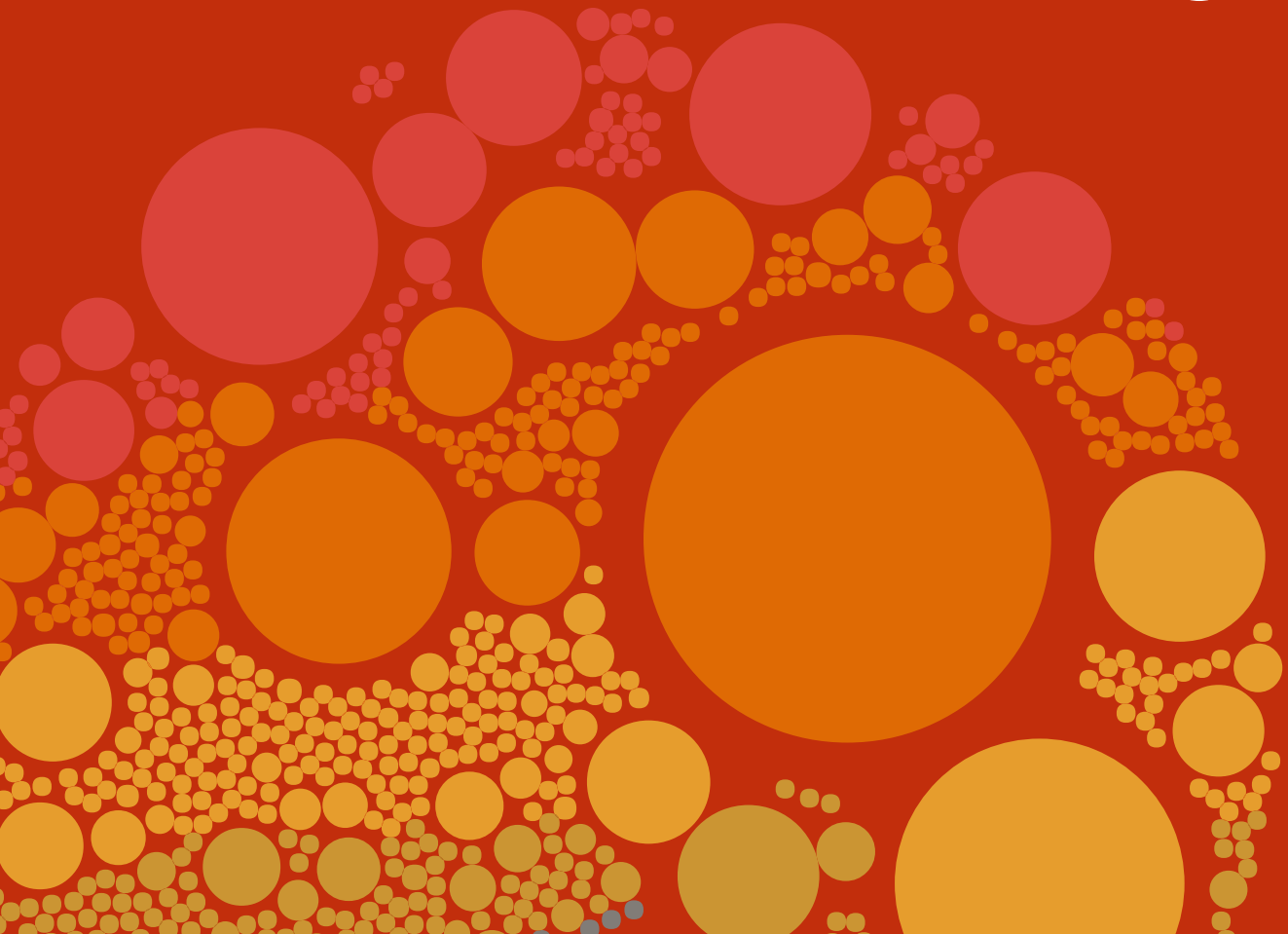
Food and Agriculture Organization of the United Nations

FAO STATISTICS

ISSN 2225-7373

STATISTICAL YEARBOOK

WORLD FOOD AND AGRICULTURE 2023



Required citation:
FAO. 2023. *World Food and Agriculture – Statistical Yearbook 2023*. Rome. https://doi.org/10.4060/cc8166en

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations (FAO) concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.
The mention of specific companies or products of manufacturers, whether or not these have been patented, does not imply that these have been endorsed or recommended by FAO in preference to others of a similar nature that are not mentioned.
The views expressed in this information product are those of the author(s) and do not necessarily reflect the views or policies of FAO.

ISBN 978-92-5-138262-2
© FAO, 2023

Some rights reserved. This work is made available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; https://creativecommons.org/licenses/by-nc-sa/3.0/igo/legalcode).

Under the terms of this licence, this work may be copied, redistributed and adapted for non-commercial purposes, provided that the work is appropriately cited. In any use of this work, there should be no suggestion that FAO endorses any specific organization, products or services. The use of the FAO logo is not permitted. If the work is adapted, then it must be licensed under the same or equivalent Creative Commons licence. If a translation of this work is created, it must include the following disclaimer along with the required citation: "This translation was not created by the Food and Agriculture Organization of the United Nations (FAO). FAO is not responsible for the content or accuracy of this translation. The original [Language] edition shall be the authoritative edition."

Disputes arising under the licence that cannot be settled amicably will be resolved by mediation and arbitration as described in Article 8 of the licence except as otherwise provided herein. The applicable mediation rules will be the mediation rules of the World Intellectual Property Organization http://www.wipo.int/amc/en/mediation/rules and any arbitration will be conducted in accordance with the Arbitration Rules of the United Nations Commission on International Trade Law (UNCITRAL).

Third-party materials. Users wishing to reuse material from this work that is attributed to a third party, such as tables, figures or images, are responsible for determining whether permission is needed for that reuse and for obtaining permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

Sales, rights and licensing. FAO information products are available on the FAO website (www.fao.org/publications) and can be purchased through publications-sales@fao.org. Requests for commercial use should be submitted via: www.fao.org/contact-us/licence-request. Queries regarding rights and licensing should be submitted to: copyright@fao.org.

FAO STATISTICS

WORLD FOOD AND AGRICULTURE

STATISTICAL YEARBOOK

2023

Food and Agriculture Organization of the United Nations
Rome, 2023

CONTENTS

Foreword **ix**
Acknowledgements **x**
How to use this yearbook **xi**

CHAPTER 1. xii

1 ECONOMIC DIMENSIONS OF AGRICULTURE 1

Contribution of agriculture, forestry and fishing to the economy **1**
Factors of production **2**
Inputs **8**

CHAPTER 2. 12

2 PRODUCTION, TRADE AND PRICES OF COMMODITIES 13

Production of crops and derived products **13**
Production of livestock and livestock commodities **16**
Production of the fisheries and aquaculture sector **19**
Production of the forestry sector **21**
Trade **23**
Prices **25**

CHAPTER 3. 28

3 FOOD SECURITY AND NUTRITION 29

Food security **29**
Food supply **32**
Nutrition **36**

CHAPTER 4. 38

4 SUSTAINABILITY AND ENVIRONMENTAL ASPECTS OF AGRICULTURE 39

Land use **39**
Farming **40**
Water **41**
Soils **41**
Emissions and climate change **43**

ANNEXES 46

ANNEX 1: FAO work on statistics **47**
ANNEX 2: Definitions and notes **48**
ANNEX 3: Food and agriculture maps **60**
ANNEX 4: Data tables **76**

Notes **367**

FIGURES

1. VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING BY REGION 1
2. SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP BY REGION (USD 2015 PRICES) 1
B1. ESTIMATED CROPS AND LIVESTOCK LOSSES DUE TO DISASTERS BY REGION (1991–2021) 2
3. WORLD AGRICULTURAL LAND BY USE 3
4. CROPLAND AREA BY REGION 3
5. WORLD AGRICULTURAL LAND BY USE AND MAIN COUNTRIES (2021) 4
6. CROPLAND AREA PER CAPITA BY REGION 4
7. AREA EQUIPPED FOR IRRIGATION BY REGION 4
8. SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA BY REGION 4
9. SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL, TOP COUNTRIES (2020) 5
10. EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING BY REGION 6
11. SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT BY REGION 6
12. SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT, TOP COUNTRIES (2021) 7
13. GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED, TOP COUNTRIES BY REGION (2021, USD 2015 PRICES) 8
14. GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING AS A SHARE OF TOTAL OUTLAYS, TOP COUNTRIES (2019–2021*) 8
15. PESTICIDE USE BY REGION 9
16. PESTICIDE USE PER CROPLAND AREA BY REGION 9
17. INORGANIC FERTILIZER USE BY REGION 10
18. INORGANIC FERTILIZER USE BY NUTRIENT AND REGION 11
19. INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT AND REGION 11
20. WORLD PRODUCTION OF PRIMARY CROPS BY COMMODITY GROUP 13
21. WORLD PRODUCTION OF PRIMARY CROPS, MAIN COMMODITIES 14
22. WORLD PRODUCTION OF MAIN PRIMARY CROPS BY MAIN PRODUCERS (2021) 14
23. WORLD PRODUCTION OF VEGETABLE OILS, MAIN COMMODITIES 15
24. WORLD PRODUCTION OF MAIN VEGETABLE OILS BY MAIN PRODUCERS (2020) 15
25. WORLD PRODUCTION OF RAW SUGAR, MAIN PRODUCERS 16
26. WORLD PRODUCTION OF MEAT, MAIN ITEMS 16
27. WORLD PRODUCTION OF MAIN MEAT ITEMS, MAIN PRODUCERS (2021) 16
28. WORLD PRODUCTION OF BOVINE MILK 17
29. WORLD PRODUCTION OF HEN EGGS 18
B2. FOOD LOSS PERCENTAGE BY REGION 18
30. WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY SPECIES GROUP 19
31. WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY PRODUCTION MODE 19
32. WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MAIN PRODUCERS (2021) 20
33. WORLD PRODUCTION OF ROUNDWOOD BY TYPE 20
34. WORLD PRODUCTION OF ROUNDWOOD BY TYPE, MAIN PRODUCERS (2021) 20
35. WORLD PRODUCTION OF SELECTED FOREST PRODUCTS 21
36. VALUE OF WORLD FOOD EXPORTS BY GROUP 22
37. FOOD NET TRADE BY REGION 22
38. FOOD IMPORTS AND EXPORTS BY MAIN GROUPS AND REGION (2021) 23
39. WORLD EXPORTS OF CEREALS BY MAIN COMMODITIES 24

40. MAIN TRADED CEREALS, TOP IMPORTERS AND EXPORTERS (QUANTITIES, 2021) 24
41. VALUE OF WORLD FOREST PRODUCT EXPORTS 25
42. FAO FOOD PRICE INDEX, WORLD (2014–2016=100) 25
43. FAO FOOD COMMODITY PRICE INDICES, WORLD (2014–2016=100) 26
44. FAO FISH PRICE INDEX, WORLD (2014–2016=100) 26
45. ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS, TOP AND BOTTOM COUNTRIES (2022) 27
46. INFLATION IN FOOD CONSUMER PRICES BY REGION 27
47. PREVALENCE OF UNDERNOURISHMENT BY REGION 29
48. NUMBER OF PEOPLE UNDERNOURISHED BY REGION 29
49. FOOD INSECURITY LEVELS BASED ON THE FOOD INSECURITY EXPERIENCE SCALE BY REGION 30
50. FOOD INSECURITY LEVELS BY REGION AND SEX (2022) 31
B3. COST OF A HEALTHY DIET IN 2021 AND CHANGE COMPARED WITH 2020 32
51. AVERAGE DIETARY ENERGY SUPPLY BY REGION 33
52. CEREAL IMPORT DEPENDENCY RATIO, TOP COUNTRIES (2018–2020) 33
53. DIETARY ENERGY SUPPLY BY REGION AND COMMODITY GROUP 34
54. AVERAGE PROTEIN SUPPLY BY REGION AND ORIGIN 35
55. AVERAGE DIETARY SUPPLY ADEQUACY BY REGION 35
56. PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS BY REGION 36
57. PREVALENCE OF OBESITY IN THE ADULT POPULATION BY REGION 36
58. PREVALENCE OF OBESITY IN THE ADULT POPULATION, TOP COUNTRIES (2016) 37
59. SHARE OF LAND AREA BY TYPE AND REGION 39
60. SHARE OF FOREST AREA IN TOTAL LAND AREA, TOP COUNTRIES (2021) 40
61. WORLD PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP 40
62. WORLD AREA UNDER ORGANIC AGRICULTURE, MAIN COUNTRIES (2021) 40
63. SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA, TOP COUNTRIES (2021) 41
B4. AVERAGE HOLDINGS' AREA BY CENSUS ROUND, TOP COUNTRIES 42
64. WATER STRESS, TOP COUNTRIES (2020) 42
65. CROPLAND NITROGEN BUDGET BY COMPONENT AND REGION 43
66. WORLD GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS 44
67. WORLD FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY 44
68. WORLD EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES (2021) 44
69. TEMPERATURE CHANGE MEASURED OVER LAND BY REGION 45

TABLES

CHAPTER 1: ECONOMIC DIMENSIONS OF AGRICULTURE

1. VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING (USD MILLION, 2015 PRICES) 76
2. SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (USD 2015 PRICES) (PERCENT) 81
3. AGRICULTURAL LAND BY USE (THOUSAND HA) 86
4. CROPLAND AREA PER CAPITA (HA PER CAPITA) 91
5. AREA EQUIPPED FOR IRRIGATION (THOUSAND HA) 96
6. SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA (PERCENT) 101
7. SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL (PERCENT) 106
8. EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (THOUSAND PEOPLE) 111
9. SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (PERCENT) 116
10. SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT (PERCENT) 121
11. GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (USD 2015 PRICES) (PERCENT) 126
12. SHARE OF CENTRAL GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING IN TOTAL OUTLAYS (PERCENT) 131
13. PESTICIDE USE (TONNES) 136
14. PESTICIDE USE PER CROPLAND AREA (KG PER HA) 141
15. INORGANIC FERTILIZER USE BY NUTRIENT (THOUSAND TONNES) 146
16. INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT (KG PER HA) 151

CHAPTER 2: PRODUCTION, TRADE AND PRICES OF COMMODITIES

17. PRODUCTION OF PRIMARY CROPS BY GROUP, 2021 (THOUSAND TONNES) 156
18. PRODUCTION VALUE OF PRIMARY CROPS BY GROUP, 2021 (USD MILLION, 2014–2016 PRICES) 161
19. PRODUCTION OF PRIMARY CROPS MAIN COMMODITIES, 2021 (THOUSAND TONNES) 166
20. PRODUCTION OF VEGETABLE OILS MAIN COMMODITIES (THOUSAND TONNES) 171
21. PRODUCTION OF RAW SUGAR (THOUSAND TONNES) 176
22. PRODUCTION OF MEAT (THOUSAND TONNES) 181
23. PRODUCTION OF BOVINE MILK (THOUSAND TONNES) 186
24. PRODUCTION OF HEN EGGS (THOUSAND TONNES) 191
25. CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 2021 (THOUSAND TONNES) 196
26. CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MODE (THOUSAND TONNES) 201
27. PRODUCTION OF ROUNDWOOD BY TYPE (THOUSAND M^3) 206
28. PRODUCTION OF SELECTED FOREST PRODUCTS, 2021 209
29. FOOD EXPORTS, 2021 (USD MILLION) 216
30. FOOD NET TRADE (USD MILLION) 221
31. FOOD IMPORTS, 2021 (USD MILLION) 226
32. CEREALS EXPORTS (THOUSAND TONNES) 231
33. CEREALS IMPORTS AND EXPORTS BY MAIN COMMODITIES, 2021 (THOUSAND TONNES) 236
34. FOREST PRODUCTS EXPORTS, 2021 (USD MILLION) 241
35. FAO FOOD PRICE INDICES (2014–2016=100) 246
36. ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS (PERCENT) 247
37. INFLATION IN FOOD CONSUMER PRICES (PERCENT) 252

CHAPTER 3: FOOD SECURITY AND NUTRITION

38. PREVALENCE OF UNDERNOURISHMENT (PERCENT) 257
39. PEOPLE UNDERNOURISHED (MILLION) 262
40. FOOD INSECURITY LEVELS (PERCENT) 267
41. FOOD INSECURITY LEVELS BY SEX (PERCENT) 272
42. AVERAGE DIETARY ENERGY SUPPLY (KCAL PER CAPITA PER DAY) 277
43. CEREAL IMPORT DEPENDENCY RATIO (PERCENT) 282
44. DIETARY ENERGY SUPPLY BY COMMODITY GROUP, 2021 (KCAL PER CAPITA PER DAY) 287
45. AVERAGE PROTEIN SUPPLY BY ORIGIN (G PER CAPITA PER DAY) 292
46. AVERAGE DIETARY SUPPLY ADEQUACY (PERCENT) 297
47. PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (PERCENT) 302
48. PREVALENCE OF OBESITY IN THE ADULT POPULATION (PERCENT) 307

CHAPTER 4: SUSTAINABILITY AND ENVIRONMENTAL ASPECTS OF AGRICULTURE

49. LAND AREA BY TYPE (THOUSAND HA) 312
50. SHARE OF FOREST AREA IN TOTAL LAND AREA (PERCENT) 317
51. PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP, 2021 (THOUSAND HA) 322
52. AREA UNDER ORGANIC AGRICULTURE (THOUSAND HA) 327
53. SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA (PERCENT) 332
54. WATER STRESS (PERCENT) 337
55. CROPLAND NITROGEN BUDGET (KG PER HA) 342
56. GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS, 2021 (MILLION TONNES CO_2EQ) 347
57. FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY, 2021 (MILLION TONNES CO_2EQ) 352
58. EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES, 2021 (KG CO_2EQ PER KG) 357
59. TEMPERATURE CHANGE MEASURED OVER LAND (DEGREE CELSIUS) 362

MAPS

1. VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING BY REGION (2021) 60
2. SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (2021, USD 2015 PRICES) 60
3. EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (2021) 61
4. SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (2021) 61
5. CROPLAND AREA (2021) 62
6. GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (2021, USD 2015 PRICES) 62
7. PESTICIDE USE (2021) 63
8. INORGANIC FERTILIZER USE (2021) 63
9. PRODUCTION OF CEREALS (2021) 64
10. PRODUCTION OF SUGAR CANE (2021) 64
11. PRODUCTION OF MAIZE (2021) 65
12. PRODUCTION OF RICE (2021) 65
13. PRODUCTION OF WHEAT (2021) 66
14. PRODUCTION OF OIL PALM FRUIT (2021) 66
15. PRODUCTION OF POTATOES (2021) 67
16. PRODUCTION OF CHICKEN MEAT (2021) 67
17. PRODUCTION OF PIG MEAT (2021) 68
18. PRODUCTION OF CATTLE MEAT (2021) 68
19. PRODUCTION OF BOVINE MILK (2021) 69
20. CAPTURE FISHERIES AND AQUACULTURE PRODUCTION (2021) 69
21. AQUACULTURE PRODUCTION (2021) 70
22. IMPORTERS AND EXPORTERS OF FOREST PRODUCTS (2021) 70
23. IMPORTERS AND EXPORTERS OF FOOD (2021) 71
24. INFLATION IN FOOD CONSUMER PRICES (2022 AVERAGE) 71
25. PREVALENCE OF UNDERNOURISHMENT (2020–2022 AVERAGE) 72
26. NUMBER OF UNDERNOURISHED PEOPLE (2020–2022 AVERAGE) 72
27. PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (2022) 73
28. PREVALENCE OF OBESITY IN THE ADULT POPULATION (2016) 73
29. SHARE OF FOREST AREA IN LAND AREA (2021) 74
30. TOTAL RENEWABLE WATER RESOURCES PER CAPITA (2020) 74
31. WATER STRESS (2020) 75
32. GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS (2021) 75

BOXES

1. FOCUS ON THE IMPACT OF DISASTERS ON AGRICULTURE AND FOOD SECURITY 2
2. FOCUS ON FOOD LOSSES 18
3. FOCUS ON THE COST OF A HEALTHY DIET 32
4. FOCUS ON STRUCTURAL DATA FROM AGRICULTURAL CENSUSES 42

FOREWORD

Timely, accurate and high-quality data and statistics are the cornerstone of solid policy design, where decisions are based on hard evidence, and monitoring and evaluation rely on strong statistical systems. This has become all the more critical as governments around the world commit to major sectoral and national development plans, as well as regional and global development agendas.

Statistical work has been at the core of the activities and mandate of the Food and Agriculture Organization of the United Nations (FAO) since the Organization was founded in 1945, supporting its Members in eliminating hunger, improving nutrition, eradicating rural poverty, and promoting inclusive and efficient agrifood systems. FAO is a leading provider of internationally comparable data on food, nutrition and agriculture, which are gathered from national statistical offices and from FAO's network of partner agencies and are harmonized to paint a global picture. All of these data are summarized in this Statistical Yearbook.

The Statistical Yearbook is a primary tool and indispensable reference for policymakers, researchers and analysts, as well as laypersons interested in the past, present and future paths of food and agriculture. Drawing on the wealth of information that FAO statisticians produce across the Organization, this publication offers a synthesis of the major factors at play in the global food and agricultural landscape. Statistics are presented in four thematic chapters, covering the economic importance of agricultural activities; inputs, outputs and factors of production; implications for food security and nutrition; and agriculture's impacts on the environment.

This year, special attention is given to the impact of disasters on agriculture, as new information from FAO now quantifies the magnitude of losses resulting from these events. FAO work on estimating food losses, which uses non-conventional data sources, is also featured. Data on the cost and affordability of a healthy diet, which have been released recently in FAOSTAT, are showcased as well and provide a measure of economic access to nutritious foods and healthy diets that are a key link between food security and nutrition. Finally, this edition of the Statistical Yearbook highlights information on the structural characteristics of the agricultural sector coming from censuses of agriculture that users can now easily compare across countries and census rounds for the first time.

This Statistical Yearbook is only one of a series of tools and statistical publications that FAO provides to users. The freely accessible FAOSTAT data platform contains the largest statistical database on food and agriculture in the world, with approximately 20 000 indicators covering more than 245 countries and territories, and around 2 million views each year. The Statistical Yearbook is accompanied by the shorter Statistical Pocketbook, which provides a quick and easy reference to the main facts and trends in food and agriculture.

In addition to compiling and disseminating data, FAO is also involved in strengthening the statistical capacity of countries so they can produce more and better data, set standards and methodologies, and leverage big data innovations. FAO is committed to ensuring free access to current, reliable, timely and trusted data, necessary to chart a course towards more sustainable and equitable agrifood systems and a world free of hunger.

José Rosero Moncayo
Director, Statistics Division

ACKNOWLEDGEMENTS

This Statistical Yearbook was prepared by the Statistics Division (ESS) of the Food and Agriculture Organization of the United Nations (FAO) in collaboration with the Communications (OCC), Fisheries and Aquaculture (NFI), Forestry (NFO), Land and Water (NSL) and Markets and Trade (EST) divisions. Olivier Lavagne d'Ortigue led the work under the direction of José Rosero Moncayo (ESS Director). We would like to thank the following for their contributions and input: Iana Arkhipova, Veronica Boero, Carlo Cafiero, Giulia Conchedda, Piero Conforti, Valentina Conti, Christophe Duhamel, Birkan Durak, Adrienne Egger, Tomasz Filipczuk, Laura Galeotti, Chiara Gnetti, Amanda Gordon, Leman Yonca Gürbüzer, Dominique Habimana, Anne Kepple, Irina Kovrova, Arvydas Lebedys, Eun Jeong Lee, Jeannie Marshall, Masakhwe Sharon Mayienga, Patricia Mejias Moreno, Jean-Marie Munyeshyaka, Griffiths Obli Laryea, Xueyao Pan, Giulia Piva, Kimberly Sullivan, Salar Tayyib, Francesco Tubiello, Monica Umena, Stefania Vannuccini, Sara Viviani, Michele Vollaro, Sven Walter, Nathan Wanner, Firas Yassin and Zehra Zaidi.

This Statistical Yearbook is dedicated to the memory of Salar Tayyib (25 January 1960 – 13 October 2023) and Ilio Fornasero (27 May 1967 – 17 November 2023).

HOW TO USE THIS YEARBOOK

THE STRUCTURE

The Statistical Yearbook 2023 is divided into four thematic chapters:

- **Chapter 1** *(Economic dimensions of agriculture)* provides an overview of agriculture, forestry and fishing from an economic standpoint.
- **Chapter 2** *(Production, trade and prices of commodities)* presents the outputs of the sector in terms of the production and trade of the different commodities and the evolution of prices.
- **Chapter 3** *(Food security and nutrition)* looks at how some of these outputs are consumed by narrowing the focus on food security and nutrition.
- **Chapter 4** *(Sustainability and environmental aspects of agriculture)* deals with the impacts of the sector as a whole on the environment.

Each chapter draws on the latest available data to describe through text and charts the trends since the early 2000s. As data on each topic are produced according to different schedules and with different methods and sources, the latest year available can change between sections.

COUNTRY DEFINITIONS AND CLASSIFICATION

The country classification adopted in this publication is based on the United Nations M49 classification (*https://unstats.un.org/unsd/methodology/m49/*). The official Food and Agriculture Organization of the United Nations (FAO) names can be found at *https://www.fao.org/nocs/en*.

AGGREGATIONS

Regional and subregional aggregates are based on the country groupings defined in the United Nations M49 classification. A small subset of indicators used in Part 3 is based on the aggregation rules defined in *The State of Food Security and Nutrition in the World 2023* report, which can be found at *https://doi.org/10.4060/cc3017en*.

Two types of aggregations are used: sum and weighted mean. A sufficiency condition is imposed when computing the aggregation – the aggregation is computed only when enough countries have reported data, and the current threshold is set at 50 percent of the variable and the weighting variable, if present.

DATA PRESENTATION CONVENTIONS

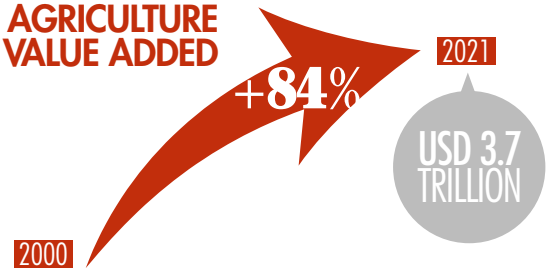
The cut-off date for the data is 16 October 2023.

- When country data have not been reported for the reference year, an asterisk (*) on the year label indicates that the value for the most recent year available is shown. For example, 2019–2021* means that the most recent value for the period from 2019 to 2021 is shown.
- A billion is 1 000 million.
- A trillion is 1 000 billion.
- In data tables:
  - A blank means that data are not available or that aggregates cannot be calculated because of missing data for the years shown.
  - 0 or 0.0 means zero or a number that is small enough to round to zero at the displayed number of decimal places.
  - <2.5 means a proportion less than 2.5 percent.
  - <0.1 means less than 100 000 people.

CHAPTER 1

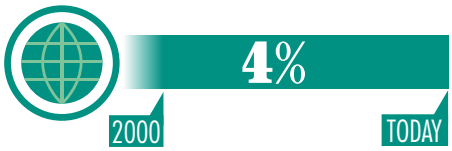
KEY FACTS

AGRICULTURE VALUE ADDED



Agriculture value added went up 84% between 2000 and 2021, to USD 3.7 trillion

SHARE OF AGRICULTURE IN GLOBAL GDP



The share of agriculture in global GDP has been stable at around 4% since 2000.

GLOBAL WORKFORCE EMPLOYED IN AGRICULTURE



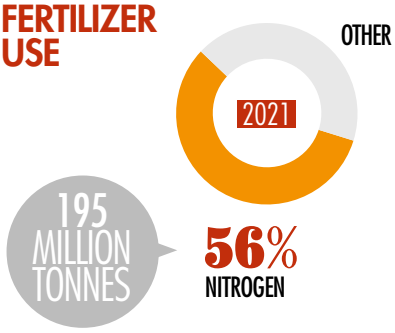
Agriculture employed 873 million people in 2021, or 27% of the global workforce, compared with 1 027 million (or 40%) in 2000.

PESTICIDE USE



Pesticide use went up 62% between 2000 and 2021, with the Americas accounting for half the use in 2021.

FERTILIZER USE



Agricultural use of inorganic fertilizers in 2021 was 195 million tonnes of nutrients, of which 56% was nitrogen.

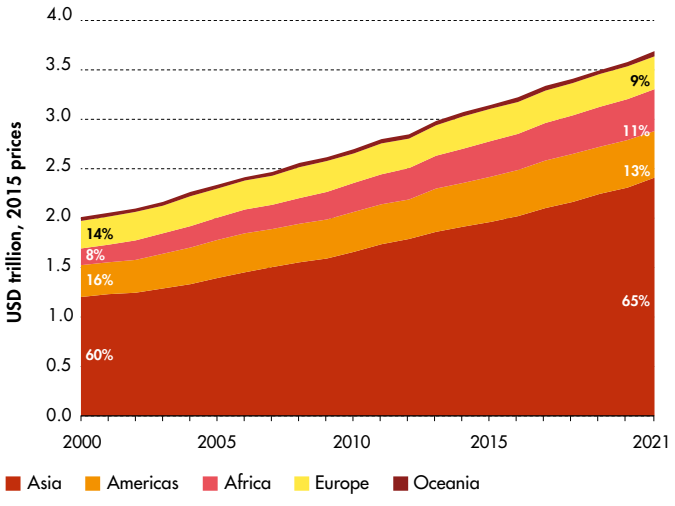
1 ECONOMIC DIMENSIONS OF AGRICULTURE

CONTRIBUTION OF AGRICULTURE, FORESTRY AND FISHING TO THE ECONOMY

The global value added generated by agriculture, forestry and fishing[a] grew by 84 percent in real terms between 2000 and 2021, reaching USD 3.7 trillion in 2021 (see **Figure 1**). This represents an increase of USD 1.7 trillion compared with 2000. In Africa, the value added went up 150 percent over the period, increasing from USD 170 billion to USD 425 billion. Given its size, Asia was the main contributor to global agriculture, forestry and fishing value added with 65 percent of the world total in 2021: the continent shows a doubling from USD 1.2 trillion in 2000 to USD 2.4 trillion in 2021. In the Americas and Oceania, the increase reached 45–46 percent in the 2000–2021 period, while Europe increased its agricultural value added by just 19 percent. In the context of the COVID-19 pandemic, the value added of agriculture increased in 2020 for the world as a whole and all the regions except Europe. It increased even more in 2021, by 3.1 percent, as activity rebounded. The countries with the largest agriculture, forestry and fishing sector in terms of value added in 2021 are China, India and the United States of America (see **Table 1**).

Until 2019, the global contribution of agriculture to gross domestic product (GDP) declined, which is expected to accompany the growth of total GDP. Due to the pandemic and the various restrictions put in place to contain it in 2020, the value added of the industry and services sectors declined while that of agriculture kept increasing, resulting in an artificial jump of the share of agriculture in the total in 2020 (see **Figure 2**). The share

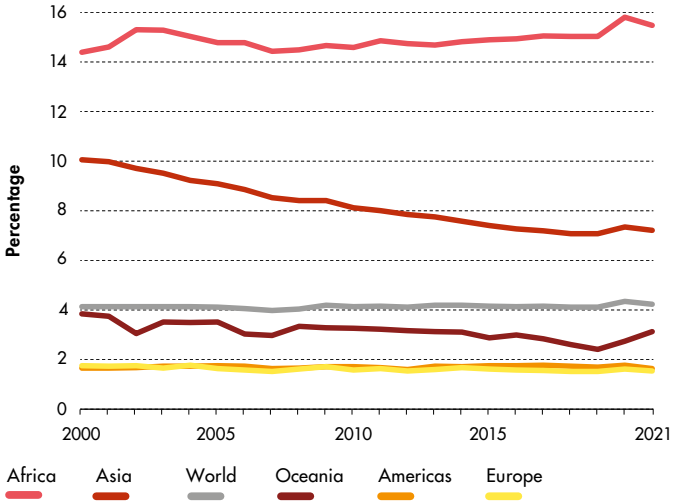
FIGURE 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING BY REGION



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Macro Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/MK
Download: https://doi.org/10.4060/cc8166en-fig01

FIGURE 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP BY REGION (USD 2015 PRICES)



Source: FAO. 2023. Macro Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/MK
Download: https://doi.org/10.4060/cc8166en-fig02

a As defined in the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 4, agriculture, forestry and fishing includes crop and animal production, hunting and related service activities, forestry and logging, and fishing and aquaculture.

of value added from agriculture, forestry and fishing resumed its declining trend, falling from 4.4 percent in 2020 to 4.3 percent in 2021. It had dropped between 2000 and 2019 in all regions except Africa and the Americas, then increased between 2019 and 2020. All regions except the Americas had a share of agriculture in GDP in 2021 that was higher than in 2019, and in the case of Africa, also higher than in 2000 (14.5 percent in 2000 compared with 15.5 percent in 2021). This increase, which is seldom observed, is due to a higher contribution of agriculture to GDP, largely related to the COVID-19 pandemic, in several countries – Algeria, Angola, Benin, Chad, the Comoros, the Congo, Eritrea, Gabon, Guinea, Mali, the Niger, Nigeria, Sierra Leone and South Africa. These countries accounted for 46 percent of the total value added from agriculture, forestry and fishing in Africa in 2021 (see **Table 2**). Despite its relatively small economic size, the sector plays a crucial role in the agro-industry value chain and in the use of natural resources. As such, agriculture affects the quality of the environment and food security beyond what its contribution to GDP indicates.

FACTORS OF PRODUCTION

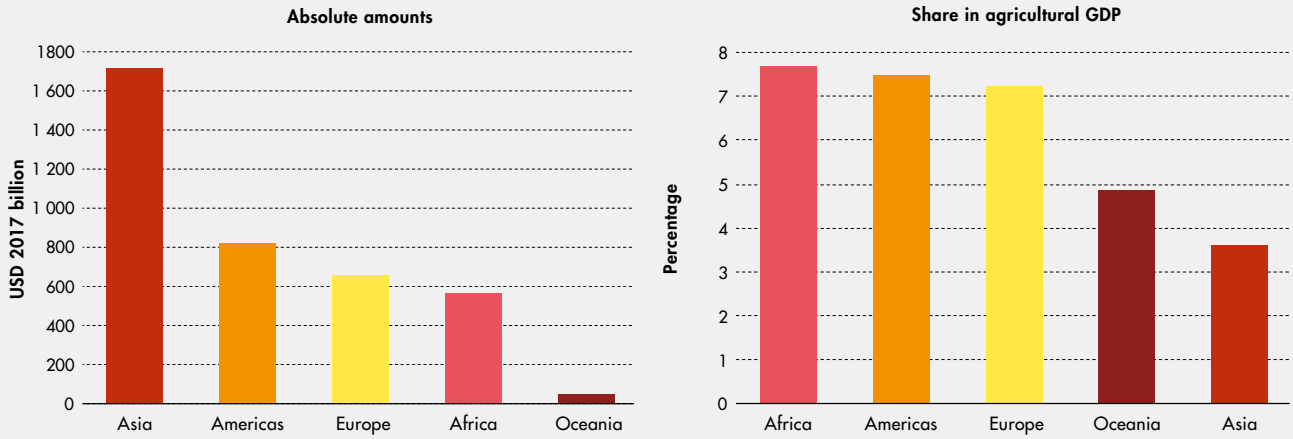
Land and water

In 2021, the global agricultural land area was 4.79 billion hectares (ha), down 2 percent, or 0.09 billion ha compared with 2000 (see **Figure 3** and **Table 3**). Between 2000 and 2021, roughly two-thirds of agricultural land were used for permanent meadows and pastures (3.21 billion ha in 2021), which declined by 5 percent (0.17 billion ha). One-third of the total agricultural land was cropland (1.58 billion ha in 2021), which increased by 6 percent (0.09 billion ha). Although agricultural land decreased since

BOX 1.
FOCUS ON THE IMPACT OF DISASTERS ON AGRICULTURE AND FOOD SECURITY

Disasters are estimated to have caused production losses in crops and livestock valued at USD 3.8 trillion between 1991 and 2021, corresponding to an average loss of USD 123 billion per year, or 5 percent of annual global agricultural GDP.[1] **Figure B1** presents the geographical distribution and the economic impact of these losses. Asia has the largest loss (USD 1 720 billion), reflecting its overall geographic size, followed by the Americas (USD 827 billion), Europe (USD 660 billion), Africa (USD 580 billion) and Oceania (USD 55 billion). Presenting the estimated losses as a share of the agricultural GDP of the regions highlights the differentiated economic impact. The share of losses in agricultural GDP is the highest in Africa (7.7 percent), followed by the Americas (7.5 percent), Europe (7.2 percent), Oceania (4.8 percent) and Asia (3.6 percent). Even though Asia has the highest loss in absolute terms, it has a relatively small impact given the magnitude of its production. In contrast, Africa, the Americas and Europe appear more affected proportionally to their agricultural sector.

FIGURE B1. **ESTIMATED CROPS AND LIVESTOCK LOSSES DUE TO DISASTERS BY REGION (1991–2021)**



Source: FAO. 2023. *The Impact of Disasters on Agriculture and Food Security 2023 – Avoiding and reducing losses through investment in resilience.* Rome.
https://doi.org/10.4060/cc7900en
Download: https://doi.org/10.4060/cc8166en-figb1

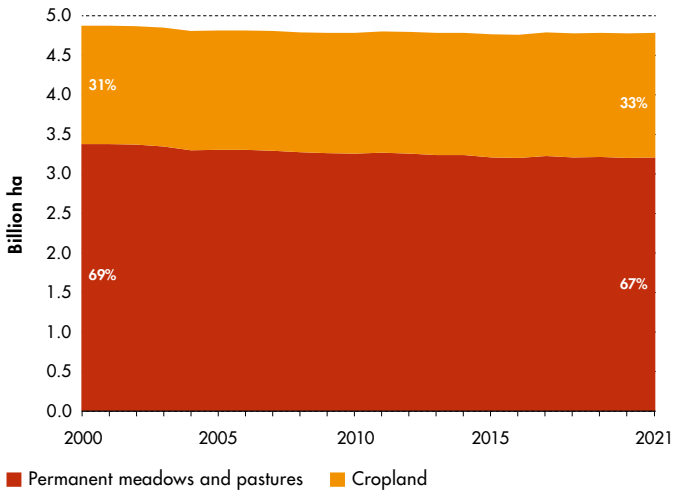
2000, it increased on average by 0.1 percent each year between 1961 and 2021, with a significant expansion up to the 1990s.[2]

The regional breakdown of the global cropland area varied marginally between 2000 and 2021 (see **Figure 4**). Asia had the largest share of the global cropland area in 2021 (37 percent), followed by the Americas (24 percent), Africa (19 percent), Europe (18 percent) and Oceania (2 percent). Nonetheless, there were differences in cropland expansion in the different regions during this period – Oceania and Africa both had rapid growth in cropland area (33 percent and 27 percent, respectively), while Asia and the Americas had more moderate growth (4 percent and 2 percent, respectively). The cropland area of Europe declined between 2000 and 2021 by 5 percent. As a result, the cropland area of Africa overtook that of Europe in 2018.

Approximately 30 percent of global cropland and permanent meadows and pastures can be found in three countries (see **Figure 5**), which are not necessarily the ones with the largest country area.[b] In 2021, 12 percent of global permanent meadows and pastures belonged to China, 10 percent to Australia, and 8 percent to the United States of America. For the same year, the largest share of global cropland was in India (11 percent), followed by the United States of America (10 percent) and China (8 percent). Extensive grasslands versus croplands in agricultural land can indicate intensified livestock practices as opposed to harvesting crops.

Cropland area per capita decreased in all regions between 2000 and 2021 as population increased faster than the cropland area (see **Figure 6**). The world average declined by 18 percent to 0.20 ha per capita in 2021; the decrease was the largest in Africa (–25 percent, to 0.21 ha per capita), followed by the Americas and Asia (–17 percent each, to 0.37 ha per capita and 0.13 ha per capita, respectively), Europe and Oceania (–7 percent each, to 0.39 ha per capita and 0.77 ha per capita, respectively). Against this backdrop, the increase in agricultural production over the same period (described in Chapter 2) indicates higher efficiency in feeding the population with limited land resources. The countries with the highest cropland area per capita are Kazakhstan, Australia and Canada (see **Table 4**), due to vast areas of land available

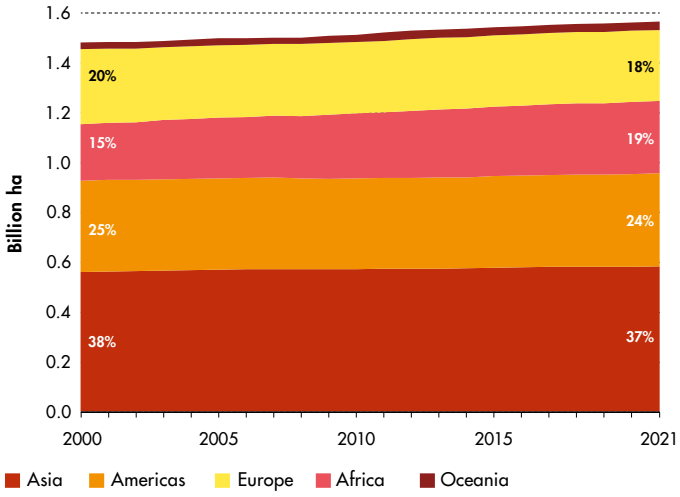
FIGURE 3.
WORLD AGRICULTURAL LAND BY USE



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig03

FIGURE 4.
CROPLAND AREA BY REGION



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig04

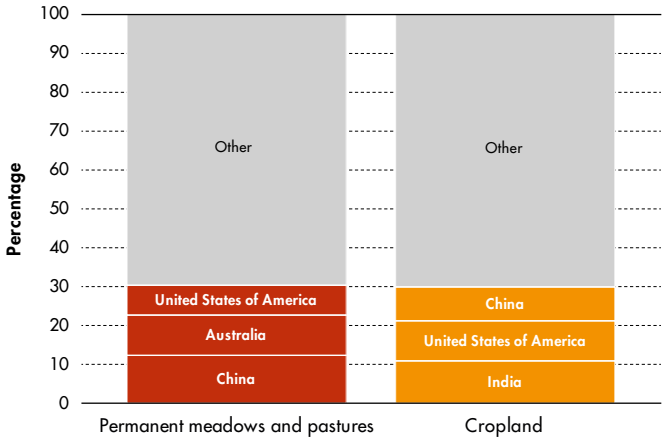
b The top five countries in terms of country area are, in descending order, the Russian Federation, Canada, the United States of America, China and Brazil.

over sparsely populated areas. Other reasons for high values include the intense use of agricultural inputs over cropland and dependencies on agricultural imports or food aid.

The development of irrigation is one aspect of agriculture intensification that has allowed total production to grow much faster than the cultivated area.

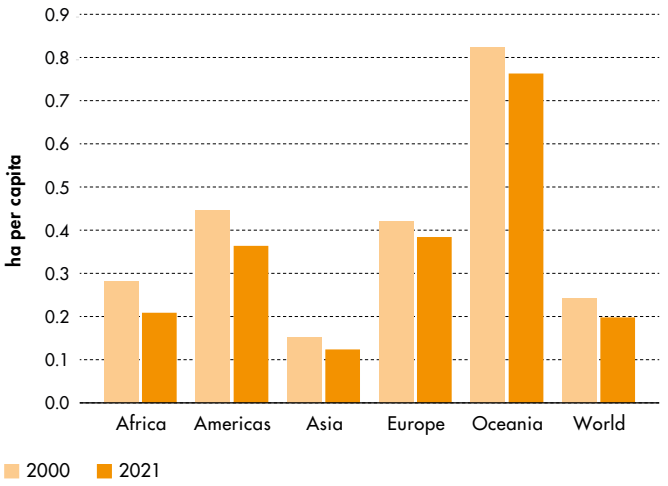
The global land area equipped for irrigation reached 352 million ha in 2021 (see **Figure 7**), an increase of 22 percent from the 289 million ha of 2000 and more than twice the 1960s land area equipped for irrigation.[3] The vast majority is located in Asia (70 percent), where irrigation was a key component of the green revolution;[4] the Americas account for 16 percent and

FIGURE 5.
WORLD AGRICULTURAL LAND BY USE AND MAIN COUNTRIES (2021)



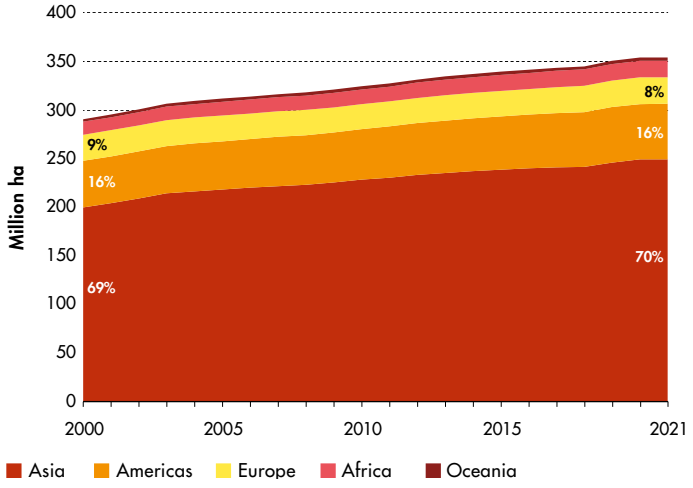
Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig05

FIGURE 6.
CROPLAND AREA PER CAPITA BY REGION



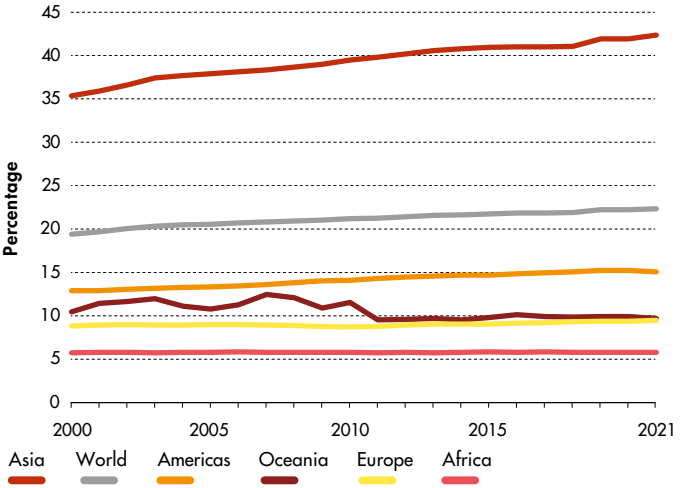
Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig06

FIGURE 7.
AREA EQUIPPED FOR IRRIGATION BY REGION



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.
Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig07

FIGURE 8.
SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA BY REGION



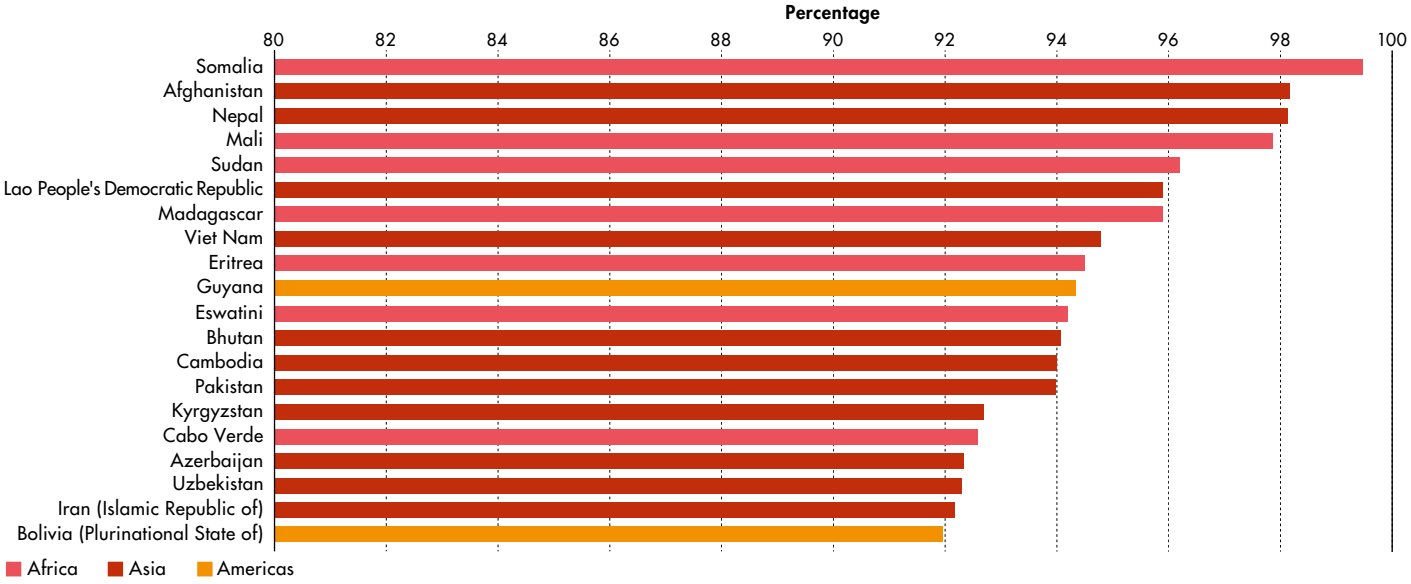
Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig08

Europe for 8 percent of the world total. As shown in **Table 5**, India (76 million ha) and China (75 million ha) have the largest equipped area for irrigation, far ahead of the United States of America (27 million ha). China and India also have the largest net gains in equipped area between 2000 and 2020 (+21 million ha for China and +15 million ha for India). All the regions saw increases in the area equipped for irrigation, with Africa growing the fastest (+29 percent), followed by Asia (+25 percent), Oceania (+24 percent), the Americas (+19 percent) and Europe (+2 percent).

The share of the area equipped for irrigation in cropland area increased to 22.3 percent in 2021, up 2.9 percentage points compared with 2000 (see **Figure 8**). It increased in all regions except Oceania, with the largest gains located in Asia, as described above. The higher levels in Asia compared to the rest of the world are partly attributable to the prevalence of irrigation-intensive rice cultivation in the region. As seen in **Table 6**, Turkmenistan, Egypt and Uzbekistan stand out as countries with both a sizeable cropland area and very high shares of equipped area for irrigation (99.8 percent, 98.9 percent and 97.7 percent in 2021, respectively); most of their land area is desert with an arid climate. Countries with low shares are more dependent on rainfed agriculture, which is affected by changing rain patterns and tends to be more extensive than irrigated agriculture. On the other hand, irrigated agriculture competes with other uses of the water resources available in countries.

The share of agricultural water withdrawals in total withdrawals is an indication of the relative weight of agricultural water uses compared to the industrial and municipal ones. As seen in **Figure 9**, the countries with the highest shares are located mostly in Africa and Asia, with the share of Somalia above 99 percent. One trait shared by most of these countries is the income level: out of the top 20 countries, the World Bank classifies 6 as low-income, 12 as lower-middle income, 1 as upper-middle income and 1 as high-income.[5] In 2020, the share of agricultural water withdrawals in total withdrawals was greater than 90 percent in 29 countries (see **Table 7**).

FIGURE 9.
SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL, TOP COUNTRIES (2020)



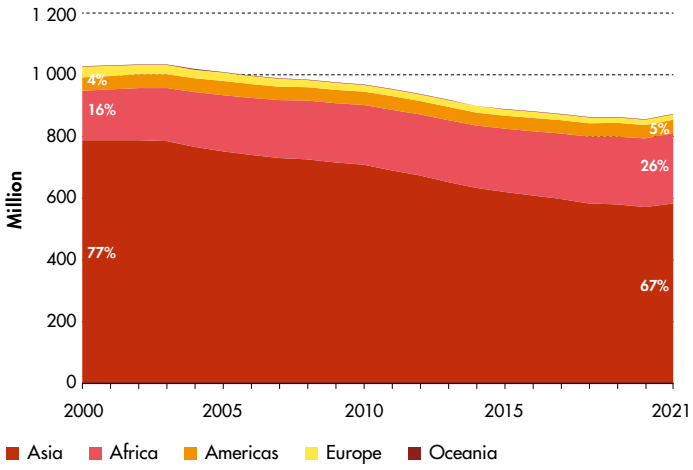
Source: FAO. 2023. AQUASTAT Dissemination System. In: *AQUASTAT*. Rome. [Cited October 2023]. https://data.apps.fao.org/aquastat/?lang=en
Download: https://doi.org/10.4060/cc8166en-fig09

Labour

The number of people working in agriculture worldwide, including forestry and fishing, went down 15 percent between 2000 and 2021, reaching 873 million in 2021, or 154 million less than in 2000 (see **Figure 10**). The impact of the COVID-19 pandemic can be seen in the values of 2020 and 2021: the decline between 2019 and 2020 due to the restrictions and the decline in activity contrasts with the stability observed between 2018 and 2019, while the rebound experienced in 2021 translated into an increase of employment in agriculture of 18 million people (with increases in Africa, the Americas and Asia, and decreases in Europe and Oceania).[c] Between 2000 and 2021, agricultural employment has declined from 787 million people to 581 million in Asia: this means that more than one out of every four agricultural workers has left the sector for another job outside agriculture in the region. During the same period, the biggest drop was observed in Europe, as agricultural employment there has decreased by 49 percent from 34 million, which represents a decrease of 17 million people. During the same period, even if the share of employment in agriculture declined in Africa (see **Figure 11**), agricultural employment increased to 229 million people in 2021. India and China had the largest number of people working in agriculture in 2021 (206 million people and 184 million people, respectively); together they accounted for two-thirds of agricultural employment in Asia and 45 percent of global agricultural employment in 2021 – even though 11 million people left the agriculture sector between 2000 and 2021 in India and 171 million in China (see **Table 8**).

The share of employment in agriculture, forestry and fishing in total employment declined globally by 13 percentage points between 2000 and 2021, to 26.6 percent (see **Figure 11**). Yet, agriculture remains the second largest source of employment worldwide after the services sector.[6] A decline in the share of the agricultural sector is usually linked to growing income levels, which explains the drop in the share of employment in agriculture across all regions and nearly all the countries (see **Table 9**). The COVID-19 pandemic broke this overall declining trend in 2020: while employment dropped in all sectors due to the COVID-19 restrictions, the industry and services sector were much more affected than agriculture, resulting in an increase of the share of agricultural employment in all regions except Europe and Oceania between 2019 and 2020, followed by a decline in 2021. The lowest share

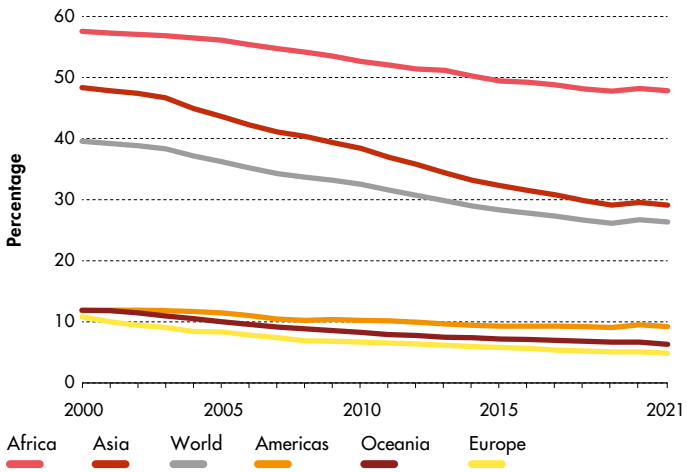
FIGURE 10.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING BY REGION



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA
Download: https://doi.org/10.4060/cc8166en-fig10

FIGURE 11.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT BY REGION



Source: FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA
Download: https://doi.org/10.4060/cc8166en-fig11

c To fully understand the extent of the disruption caused by the COVID-19 pandemic, information on the number of people employed needs to be combined with other employment characteristics that capture reductions in the number of hours worked or transitions into a temporary activity.

of employment in agriculture was observed in Europe in 2021, where only 5.1 percent of the employed population had a job in agriculture. The highest share was observed in Africa with 48.0 percent of the total employed population.

FIGURE 12 shows the countries with the highest shares of women in agricultural employment. While on average women represented 37.8 percent of all agricultural workers in 2021, this share is above 50 percent in 22 countries (see TABLE 10), most of them in Africa. Women and men working in agriculture might have different employment status. Generally, the women employed in agriculture are more likely to be engaged as contributing family workers whereas men are more likely to be engaged on their own account as workers generating an income.[7] In addition, women often spend more time than men on activities such as food processing and food preparation for the household, child and elder care, water and fuel collection and other unpaid household duties.[8]

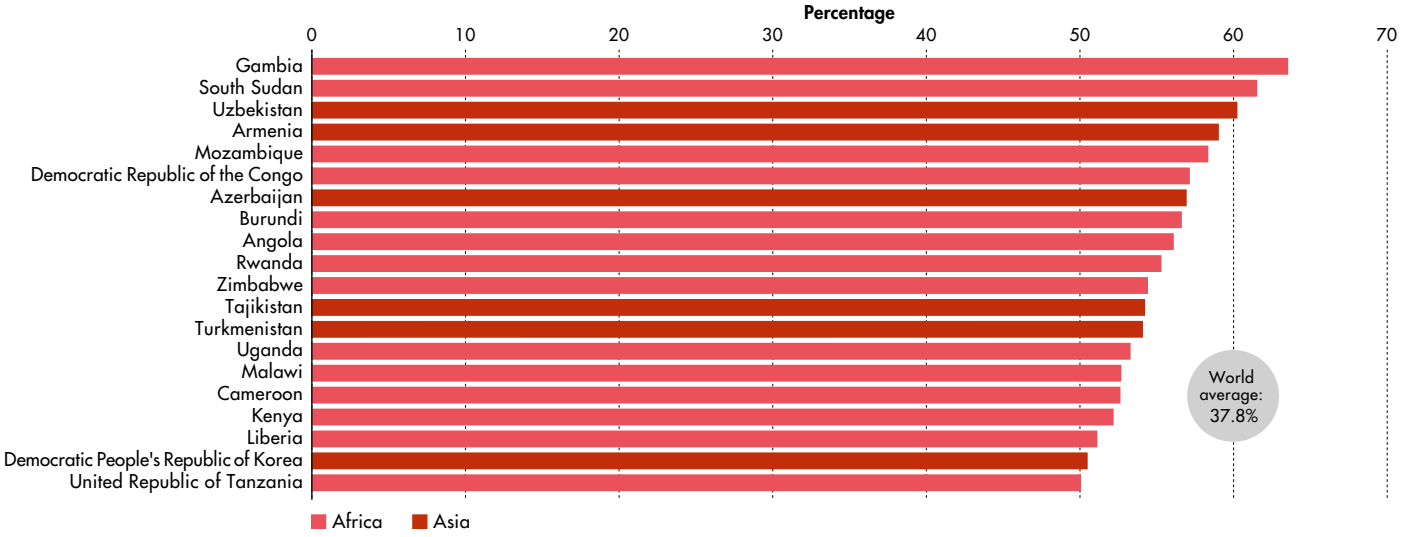
Capital and investment

Capital in the agriculture sector includes the machinery, equipment and tools as well as the farm buildings, and is essential in the production of all agricultural outputs. The gross fixed capital formation (GFCF) is an indication of the amounts that are reinvested in new fixed assets that are part of capital.

High-income countries tend to devote a higher share of their agriculture value added to reinvestments in the sector than countries with lower levels of income (see FIGURE 13 and TABLE 11). The three countries with the higher share of GFCF in value added in 2021 are all in Europe: Latvia (77 percent), Belgium (76 percent) and Estonia (57 percent). The leaders of the other regions had much lower shares: 34 percent for Australia, 26 percent for the United States of America and Japan, and 20 percent for South Africa.

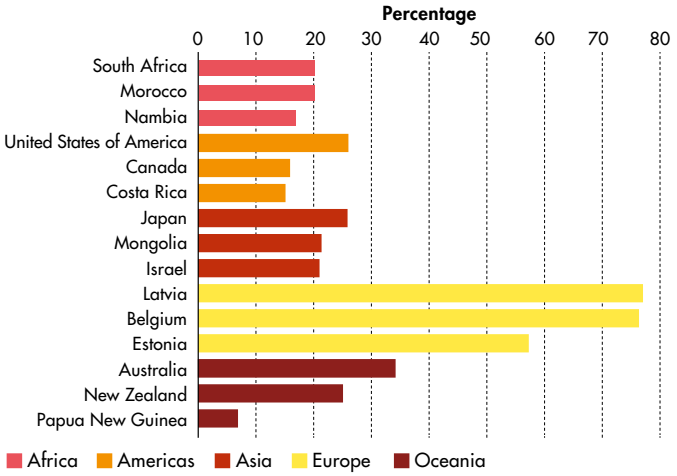
Government spending on agriculture is a measure of the public financial support to the sector and complements investments made by the private sector. Asia and Africa had the highest percentage of central government spending on agriculture between 2000 and 2021.[9] FIGURE 14 and TABLE 12 reflect this, as most of the countries with the highest shares are in these two regions, with Bhutan (12.8 percent), Iceland (12.4 percent), and Zimbabwe (12.2 percent) as the top three countries. In the case of Africa, signatories to the Malabo Declaration of 2014 committed to allocate at least 10 percent of government expenditures to agriculture.[10]

FIGURE 12.
SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT, TOP COUNTRIES (2021)



Source: Based on FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA
Download: https://doi.org/10.4060/cc8166en-fig12

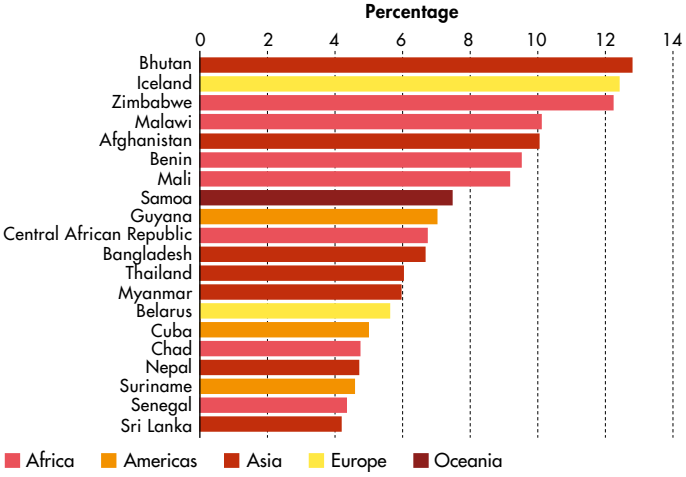
FIGURE 13.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED, TOP COUNTRIES BY REGION (2021, USD 2015 PRICES)



Note: Only countries with more than USD 500 million of agriculture value added are included. Values for 2021 are projections.

Source: FAO. 2022. Capital Stock. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CS
Download: https://doi.org/10.4060/cc8166en-fig13

FIGURE 14.
GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING AS A SHARE OF TOTAL OUTLAYS, TOP COUNTRIES (2019–2021*)



Source: FAO. 2022. Government Expenditure. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/IG
Download: https://doi.org/10.4060/cc8166en-fig14

INPUTS

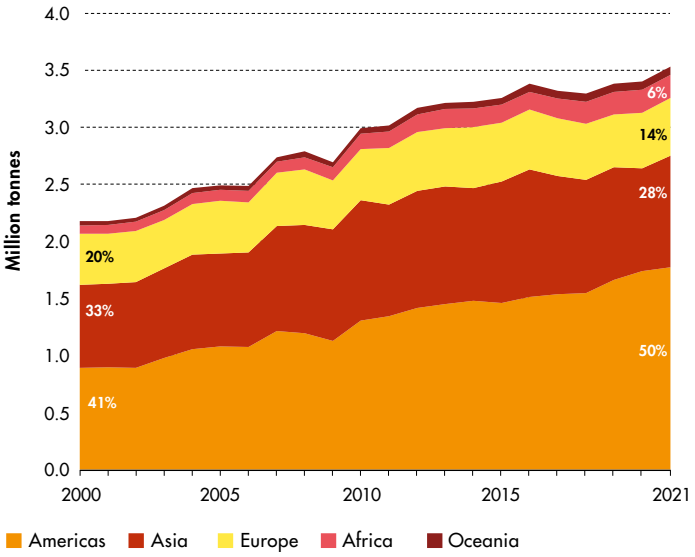
Pesticides

Global pesticides use increased between 2000 and 2021 by 62 percent, to 3.5 million tonnes in 2021 (see **Figure 15**). Nearly all the increase took place between 2000 and 2016, with a small decline until 2018 and renewed growth afterwards. The highest contributions came from the Americas, followed by Asia, Europe, Africa and Oceania.[d] The share of the Americas, the largest contributor, increased from 41 percent to 50 percent of global pesticides consumption while that of Asia and Europe decreased by 5–6 percentage points to 28 percent and 14 percent, respectively. Africa and Oceania applied small amounts of pesticides over time, but Africa nonetheless had the highest growth in pesticides applications (+176 percent). As shown in **Table 13**, Brazil was the largest pesticide user in 2021 with 0.72 million tonnes, or 20 percent of the world total, far ahead of the United States of America (0.46 million tonnes) and Indonesia (0.28 million tonnes).

Global pesticides use per cropland area went up 35 percent in the 2000s, from 1.5 kg/ha to 2.0 kg/ha; growth slowed down afterwards to just 14 percent between 2010 and 2021 (see **Figure 16**), although with some important regional differences. Pesticides application rates in 2021 were highest in the Americas by a wide margin (4.7 kg/ha), followed by Oceania, Europe, Asia and Africa. Asia and Europe were the only regions where pesticides use per cropland area decreased between the early 2010s and 2021. Among the top pesticides users in 2021 mentioned above, Brazil had the largest use per cropland area (10.9 kg/ha), close to four times the value for the United States of America (2.9 kg/ha) and almost six times the value for China (1.9 kg/ha) (see **Table 14**).

d Data published in 2023 included a methodological update based on the use of net trade to impute pesticide use in cases of poor data quality, and a major upward revision of total pesticides use in Brazil and Indonesia.

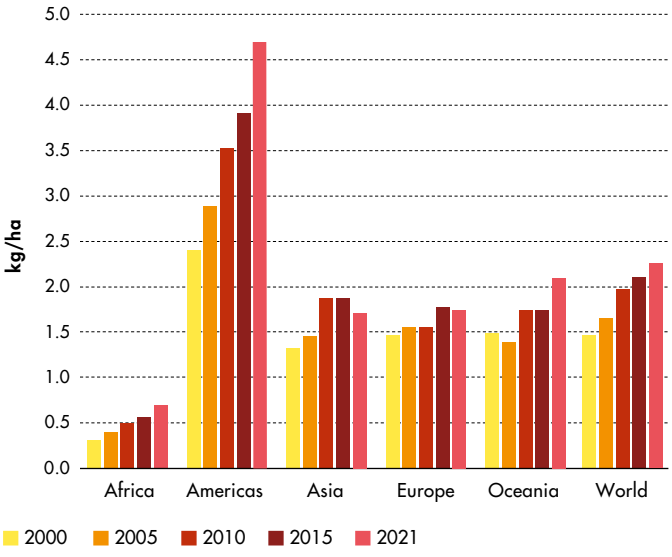
FIGURE 15.
PESTICIDE USE BY REGION



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Pesticides Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RPP
Download: https://doi.org/10.4060/cc8166en-fig15

FIGURE 16.
PESTICIDE USE PER CROPLAND AREA BY REGION



Source: FAO. 2023. Pesticides Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RP
Download: https://doi.org/10.4060/cc8166en-fig16

Fertilizers

Total agricultural use of inorganic fertilizers, expressed as the sum of the three nutrients nitrogen (N), phosphorus (expressed as P_2O_5) and potassium (expressed as K_2O), was 195 million tonnes in 2021. As shown in **Figure 17**, the breakdown was 109 million tonnes of nitrogen (56 percent of the total), 46 million tonnes of phosphorus (24 percent) and 40 million tonnes of potassium (21 percent). The overall fertilizer use in 2021 was 60 million tonnes, or 44 percent, higher than in 2000 (34 percent higher for nitrogen, 43 percent higher for phosphorus and 85 percent higher for potassium).

Asia represented 53 percent of world total agricultural use of inorganic fertilizers in 2021, followed by the Americas (29 percent), Europe (12 percent), Africa (4 percent) and Oceania (2 percent). This ranking of the regions is the same for all nutrients. The main users of inorganic fertilizers are, in descending order, China, India, Brazil and the United States of America (see **Table 15**), with China the largest user of each nutrient.

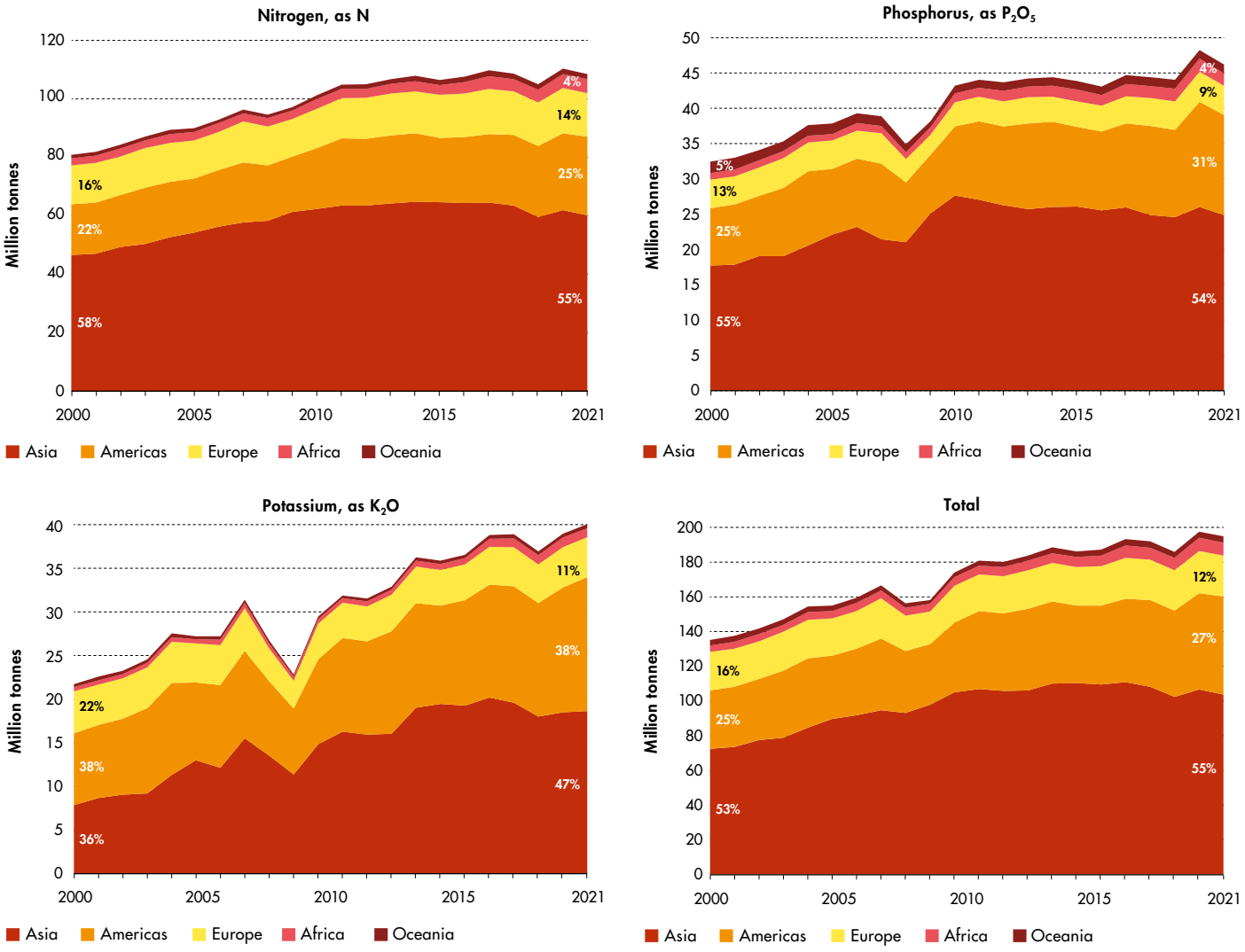
Fertilizer use increased in all regions between 2000 and 2021 (see **Figure 18**). The total for the three nutrients went up 32 million tonnes – the largest increase in absolute terms – in Asia, or 44 percent. The fastest increase took place in Africa, with a growth of 97 percent equivalent to just 4 million tonnes due to the low starting level. In the Americas, fertilizer use posted a 67 percent increase, or 23 million tonnes, while in Oceania it went up 13 percent (or 0.4 million tonnes) compared to 7 percent in Europe (or 1.5 million tonnes).

The mix of nutrients varies across the regions. Nitrogen is the dominant nutrient, accounting for 63 percent of fertilizer use in both Europe and Africa, 58 percent

in Asia, and around half of the total in Oceania (51 percent) and the Americas (48 percent). The use of phosphorus accounts for 18 to 25 percent of the total in all the regions except Oceania, where its share is 35 percent. The share of potassium in fertilizer use is the highest in the Americas with 27 percent, followed by Europe (19 percent), Asia (18 percent), Africa and Oceania (14 percent each). The use of phosphorus declined in Oceania between 2000 and 2021, while the use of potassium declined in Europe over the same period.

World agricultural use of inorganic fertilizers per cropland area rose by 38 percent between 2000 and 2021, to 119 kg of nutrients per hectare – expressed as the sum of nitrogen, phosphorus and potassium (see **Figure 19**). This corresponds to an increase of 33 kg/ha compared with 2000. Of the total amount, 65 kg/ha correspond to nitrogen (up 28 percent), 29 kg/ha to phosphorus (up

FIGURE 17
INORGANIC FERTILIZER USE BY REGION

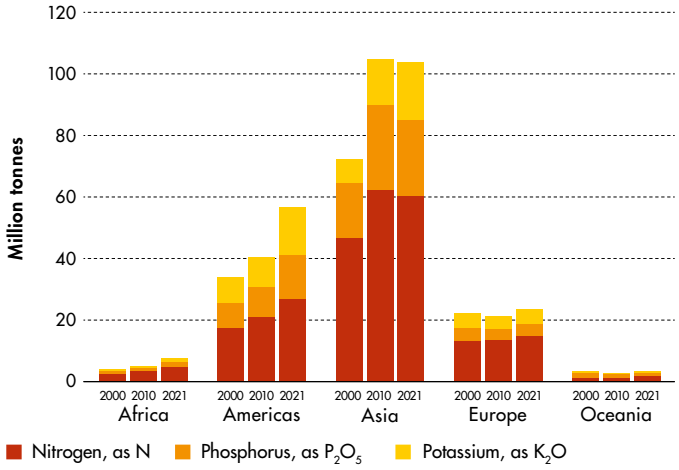


Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.
Source: FAO. 2023. Fertilizers by Nutrient. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RFN
Download: https://doi.org/10.4060/cc8166en-fig17

37 percent) and 24 kg/ha to potassium (up 78 percent).

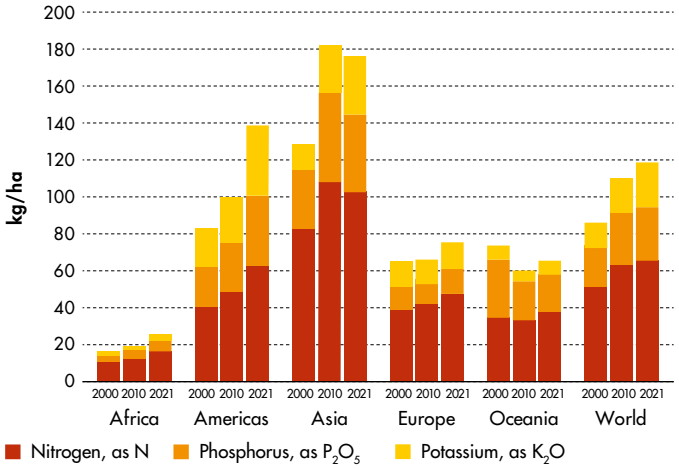
Fertilizer use per cropland area in 2021 was the highest in Asia, at 176 kg/ha, followed by the Americas (139 kg/ha), Europe (75 kg/ha), Oceania (65 kg/ha) and Africa (26 kg/ha), as shown on **Figure 19** and **Table 16**. With a growth rate of 67 percent between 2000 and 2021, the Americas was the region with the fastest increase in fertilizer use per cropland area, ahead of Africa (+57 percent), Asia (+37 percent) and Europe (+16 percent) – Oceania is the only region showing a decrease (–11 percent).

FIGURE 18.
INORGANIC FERTILIZER USE BY NUTRIENT AND REGION



Source: FAO. 2023. Fertilizers by Nutrient. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RFN
Download: https://doi.org/10.4060/cc8166en-fig18

FIGURE 19.
INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT AND REGION

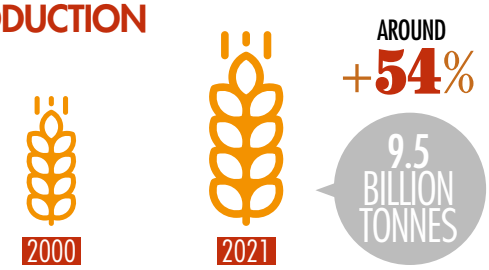


Source:: FAO. 2023. Fertilizers by Nutrient. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RFN
Download: https://doi.org/10.4060/cc8166en-fig19

CHAPTER 2

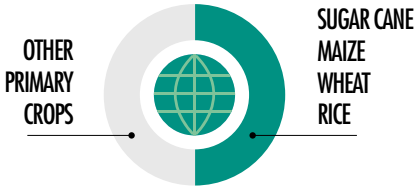
KEY FACTS

PRIMARY CROP PRODUCTION



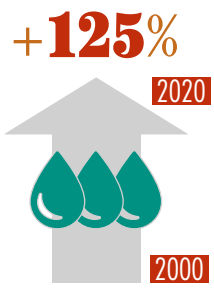
The production of primary crops was 9.5 billion tonnes in 2021, 54% more than in 2000.

GLOBAL PRIMARY CROP PRODUCTION



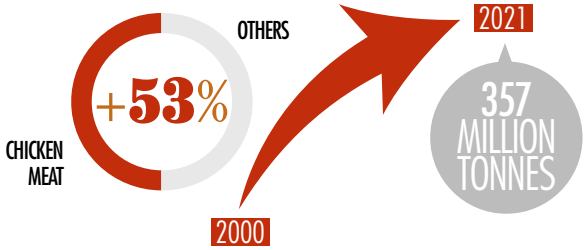
Four crops account for about half of global primary crop production: sugar cane, maize, wheat and rice.

VEGETABLE OILS PRODUCTION



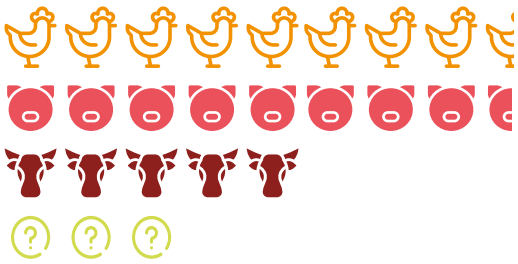
The production of vegetable oils went up 125% between 2000 and 2020, driven by a sharp increase in palm oil.

MEAT PRODUCTION



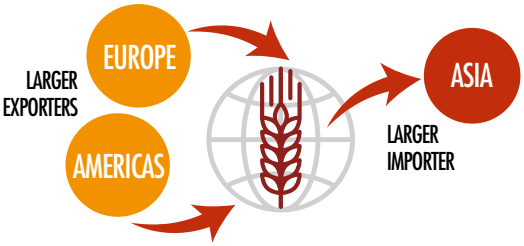
357 million tonnes of meat were produced in 2021, 53% more than in 2000, with chicken meat representing more than half the increase.

MEAT PRODUCTION BREAKDOWN



Chicken meat was the most produced type of meat in 2021 just ahead of pig meat.

CEREALS TRADE



Cereals are the most traded commodity by quantity in 2021: the Americas and Europe are the largest exporters and Asia is the largest importer.

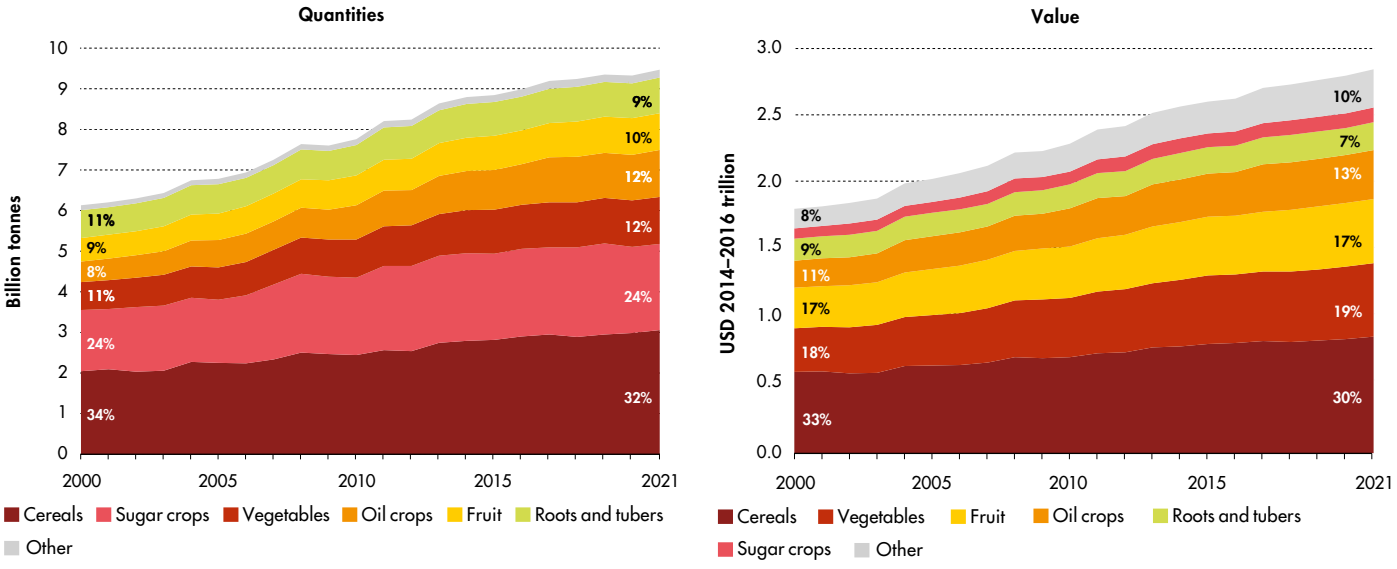
2 PRODUCTION, TRADE AND PRICES OF COMMODITIES

PRODUCTION OF CROPS AND DERIVED PRODUCTS

The global production of primary crops increased by 54 percent between 2000 and 2021, to 9.5 billion tonnes, which is 2 percent higher than in 2020 (see **Figure 20** and **Table 17**). This represents 3.3 billion tonnes more than in 2000. With slightly less than one-third of the total, cereals were the main group of crops produced in 2021, followed by sugar crops (22 percent), vegetables and oil crops (12 percent each). Fruit, and roots and tubers each accounted for 9–10 percent of the total production. The increase in production is mostly attributable to a combination of factors seen in Chapter 1 (increased use of irrigation, pesticides and fertilizers, and to a lesser extent a larger cultivated area); other factors such as better farming practices[11] and the use of high-yield crops[12] also play a role.

The value of primary crops production increased at a slightly higher pace in real terms as the quantities produced (57 percent), from USD 1.8 trillion in 2000 to USD 2.8 trillion in 2021. As with quantities produced, cereals accounted for the largest share in the total production value in 2021 (30 percent). Vegetables and fruit represented 19 percent and 17 percent, respectively, of the total value in 2021, which is significantly higher than the shares in quantities. The shares of oil crops and roots and tubers in the total value were similar to the shares in quantities. Sugar crops represented 4 percent of the total value: such a discrepancy with the share of the quantities produced is due to differences in price compared to fruit and vegetables, and to the fact that the transformation into refined sugar is adding the most value.

FIGURE 20.
WORLD PRODUCTION OF PRIMARY CROPS BY COMMODITY GROUP



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL and FAO. 2023. Value of Agricultural Production. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QV
Download: https://doi.org/10.4060/cc8166en-fig20

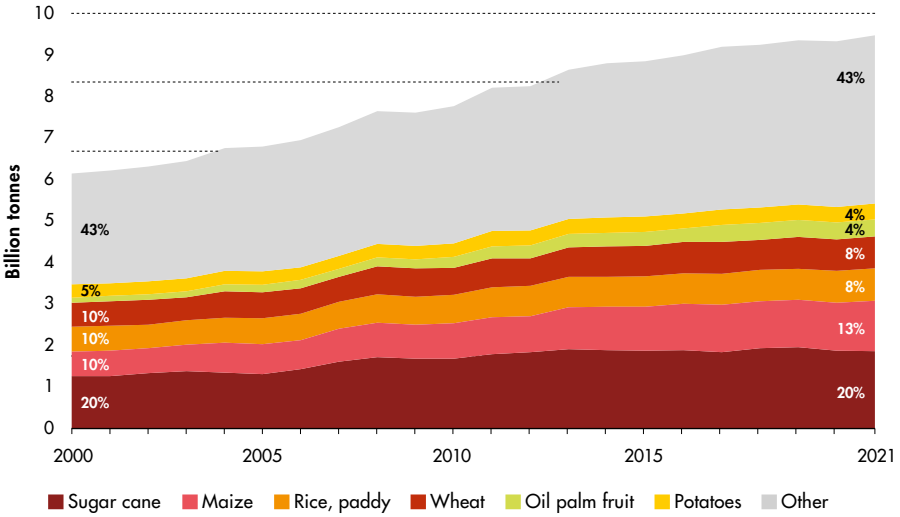
While a multitude of crops are cultivated and harvested around the world, just four individual crops accounted for half the global production of primary crops in 2021: sugar cane (20 percent of the total, with 1.9 billion tonnes), maize (13 percent, with 1.2 billion tonnes), wheat and rice (8 percent each, with 0.8 billion tonnes) – see **Figure 21**. Oil palm fruit and potatoes each accounted for an additional 4 percent of world crop production.

Sugar cane accounted for around 21 percent of the global crop production over the 2000–2021 period. While maize, wheat and rice each represented 10 percent of the total in 2000, maize production grew three times faster than that of wheat or rice during the period, surpassing rice in 2001 to become the second most produced crop worldwide. As seen in **Table 19**, the Americas was the leading region in the production of sugar cane (52 percent of the world total) and maize (49 percent) in 2021, while Asia led in the production of rice (90 percent), oil palm fruit (88 percent), potatoes (53 percent) and wheat (44 percent).

Figure 22 shows that for each main crop commodity, the top three producers combined account for a significant share of the world total: 42–45 percent for wheat and potatoes, around 60 to 66 percent for sugar cane, maize and rice, and close to 90 percent for oil palm fruit in 2021. For each crop, the top producer also has a sizeable share of the global output: in 2021, Brazil accounted for 38 percent of world sugar cane production, the United States of America grew 32 percent of the global production for maize, China (which ranked in the top three producers for five out of the six main crop commodities) produced about 25 percent of the world output of rice and potatoes, and 18 percent of the world output of wheat, while 62 percent of oil palm fruit production originated in Indonesia. Such a concentration can have a large impact on prices when harvests are affected – either positively or negatively – in the main producing countries that export part of their production.

Most primary crops can be consumed unprocessed, but two crop groups in particular require processing for the production of commodities used both as food and fuel: oil crops and

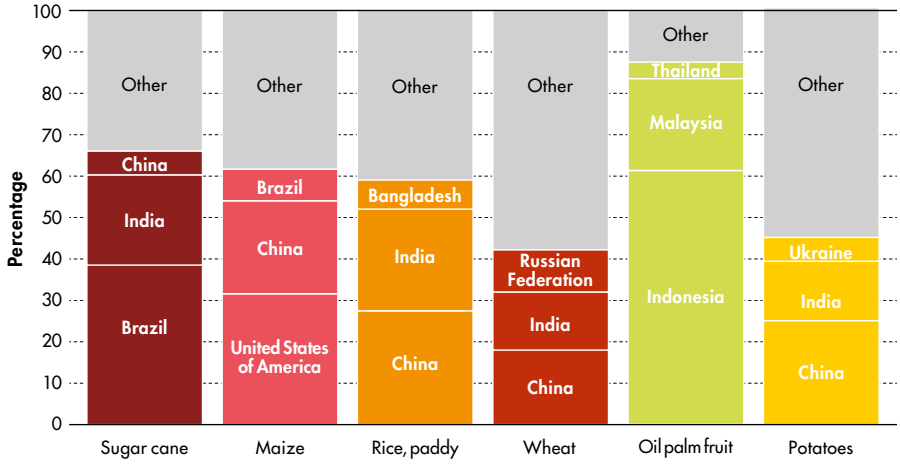
FIGURE 21.
WORLD PRODUCTION OF PRIMARY CROPS, MAIN COMMODITIES



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig21

FIGURE 22.
WORLD PRODUCTION OF MAIN PRIMARY CROPS BY MAIN PRODUCERS (2021)



Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig22

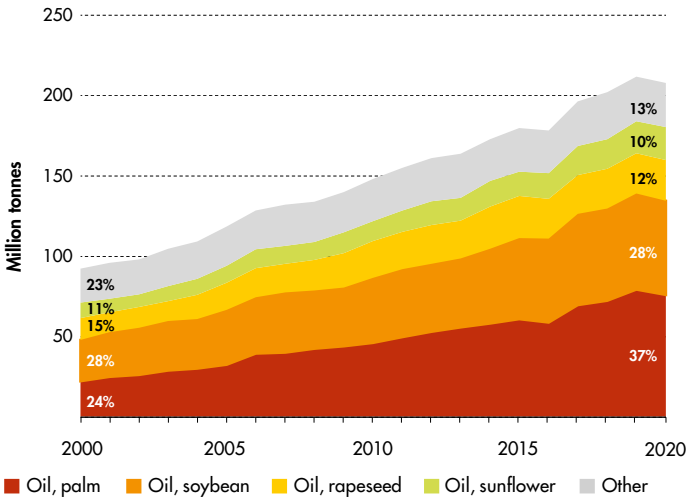
sugar crops. Therefore, they have an impact on nutrition and health, but also on energy and the environment.

The global production of vegetable oils went up 125 percent between 2000 and 2020, to 208 million tonnes in 2020 (see **Figure 23** and **Table 20**). This is 115 million tonnes more than in 2000, but 4 million tonnes less than in 2019. Palm oil registered the largest increase, both absolute and relative, as its production went up 54 million tonnes, or 241 percent; it overtook soybean oil as the main vegetable oil produced in 2006. The use of palm oil for biodiesel explains most of this spectacular growth.[13] The other main vegetable oils produced in 2020 are rapeseed oil, accounting for 12 percent of global vegetable oil production (down from 15 percent in 2000), and sunflower oil, which accounted for 10 percent of total vegetable oil production (down from 11 percent in 2000).

As with primary crops, the production of the main vegetable oils is heavily concentrated in a handful of countries (see **Figure 24**). The concentration is highest with palm oil, as 85 percent of global production came from two countries in 2020: Indonesia (60 percent) and Malaysia (25 percent). This mirrors the shares of the top producers of oil palm fruit shown in **Figure 22**. In 2020, the top three producers accounted for 63–64 percent of the production of sunflower oil and soybean oil, and for 45 percent of the production of rapeseed oil. China was the main producer of soybean oil, with a share of 27 percent in 2020 and the United States of America a distant second with a share of 19 percent. The difference between the first and second producer was much smaller for rapeseed and sunflower oil: Canada led the production of rapeseed oil in 2020, with 17 percent of the world total, just ahead of Germany (16 percent), while Ukraine produced 29 percent of the global sunflower oil output in 2020, with the Russian Federation a close second (27 percent).

The global production of raw sugar reached 173 million tonnes in 2020, up 30 percent compared with 2000, or 40 million tonnes (see **Figure 25** and **Table 21**). Nevertheless, this is the lowest level since 2011 as production declined for two consecutive years in 2019 and 2020. As sugar cane, the main sugar crop, grows in tropical regions, the main producing countries are located there. Brazil became again the top sugar producer in 2020 after drops in sugar production in 2018 and 2019 due to dry weather and higher ethanol prices that make producing sugar less profitable – it experienced a 39 percent increase between 2019 and 2020. India was in the opposite situation, as its sugar production went down 16 percent between 2019 and 2020. The other main producers each accounted for 3 to 6 percent of the total production in 2020, with the Russian Federation relying only on sugar beet for sugar production.

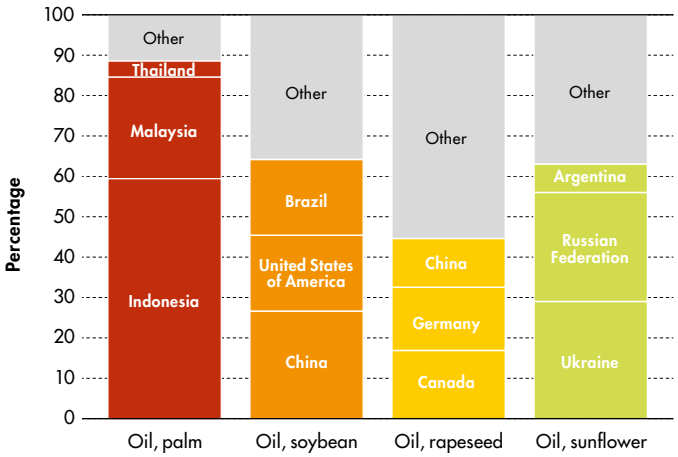
FIGURE 23.
WORLD PRODUCTION OF VEGETABLE OILS, MAIN COMMODITIES



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig23

FIGURE 24.
WORLD PRODUCTION OF MAIN VEGETABLE OILS BY MAIN PRODUCERS (2020)

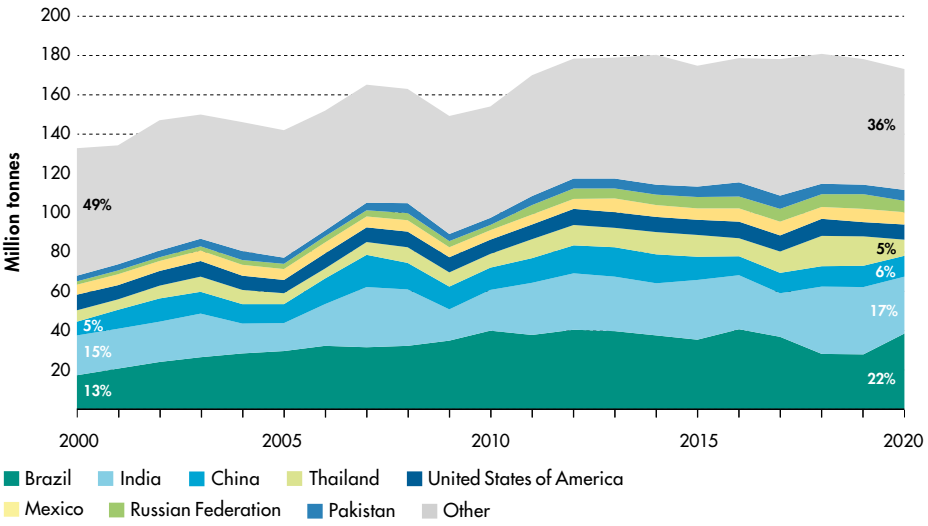


Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig24

PRODUCTION OF LIVESTOCK AND LIVESTOCK COMMODITIES

World meat production reached 357 million tonnes in 2021, up 53 percent, or 124 million tonnes compared with 2000 (see **Figure 26**). The increase in production between 2020 and 2021 reached 4 percent, which is the fastest over the 2000–2021 period. Although many species are raised for their meat, only three accounted for nearly 90 percent of the global production between 2000 and 2021: chicken, pig and cattle (not taking into account the different breeds for each). With 34 percent of the global production in 2021, chicken meat showed the largest growth in absolute and relative terms since 2000 (+107 percent, or 63 million tonnes) and was the most produced type of meat in 2021. Pig meat also represented 34 percent of the total in 2021, compared to 39 percent in 2000 and 32 percent in 2020. African swine fever started affecting Asian countries in late 2018 and continued in 2019 and 2020. It resulted in an 11 million tonnes decrease in world pig meat production between 2018 and 2019, with China being hardest hit, and kept constraining production in 2020. However, pig meat production rebounded in 2021 to 120 million tonnes (+11 percent) – above the 2018 level – and drove the strong increase in global meat production mentioned above. The share of cattle meat dropped from 24 percent in 2000 to 20 percent in 2020.

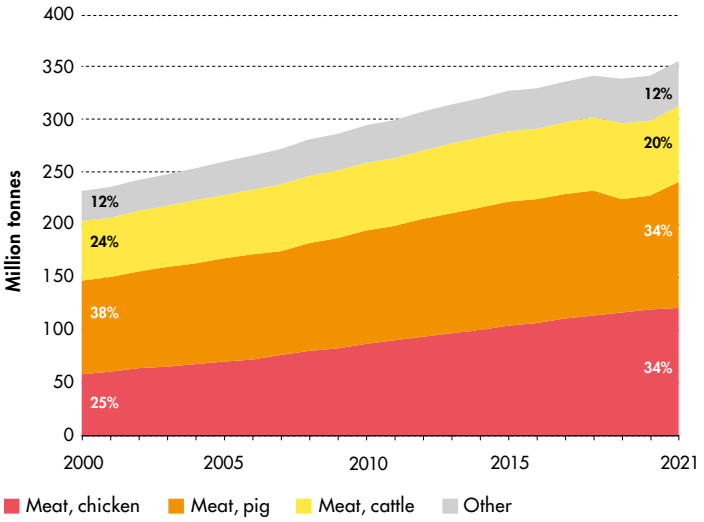
FIGURE 25.
WORLD PRODUCTION OF RAW SUGAR, MAIN PRODUCERS



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig25

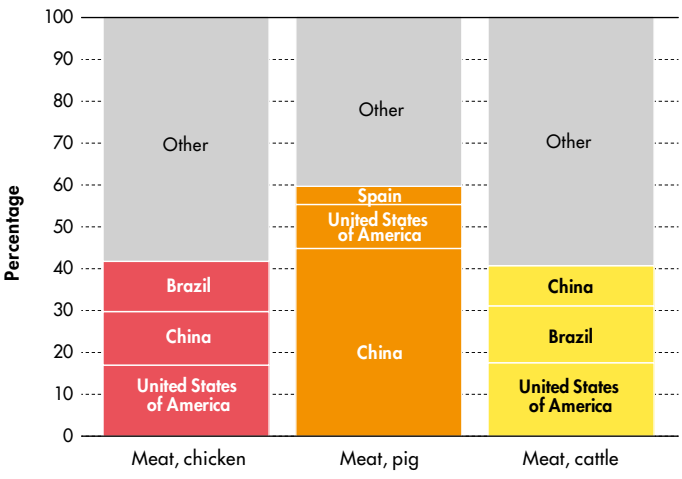
FIGURE 26.
WORLD PRODUCTION OF MEAT, MAIN ITEMS



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig26

FIGURE 27.
WORLD PRODUCTION OF MAIN MEAT ITEMS, MAIN PRODUCERS (2021)



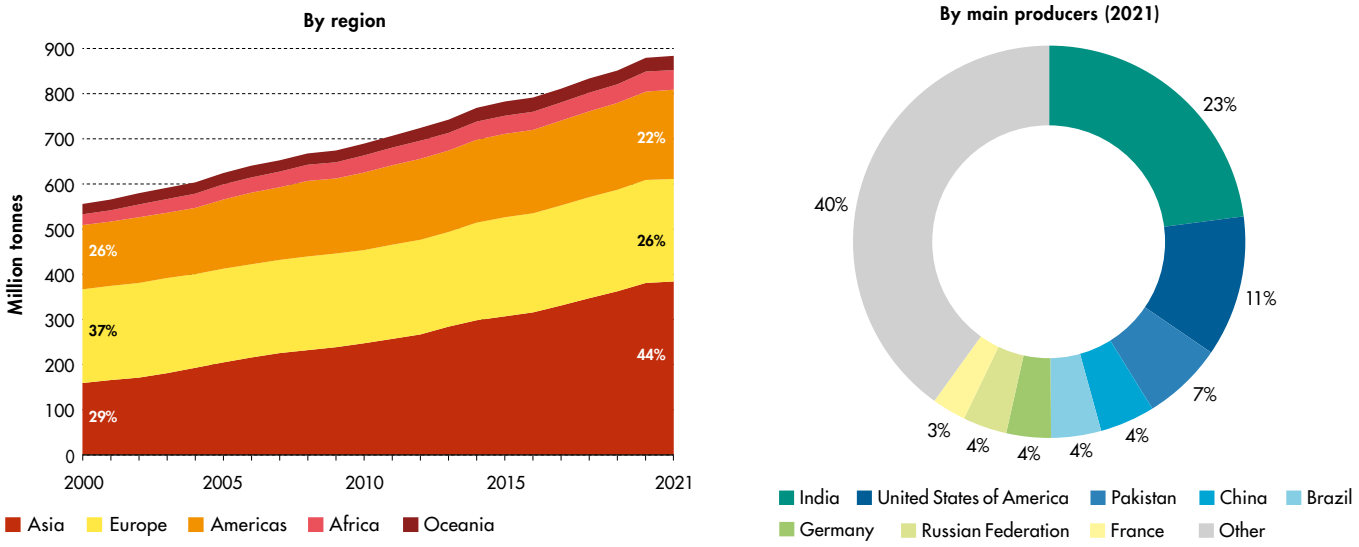
Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig27

The market concentration of meat production is not as strong as for primary crops and vegetable oils, even though the top three producers accounted for 60 percent of world pig meat production and 41–42 percent of global chicken and cattle meat production in 2021 (see **Figure 27** and **Table 22**). China and the United States of America are among the three largest producers for each main meat type: in particular, China alone accounted for 45 percent of world pig meat in 2021, and the United States of America produced 17 to 18 percent of world chicken and cattle meat. The difference between the two countries is that meat production in China is mostly for the domestic market, whereas a significant share of American meat production (especially in the case of chicken) is exported.[14]

The global production of bovine milk (cattle and buffalo milk), which accounted for 96 percent of the global milk production in 2021, rose by 58 percent to 884 million tonnes in 2021, an increase of 328 million tonnes compared with 2000 (see **Figure 28**). Unlike meat production, the increase in milk production between 2020 and 2021 was the smallest in the 2000–2021 period (0.5 percent). Asia was the largest milk-producing region in 2021 with a 44 percent share of the total, ahead of Europe (26 percent), the Americas (22 percent), Africa (5 percent) and Oceania (3 percent). In particular, milk production in Asia went up 142 percent between 2000 and 2021, from 159 million tonnes to 384 million tonnes mostly due to the increase in India (126 million tonnes), which was the largest producer with a 23 percent share of the global total in 2021. With an 11 percent share, the United States of America was the second largest producer; the other main producers (Pakistan, China, Brazil, Germany, the Russian Federation and France) each accounted for 3 to 7 percent of the global production. The combined share of the top three milk producers was 41 percent of the total, the same as in 2020, even though the share has been steadily increasing since 2000 (see **Table 23**).

In 2021, world hen eggs production reached 86 million tonnes, a 0.8 percent decrease compared with 2020 but a 69 percent increase from the 2000 level, which translates into an additional 36 million tonnes over the period (see **Figure 29**). Asia was by far the main producing region, accounting for 62 percent of the global production in 2021, followed by the Americas (21 percent), Europe (13 percent), Africa (4 percent) and Oceania (0.4 percent). Production growth rates were well above 70 percent in all the regions but Europe, where it grew by just 18 percent (see **Table 24**); as a result, its share in the world total dropped from 18 percent to 13 percent. With 34 percent of the total, China ranked as the largest hen egg producing country; the other main producers (the United States of America, India, Indonesia, Brazil, Mexico, Japan and the Russian Federation) combined barely surpassed it. Together, the top three producers accounted for nearly half the global hen eggs production in 2021.

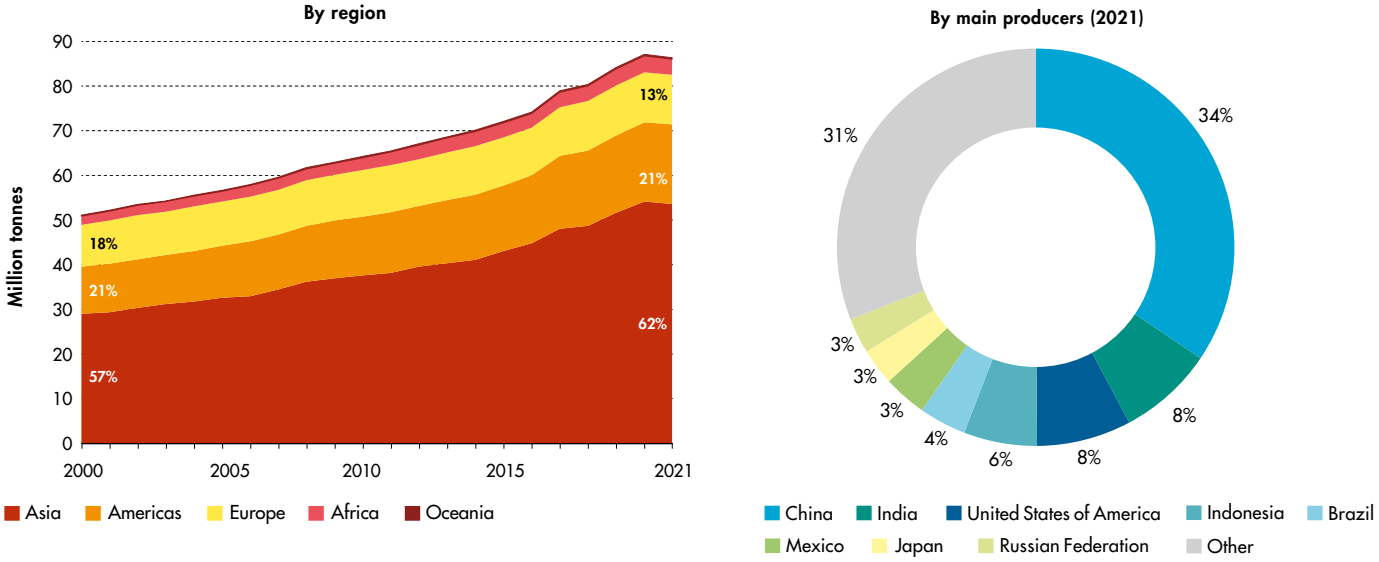
FIGURE 28.
WORLD PRODUCTION OF BOVINE MILK



Note: Bovine milk comprises cattle and buffalo milk. Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig28

FIGURE 29.
WORLD PRODUCTION OF HEN EGGS



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding

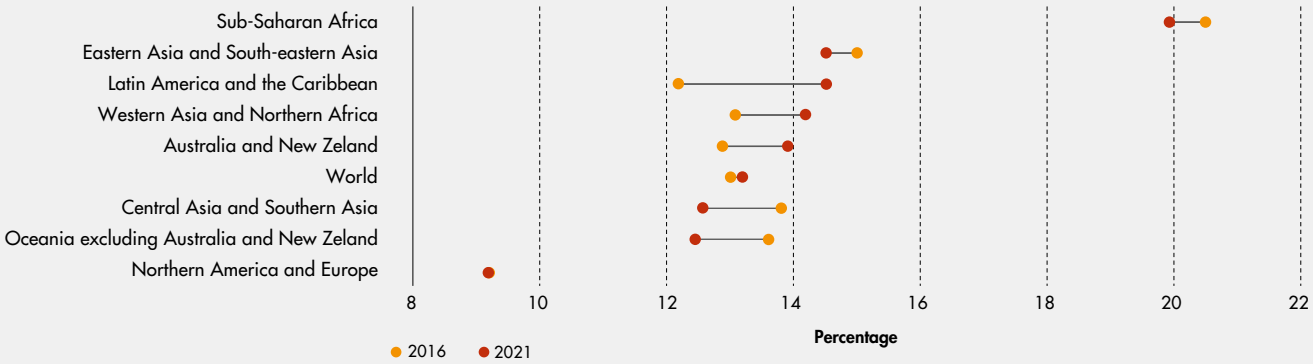
Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/
Download: https://doi.org/10.4060/cc8166en-fig29

BOX 2.
FOCUS ON FOOD LOSSES

FAO has refined the estimation of food losses that was first published in *The State of Food and Agriculture 2019*, revising the model and expanding the coverage to include subregions. **Figure B2** shows that the food loss percentage was stable for the world, moving from 13 percent in 2016 to 13.2 percent in 2021. Regions where the food loss percentage increased are Latin America and the Caribbean (which shows the largest increase, from 12.2 percent in 2016 to 14.5 percent in 2021), Western Asia and Northern Africa, and Australia and New Zealand. Conversely, the food loss percentage went down in Central Asia and Southern Asia, Oceania excluding Australia and New Zealand (which show the largest decrease of 1.2 percentage points between 2016 and 2021), sub-Saharan Africa, and Eastern Asia and South-eastern Asia. The food loss percentage remained unchanged in Northern America and Europe, which had the lowest value among all regions in 2021 (9.2 percent), while sub-Saharan Africa had the highest (20 percent). These variations should be interpreted as oscillations only since no report on the trend can be made yet.

The FAO Data Lab supports the estimation of food losses by scraping the internet for openly accessible publications from which non-conventional data are extracted and used for modelling and filling data gaps. These estimates will slowly be replaced by official data as more countries have put data collection efforts in place.

FIGURE B2. **FOOD LOSS PERCENTAGE BY REGION**



Source: FAO. 2023. SDG Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/SDGB
Download: https://doi.org/10.4060/cc8166en-figb2

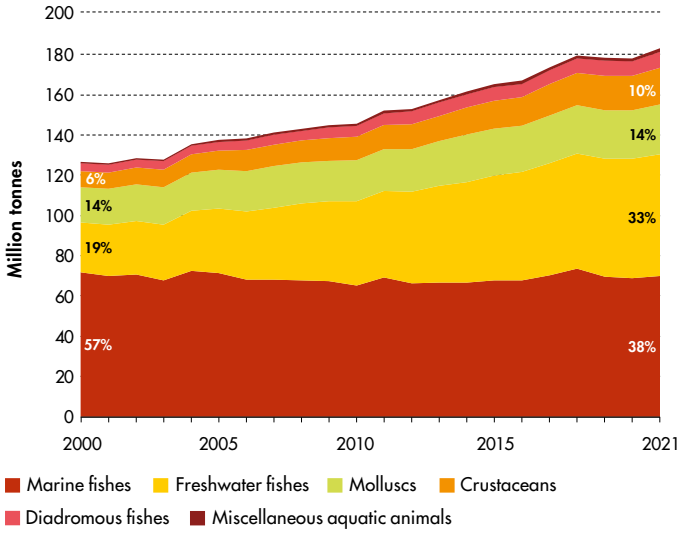
PRODUCTION OF THE FISHERIES AND AQUACULTURE SECTOR

Excluding algae, total world fisheries and aquaculture production showed a 45 percent growth between 2000 and 2021, reaching 182 million tonnes in 2021 and setting a new production record (the previous one was 179 million tonnes in 2018). This represents an overall expansion of 56 million tonnes compared to 2000. In 2021, the total fisheries and aquaculture production (excluding algae) rose significantly (+2.7 percent) compared with 2020 after two years of relative decline.

Thousands of species are harvested every year, with the quantities and specific species varying from country to country. Finfish (freshwater, diadromous and marine fish) had a share of 76 percent of the total in 2021, with a slight decline compared to 79 percent in 2000. With 38 percent of the total, marine fish were the main group of species produced in 2021, followed by freshwater fish (33 percent), molluscs (14 percent) and crustaceans (10 percent) (see **Figure 30** and **Table 25**). Thanks to the expansion of aquaculture production, freshwater fish experienced major growth (+144 percent) between 2000 and 2021, going from about 25 million tonnes in 2000 (19 percent of the total) to 60 million tonnes in 2020 (33 percent of the total). Other major increases were experienced by crustaceans (+129 percent) and diadromous fish (+109 percent).

The significant expansion of the fisheries and aquaculture production came with many transformations, including changes in the source of production being increasingly dependent on aquaculture. In the last three decades, aquaculture has been the main driver of the increase in fisheries and aquaculture production, with an average growth of 5.0 percent per year between 2000 and 2021, reaching a record 90.9 million tonnes in 2021. At the global level, after several decades of sustained growth, capture fisheries production has been rather stable at around 90 million tonnes since the early 1990s, with some inter-annual fluctuations in the range of 3 to 6 million tonnes. These fluctuations have been mainly determined by variations in catches of anchoveta in South America, particularly affected by climatic change variability, but they also depended on the productivity of ecosystems, fishing intensity management and fish stock status. In 2021, capture fisheries production reached

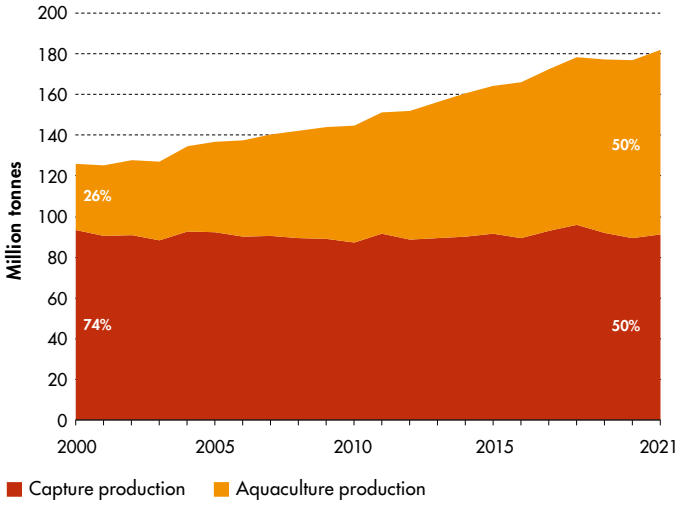
FIGURE 30.
WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY SPECIES GROUP



Note: Excludes aquatic mammals, crocodiles, alligators and caimans, pearls and shells, corals, sponges and algae. Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity
Download: https://doi.org/10.4060/cc8166en-fig30

FIGURE 31.
WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY PRODUCTION MODE



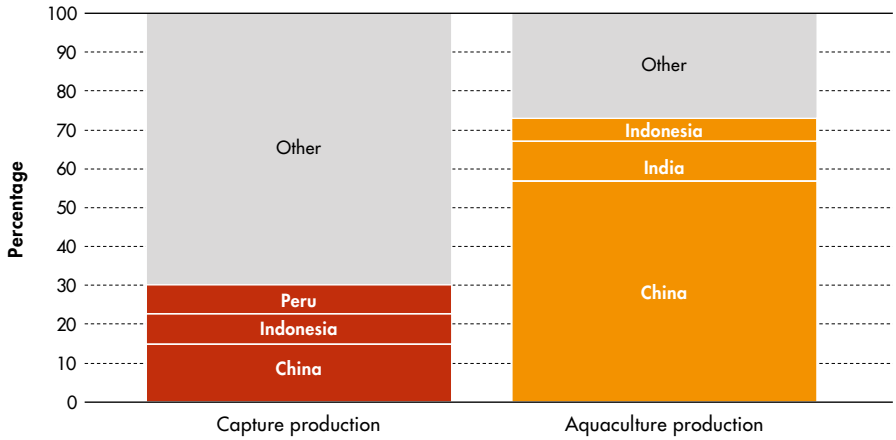
Note: Excludes aquatic mammals, crocodiles, alligators and caimans, pearls and shells, corals, sponges and algae. Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity
Download: https://doi.org/10.4060/cc8166en-fig31

91.2 million tonnes, down from its 2018 peak of 96.2 million tonnes, representing 50 percent of total production for the first time ever. Aquaculture accounted for the remaining 50 percent of the global total. Yet, its share in total production varied significantly across continents, going from 63 percent in Asia in 2021 to 21 percent in Europe, 19 percent in the Americas, 18 percent in Africa and 14 percent in Oceania.

As seen in **Table 26**, Asia played a major role in the overall growth of fisheries and aquaculture production and represented 70 percent of total production in 2021 compared to 57 percent in 2000. In 2021, the Americas had a share of 13 percent, followed by Europe (9 percent), Africa (7 percent) and Oceania (1 percent). China is by far the main producer for both capture fisheries and aquaculture, with a 36 percent share of the total production in 2021, compared with 30 percent in 2000. In 2021, other major producers were India and Indonesia, and these three countries together represented 51 percent of total fisheries and aquaculture production. These three countries were also the dominant producers for aquaculture, while for capture fisheries China and Indonesia were followed by Peru in 2021. The overall share of the top three producers was 73 percent of aquaculture and 30 percent of capture fisheries in 2021. Despite this concentration of production, aquaculture has experienced growth across the world, with the unequal rates reflecting differences

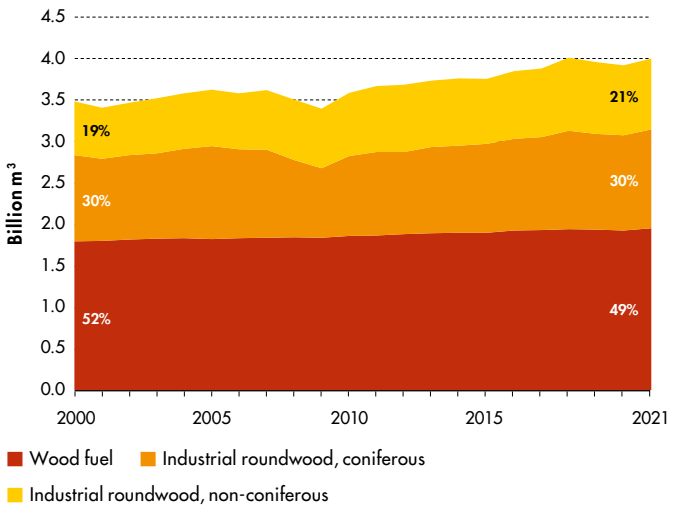
FIGURE 32.
WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MAIN PRODUCERS (2021)



Note: Excludes aquatic mammals, crocodiles, alligators and caimans, pearls and shells, corals, sponges and algae.

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity
Download: https://doi.org/10.4060/cc8166en-fig32

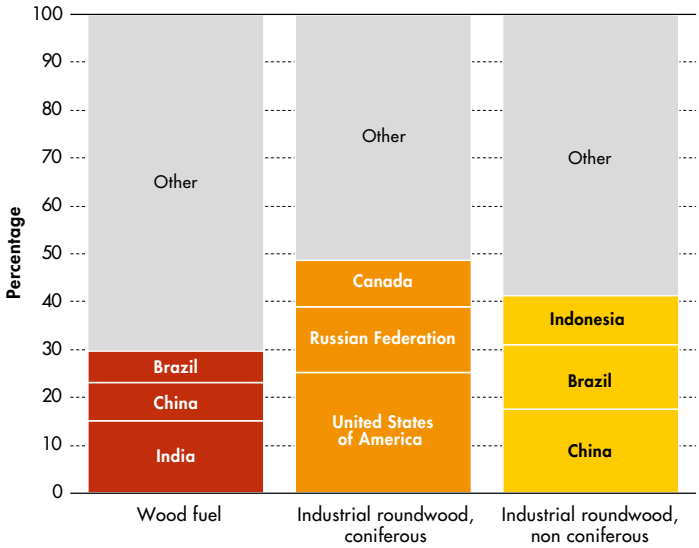
FIGURE 33.
WORLD PRODUCTION OF ROUNDWOOD BY TYPE



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO
Download: https://doi.org/10.4060/cc8166en-fig33

FIGURE 34.
WORLD PRODUCTION OF ROUNDWOOD BY TYPE, MAIN PRODUCERS (2021)



Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO
Download: https://doi.org/10.4060/cc8166en-fig34

in local policy, management objectives, site opportunities and environmental factors.

In addition, 36.3 million tonnes of algae were produced in 2021, the bulk of which (97 percent) originating from culture-based practices. If algae are included, the overall fisheries and aquaculture production reached 218 million tonnes in 2021, with aquaculture representing 58 percent of the total.

PRODUCTION OF THE FORESTRY SECTOR

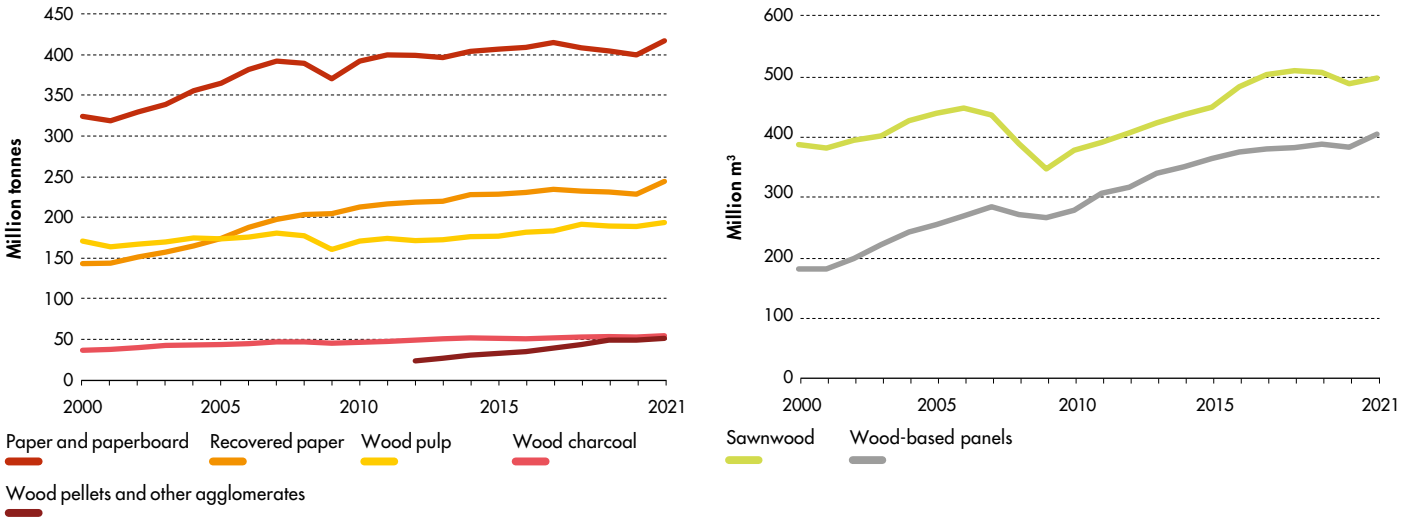
Global production of roundwood rose from 3.5 billion m^3 in 2000 to 4 billion m^3 in 2021, which represents a 15 percent increase over the period and a 2 percent increase compared with 2020 (see **Figure 33**). In 2021, wood fuel was the main product with a 49 percent share of the total (2 billion m^3), followed by coniferous industrial roundwood with 30 percent (1.2 billion m^3) and non-coniferous industrial roundwood with 21 percent (0.9 billion m^3). In particular, the rebound has remained strong after the decline in coniferous industrial roundwood production in 2009, which resulted in the lowest total roundwood production during the 2000–2021 period. As seen in **Table 27**, Asia and the Americas are the two main producing regions, accounting for 29 and 28 percent of the total roundwood production, respectively; Africa and Europe have similar shares of 20–21 percent, while Oceania produces the remaining 2 percent.

The total share of the combined three main producers of roundwood commodities in 2021 was roughly 30 percent for wood fuel, 40 percent for non-coniferous industrial roundwood and 50 percent for coniferous industrial roundwood (see **Figure 34**).

Many lower- and middle-income countries rely on wood for energy purposes (notably cooking). The largest producers are all in these income groups and have large populations with a high reliance on wood for energy: in 2021, India ranked first with 300 million m^3 (15 percent of total production), followed by China with 156 million m^3 and Brazil with 129 million m^3 (respectively 8 percent and 7 percent of global production). **Table 27** shows that five African countries are included in the top 10: Ethiopia, the Democratic Republic of the Congo, Nigeria, Ghana and Uganda.

The main industrial roundwood producers are all countries with a large forest area and a well-established logging industry. In the case of coniferous industrial roundwood, the top producers in 2021 were the United States of America, with a production of 306 million m^3 (26 percent of the total production), followed by the Russian Federation with 161 million m^3 (14 percent) and Canada with 116 million m^3 (10 percent). China led the production of non-coniferous industrial

FIGURE 35.
WORLD PRODUCTION OF SELECTED FOREST PRODUCTS



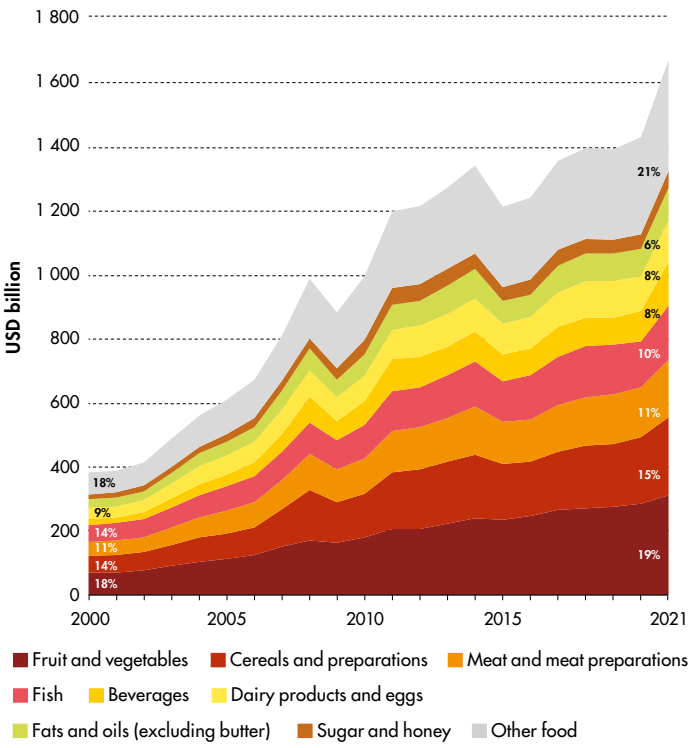
Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO
Download: https://doi.org/10.4060/cc8166en-fig35

roundwood in 2021, with 152 million m^3 (18 percent of the global production), followed by Brazil (115 million m^3, or 13 percent) and Indonesia (89 million m^3, or 10 percent).

With the economic recovery of 2021, the production of all the main products derived from wood picked up (see **Figure 35** and **Table 28**) and reached their highest values. After three years of decline, the production of paper and paperboard rebounded and peaked in 2021: 417 million tonnes – an increase of 4.4 percent over the 2020 production. Recovered paper production exhibited the same pattern, with a production of 244 million tonnes in 2021 (+7 percent over the 2020 production). The pandemic contributed to changes in paper demand and production. Many activities such as education and news consumption were curtailed or moved online, reducing the demand for graphic papers; however, the increase in online shopping and shipping contributed to an increase in the demand and production of other paper and paperboard. In total, between 2000 and 2021, paper and paperboard increased by 29 percent and recovered paper by 70 percent.

Wood pulp production increased by 2.7 percent to 194 million tonnes in 2021 compared with 2020 (and 13 percent compared with 2000). The production of wood charcoal reached 55 million tonnes in 2021, up 49 percent from the 2000 level. Wood pellets and other agglomerates, for which data collection was started in 2012, show steady growth with a production record of 51 million tonnes in 2021, an increase of 120 percent since the 23 million tonnes produced in 2012. World production of sawnwood recovered strongly from its low point of 2009 and, after two years of decline, increased

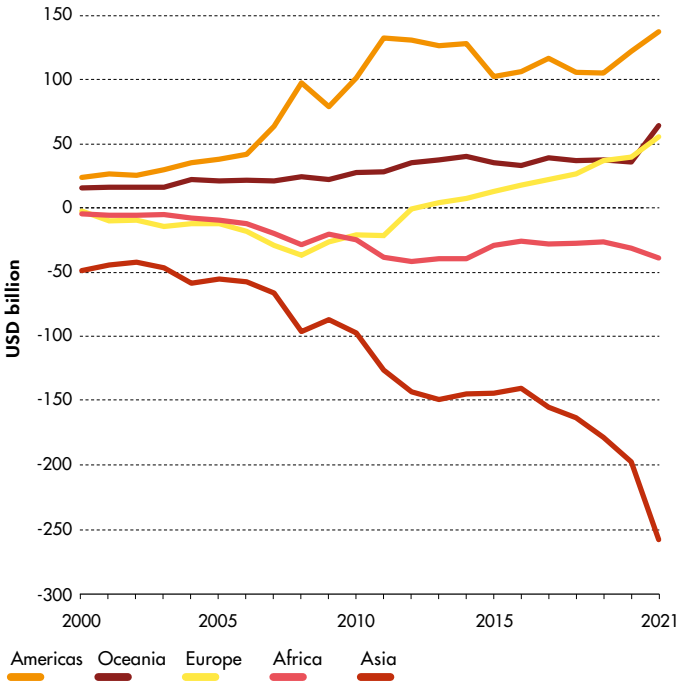
FIGURE 36.
VALUE OF WORLD FOOD EXPORTS BY GROUP



Note: Values for fish exclude trade of aquatic mammals, crocodiles, alligators and caimans, fishmeal, fish oil, ornamental fish, fish for culture and algae.
Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/trade/trade_value
Download: https://doi.org/10.4060/cc8166en-fig36

FIGURE 37.
FOOD NET TRADE BY REGION



Note: Values for fish exclude trade of aquatic mammals, crocodiles, alligators and caimans, fishmeal, fish oil, ornamental fish, fish for culture and algae.

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023].
https://www.fao.org/fishery/statistics-query/en/trade/trade_value
Download: https://doi.org/10.4060/cc8166en-fig37

in 2021 to 496 million m^3, up 29 percent compared with 2000. Growth in the production of wood-based panels, which had been steady since 2009 but was interrupted in 2020, resumed; the 402 million m^3 produced in 2021 represent a 126 percent increase from the 2000 production.

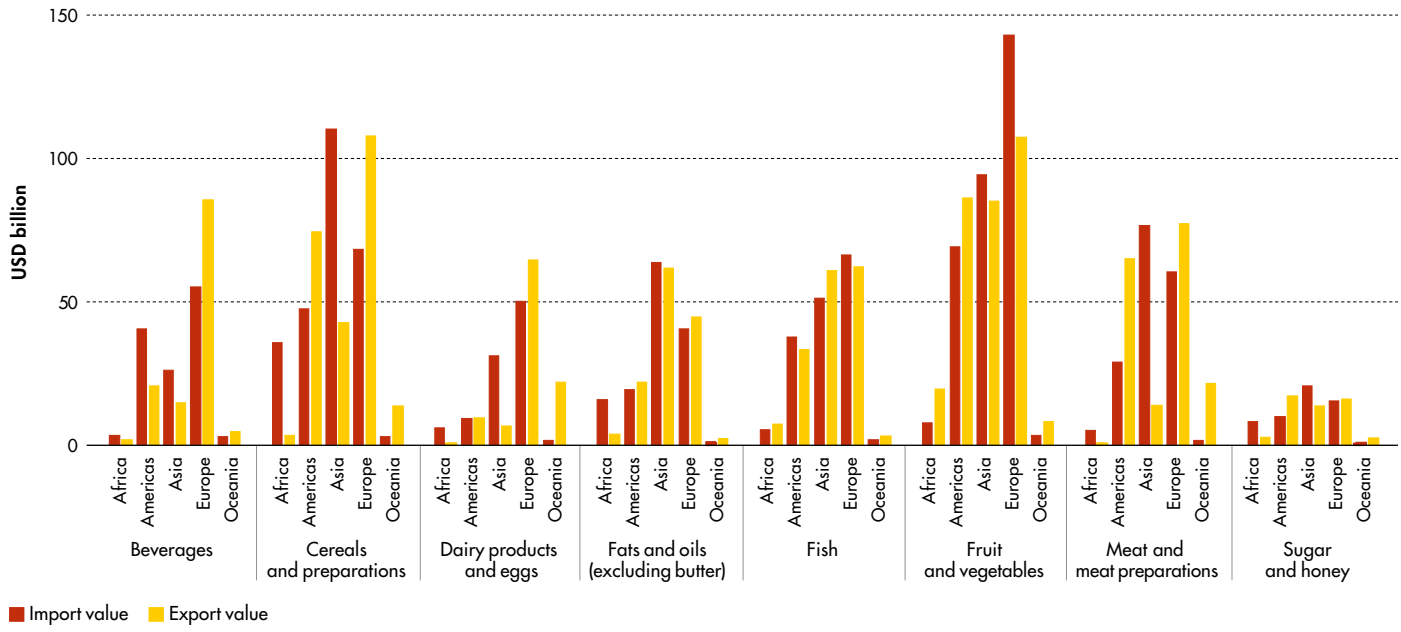
TRADE

The monetary value of global food exports multiplied by 4.4 in nominal terms between 2000 and 2021, from USD 380 billion in 2000 to USD 1.66 trillion in 2021, with strong increases in all food commodity groups, especially fats and oils (see **Figure 36**). Fruit and vegetables accounted for 19 percent of the total value of food exports in 2021, followed by cereals and preparations (15 percent). Fish and meat each had a share of 10–11 percent. As seen in **Table 29**, the United States of America was the largest food exporter in 2021 with 9 percent of the total, followed by the Kingdom of the Netherlands (6 percent) and Brazil (5 percent).

In terms of food net trade, defined as the nominal value of exports minus that of imports, two regions stand out: the Americas as the largest net exporter with a USD 136 billion surplus in 2021, and Asia as the largest net importer, posting a USD 258 billion deficit in 2021 (see **Figure 37**). Oceania remained a net exporter of food during the 2000–2021 period and Africa a net importer. Europe was a net importer of food during most of the period but became a net exporter in 2013 and briefly overtook Oceania in 2020. As seen in **Table 30**, the largest net exporting countries in 2021 are Brazil (+USD 76 billion), New Zealand (+USD 40 billion) and Indonesia (+USD 28 billion). Looking at **Table 29**, Brazil derives a large share of its food exports from soybeans (included in the "Other food" category), New Zealand from dairy products and Indonesia from fats and oils. The largest net importing countries are China (–USD 154 billion), Japan (–USD 54 billion) and the United States of America (–USD 32 billion). **Table 31** shows that meat accounts for the larger share of China's and Japan's food imports, while fruit and vegetables are the United States' main food import.

Trade flows vary considerably between regions and commodity groups (see **Figure 38**). The largest individual flows are observed for

FIGURE 38.
FOOD IMPORTS AND EXPORTS BY MAIN GROUPS AND REGION (2021)



Note:Values for fish exclude trade of aquatic mammals, crocodiles, alligators and caimans, fishmeal, fish oil, ornamental fish, fish for culture and algae.

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/trade/trade_value
Download: https://doi.org/10.4060/cc8166en-fig38

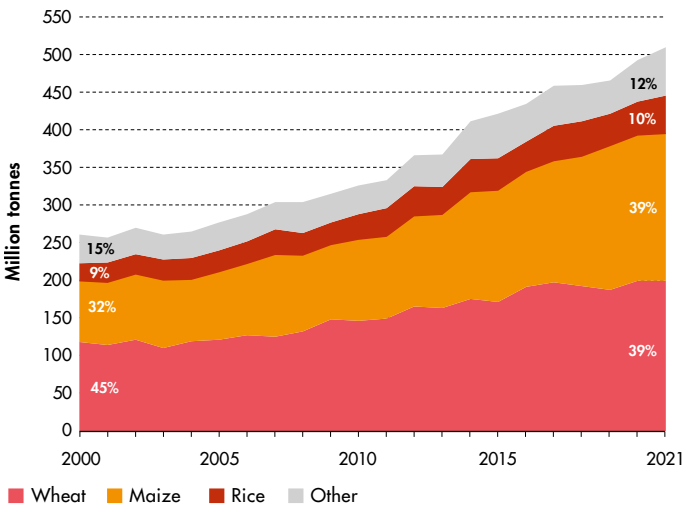
fruit and vegetables, with Europe importing USD 144 billion, and for cereals, with Oceania exporting USD 109 billion in 2021. Asia was the top importing region for cereals and preparations, fats and oils, meat and meat preparations, and sugar and honey; for beverages, dairy and eggs, fish and fruit and vegetables, the main importer was Europe. For all commodity groups but two, Europe was the main exporter; Asia led for fats and oils, and the Americas led for sugar and honey. Cereals and preparations is the commodity group with the largest net trade deficit and surplus: Asia's trade deficit was USD 68 billion, while Europe's surplus was USD 40 billion. In 2021, Asia was a net importer of all commodity groups but fish, and Africa was a net importer of all commodity groups but fish, and fruit and vegetables. Oceania was a net exporter of all commodity groups in 2021. The Americas and Europe were net exporters of most groups, but each had significant net imports in one category: the Americas had a deficit of USD 20 billion for beverages and Europe had one of USD 36 billion for fruit and vegetables.

Looking at the quantities instead of the values traded gives a vastly different picture. In that case, cereals are by a wide margin the most traded commodity group, with exports reaching a record high of 508 million tonnes in 2021 (see **Figure 39** and **Table 32**). This is 247 million tonnes, or 95 percent more than in 2000. In 2021, wheat was the most exported cereal (39 percent), marginally ahead of maize (38.6 percent). Together with rice (10 percent), these three crops accounted for 88 percent of all exports in 2021, with the exports of maize growing much faster (+138 percent) than those of rice (+117 percent) and wheat (+69 percent) since 2000.

For each of the main traded cereals, exports tend to originate from a few countries while imports are more dispersed (see **Figure 40**).[15] In 2021, the top three exporters accounted for significant shares of the total exports: 67 percent for maize, 63 percent for rice and 39 percent for wheat. In comparison, the top three importers accounted for 16 to 33 percent of the total imports for these commodities. The main producers tend to also feature among the main exporters. China stands out as a major producing country focusing on domestic demand since its exports are fairly small compared to its production (see **Tables 20** and **32**); it is also the largest importer of maize and rice, and the second largest importer of wheat.

After two years of decline in 2019 and 2020, the nominal value of global forest products exports surged in 2021, to a record high of USD 286 billion. This represents an increase of USD 140 billion, or 97 percent, compared with 2000, and an increase of USD 60 billion, or 27 percent, from the low point of

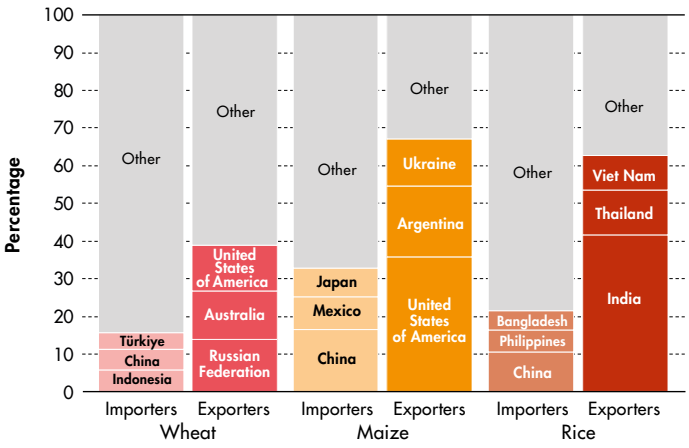
FIGURE 39.
WORLD EXPORTS OF CEREALS BY MAIN COMMODITIES



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL
Download: https://doi.org/10.4060/cc8166en-fig39

FIGURE 40.
MAIN TRADED CEREALS, TOP IMPORTERS AND EXPORTERS (QUANTITIES, 2021)



Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL
Download: https://doi.org/10.4060/cc8166en-fig40

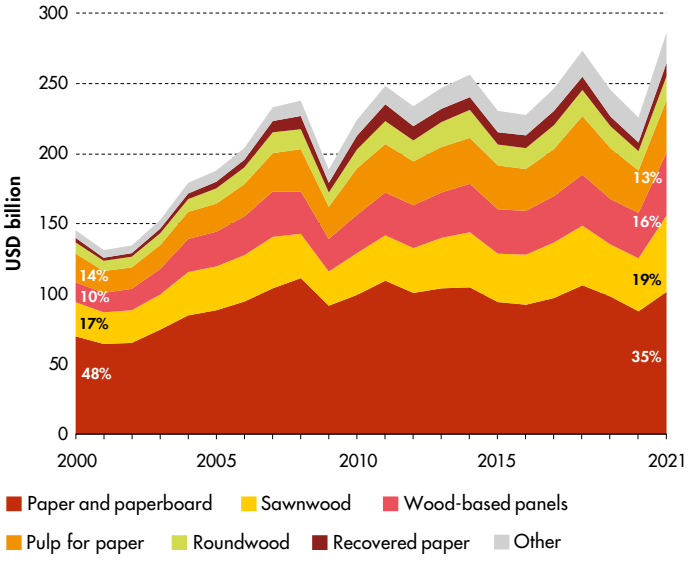
2020 (see Figure 41 and Table 34). With 35 percent of the total value, paper and paperboard was the most traded commodity in 2021, even though its share has steadily declined from 48 percent in 2000. Sawnwood, wood-based panels and pulp for paper each represented 13 to 19 percent of the value of forestry exports in 2021, with small changes compared to their 2000 shares.

PRICES

The Food and Agriculture Organization of the United Nations (FAO) Food Price Index, which measures the monthly change in international prices of a basket of food commodities, consists of the average of five commodity group price indices (cereals, dairy, meat, oils and sugar), weighted with the average export shares of each of the groups for 2014–2016. Since January 2000, it went up 68.8 points to 121.4 points in August 2023 (see Figure 42 and Table 35). The FAO Food Price Index spiked in 2007/2008 during the food security crisis that saw the price of cereals reach record levels, especially rice and wheat. Food prices soared again in late 2010 and early 2011 (especially sugar and dairy). Overall, the period of sustained high prices lasted much longer than in the previous commodity price booms and busts with the return to the pre-surge price levels only five years later, in January 2016. The FAO Food Price Index declined during the early phase of the COVID-19 pandemic reflecting uncertainties faced by commodity markets. However, it surged between May 2020 and March 2022 to 159.7 points, its highest value ever, due to a combination of factors including the effects of the COVID-19 pandemic on the supply chains, the rebound in activity and demand experienced in 2021, and the disruption to exports of cereals and vegetable oils from the Russian Federation and Ukraine. The FAO Food Price Index then declined sharply between June 2022 and July 2022 – to a level just close to that of February 2022 – and then more slowly, to 121.1 points in August 2023, which is more than 20 points higher than the average of 2020.

An important factor to note is that the overall trend of the FAO Food Price Index can mask a wide discrepancy of movements across sectors, as shown in Figure 43. The market fundamentals of supply and demand, as well as exchange rates dynamics, drive the evolution of international prices. The indices for sugar, vegetable oils and cereals show the largest increases since the beginning of 2020. The indices for oils and sugar also experienced a sharp drop during the first months of 2020 (as the COVID-19 pandemic disrupted

FIGURE 41.
VALUE OF WORLD FOREST PRODUCT EXPORTS



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.
Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO
Download: https://doi.org/10.4060/cc8166en-fig41

FIGURE 42.
FAO FOOD PRICE INDEX, WORLD (2014–2016=100)



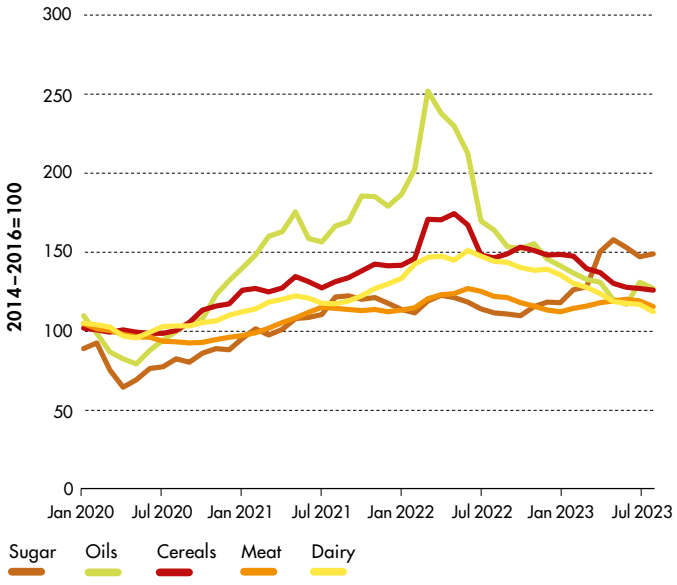
Source: FAO. 2023. FAO Food Price Index. In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/worldfoodsituation/foodpricesindex/en/
Download: https://doi.org/10.4060/cc8166en-fig42

international food markets) followed by a doubling over the following 16 months. The indices for cereals and oils peaked in the first half of 2022, as the war between the Russian Federation and Ukraine reduced the exports from these key exporters of wheat and sunflower oil. The resumption of Ukrainian exports and better production prospects contributed to the drop in the indices that continued until August 2023 except for sugar, which increased steeply in February 2023 and has plateaued since.

The FAO Fish Price Index measures the monthly changes in international prices of a basket of fisheries and aquaculture commodities. The index consists of the average of five commodity group price indices (whitefish, salmon, tuna, other pelagic fish and shrimps) weighted by the average export shares of each of the groups for the 2014–2016 period. Since January 2000, it went up from 65.5 to 113.6 points in August 2023. However, it did not grow gradually over time but showed several periods of expansion and contraction (see **Figure 44**). Being an average, the index masks wide differences among species and across the aquaculture and capture fisheries sector, in addition to the dynamics of supply and demand and exchange rates. Over the first eight months of 2023, the indices associated with tuna, salmon and pelagic fish experienced increases compared with the same period in 2022, while the indices for shrimps and whitefish were down.

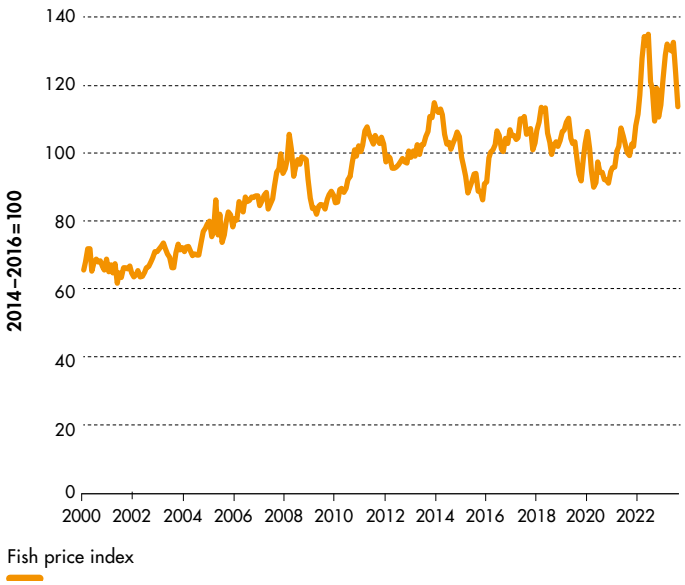
At the country level, changes in domestic prices received by agricultural producers varied between –23 percent (in Timor-Leste) and +41 percent (in Malaysia) in 2022 compared with 2021 (see **Figure 45** and **Table 36**). The largest fluctuations, either up or down, often took place in Asia and Africa, although large increases were also observed in Europe. Many factors can affect producer prices, including favourable or poor harvests compared to the previous year, production costs, market structure, subsidy schemes and external factors – as is the case, for instance, of economic sanctions against the Islamic Republic of Iran in 2018. The characteristics of the food supply chain (including the transformation of goods and the incorporation of services along the chain) play a key role in shaping the transmission of price shocks between producers and consumers. They can explain different rates

FIGURE 43.
FAO FOOD COMMODITY PRICE INDICES, WORLD (2014–2016=100)



Source: FAO. 2023. FAO Food Price Index. In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/worldfoodsituation/foodpricesindex/en/
Download: https://doi.org/10.4060/cc8166en-fig43

FIGURE 44.
FAO FISH PRICE INDEX, WORLD (2014–2016=100)

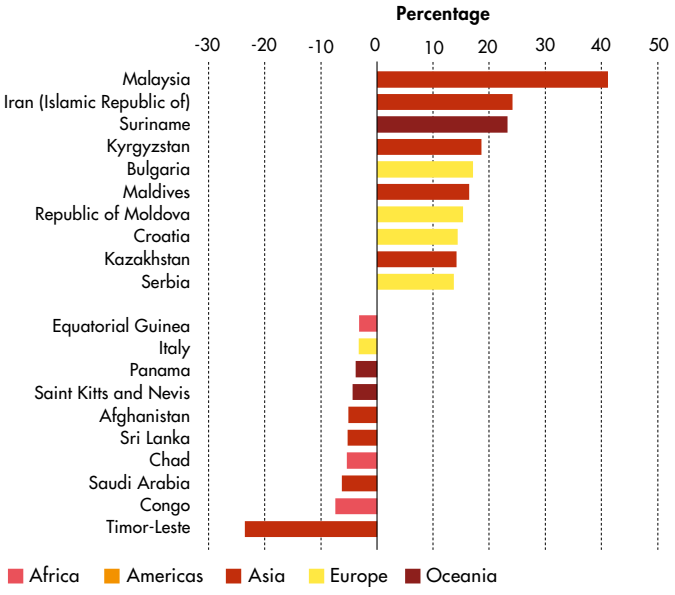


Source: FAO. 2023. *Food Outlook – Biannual report on global food markets*. Food Outlook, November 2023. Rome. https://doi.org/10.4060/cc8589en
Download: https://doi.org/10.4060/cc8166en-fig44

of change in producer prices compared to consumer prices.

Food consumer prices inflation peaked in all regions in December 2022–January 2023 after more than a year of steep increases; while it started to fall sharply during the first half of 2023, most regions were still facing very high food inflation rates (see **Figure 46** and **Table 37**). The world average fluctuated around 2.5 percent between January 2017 and July 2021, remaining above 4 percent at the beginning of the COVID-19 pandemic in April and May 2020; it then increased gradually from 3.1 percent in July 2021 to 13.5 percent in December 2022 due to higher demand (as the global economy bounced back from the pandemic) combined with persisting supply chain disruptions exacerbated by the war in Ukraine. Some of these tensions have eased and demand has slowed down as central banks around the world raised their interest rates, leading the world average to fall to 9.3 percent in July 2023 – the same level as in April 2022. The food inflation rate in Europe experienced the largest increase among all regions, from nearly 0 in mid-2021 to 19.7 percent in December 2022; it then fell to 13 percent in July 2023. The trajectories observed in Oceania, the Americas and Africa are fairly similar as food inflation in these regions accelerated in 2022 to reach record-high levels of around 13–15 percent by January 2023 followed by a sharp drop during the first half of 2023 (with the strongest decrease happening in Africa). The trend in Asia is different, as food inflation rose to 8.3 percent in June 2022, fell during the following two months and then reached 9 percent in January 2023 before steadily decreasing to 2.4 percent in June 2023.

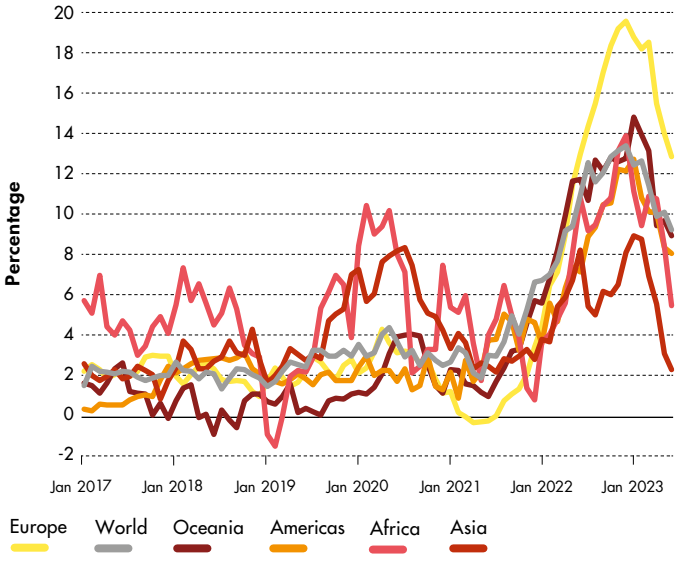
FIGURE 45.
ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS, TOP AND BOTTOM COUNTRIES (2022)



Note: Values for 2022 are projections.

Source: FAO. 2023. Producer prices. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/PP
Download: https://doi.org/10.4060/cc8166en-fig45

FIGURE 46.
INFLATION IN FOOD CONSUMER PRICES BY REGION



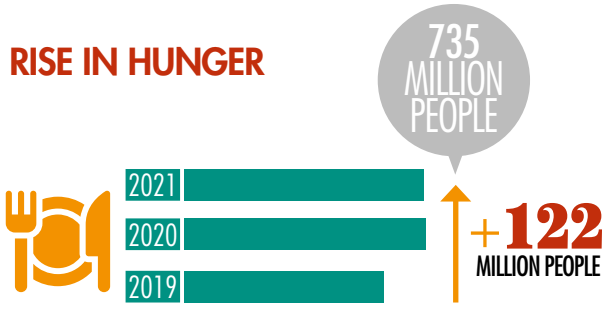
Note: The median is used to compute the global and regional aggregates.

Source: FAO. 2023. Consumer Price Indices. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CP
Download: https://doi.org/10.4060/cc8166en-fig46

CHAPTER 3

KEY FACTS

RISE IN HUNGER



Global hunger, measured by the prevalence of undernourishment, remained relatively unchanged from 2021 to 2022, affecting around 9.2% of the population in 2022, or about 735 million people. This is 122 million more people than in 2019, before the COVID-19 pandemic.

PREVALENCE OF UNDERNOURISHMENT



While most of the undernourished people live in Asia, Africa has the highest prevalence of undernourishment.

GENDER GAP IN FOOD INSECURITY



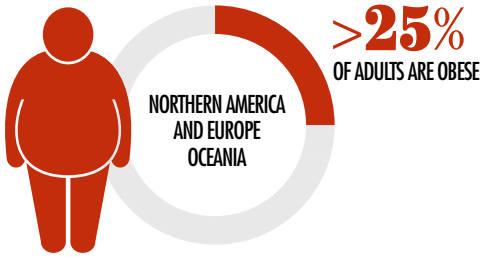
In every continent, the prevalence of moderate or severe food insecurity is slightly higher for women than for men, with the largest differences found in Latin America and the Caribbean.

DIETARY ENERGY SUPPLY



Since 2010, dietary energy supply increased the fastest in Asia, while it remained unchanged in Africa.

INCREASE IN OBESITY



Obesity has increased in all regions. More than one in four adults in Northern America and Europe, and Oceania were obese in 2016.

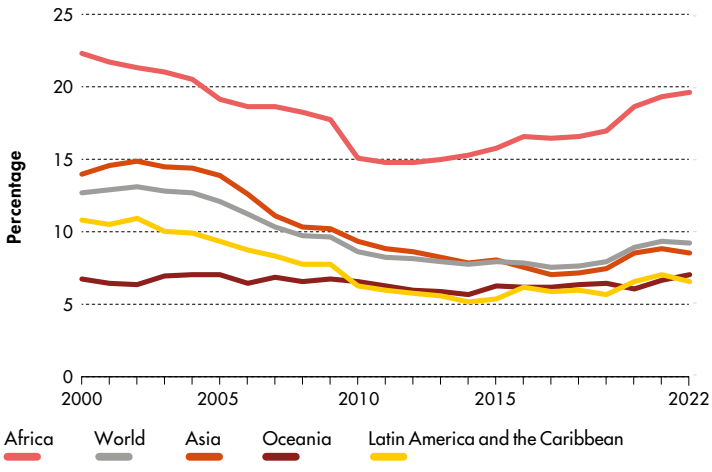
3 FOOD SECURITY AND NUTRITION

FOOD SECURITY

After a decades-long decline and five years of relative stability since 2014, the global level of the prevalence of undernourishment (PoU), which had increased sharply in 2020 and more slowly in 2021, remained relatively unchanged from 2021 to 2022 (see **Figure 47** and **Table 38**). Hunger affected 9.2 percent of the world population in 2022, which is far above the pre-COVID-19 pandemic level of 7.9 percent estimated for 2019. The PoU is the highest in Africa and kept increasing in 2022 to 19.7 percent, although at a slower pace than in 2020 and 2021. The PoU declined in 2022 in Asia and Latin America and the Caribbean, to 8.5 percent and 6.5 percent, respectively, following steep increases since 2019. This indicates a possible turnaround in the trend of hunger in both regions, although the PoU in Asia remained the second highest among all regions. The PoU in Oceania, which had remained stable between 2016 and 2019, increased to 7.0 percent in 2022.

Between 691 and 783 million people in the world faced hunger in 2022. Considering the middle point of the projected range (almost 735 million), this is equivalent to 122 million more people facing hunger in 2022 than in 2019 (see **Figure 48**). While its PoU is the second highest, Asia is home to 55 percent of the world's undernourished people due to its large population base, and the two countries with the largest number of undernourished people are in Asia (see **Table 39**). Even though the number of people facing hunger in Asia declined by 3 percent, or 12 million, between 2021 and 2022, it still went up

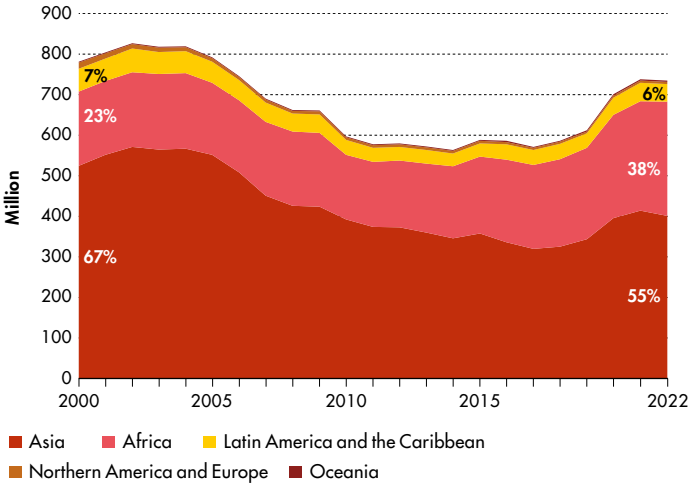
FIGURE 47.
PREVALENCE OF UNDERNOURISHMENT BY REGION



Note: The prevalence of undernourishment for Northern America and Europe is estimated to be less than 2.5 percent. The values for 2020 to 2022 are projections based on the projected midranges.

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig47

FIGURE 48.
NUMBER OF PEOPLE UNDERNOURISHED BY REGION



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding. The values for 2020 to 2022 are projections based on the projected midranges.

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig48

58 million between 2019 and 2022 to 402 million. In Africa, 282 million people were undernourished in 2022 (38 percent of the global total), an increase of 11 million people from 2021, 57 million from 2019 and 98 million from 2000. By contrast, the undernourished population in Latin America and the Caribbean decreased by 2.4 million from 2021 to 43.2 million in 2022, which is 7.2 million higher than the 2019 value but 13.2 million lower than the 2000 level. The number of people facing hunger in Oceania increased by 48 percent, or 1 million people, between 2000 and 2022, of which 0.2 million were added between 2021 and 2022.

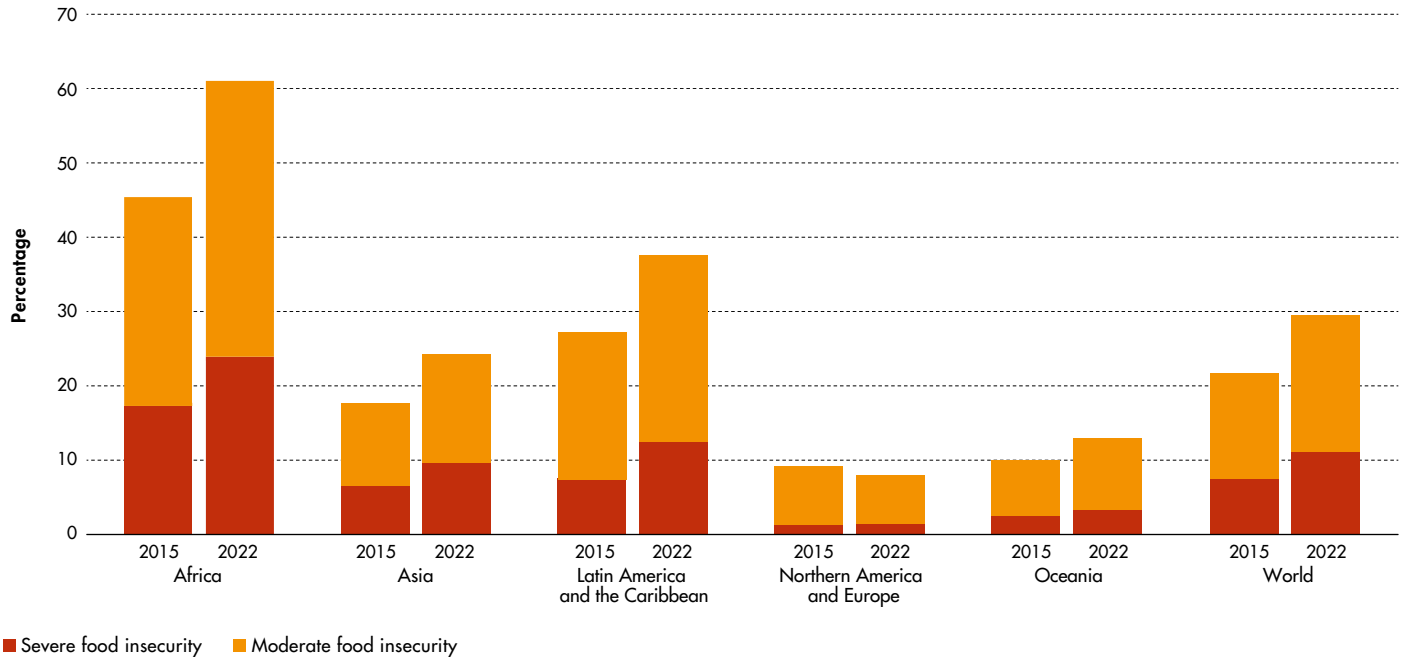
In 2022, 11.3 percent of the world population (900 million people) were exposed to severe food insecurity based on the Food Insecurity Experience Scale (FIES) (see **Figure 49**).

The levels and trends since 2015 are broadly consistent with those of the PoU, confirming that these two indicators complement each other as they both measure the extent of severe food deprivation. As one of the official Sustainable Development Goal (SDG) indicators, the prevalence of moderate or severe food insecurity provides additional information on people who do not have regular access to nutritious and sufficient food, even if they are not necessarily suffering from hunger. In 2022, it is estimated that 18.3 percent of the world population, just over 1.4 billion people, have experienced food insecurity at moderate levels. This brings the total estimates for moderate or severe food insecurity in 2022 to 29.6 percent of the world population, or 2.4 billion people.

Similar to the PoU, moderate or severe food insecurity experienced a steep increase between 2019 and 2020 (equal to that of the previous five years combined) and remained unchanged for two years in a row.[16] As seen in **Table 40**, moderate or severe food insecurity is much higher in Africa than in any other part of the world, affecting 60.9 percent of the population in 2022. This is followed by Latin America and the Caribbean (37.5 percent), Asia (24.2 percent), Oceania (13 percent) and Northern America and Europe (8 percent).

FIES data collected by FAO since 2014 in more than 140 countries at the individual (rather than household) level provide a unique opportunity to produce gender-disaggregated estimates for the prevalence of food insecurity

FIGURE 49.
FOOD INSECURITY LEVELS BASED ON THE FOOD INSECURITY EXPERIENCE SCALE BY REGION

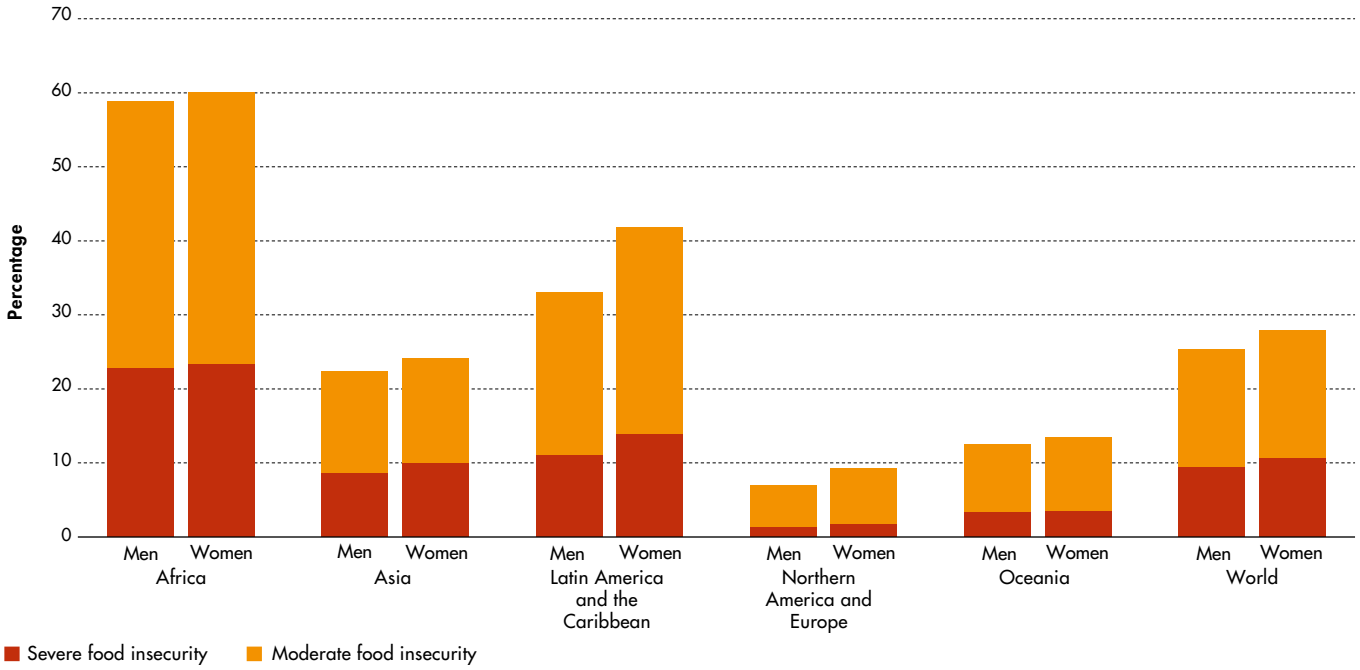


Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig49

in the adult population. In Asia, Latin America and the Caribbean, Northern America and Europe, and the world as a whole, the prevalence of severe food insecurity and of moderate or severe food insecurity is slightly higher in adult women than in adult men – the differences being statistically significant. The largest differences are found in Latin America and the Caribbean (2.6 percentage points for severe food insecurity, and 9.1 percentage points for moderate or severe food insecurity).

As the FIES data collected in 2022 were georeferenced, the prevalence of food insecurity in the adult population can also be disaggregated between rural, peri-urban and urban areas. At the global level, food security improves as the degree of urbanization increases: moderate or severe food insecurity affected 33.3 percent of adults living in rural areas in 2022 compared with 28.8 percent in peri-urban areas and 26.0 percent in urban areas.[17]

FIGURE 50.
FOOD INSECURITY LEVELS BY REGION AND SEX (2022)

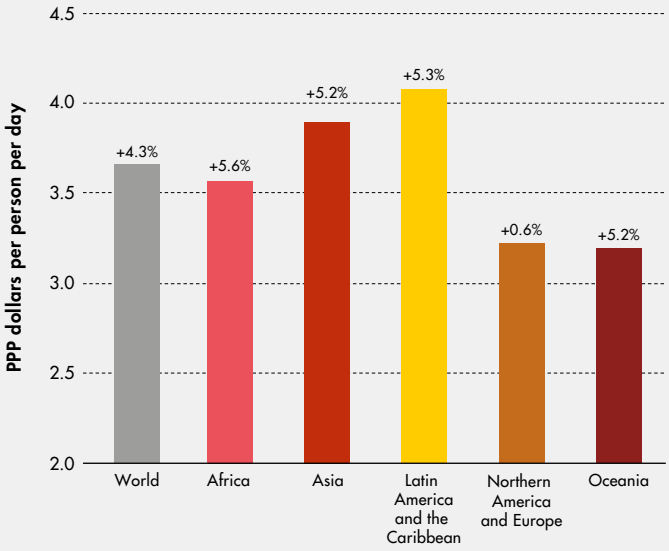


Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig50

BOX 3.
FOCUS ON THE COST OF A HEALTHY DIET

FAO, with support from the World Bank Data Group, monitors and now publishes on the FAOSTAT platform estimates of the cost and affordability of a healthy diet. These indicators provide evidence regarding people's economic access to the lowest-cost healthy diet, using locally available foods to meet nutritional requirements.
The global estimate of the cost of a healthy diet in 2021 was 3.66 purchasing power parity (PPP) dollars per person per day, up 4.3 percent compared with 2020. Regions exhibit significant variations, as the average cost was 4.08 PPP dollars in Latin America and the Caribbean, followed by Asia (3.90 PPP dollars), Africa (3.57 PPP dollars), Northern America and Europe (3.22 PPP dollars) and Oceania (3.20 PPP dollars). The cost of a healthy diet increased by more than 5 percent in all regions except Northern America and Europe between 2020 and 2021, reflecting the rise in food inflation mentioned in **Figure 46**.
To estimate affordability, the cost of a healthy diet is compared with country income distributions after accounting for non-food needs. FAO latest estimates show that more than 3.1 billion people in the world, or 42 percent, were unable to afford a healthy diet in 2021.

FIGURE B3.
COST OF A HEALTHY DIET IN 2021 AND CHANGE COMPARED WITH 2020



Source: FAO. 2023. Cost and Affordability of a Healthy Diet (CoAHD). In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CAHD
Download: https://doi.org/10.4060/cc8166en-figb3

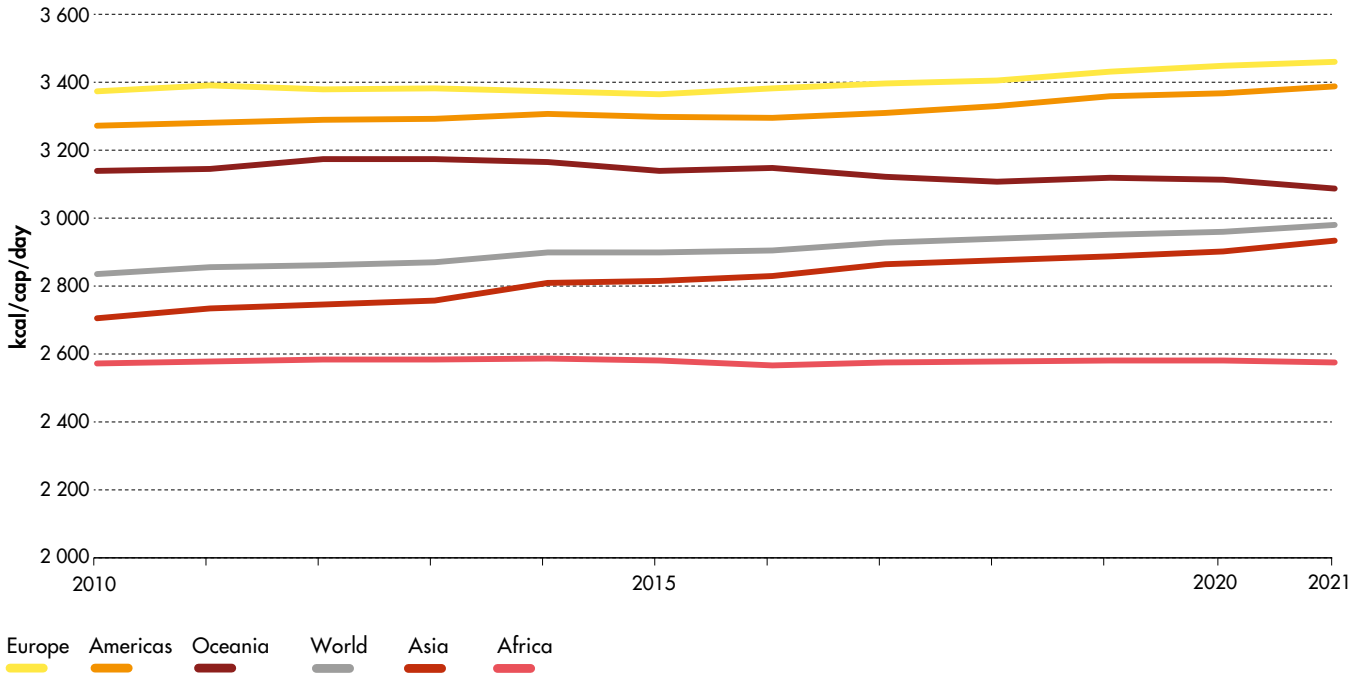
FOOD SUPPLY

The world average dietary energy supply (DES), measured as calories per capita per day, has been increasing steadily to 2 978 kcal per person per day in 2021, up 9 percent compared with 2010 (see **Figure 51**). It is the highest in Europe and the Americas at 3 458 kcal per person per day and 3 385 kcal per person per day, respectively. Oceania had the third largest DES in 2021 (3 086 kcal per person per day) and is the only region showing a decline (of 2 percent) since 2010. The fastest increase took place in Asia where the DES went up 8 percent since 2010, to 2 931 kcal per person per day. The DES in Africa is the lowest among all regions throughout the period and remained mostly flat. The discrepancies between countries and within regions can be significant: the United States of America had the highest DES in 2021 (3 911 kcal per person per day), more than twice that of Burundi, which had the lowest DES in the world (1 775 kcal per person per day), and 88 percent more than that of Haiti, which had the lowest DES in the Americas (2 076 kcal per person per day).

Given the importance of cereals as staple foods worldwide (see **Figure 53**) and the discrepancy between consumption and production in many countries, a measure of food security is the cereal imports dependency ratio, defined as the net trade of cereals (imports minus exports) divided by the total cereals supply in a country (the country's own production plus the imports minus the exports). Among the most cereals import-dependent countries in the period from 2018 to 2020, the majority are small island developing states[18] and countries in the Near East, where the natural conditions are not favourable to cereals production (see **Figure 52** and **Table 43**).

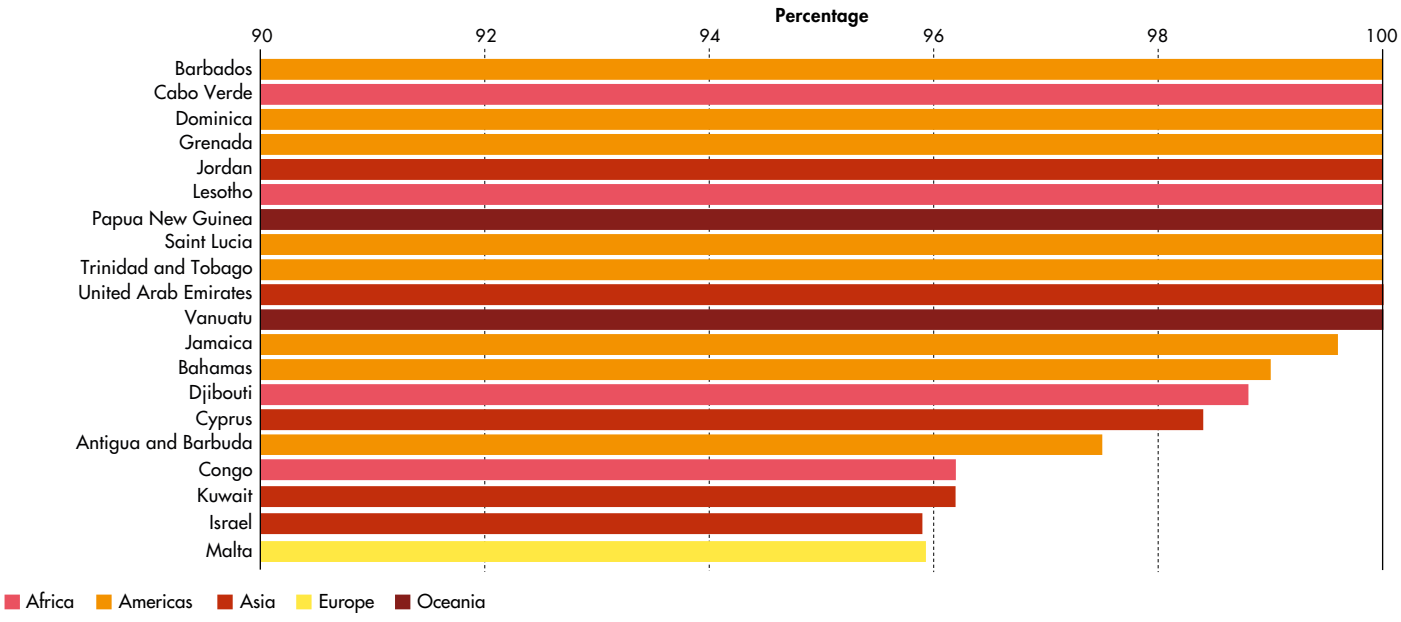
The composition of the dietary energy supply, detailed in food balance sheets,[19] varies greatly between the regions, with some evolutions between 2010 and 2021 (see **Figure 53** and **Table 44**). Cereals were the most important contributor to the dietary energy supply in all regions, with shares in 2021 ranging from 22 percent in Oceania to 49 percent in Asia. Fats and oils is the second major food group in all the regions but Africa. Regional specificities include the high share of roots, tubers and pulses in Africa, of sugar in the Americas, and of fats and oils in Oceania, the Americas and Europe. Between 2010 and 2021, the most visible changes in the composition of the food supply took place in Asia (where the share of cereals dropped by 3 percentage points while that of fats and oils, fruit and vegetables, and dairy and eggs increased significantly).

FIGURE 51.
AVERAGE DIETARY ENERGY SUPPLY BY REGION



Source: FAO. 2023. Food Balances (2010-). In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FBS
Download: https://doi.org/10.4060/cc8166en-fig51

FIGURE 52.
CEREAL IMPORT DEPENDENCY RATIO, TOP COUNTRIES (2018–2020)



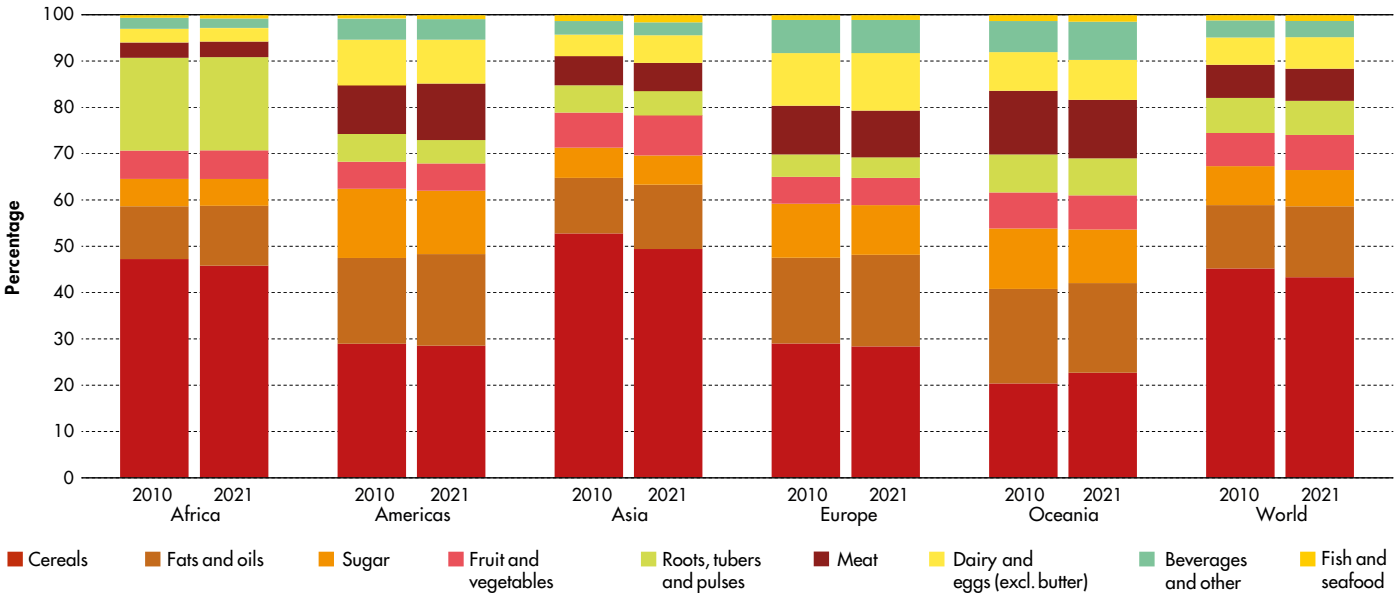
Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig52

The average protein supply increased in all regions between 2000 and 2020 (see **Figure 54** and **Table 45**). The growth in Oceania (22 percent), Asia (20 percent) and Africa (19 percent) was much faster than the world average of 14 percent. The share of protein from animal origin went up across all regions except Oceania (as a consequence of the increased share of meat, fish, and dairy and eggs in diets observed in **Figure 53**): it is highest in Oceania (62 percent) and lowest in Africa (21 percent). Strong disparities also prevail between regions in terms of levels and composition. Protein supply was highest in Northern America and Europe in 2018–2020, with 108 g per person per day compared with 64 g per person per day for Africa – the primary reason for this is the difference in the availability of protein from animal-sourced foods. In 2018–2020, plants were the main source of protein in Africa (79 percent) and Asia (65 percent) but accounted for 48 percent in Latin America and the Caribbean, 40 percent in Northern America and Europe and 38 percent in Oceania.

The average dietary supply adequacy has been increasing steadily since the early 2000s in every region, with Northern America and Europe being the highest and Africa being the lowest (see **Figure 55**). In recent years, the average dietary supply adequacy in Africa remained unchanged or decreased in line with the trend of the dietary energy supply in the region (see **Figure 51**).

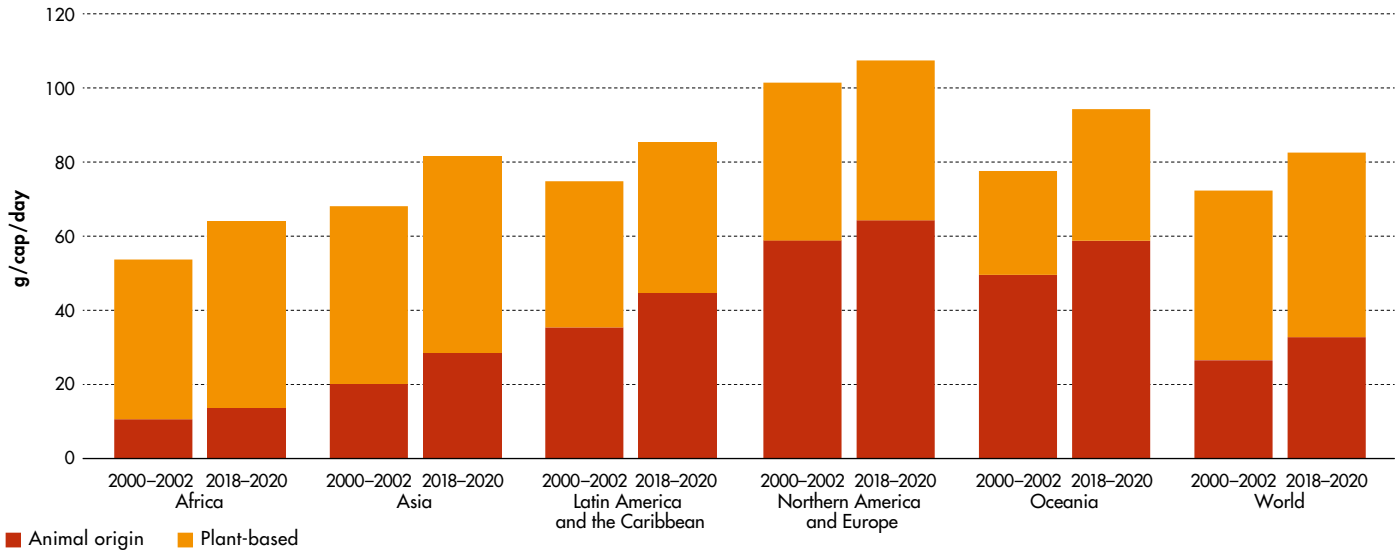
Dietary supply adequacy divides a country's average supply of calories for food consumption by the average dietary energy requirement estimated for its population, to measure the adequacy of food supply in terms of calories. Analysed together with the prevalence of undernourishment, it helps identify the cause of undernourishment as mainly due to insufficient food supply or to particularly bad distribution.

FIGURE 53.
DIETARY ENERGY SUPPLY BY REGION AND COMMODITY GROUP



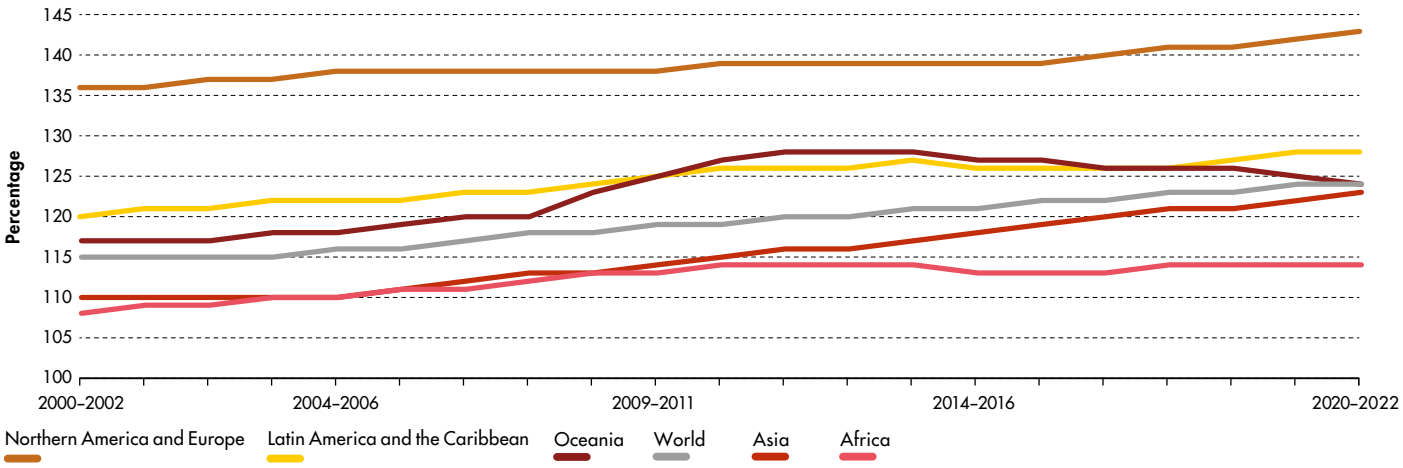
Source: FAO. 2023. Food Balances (2010-). In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FBS
Download: https://doi.org/10.4060/cc8166en-fig53

FIGURE 54.
AVERAGE PROTEIN SUPPLY BY REGION AND ORIGIN



Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig54

FIGURE 55.
AVERAGE DIETARY SUPPLY ADEQUACY BY REGION



Note: Values for 2021 and 2022 are projections.

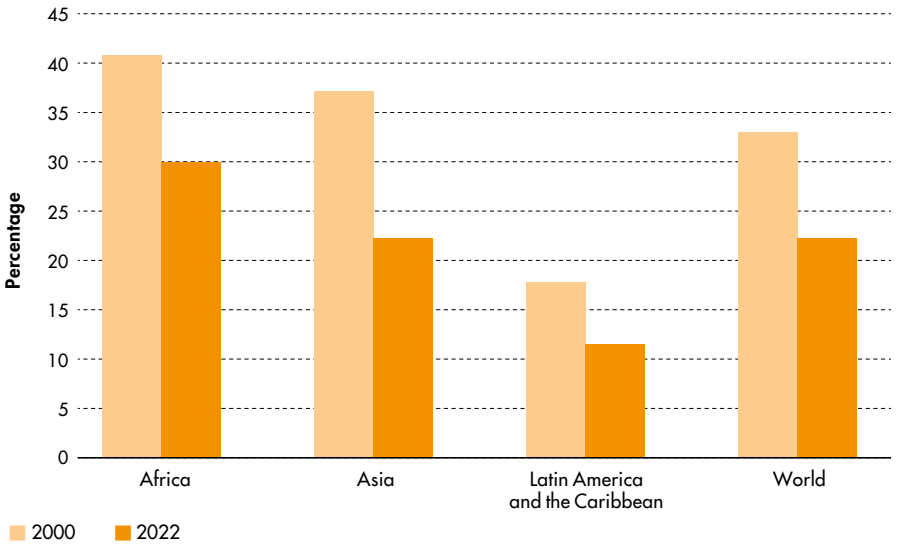
Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig55

NUTRITION

The prevalence of stunting among children under five years of age (as well as the number of stunted children) decreased worldwide from 33 percent in 2000 to 22 percent in 2022 (see **Figure 56**). The decrease took place in all regions, with the largest drop in Asia, from 37 percent in 2000 to 22 percent in 2022. However, this global progress may have disguised a starker situation in some parts of the world. As seen in **Table 47**, the prevalence of child stunting was greater than 30 percent in 28 countries in 2022 (with a majority in sub-Saharan Africa), which is "very high" according to the World Health Organization, and was above 50 percent in four countries.

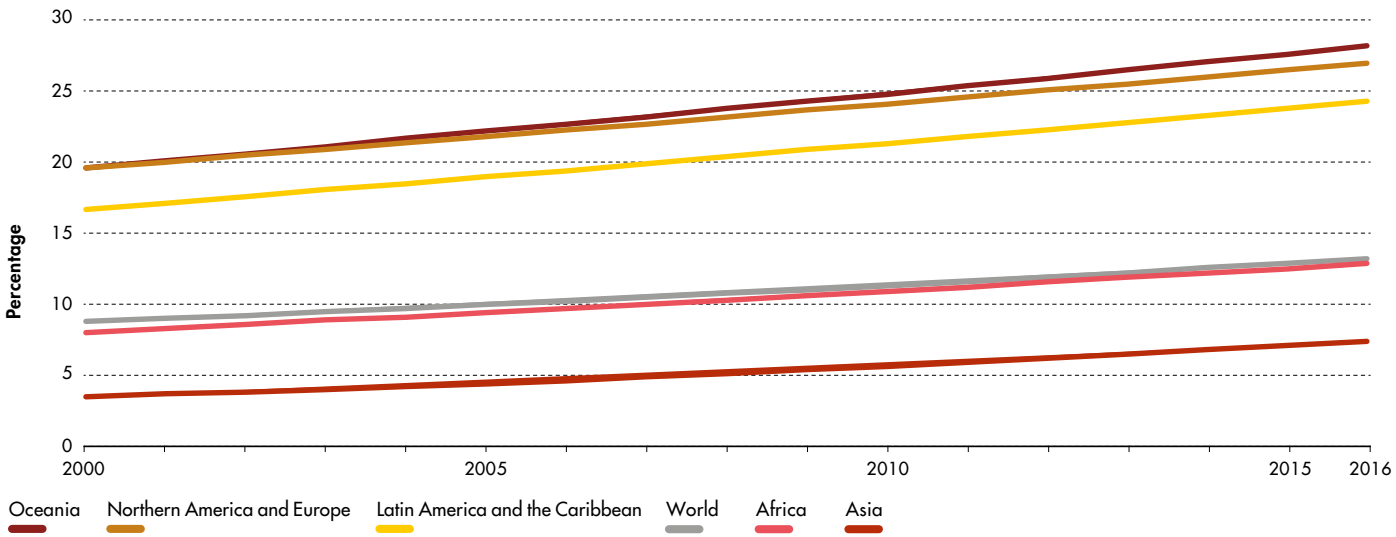
Obesity among adults of 18 years and above increased rapidly in every region of the world between 2000 and 2016 (see **Figure 57**). In 2016, 13.1 percent of the adult population in the world was obese, an increase from 8.7 percent in 2000. Oceania and Northern America and Europe had the highest prevalence of adult obesity (both at around 27–28 percent), followed by Latin America and the Caribbean. The prevalence of adult obesity in Africa and Asia was lower than the world average, although it has been steadily increasing. Overall, the world is not on track to meet the 2025 target of the World Health Assembly to halt the rise in obesity.

FIGURE 56.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS BY REGION



Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig56

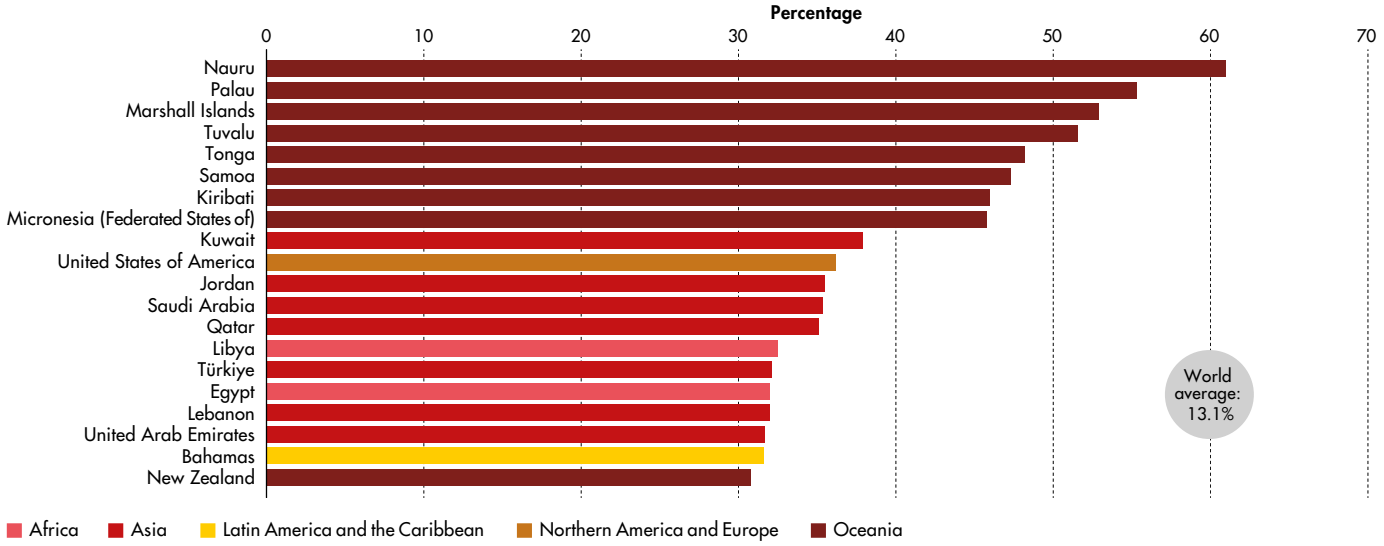
FIGURE 57.
PREVALENCE OF OBESITY IN THE ADULT POPULATION BY REGION



Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig57

The 20 countries with the highest prevalence of obesity among adults in 2016 were clustered in the Pacific Islands, the Near East and North Africa (see **Figure 58**). In all of them, 30 percent or more of the population is obese, with the highest proportion in Nauru at 61 percent. For many of these countries, multiple forms of malnutrition coexist: in Egypt, for example, the prevalence of child stunting was 20.4 percent in 2022 (see **Table 47**), while the prevalence of adult obesity was 32 percent in 2016 (see **Table 48**).

FIGURE 58.
PREVALENCE OF OBESITY IN THE ADULT POPULATION, TOP COUNTRIES (2016)



Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS
Download: https://doi.org/10.4060/cc8166en-fig58

CHAPTER 4

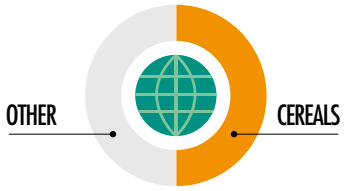
KEY FACTS

AGRICULTURAL AND FOREST LAND DECLINE



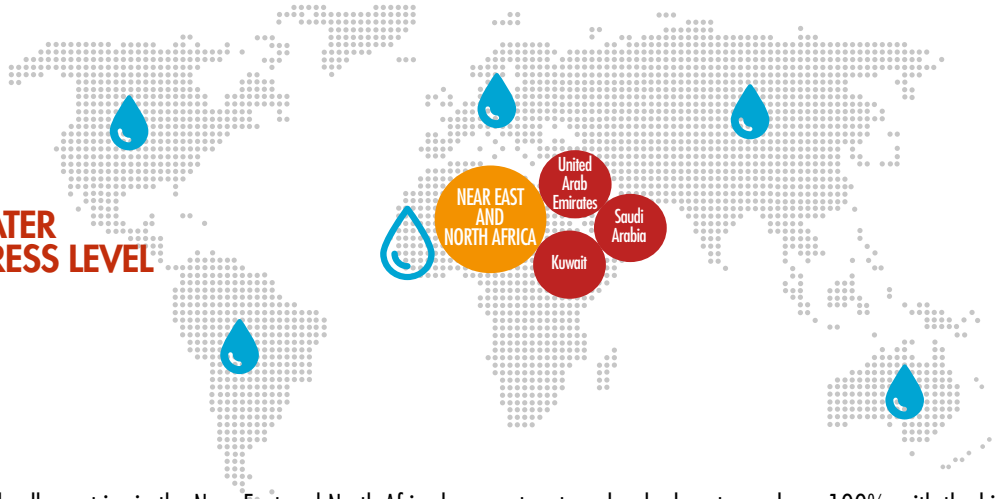
Between 2000 and 2021, agricultural land declined by 86 million ha – roughly half the size of the Islamic Republic of Iran – while forest area declined by 104 million ha – about the size of Mauritania.

PLANTED HARVESTED AREA



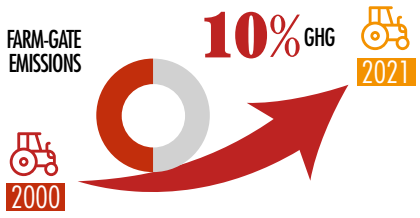
Half the harvested area is planted with cereals.

WATER STRESS LEVEL



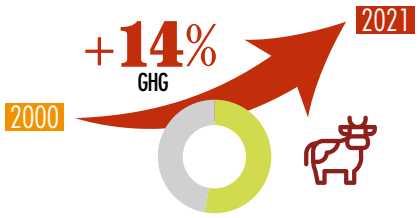
Nearly all countries in the Near East and North Africa have water stress levels close to or above 100%, with the higher shares in Kuwait, the United Arab Emirates and Saudi Arabia.

GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS



Greenhouse gas emissions from agrifood systems grew by 10% between 2000 and 2021. Farm-gate emissions account for nearly half of them.

FARM-GATE GREENHOUSE GAS EMISSIONS



Farm-gate greenhouse gas emissions went up 14% between 2000 and 2021. Around 53% of them are related to livestock.

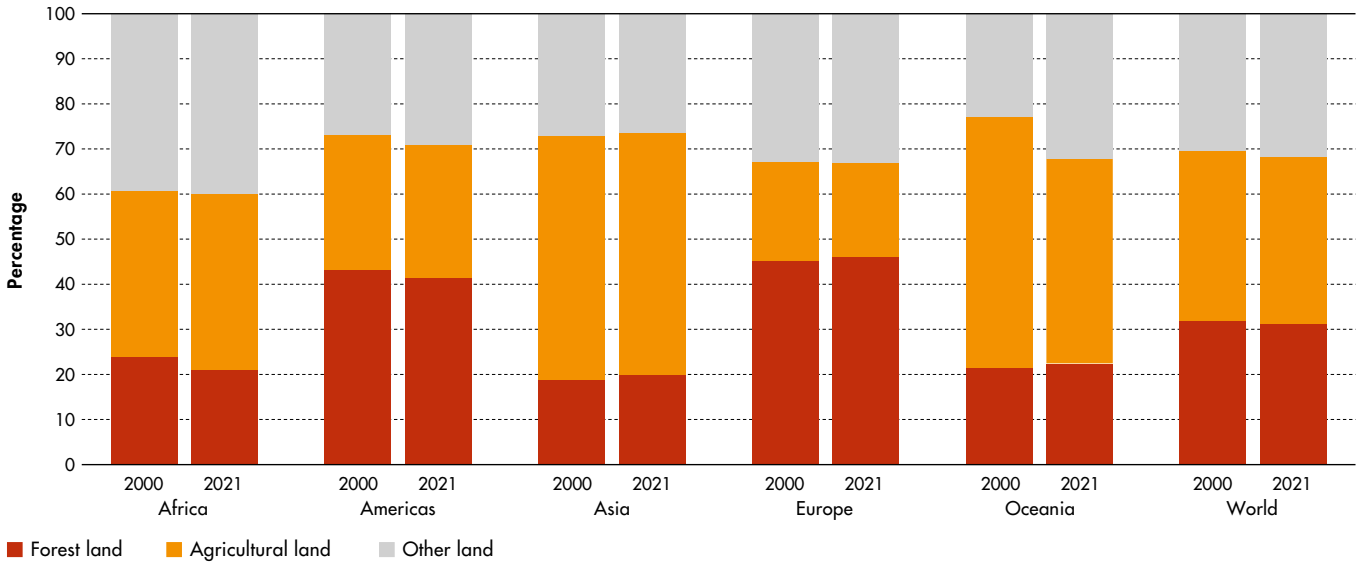
4 SUSTAINABILITY AND ENVIRONMENTAL ASPECTS OF AGRICULTURE

LAND USE

Figure 59 shows that the global shares of the three different types of land (agricultural, forest and other) in total land area remained relatively stable from 2000 to 2021 with slight reductions in agricultural land and forest land shares that translated into declines of 86 million ha for agricultural land and 104 million ha for forest land. Within regions, Europe has the largest share of forest land (46 percent), closely followed by the Americas (41 percent), while the other regions are all around 20–22 percent. More than half of all land (54 percent) in Asia is agricultural land, compared with 46 percent in Oceania, 39 percent in Africa, 29 percent in the Americas and 21 percent in Europe. The conversion of land from one use to another also varied between the regions. Oceania had agricultural land converted to other land. Both Africa and the Americas converted forest land to agricultural land and/or other land. Europe, Asia and Oceania had forest land expansion coupled with agricultural land reduction from 2000 to 2021 (see **Table 49**).

Countries with the highest share of forest area in land area are located in all regions of the world, mostly the tropical ones; they also tend to be low- and middle-income countries (see **Figure 60**). In 2021, forest covered 97 percent of the land area in Suriname, 94 percent in Guyana and 92 percent in the Federated States of Micronesia. The biggest increases in the share of forest area between 2000 and 2021 took place in Viet Nam (+9 percentage points), Cuba (+9 percentage points) and Fiji (+8 percentage points), while the largest decreases in the share of forest area over the same period happened in Paraguay (–18 percentage points), Nicaragua (–17 percentage points) and Cambodia (–16 percentage points), as featured in **Table 50**.

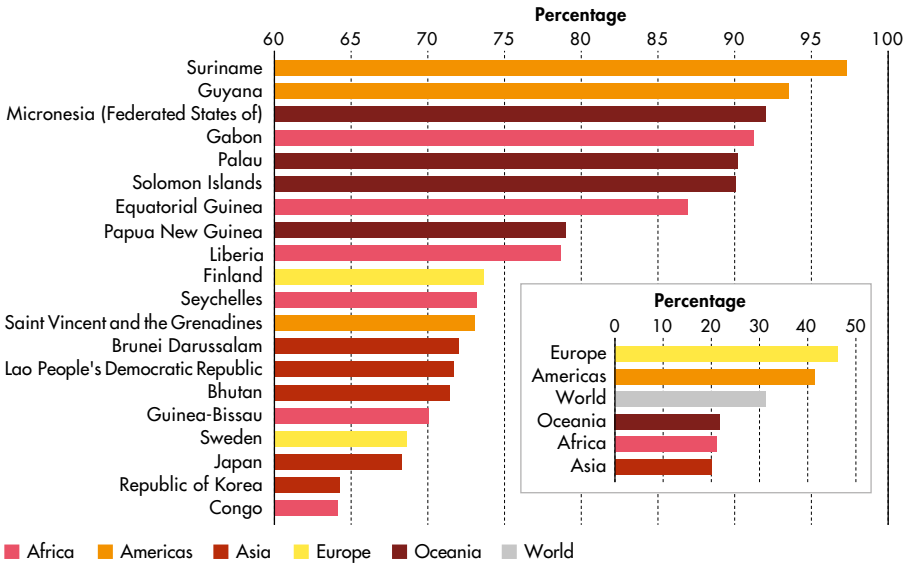
FIGURE 59.
SHARE OF LAND AREA BY TYPE AND REGION



Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig59

In absolute terms, the top country for afforestation was China, with an additional 45 million ha of forest between 2000 and 2021; deforestation was the strongest in Brazil as 56 million ha of forest were lost there between 2000 and 2021 (see **Table 49**).

FIGURE 60.
SHARE OF FOREST AREA IN TOTAL LAND AREA, TOP COUNTRIES (2021)



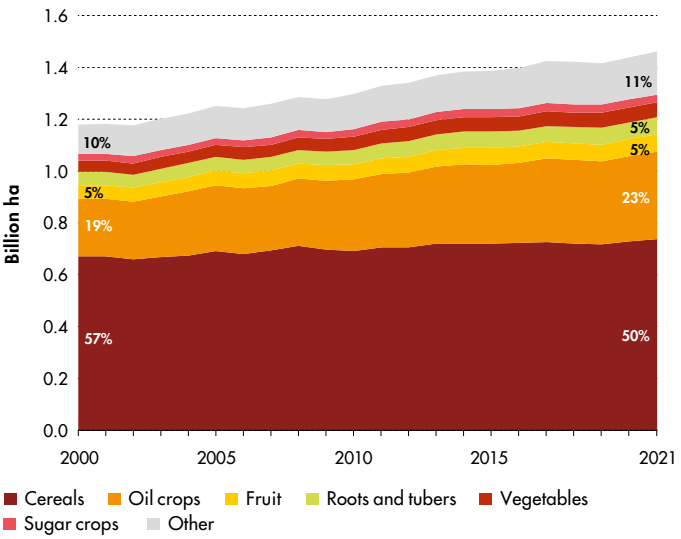
Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig60

FARMING

The global harvested area of primary crops went up 24 percent between 2000 and 2021 to 1.5 billion ha (see **Figure 61**). Cereals accounted for more than half the world's harvested area during the period, even though their share declined to 50 percent in 2021 (see **Table 51**). Oil crops covered 23 percent of the global harvested area and experienced the fastest growth in both absolute (+114 million ha) and relative terms (+51 percent). The other main crop groups each account for less than 5 percent of the global harvested area. The overall harvested area went up 3 percent between 2019 and 2021 after a period of marginal decline between 2017 and 2019.

One visible aspect of the efforts to make the agriculture sector more sustainable is the rise of organic agriculture, the main feature of which is its avoidance of synthetic fertilizers and pesticides.[20] In 2021,

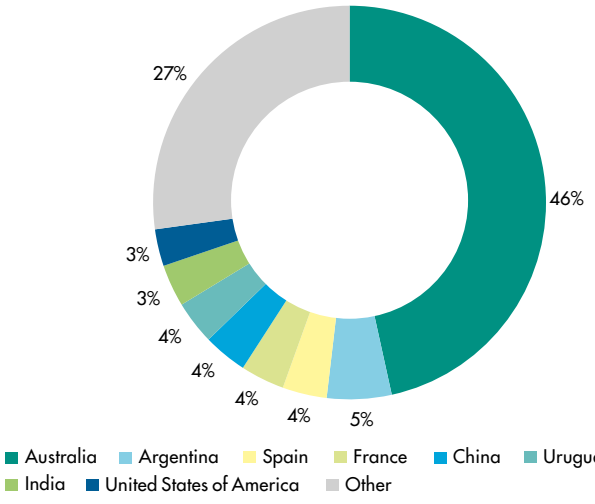
FIGURE 61.
WORLD PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL
Download: https://doi.org/10.4060/cc8166en-fig61

FIGURE 62.
WORLD AREA UNDER ORGANIC AGRICULTURE, MAIN COUNTRIES (2021)



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig62

the agriculture area under certified organic status or in conversion to organic was 77 million ha. Australia accounted for 46 percent of the total, followed by Argentina (5 percent) and Spain (4 percent). The eight countries with the largest organic agriculture area made up 73 percent of the global area under certified organic agriculture (see **Figure 62** and **Table 52**).

Normalizing the agriculture area under certified organic or in conversion to organic by the agricultural land area allows for comparison of the importance that countries give to this aspect of sustainable agriculture. Looking at countries with a sizeable agricultural area in **Figure 63**, the countries with the highest share of area under organic agriculture in total agricultural area for 2021 are Austria (26 percent), Sweden (20 percent) and Uruguay (19 percent). Fifteen of the top 20 countries are in Europe, highlighting that the region has emphasized the importance of organic agriculture. In other regions, the balance between conventional versus organic farming is still tilted towards the conventional (see **Table 53**).

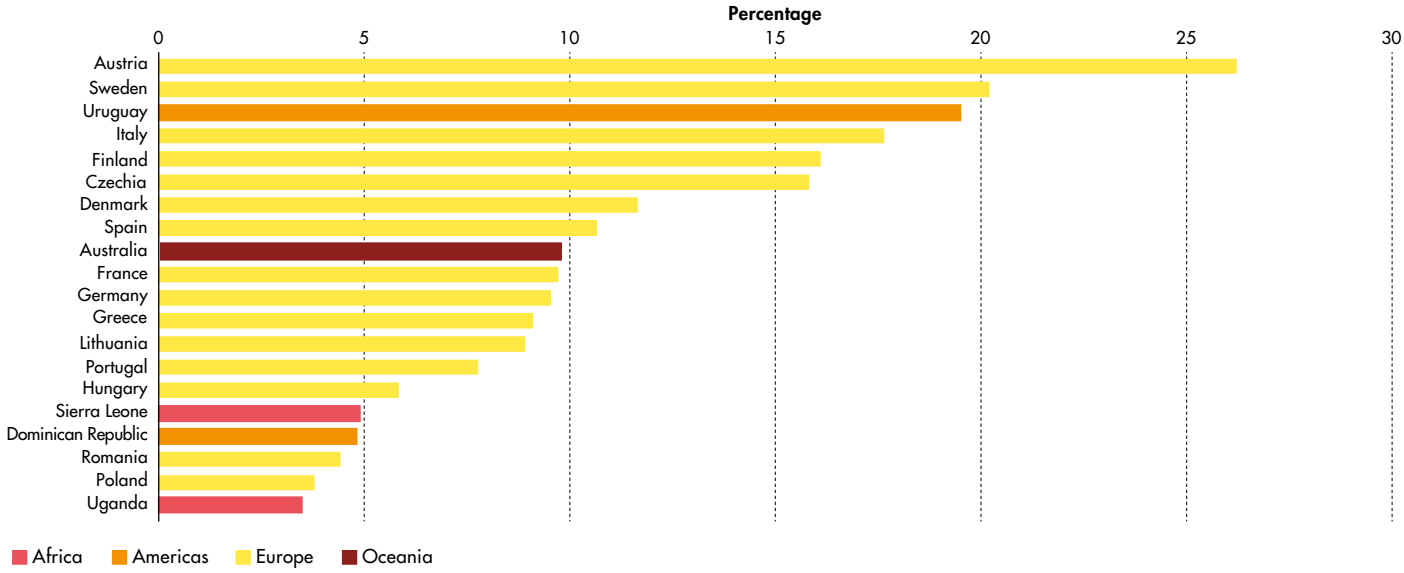
WATER

Water stress, defined as the share of freshwater withdrawal in available freshwater resources, after taking into account environmental water requirements, affects predominantly Western and Central Asia as well as Northern Africa (see **Figure 64** and **Table 54**). The countries experiencing the most acute water stress levels in 2020 (Kuwait, the United Arab Emirates and Saudi Arabia) are all located in the Arabian peninsula and are withdrawing each year 9 to almost 40 times their renewable freshwater resources available. As a result, non-renewable water resources are used and are diminishing rapidly. The national water stress level can hide some differences within a country. Water stress disaggregation by river basins shows that the basins affected by severe water stress are located not only in Northern Africa and the Near East but also in Northern America, Central and Southern Asia and on the west coast of Latin America.[21]

SOILS

The cropland nutrient budget represents the difference between the quantities of synthetic and organic nutrients (nitrogen, phosphorus and potassium) added and withdrawn from the cropland by the production of crops and livestock. An excess of nutrients can lead to environmental risks (for example via additional outputs, such as volatilization, leaching and runoff), while insufficient levels of nutrients constrain yields. **Figure 65** and **Table 55** show that the global average cropland nitrogen budget went up 14 percent to 54 kg/ha between 2000 and 2020, although it

FIGURE 63.
SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA, TOP COUNTRIES (2021)



Note: Only countries with more than 2 million ha of agricultural area are taken into account.

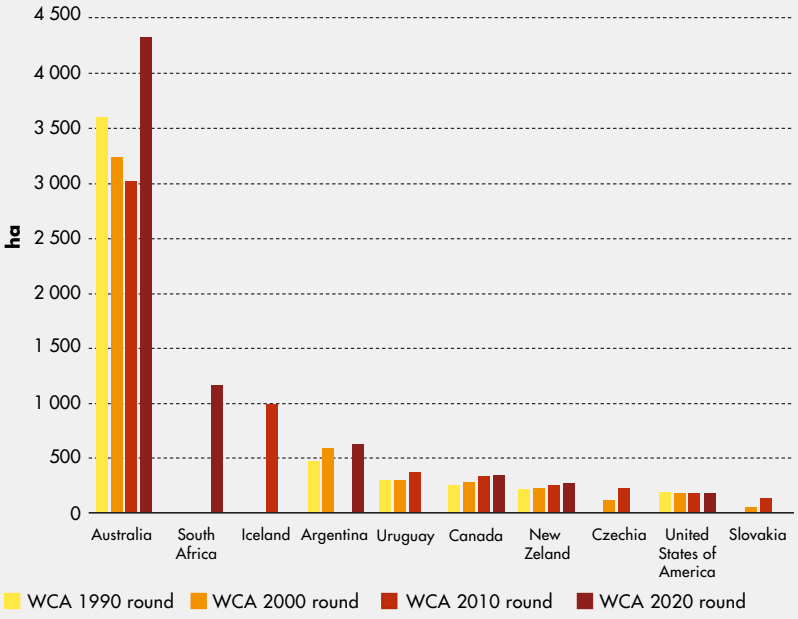
Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL
Download: https://doi.org/10.4060/cc8166en-fig63

BOX 4.
FOCUS ON STRUCTURAL DATA FROM AGRICULTURAL CENSUSES

National censuses of agriculture, conducted within the framework of FAO's World Programme for the Census of Agriculture (WCA) at least once every decade, allow countries to collect data on agricultural holdings (often called farms) and shed light on the structure of the sector at a very detailed level, including the size of the holdings, their type of tenure, the sex of the holder or the holder's legal status (civil person or juridical person). These data have been available on the FAOSTAT platform since 2022 with information sometimes going back to the 1930 round and enable users to easily compare information from different rounds.

Figure B4 shows that Australia has by far the largest average holdings' area since the 1990 census round (between 3 000 ha and 4 500 ha), while all the other countries except South Africa (1 157 ha in the 2020 The average holdings' area declined in Australia between the 1990 and 2010 rounds and in the United States of America between the 1990 and 2020 rounds. Increases in Argentina, Uruguay, Canada, New Zealand, Czechia and Slovakia suggest a potential consolidation of holdings in these countries.

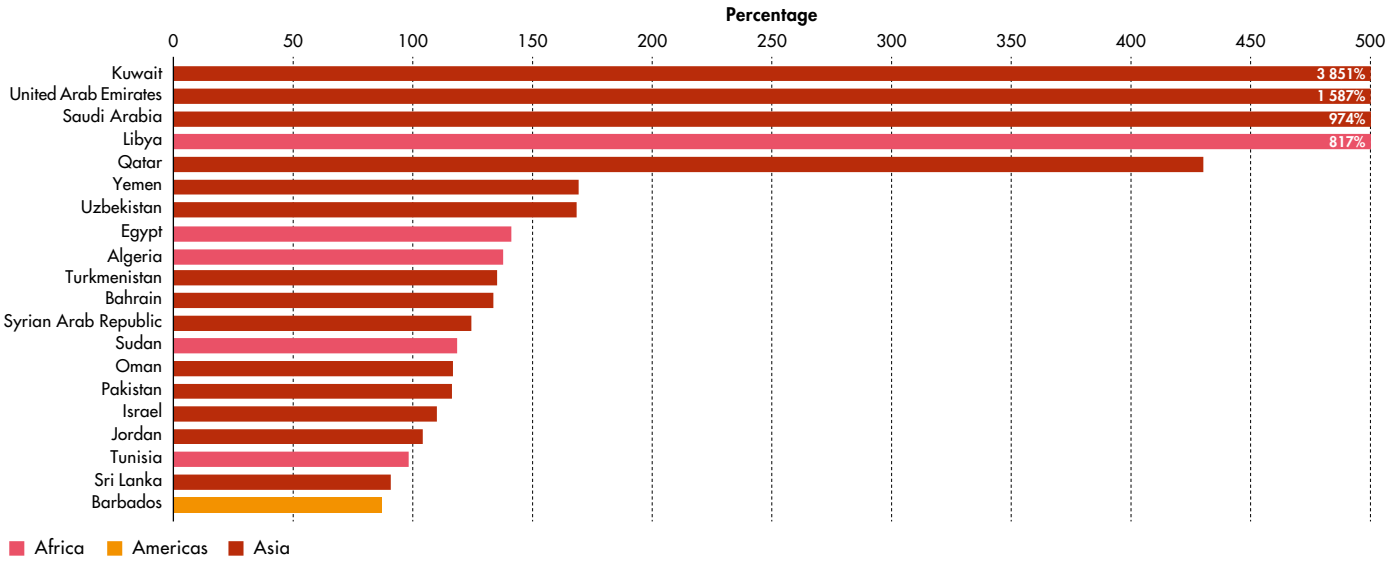
FIGURE B4.
AVERAGE HOLDINGS' AREA BY CENSUS ROUND, TOP COUNTRIES



Note: Australia changed its threshold for inclusion in its 2015–2016 census of agriculture (shown under the 2020 round) from businesses undertaking agricultural activity above AUD 5 000 to above AUD 40 000, hence the break in series.

Source: FAO. 2023. Structural data from agricultural censuses. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/WCAD
Download: https://doi.org/10.4060/cc8166en-figb4

FIGURE 64.
WATER STRESS, TOP COUNTRIES (2020)



Source: FAO. 2023. AQUASTAT Dissemination System. In: *AQUASTAT*. Rome. [Cited October 2023]. https://data.apps.fao.org/aquastat/?lang=en
Download: https://doi.org/10.4060/cc8166en-fig64

was on a declining trend during the 2010s. With 93 kg/ha in 2020, Asia had the highest cropland nitrogen budget, far ahead of the Americas (40 kg/ha), Europe (38 kg/ha), Oceania (22 kg/ha) and Africa (12 kg/ha). Oceania had the largest growth of the cropland nitrogen budget between 2000 and 2020 (+555 percent), driven by increased fertilizer inputs and decreased outputs, while Europe is the only region where the cropland nitrogen budget declined (by 5 percent). Asia had the largest total nitrogen inputs in 2020 (166 kg/ha); the Americas had the largest inputs from biological fixation, as well as outputs from crop removal, while Africa had the smallest total nitrogen inputs (39 kg/ha).

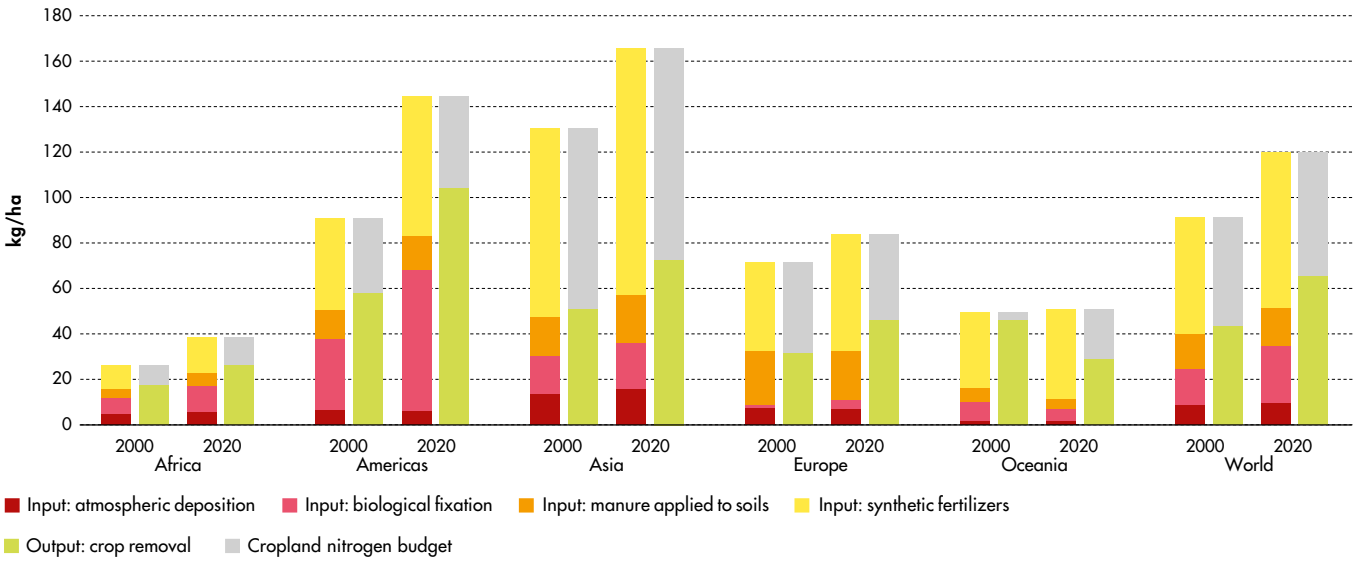
EMISSIONS AND CLIMATE CHANGE

Agrifood systems are both affected by climate change and important contributors to greenhouse gas (GHG) emissions. Total emissions from agrifood systems in 2021 amounted to 16.2 billion tonnes of carbon dioxide equivalent (Gt CO_2eq) of GHG released into the atmosphere, an increase of 10 percent, or 1.5 Gt CO_2eq compared with 2000 (**Figure 66** and **Table 56**). This growth is due to an increase in emissions from pre- and post-production and farm-gate emissions that was larger than the decrease in land-use change emissions. Activities within the farm gate accounted for 7.8 Gt CO_2eq, or 48 percent of the total emissions in 2021, followed by pre- and post-production (5.3 Gt CO_2eq, or 33 percent) and land-use change (3.1 Gt CO_2eq, or 19 percent). Asia was the top emitter, with 6.8 Gt CO_2eq (42 percent of the total) in 2020, followed by the Americas (4.3 Gt CO_2eq, or 26 percent), Africa (2.9 Gt CO_2eq, or 18 percent), Europe (2.0 Gt CO_2eq, or 12 percent) and Oceania (0.3 Gt CO_2eq, or 2 percent).

CO_2 represented half of the total emissions, or 8.2 Gt CO_2eq. Next were methane (CH_4) with 5.3 Gt CO_2eq (32 percent), nitrous oxide (N_2O) with 2.3 Gt CO_2eq (14 percent) and fluorinated gases (F-gases) with 0.5 Gt CO_2eq (3 percent).

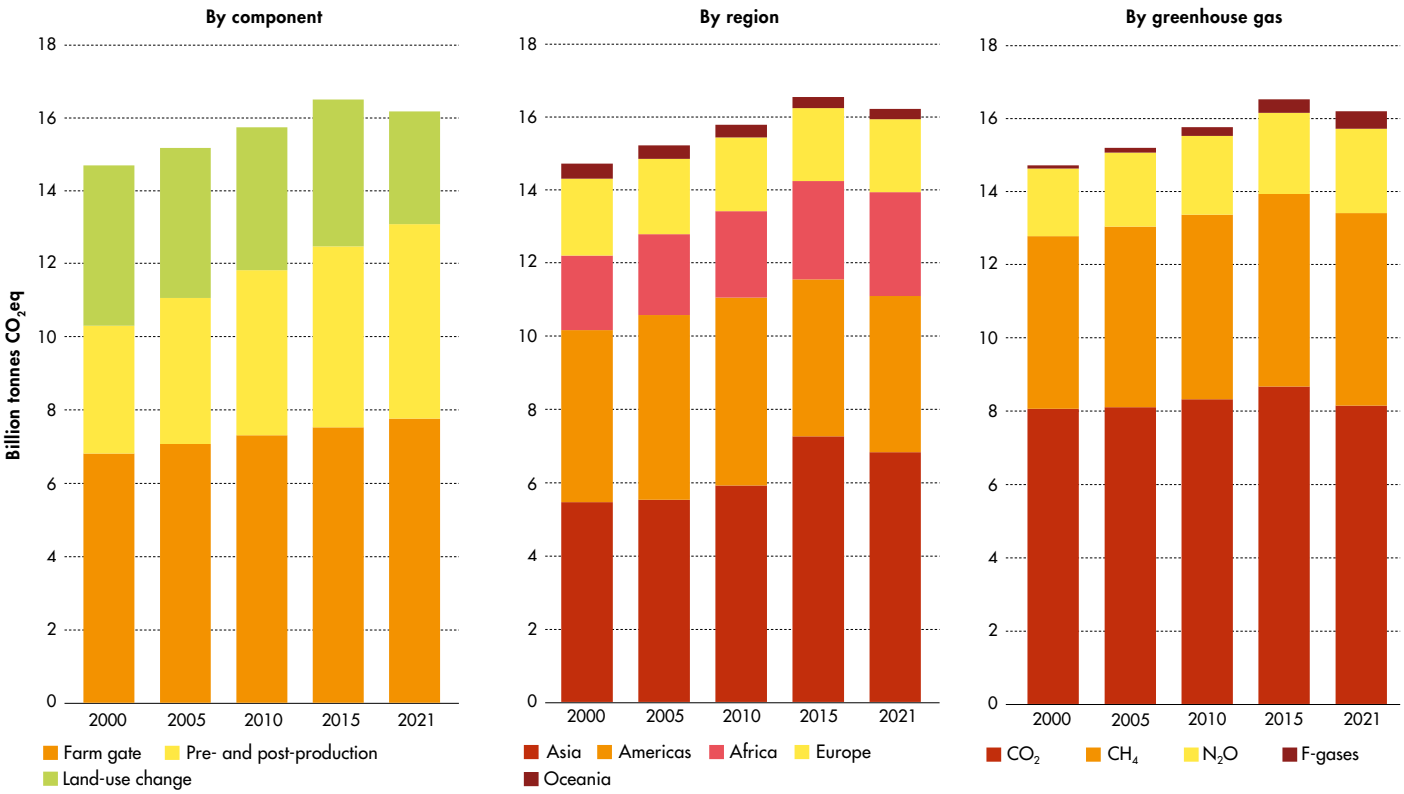
World agriculture emissions within the farm gate (those related to the production of crops and livestock) grew by 14 percent between 2000 and 2021, to 7.8 Gt CO_2eq (see **Figure 67** and **Table 57**). Around 53 percent derive from livestock-related activities, and with 2.9 Gt CO_2eq, the emissions from enteric fermentation generated in the digestive system of ruminant livestock were alone responsible for 37 percent of agricultural emissions. Animal and synthetic sources of soil fertilization contributed to slightly less than one-fifth of agricultural emissions. On-farm energy use and drained organic soils each were responsible for a constant

FIGURE 65
CROPLAND NITROGEN BUDGET BY COMPONENT AND REGION



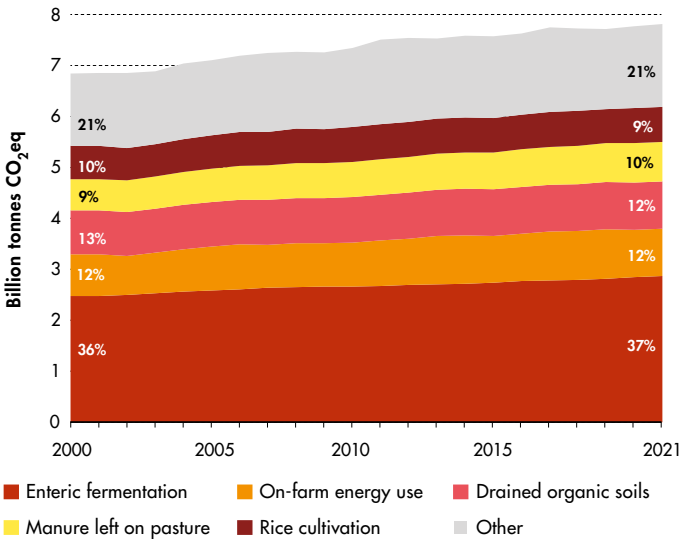
Source: FAO. 2022. Cropland nutrient budget. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/ESB
Download: https://doi.org/10.4060/cc8166en-fig65

FIGURE 66.
WORLD GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS



Source: FAO. 2023. Emissions totals. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/GT
Download: https://doi.org/10.4060/cc8166en-fig66

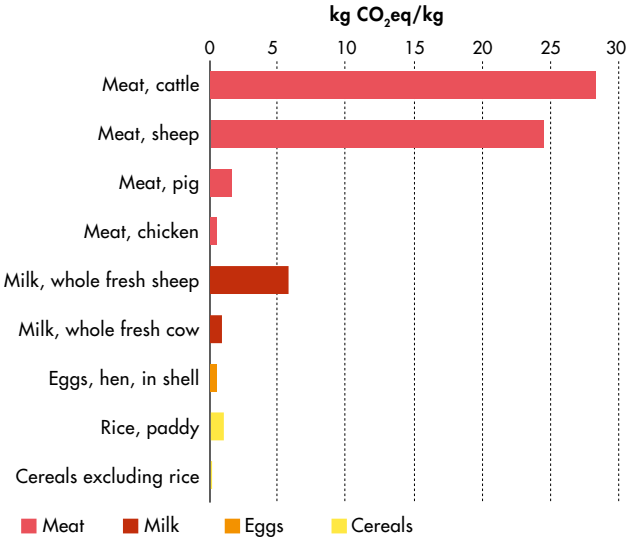
FIGURE 67.
WORLD FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY



Note: Percentages on the figure indicate the shares in the total; they may not tally due to rounding.

Source: FAO. 2023. Emissions totals. In: *FAOSTAT*. Rome. [Cited October 2023].
https://www.fao.org/faostat/en/#data/GT
Download: https://doi.org/10.4060/cc8166en-fig67

FIGURE 68.
WORLD EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES (2021)



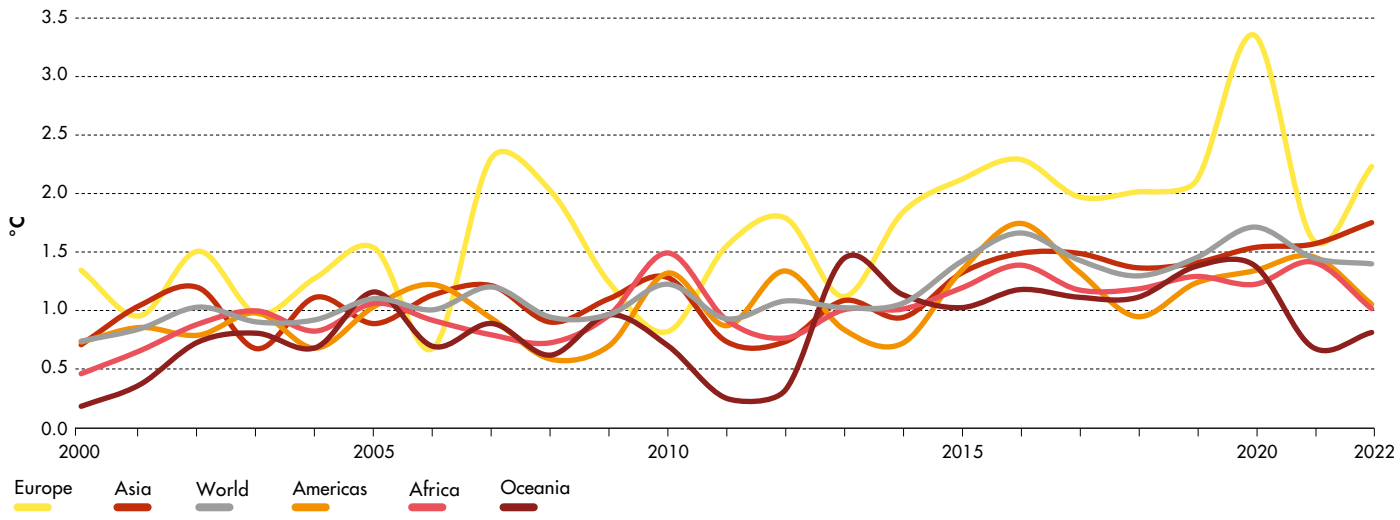
Source: FAO. 2023. Emissions intensities. In: *FAOSTAT*. Rome. [Cited October 2023].
https://www.fao.org/faostat/en/#data/EI
Download: https://doi.org/10.4060/cc8166en-fig68

12–13 percent share of farm-gate emissions over the 2000–2021 period, while methane released from the cultivation of rice paddies accounted for 9 to 10 percent.

Calculating emissions intensities[e] allows for comparison of the GHG performance of a range of commodities, as they represent a simplified indication of the efficiency of production for each commodity, by country and over time. As seen in **Figure 68**, the most CO_2-intensive commodities on average in 2021 were cattle meat (28 kg CO_2eq/kg) and sheep meat (24 kg CO_2eq/kg). The intensity of pig and chicken meat was much lower (1.7 kg CO_2eq/kg and 0.5 kg CO_2eq/kg respectively). The global emissions intensity for cow milk was 1 kg CO_2eq/kg, compared to 5.9 CO_2eq/kg for sheep milk. The emissions intensity of rice was 1 kg CO_2eq/kg, nearly six times larger than for cereals excluding rice (0.2 kg CO_2eq/kg). As seen in **Table 58**, the intensities change significantly across regions, reflecting large differences in associated efficiencies of production. For instance, the emissions intensity of cattle meat is more than twice the world average in Africa (57 kg CO_2eq/kg) and nearly half in Europe (17 kg CO_2eq/kg).

Worldwide, winters and summers alike are becoming increasingly hotter than the 1951–1980 average (see **Figure 69**). With 1.39 °C more than the world reference measured over land, 2022 was the seventh warmest year at the global level, with 2020 (1.71 °C), 2016 (1.66 °C) and 2021 (1.44 °C) the three warmest ones. The eight warmest years on record since 1961 (and in fact since the beginning of observations in 1880) are all within the eight-year period of 2015–2022. Europe is the region where the temperature change has been the highest in 2022 (and also for most of the 2000–2022 period), with 2.23 °C, followed by Asia (1.75 °C), the Americas (1.05 °C), Africa (1.01 °C) and Oceania (0.8 °C). The average temperature change in the 2010s was 1.25 °C, compared to 0.96 °C in the 2000s. As seen in **Table 59**, 128 countries had a mean annual temperature change at least 1.0 °C higher than the 1951–1980 average in 2022; the largest mean annual temperature change was recorded in Andorra (3.24 °C), France and Luxembourg (2.93 °C).

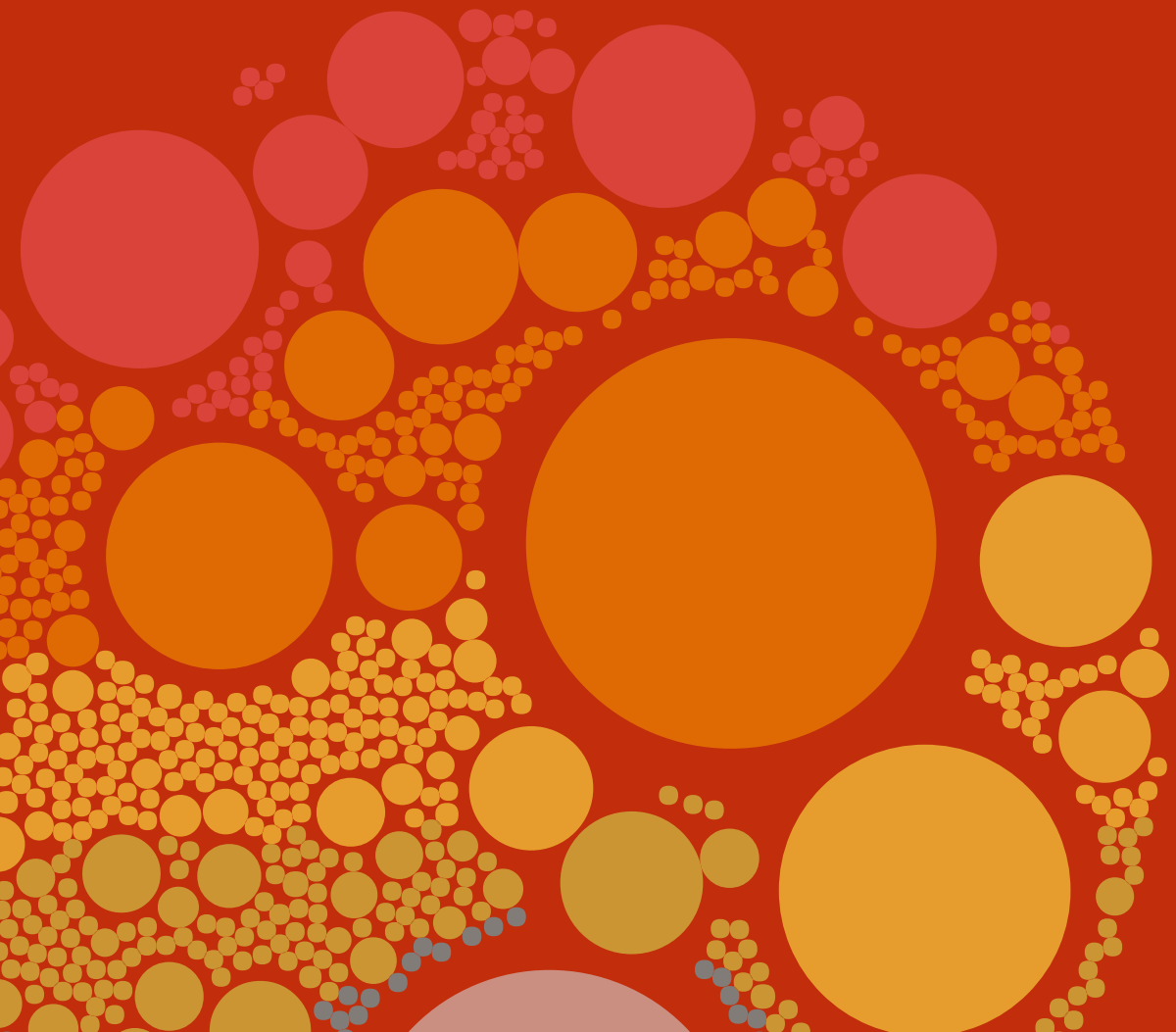
FIGURE 69.
TEMPERATURE CHANGE MEASURED OVER LAND BY REGION



Source: FAO. 2023. Temperature change on land. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/ET
Download: https://doi.org/10.4060/cc8166en-fig69

e Emissions estimates are those generated within the farm gate.

ANNEXES



ANNEX 1: FAO WORK ON STATISTICS

Statistics are at the core of the work of the Food and Agriculture Organization of the United Nations (FAO), its mandate and strategic goals. Article I of its constitution states that "The Organization shall collect, analyse, interpret and disseminate information relating to nutrition, food and agriculture. […] the term 'agriculture' and its derivatives includes forestry, fisheries and aquaculture."

FAO has a decentralized statistical system, with several technical units carrying out statistical activities. The Statistics Division (ESS) produces a vast array of data on agriculture (covering the socioeconomic, environmental, production, trade, food security and nutrition aspects), which form the majority of FAO statistics – other technical divisions are in charge of data on fisheries and aquaculture, forestry, international commodity prices and water. ESS develops and advocates for the implementation of methodologies and standards for data collection, validation, processing and analysis of food and agriculture statistics. In these statistical domains, it also plays a vital role in the compilation, processing and dissemination of internationally comparable data, and provides essential capacity-building support to member countries. In addition, ESS disseminates documents, working papers and statistical publications that cover agricultural and food security statistics (including prices, production, trade and agri-environmental statistical data). ESS is involved in managing a number of large-scale projects aimed at improving statistical methodologies and establishing best practices for collecting, collating, processing, and for disseminating and using data relevant to food security, agriculture and rural areas.

The Office of Chief Statistician (OCS) is responsible for the overall coordination and governance of FAO's statistical work, both at headquarters and in FAO's Regional and Country Offices. OCS provides guidance to the technical units in charge of data acquisition, compilation and dissemination, with the aim of ensuring quality and consistency of statistical practices at the corporate level. It plays a quality assurance role in developing methods and standards for food and agriculture statistics and in providing technical assistance and capacity development to member countries. OCS also leads the Organization's work to monitor the Sustainable Development Goal (SDG) indicators under FAO custodianship.

ANNEX 2: DEFINITIONS AND NOTES

ADULT OBESITY, PREVALENCE

The prevalence of obesity in the adult population is the percentage of adults age 18 and over whose body mass index (BMI) is more than 30 kg/m^2. The BMI is a simple index of weight-for-height, or the weight in kilograms divided by the square of the height in metres.

Originator: WHO

Owner: World Health Organization, Global Health Observatory Data Repository/World Health Statistics

AGRICULTURAL LAND

Land used for cultivation of crops and animal husbandry. It is the total of areas under "Cropland" and "Permanent meadows and pastures".

Originator: FAO, Statistics Division

Owner: FAO

AGRICULTURAL WATER WITHDRAWAL

Annual quantity of self-supplied water withdrawn for irrigation, livestock and aquaculture purposes, including water specifically withdrawn by water supply companies to operate irrigation systems. It can include water from freshwater resources, as well as water from over-abstraction of renewable groundwater or withdrawal from fossil groundwater, direct use of agricultural drainage water, direct use of (treated) wastewater and desalinated water. Water for the dairy and meat industries and industrial processing of harvested agricultural products is included under industrial water withdrawal.

Originator: FAO, Land and Water Division (AQUASTAT)

Owner: FAO

AGRICULTURE AREA UNDER ORGANIC AGRICULTURE

Sum of areas under "Agriculture area certified organic" and "Agriculture area in conversion to organic". Agriculture area certified organic is the land area exclusively dedicated to organic agriculture and managed by applying organic agriculture methods. It refers to the land area fully converted to organic agriculture. It is the portion of land area (including arable lands, pastures or wild areas) managed (cultivated) or wild harvested in accordance with specific organic standards or technical regulations, which has been inspected and approved by a certification body. Agriculture area in conversion to organic is the land area that is going through the organic conversion process, usually a two-year period of conversion to organic land.

Originator: FAO, Statistics Division

Owner: FAO

AGRICULTURE, FORESTRY AND FISHING

Agriculture, forestry and fishing (AFF) refers to the broad agricultural sector including crop growing and animal production, forestry and logging, and fishing and aquaculture. These sub-sectors correspond to Section A of the International Standard Industrial Classification (ISIC), revision 4 and are covered in its Divisions 1, 2 and 3. To distinguish the agricultural sector (crop and livestock in Division 1 of ISIC), the broad agricultural sector is abbreviated as AFF.

Originator: United Nations Statistics Division

Owner: UN

AGRICULTURE, VALUE ADDED

This is the total value added in AFF. The value added is the net output of a sector after adding up the value of all outputs and subtracting intermediate inputs. It is calculated without making deductions for depreciation of fabricated assets or depletion and degradation of natural resources. ISIC, revision 3 or 4, determines the origin of value

added. Agriculture here refers to the broad agricultural sector (AFF).

Originator: World Bank

Owner: World Bank

ANIMAL OILS AND FATS

Animal oils and fats include animal fats that are obtained by dressing the carcasses of slaughtered animals (slaughter fats), or at a later stage in the butchering process when meat is being prepared for final consumption (butcher fats).

Originator: FAO, Statistics Division

Owner: FAO

AQUACULTURE FISH PRODUCTION

Aquaculture fish production is defined as the farming of aquatic organisms. Farming implies some form of intervention in the rearing process to enhance production, such as regular stocking, feeding, protection from predators, etc. Farming also implies individual or corporate ownership of the stock being cultivated. For statistical purposes, aquatic organisms, which are harvested by an individual or corporate body that has owned them throughout their rearing period, contribute to aquaculture, while aquatic organisms, which are exploitable by the public as a common property resource, with or without appropriate licences, are the harvest of fisheries.
In the case of capture-based aquaculture, only the incremental growth (or weight gain) in captivity, could and should be reported as the production from aquaculture. Data included here cover aquaculture production of fish, molluscs, crustaceans and miscellaneous aquatic animals but exclude the production of marine mammals, crocodiles, corals, pearls, sponges and algae. Fish production is the sum of aquaculture and capture fish production. Data are expressed in live weight equivalent.

Originator: FAO, Fisheries and Aquaculture Division

Owner: FAO

ARABLE LAND

Arable land is the total of areas under temporary crops, temporary meadows and pastures, and land with temporary fallow. Arable land does not include land that is potentially cultivable but is not normally cultivated.

Originator: FAO, Statistics Division

Owner: FAO

AREA HARVESTED

Area harvested refers to the area from which a crop is gathered. It excludes, therefore, the area from which, although sown or planted, there was no harvest due to damage, failure, etc. It is usually net of temporary crops and sometimes gross of permanent crops. The net area differs from the gross area insofar as the latter includes uncultivated patches, footpaths, ditches, headlands, shoulders, shelterbelts, etc. If the crop under consideration is harvested more than once during the year as a consequence of successive cropping (i.e. the same crop is sown or planted more than once in the same field during the year), the area is counted as many times as harvested.

Originator: FAO, Statistics Division

Owner: FAO

CAPTURE FISH PRODUCTION

Hunting, collecting and gathering activities directed at removing or collecting live wild aquatic organisms are capture fish production. The capture production statistics here indicates the nominal catches of aquatic organisms, killed, caught, trapped or collected for all commercial, industrial, recreational and subsistence purposes or other utilizations in live weight equivalent. Data included here cover capture production of fish, molluscs, crustaceans and miscellaneous aquatic animals but exclude production of marine mammals, crocodiles, corals, pearls, sponges and algae. Fish production is the sum of aquaculture and capture fish production.

Originator: FAO, Fisheries and Aquaculture Division

Owner: FAO

CEREAL IMPORT DEPENDENCY RATIO

The cereal import dependency ratio provides a measure of the dependence of a country or region from cereal imports. The higher the value of the indicator, the higher the dependence. Specifically, the cereal imports dependency ratio tells how much of the available domestic food supply of cereals has been imported and how much comes

from the country's own production. It is computed as (cereal imports - cereal exports) /(cereal production + cereal imports - cereal exports) x 100. Given this formula the indicator assumes only values less than or equal to 100. Negative values indicate that the country is a net exporter of cereals. The indicator is calculated in three-year averages, to reduce the impact of possible errors in estimated production and trade, due to the difficulties in properly accounting for stock variations in major foods.

Originator: FAO, Statistics Division

Owner: FAO

CEREALS

Wheat, rice paddy, barley, maize, popcorn, rye, oats, millets, sorghum, buckwheat, quinoa, fonio, triticale, canary seed, mixed grain and cereals nes are all considered cereals.

Originator: FAO, Statistics Division

Owner: FAO

CEREALS AND PREPARATIONS

Cereals, flours and cereal grains that are either rolled, flaked, pearled, sliced or kibbled are cereals and preparations.

Originator: FAO, Statistics Division

Owner: FAO

CONSUMER PRICE INDEX (FOOD)

The food consumer price index (CPI) measures the price change between the current and reference periods of the average basket of food items purchased by households. The food CPI is rescaled to a unique base year of 2010 by FAO for all countries with sufficient time coverage. FAO uses the geometric mean of the monthly indices of the year 2010 as the rescaling factor.

Originator: IMF, UNSD, OECD and national statistics websites

Owner: IMF, UNSD and FAO

CROPLAND

Cropland is the land used for cultivation of crops. The total of areas under "Arable land" and "Permanent crops".

Originator: FAO, Statistics Division

Owner: FAO

CROPLAND NITROGEN BUDGET

Difference between the cropland nitrogen input and output flows. Inputs are comprised of synthetic fertilizers, manure applied to soils, atmospheric deposition and biological fixation; outputs are comprised of crop removal from harvest.

Originator: FAO, Statistics Division

Owner: FAO

CROPS

Crop statistics include permanent and temporary crops and cover the following categories: Crops primary, Fibre crops primary, Cereals, Coarse grain, Citrus fruit, Fruit, Oil crops (oil and cake equivalent), Pulses, Roots and tubers, Treenuts and Vegetables.

Originator: FAO, Statistics Division

Owner: FAO

DAIRY PRODUCTS

Butter, buttermilk, cheese, cream, ghee, milk, whey and yoghurt are all dairy products.

Originator: FAO, Statistics Division

Owner: FAO

DIETARY ENERGY SUPPLY (KCAL/CAP/DAY)

The food available for human consumption, expressed in kilocalories per person per day is the dietary energy supply. At the country level, it is calculated as the food remaining for human use after taking out all non-food utilization, including exports, industrial use, animal feed, seed, wastage and changes in stocks.

Originator: FAO, Statistics Division

Owner: FAO

DIETARY ENERGY SUPPLY ADEQUACY, AVERAGE

The dietary energy supply adequacy average expresses the dietary energy supply (DES) as a percentage of the average dietary energy requirement (ADER). Each country's or region's average supply of calories for food consumption is normalized by the average dietary energy requirement estimated for its population to provide an index of adequacy of the food supply in terms of calories.

Originator: FAO, Statistics Division

Owner: FAO

DIETARY ENERGY SUPPLY, AVERAGE

The figures for the dietary energy supply average are based on

the latest available data from national food balance sheets and represent the amount of food available for human consumption.

Originator: FAO, Statistics Division

Owner: FAO

EGGS, PRIMARY

Egg production by type of poultry should refer to the total production of eggs in the shell by all types of hens in both the traditional sector (individually owned small flocks) and the modern sector (large-scale, intensive commercial poultry farms). Total production includes eggs for hatching but excludes farm waste.

Originator: FAO, Statistics Division

Owner: FAO

EMISSIONS FROM AGRIFOOD SYSTEMS

Greenhouse gas (GHG) emissions from agrifood systems are generated within the farm gate by crop and livestock production activities; from land-use change dynamics, linked for instance to deforestation and peatland degradation to make room for agriculture; and in pre- and post-production processes, such as food manufacturing, household consumption and disposal of food waste. Emissions, relevant to each process, consist of nitrous oxide (N_2O); methane (CH_4); carbon dioxide (CO_2); and fluorinated gases (F-gases).

Originator: FAO, Statistics Division

Owner: FAO

EMISSIONS FROM LAND-USE CHANGE

Emissions from land management and transformation processes. FAOSTAT data include processes on agricultural land and forest land – corresponding to IPCC land-use categories "cropland", "forest land" and "grassland". Emissions from forests consist of CO_2 emissions/removals from net carbon stock changes in above- and below-ground biomass related to net forest conversion (deforestation). While CO_2 emissions from fires are implicitly included in the carbon stock change computations, non-CO_2 emissions from forest fires are reported separately, for "fires in humid tropical forests" and "other forest fires". In addition to CO_2 from deforestation, emissions on agricultural land include CO_2 and N_2O emissions from the drainage of organic soils. Land-use change emissions in FAOSTAT also include CO_2 and CH_4 emissions from fires in organic soils.

Originator: FAO, Statistics Division

Owner: FAO

EMISSIONS FROM PRE- AND POST-PRODUCTION

Pre- and post-production emissions cover activities outside the farm gate, either as input into agricultural production activities (fertilizer manufacturing and pesticide manufacturing) or as post-farm gate processes (food processing, food packaging, food transport, food retail, food household consumption, agrifood systems waste disposal). Emissions include CO_2 from fossil-fuels based energy used across the above processes, CH_4 and N_2O from the treatment of waste streams, and F-gases from cold chains linked to refrigeration of food items.

Originator: FAO, Statistics Division

Owner: FAO

EMISSIONS INTENSITY

Greenhouse gas emissions within the farm gate per unit weight of product, expressed in kg CO_2eq/kg of product. The indicator is computed for six types of meat (buffalo, cattle [beef], chicken, goat, pig and sheep), four types of milk (camel, cow, goat and sheep), hen eggs, rice, and other cereals (combining the intensities of barley, maize, millet, oats, rye, sorghum and wheat).

Originator: FAO, Statistics Division

Owner: FAO

EMISSIONS SHARES

Shares in total emissions of agrifood systems and their components (farm gate, land-use change, pre- and post-production) and of all the sectors covered in the database, computed with respect to emissions in CO_2 equivalent and by single gas (CO_2, CH_4, N_2O and F-gases).

Originator: FAO, Statistics Division

Owner: FAO

EMISSIONS WITHIN THE FARM GATE

Farm-gate emissions cover all agricultural processes within farms related to crop and livestock production

(enteric fermentation, manure management, rice cultivation, synthetic fertilizers, manure applied to soils, manure left on pastures, crop residues, drained organic soils, burning of crop residues, savanna fires), including energy use and drained organic soils within the farm. Non-CO_2 gases, namely CH_4 and N_2O, are produced by crop and livestock production and management activities whereas CO_2 emissions are produced from the drainage of organic soils and on-farm use of fossil-fuel based energy (including electricity and heat generated off farms). Emissions are computed following Tier 1 Intergovernmental Panel on Climate Change (IPCC) 2006 Guidelines for National GHG Inventories.

Originator: FAO, Statistics Division

Owner: FAO

EMPLOYMENT IN AGRICULTURE (TOTAL POPULATION, MALE, FEMALE)

Employment comprises all persons of working age who, during a specified brief period, such as one week or one day, were in the following categories: a) paid employment (whether at work or having a job but not at work); or b) self-employment (whether at work or with an enterprise but not at work). The working-age population is the population above the legal working age, but for statistical purposes it comprises all persons above a specified minimum age threshold for which an inquiry on economic activity is made. To promote international comparability, the working-age population is often defined as all persons aged 15 and older, but this may vary from country to country based on national laws and practices (some countries also use an upper age limit). The classification by economic activity refers to the main activity of the establishment in which a person worked during the reference period. The branch of economic activity of a person does not depend on the specific duties or functions of the person's job, but rather on the characteristics of the economic unit in which the person worked. Data presented by a branch of economic activity are based on ISIC.

Originator: ILO

Owner: ILO

EXPORT VALUE

Export values are reported as FOB (free on board: the value of the goods plus the value of the services performed to deliver the goods to the border of the exporting country).

Originator: FAO, Statistics Division

Owner: FAO

FERTILIZERS

The use of fertilizers refers to agricultural use of inorganic (mineral or chemical) fertilizers for the three main plant nutrients: nitrogen (N), phosphorus (expressed as P_2O_5) and potassium (expressed as K_2O). It includes both straight fertilizers (those containing only one of the three primary plant nutrients) and compound fertilizers (those containing more than one of the three primary plant nutrients; they may be NP, NK, PK or NPK). Agricultural use refers to the use for crops, livestock, forestry, fisheries and aquaculture, excluding use for animal feed.

Originator: FAO, Statistics Division

Owner: FAO

FISH NET TRADE

Fish net trade is exports plus re-exports minus imports.

Originator: FAO, Fisheries and Aquaculture Division

Owner: FAO

FISH PRICE INDEX

The FAO Fish Price Index measures the monthly changes in international prices of a basket of fisheries and aquaculture commodities. The index consists of the average of five commodity group price indices (whitefish, salmon, tuna, other pelagic fish and shrimps) weighted by the average export shares of each of the groups for the 2014–2016 period.

Originator: FAO, Fisheries and Aquaculture Division

Owner: FAO

FOOD

Food is comprised of the commodities in the Standard International Trade Classification (SITC) sections 0 (food and live animals), 1 (beverages and tobacco), and 4 (animal and vegetable oils and fats) and SITC division 22 (oil seeds, oil nuts and oil kernels).

Originator: FAO, Statistics Division

Owner: FAO

FOOD PRICE INDEX

The FAO Food Price Index is a measure of the monthly change in

international prices of a basket of food commodities. It consists of the average of five commodity group price indices (meat, dairy, cereals, vegetable oils and sugar), weighted with the average export shares of each of the groups for 2014–16.

Originator: FAO, Statistics Division

Owner: FAO

FOREST LAND

Land spanning more than 0.5 ha with trees higher than 5 metres and a canopy cover of more than 10 percent, or trees able to reach these thresholds *in situ*. Excludes land that is predominantly under agricultural or urban land use. Explanatory notes:

- Forest land is determined both by the presence of trees and by the absence of other predominant land uses. The trees should be able to reach a minimum height of 5 metres *in situ*.
- Includes areas with young trees that have not yet reached but that are expected to reach a canopy cover of 10 percent and tree height of 5 metres. It also includes areas that are temporarily unstocked owing to clear-cutting as part of a forest management practice or natural disasters, and that are expected to be regenerated within five years. Local conditions may, in exceptional cases, justify the use of a longer time frame.
- Includes forest roads, firebreaks and other small open areas.
- May include forest land in national parks, nature reserves and other protected areas, such as those of specific environmental, scientific, historical, cultural or spiritual interest.
- Includes windbreaks, shelter belts and corridors of trees with an area of more than 0.5 ha and width of more than 20 metres.
- Includes abandoned shifting cultivation land with a regeneration of trees that have, or are expected to reach, a canopy cover of 10 percent and tree height of 5 metres.
- Includes areas with mangroves in tidal zones, regardless of whether this area is classified as land area or not.
- Includes areas with bamboo and palms provided that land use, height and canopy cover criteria are met.
- Some agroforestry systems such as the taungya system, where crops are grown only during the first years of the forest rotation, should be classified as forest.
- Excludes tree stands in agricultural production systems, such as fruit-tree plantations (permanent crops), oil palm plantations, rubber and Christmas trees (permanent crops) and agroforestry systems when crops are grown under tree cover.

Originator: FAO, Statistics Division

Owner: FAO

FOREST PRODUCTS EXPORTS

Products of domestic origin or manufacture shipped out of the country are forest product exports. They include exports from free economic zones and re-exports and exclude “in-transit” shipments. They are reported in cubic metres of solid volume or metric tonnes and values are normally recorded as FOB.

Originator: FAO, Forestry Division

Owner: FAO

FOREST PRODUCTS IMPORTS

Products imported for domestic consumption or processing shipped into a country are forest product imports. They include imports into free economic zones or for re-export and exclude “in-transit” shipments. They are reported in cubic metres of solid volume or metric tonnes and values normally include cost, insurance and freight (CIF).

Originator: FAO, Forestry Division

Owner: FAO

FOREST PRODUCTS PRODUCTION

Forest product production includes the production of products that may immediately be consumed in the production of another product (e.g. wood pulp, which may immediately be converted into paper as part of a continuous process). This includes production from all sources within the country including public, private and informal sources. It excludes the production of veneer sheets that are used for plywood production within the same country. It is reported in cubic metres of solid

volume in the case of roundwood, sawnwood and wood-based panels and metric tonnes in the case of charcoal, pulp and paper products.

Originator: FAO, Forestry Division

Owner: FAO

FRUIT AND VEGETABLES

Vegetables, as classified in this group, are mainly annual plants cultivated as field and garden crops in the open and under glass and are used almost exclusively for food. Vegetables grown principally for animal feed or seed should be excluded. Certain plants, normally classified as cereals and pulses, belong to this group when harvested green, such as green maize, green peas, etc. Chilies and green peppers are included in this grouping when they are harvested for consumption as vegetables and not processed into spices. Trade data for fresh vegetables also include chilled vegetables, meaning the temperature of the products has been reduced to around 0 °C without the products being frozen. Fruit crops consist of fruits and berries that, with few exceptions, are characterized by their sweet taste. Nearly all are permanent crops, mainly from trees, bushes and shrubs, as well as vines and palms. Fruit crops are consumed directly as food and are processed into dried fruit, fruit juice, canned fruit, frozen fruit, jam, alcoholic beverages, etc.

Originator: FAO, Statistics Division

Owner: FAO

GOVERNMENT EXPENDITURE ON AGRICULTURE

The government expenditure on agriculture refers to core areas of government functions relevant to agriculture, forestry and fishing (AFF) based on the Classification of Functions of Government as outlined in the Government Finance Statistics Manual of the International Monetary Fund (IMF) (2014). Statistics on expenditure in AFF are used to compile the agriculture orientation index.

Originator: FAO, Statistics Division

Owner: FAO and IMF

GROSS FIXED CAPITAL FORMATION

The gross fixed capital formation is the total value of a producer's acquisitions, less disposals, of fixed assets during the accounting period plus certain additions to the value of non-produced assets (such as subsoil assets or major improvements in the quantity, quality or productivity of land) realized by the productive activity of institutional units.

Originator: UNSD, OECD and national statistics' websites

Owner: UNSD, OECD and FAO

IMPORT VALUE

Import values are reported as CIF (cost insurance and freight: the value of the goods, plus the value of the services performed to deliver goods to the border of the exporting country, plus the value of the services performed to deliver the goods from the border of the exporting country to the border of the importing country).

Originator: FAO, Statistics Division

Owner: FAO

INDUSTRIAL ROUNDWOOD

All roundwood except wood fuel is industrial roundwood. In production statistics, it is an aggregate comprising sawlogs and veneer logs; pulpwood, round and split; and other industrial roundwood. It is reported in cubic metres solid volume underbark (i.e. excluding bark).

Originator: FAO, Forestry Division

Owner: FAO

INFLATION RATE

The inflation rate of an index for any month refers to the percentage change in the index value for the month as compared to the index value of the corresponding month of the previous year. Global and regional food consumer price inflation measures food inflation for a group of countries at different geographical scales: Africa, Europe, Oceania, Latin America and the Caribbean, North America and Asia. Global and regional inflation are calculated using household consumption expenditure weights.

Originator: FAO, Statistics Division

Owner: FAO

LAND AREA

Country area excluding area under inland waters and coastal waters.

Originator: FAO, Statistics Division

Owner: FAO

LAND AREA EQUIPPED FOR IRRIGATION

Land area equipped with irrigation infrastructure and equipment, in working order, to provide water to crops. The equipment does not have to be used during the reference year. The area equipped for irrigation covers areas equipped for fully controlled irrigation by any of the methods of surface, sprinkler or localized irrigation. It also includes areas under partially controlled irrigation methods of spate irrigation (controlling floodwater to water crops), equipped wetlands and inland valley bottoms and equipped flood recession. It excludes manual watering of plants using buckets, watering cans or other devices.

Originator: FAO, Statistics Division

Owner: FAO

LIVESTOCK PRIMARY PRODUCTION

Livestock primary production includes products from live and slaughtered animals. Products from slaughtered animals include meat, offals, raw fats, fresh hides and skins. Products from live animals include milk, eggs, honey, beeswax and fibres of animal origin.

Originator: FAO, Statistics Division

Owner: FAO

MEAT

Meat is defined as the flesh of animals (excluding fish) used for food. In production data, meat is normally reported inclusive of bone and exclusive of meat that is unfit for human consumption. As reported by individual countries, meat production data may refer either to commercial production (meat entering marketing channels), inspected production (from animals slaughtered under sanitary inspection), or total production (the total of the above-mentioned categories plus slaughter for personal consumption). All FAO annual production data refer to total production

Originator: FAO, Statistics Division

Owner: FAO

MILK

Whole fresh milk production from buffaloes, camels, cows, goats and sheep.

Originator: FAO, Statistics Division

Owner: FAO

NET TRADE

Value in USD of exports minus imports.

Originator: FAO, Statistics Division

Owner: FAO

OIL CROPS

Oil-bearing crops or oil crops include both annual (usually called oilseeds) and perennial plants whose seeds, fruits or mesocarp and nuts are valued mainly for the edible or industrial oils that are extracted from them. Oil crops exclude dessert and table nuts, although they are rich in oil, as well as annual oilseed plants that are either harvested green or are used for grazing and for green manure. Some oil crops are also fibre crops in that both the seeds and the fibres are harvested from the same plant (for example coconuts, kapok fruit, seed cotton, linseed and hempseed).

Originator: FAO, Statistics Division

Owner: FAO

PAPER AND PAPERBOARD

The paper and paperboard category is an aggregate category. In the production and trade statistics, it represents the sum of graphic papers; sanitary and household papers; packaging materials and other paper and paperboard. It excludes manufactured paper products such as boxes, cartons, books and magazines, etc.

Originator: FAO, Forestry Division

Owner: FAO

PERMANENT CROPS

Land cultivated with long-term crops that do not have to be replanted for several years (such as cocoa and coffee), land under trees and shrubs producing flowers (such as roses and jasmine), and nurseries (except those for forest trees, which should be classified under “Forestry”) are all considered land under permanent crops. Permanent meadows and pastures are excluded from land under permanent crops.

Originator: FAO, Statistics Division

Owner: FAO

PERMANENT MEADOWS AND PASTURES

Land used permanently (five years or more) to grow herbaceous forage crops through cultivation or naturally (wild prairie or grazing land) is considered land

under permanent meadows and pastures. Permanent meadows and pastures on which trees and shrubs are grown should be recorded under this heading only if the growing of forage crops is the most important use of the area. Measures may be taken to keep or increase productivity of the land (i.e. use of fertilizers, mowing or systematic grazing by domestic animals.) This class includes:

- grazing in wooded areas (agroforestry areas, for example)
- grazing in shrubby zones (heath, maquis, garigue)
- grassland in the plain or low mountain areas used for grazing: land crossed during transhumance where the animals spend a part of the year (approximately 100 days) without returning to the holding in the evening: mountain and subalpine meadows and similar; and steppes and dry meadows used for pasture.

Originator: FAO, Statistics Division

Owner: FAO

PESTICIDES

Insecticides, fungicides, herbicides, disinfectants and any substance or mixture of substances intended for preventing, destroying or controlling any pest, including vectors of human or animal disease, unwanted species of plants or animals causing harm during or otherwise interfering with the production, processing, storage, transport or marketing of food, agricultural commodities, wood and wood products or animal feedstuffs, or substances which may be administered to animals for the control of insects, arachnids or other pests in or on their bodies. The term includes substances intended for use as a plant growth regulator, defoliant, desiccant or agent for thinning fruit or preventing the premature fall of fruit, and substances applied to crops either before or after harvest to protect the commodity from deterioration during storage and transport. Pesticides use data refers to quantities of pesticides applied to crops and seeds in the agricultural sector. Figures are expressed in metric tonnes of active ingredients. However, due to some country reporting practices, the data may be reported by: use in formulated product; sales; distribution; or imports for use in the agricultural sector.

Originator: FAO, Statistics Division

Owner: FAO

PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY

The prevalence of moderate or severe food insecurity is an estimate of the percentage of people in the population who live in households classified as moderately or severely food insecure. The assessment is conducted using data collected with the Food Insecurity Experience Scale (FIES) or a compatible experience-based food security measurement questionnaire (such as the Household Food Security Survey Module – HFSSM). The probability of being food insecure is estimated using the one-parameter logistic Item Response Theory model (the Rasch model) and thresholds for classification are made cross-country comparable by calibrating the metrics obtained in each country against the FIES global reference scale, maintained by FAO. The threshold to classify “moderate or severe” food insecurity corresponds to the severity associated with the item “having to eat less” on the global FIES scale. In simpler terms, a household is classified as moderately or severely food insecure when at least one adult in the household was reported to have been exposed, at times during the year, to low-quality diets and might have been forced to also reduce the quantity of food they would normally eat because of a lack of money or other resources. It is an indicator of a lack of access to food.

Originator: FAO, Statistics Division

Owner: FAO

PREVALENCE OF UNDERNOURISHMENT

Expresses the probability that a randomly selected individual from the population consumes an insufficient quantity of calories to cover their energy requirement for an active and healthy life. The indicator is computed by comparing a probability distribution of habitual daily dietary energy consumption with a threshold level called the minimum dietary energy requirement. Both are based on the notion

of an average individual in the reference population.

Originator: FAO, Statistics Division

Owner: FAO

PRODUCER PRICES

Producer prices are prices received by farmers for primary crops, live animals and livestock primary products as collected at the point of initial sale (prices paid at the farm-gate).

Originator: FAO, Statistics Division

Owner: FAO

PRODUCTION

Figures relate to the total domestic production whether inside or outside the agricultural sector, i.e. they include non-commercial production and production from kitchen gardens. Unless otherwise indicated, production is reported at the farm level for crop and livestock products (i.e. in the case of crops, excluding harvesting losses) and in terms of live weight for fish items (i.e. the actual ex-water weight at time of catch). All data shown relate to total meat production from both commercial and farm slaughter. Data are expressed in terms of dressed carcass weight, excluding offal and slaughter fats. Production of beef and buffalo meat includes veal; mutton and goat meat includes meat from lambs and kids; and pig meat includes bacon and ham in fresh equivalent. Poultry meat includes meat from all domestic birds and refers, wherever possible, to ready-to-cook weight.

Originator: FAO, Statistics Division

Owner: FAO

PRODUCTION, CROPS

Production and crops refer to the actual harvested production from the field or orchard and gardens, excluding harvesting and threshing losses and that part of a crop not harvested for any reason. Production, therefore, includes the quantities of the commodity sold in the market (marketed production) and the quantities consumed or used by the producers (auto-consumption). When the production data available refers to a production period falling into two successive calendar years and it is not possible to allocate the relative production to each of them, it is usual to refer production data to that year into which the bulk of the production falls. Crop production data are recorded in tonnes (t). In many countries, crop production data are obtained as a function of the estimated yield and the total area. If such a compilation method of production statistics is enforced by the country, it must be ensured that the total area does not refer to sown or planted areas, which would then give the biological production, but to the actually harvested area during the year.

Originator: FAO, Statistics Division

Owner: FAO

PROTEIN SUPPLY OF ANIMAL ORIGIN, AVERAGE

National average protein supply (expressed in grams per capita per day) includes the following groups: meat, offals, animal fats and products, milk and products, eggs, fish, seafood and products, aquatic products and other.

Originator: FAO, Statistics Division

Owner: FAO

PROTEIN SUPPLY, AVERAGE

National average protein supply is expressed in grams per capita per day.

Originator: FAO, Statistics Division

Owner: FAO

RECOVERED PAPER

Waste and scraps of paper or paperboard that have been collected for reuse or trade include paper and paperboard that have been used for their original purposes and residues from paper and paperboard production.

Originator: FAO, Forestry Division

Owner: FAO

ROUNDWOOD

All roundwood felled or otherwise harvested and removed is comprised of all wood obtained from removals, i.e. the quantities removed from forests and from trees outside the forest, including wood recovered from natural, felling and logging losses during the period, calendar year or forest year. It includes all wood removed with or without bark, including wood removed in its round form, or split, roughly squared or in other form (e.g. branches, roots, stumps and burls, where these are harvested) and wood that is roughly shaped or pointed. It is an aggregate comprising wood fuel, including wood for charcoal and industrial roundwood (wood in the rough). It is reported in cubic metres solid volume underbark (i.e. excluding bark).

Originator: FAO, Forestry Division

Owner: FAO

ROOTS AND TUBERS

Roots and tubers are plants yielding starchy roots, tubers, rhizomes, corms and stems. The denomination "roots and tubers" excludes crops that are cultivated mainly for feed (mangolds, swedes) or for processing into sugar (sugar beets), and those classified as "roots, bulb and tuberous vegetables" (onions, garlic and beets).

Originator: FAO, Statistics Division

Owner: FAO

SAWNWOOD

Wood that has been produced from both domestic and imported roundwood, either by sawing lengthways or by a profile-chipping process and that exceeds 6 mm in thickness is sawnwood.

Originator: FAO, Forestry Division

Owner: FAO

STARCHY ROOTS

Starchy roots include cassava and products, potatoes and products, sweet potatoes and other roots.

Originator: FAO, Statistics Division

Owner: FAO

STUNTING, CHILDREN UNDER 5 YEARS OF AGE

Height-for-age less than -2 standard deviations of the World Health Organization (WHO) Child Growth Standards median, among children aged 0–59 months

Originator: UNICEF

Owner: UNICEF/WHO/The World Bank: Joint child malnutrition estimates

SUGAR CROPS

Sugar crops include sugar beet, sugar cane, sugar crops nes.

Originator: FAO, Statistics Division

Owner: FAO

UNDERNOURISHED, NUMBER OF PEOPLE

The number of people undernourished is obtained by multiplying estimates of the proportion of undernourished for each country by estimates of the total population. Undernourishment refers to the condition of people whose dietary energy consumption is continuously below a minimum dietary energy requirement for maintaining a healthy life and carrying out light physical activity.

Originator: FAO, Statistics Division

Owner: FAO

VEGETABLE OILS

Vegetable oils are the oil equivalent of oil crops, which include seeds, nuts, oil palm fruit, olives and soybeans.

Originator: FAO, Statistics Division

Owner: FAO

WATER STRESS

Water stress is the ratio between total freshwater withdrawn by all major sectors and total renewable freshwater resources, after taking into account environmental water requirements.

Originator: FAO, Land and Water Division (AQUASTAT)

Owner: FAO

WOOD CHARCOAL

Wood carbonized by partial combustion or by heat from external sources is wood charcoal. It includes charcoal used as a fuel or for other uses, e.g. as a reduction agent in metallurgy or as an absorption or filtration medium.

Originator: FAO, Forestry Division

Owner: FAO

WOOD FUEL

Roundwood that will be used as fuel for purposes such as cooking, heating or power production is wood fuel. This includes wood harvested from main stems, branches and other parts of trees (where these are harvested for fuel) and wood that will be used for the production of charcoal (e.g. in pit kilns and portable ovens), wood pellets and other agglomerates. It also includes wood chips to be used for fuel that are made directly (i.e. in the forest) from roundwood. It excludes wood charcoal, pellets and other agglomerates. It is reported in cubic metres solid volume underbark (i.e. excluding bark).

Originator: FAO, Forestry Division

Owner: FAO

WOOD PELLETS

Wood pellets are made from wood agglomerates produced from co-products (such as cutter shavings, sawdust or chips) of the mechanical wood processing industry, furniture-

making industry or other wood transformation activities. They are produced either directly by compression or by the addition of a binder in a proportion not exceeding 3 percent by weight. Such pellets are cylindrical, with a diameter not exceeding 25 mm and a length not exceeding 100 mm. They are assumed to have 8 percent moisture content.

Originator: FAO, Forestry Division

Owner: FAO

WOOD PULP

Wood pulp is fibrous material prepared from pulpwood, wood chips, particles or residues by a mechanical and/or chemical process for further manufacture into paper, paperboard, fibreboard or other cellulose products. It is an aggregate comprising mechanical wood pulp, semi-chemical wood pulp, chemical wood pulp and dissolving wood pulp. It is reported in metric tonnes air-dry weight (i.e. with 10 percent moisture content).

Originator: FAO, Forestry Division

Owner: FAO

WOOD-BASED PANELS

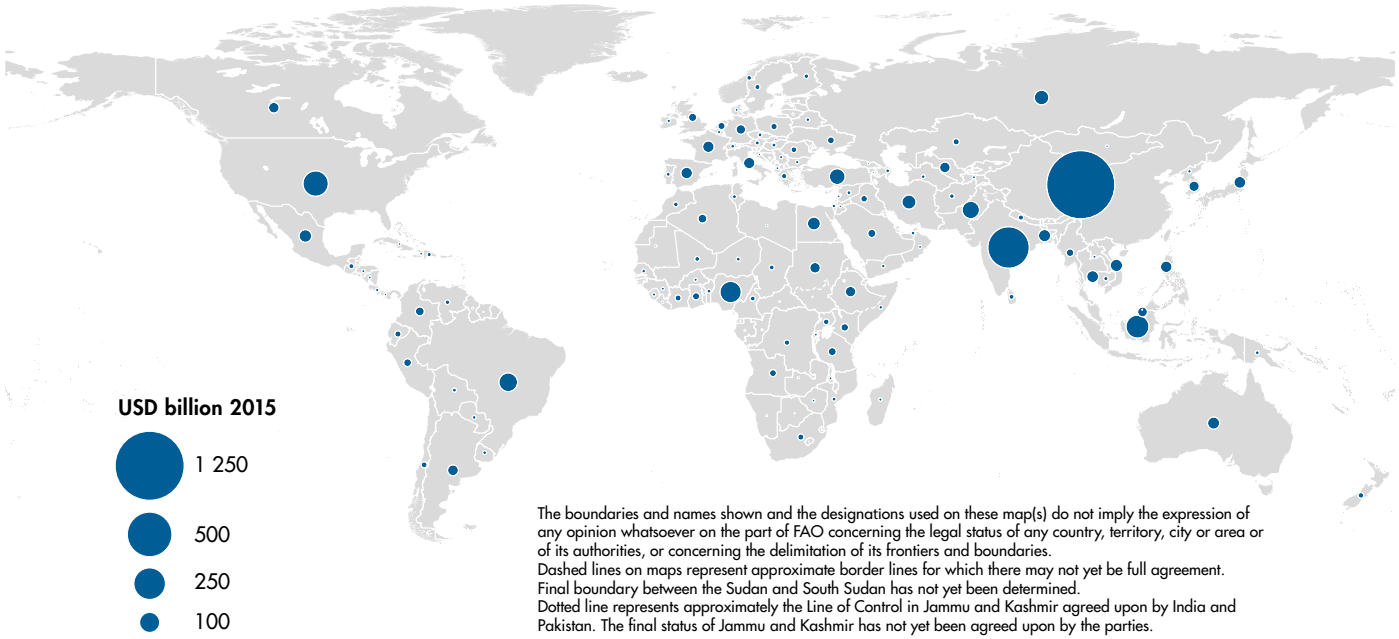
This product category is an aggregate comprising veneer sheets, plywood, particle board and fibreboard. It is reported in cubic metres solid volume.

Originator: FAO, Forestry Division

Owner: FAO

ANNEX 3:
FOOD AND AGRICULTURE MAPS

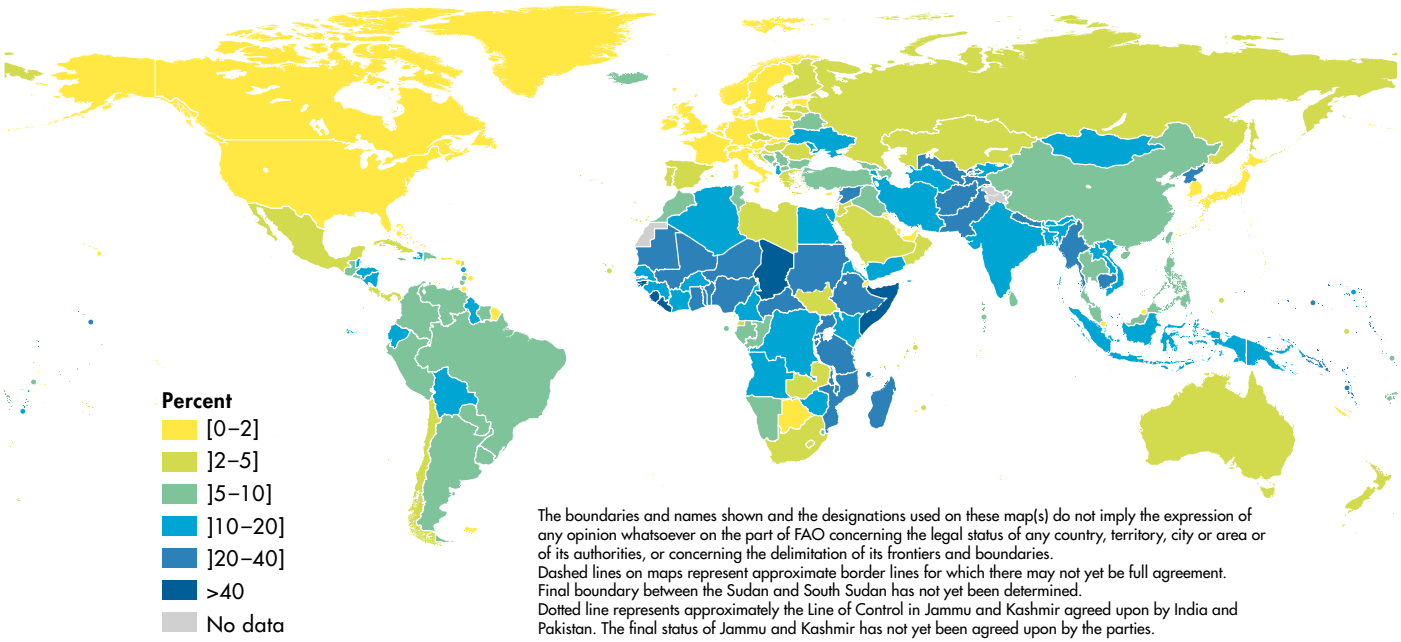
MAP 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING BY REGION (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Macro Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/MK based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map01

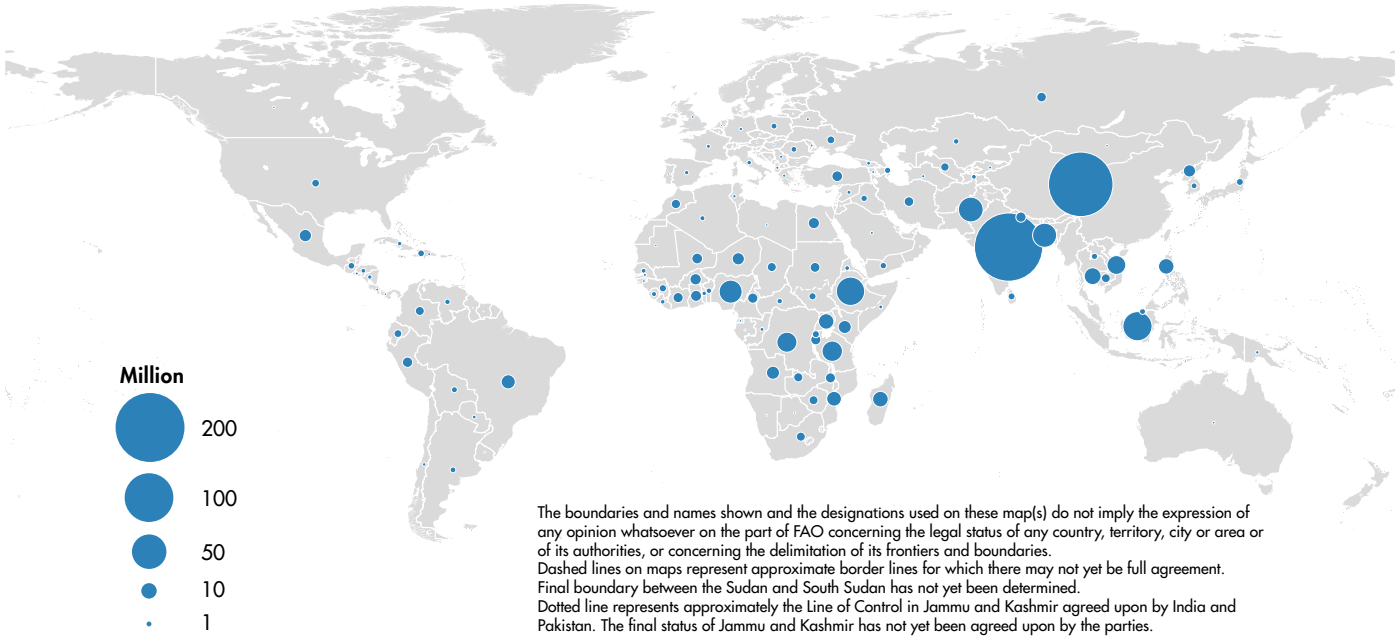
MAP 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (2021, USD 2015 PRICES)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Macro Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/MK based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map02

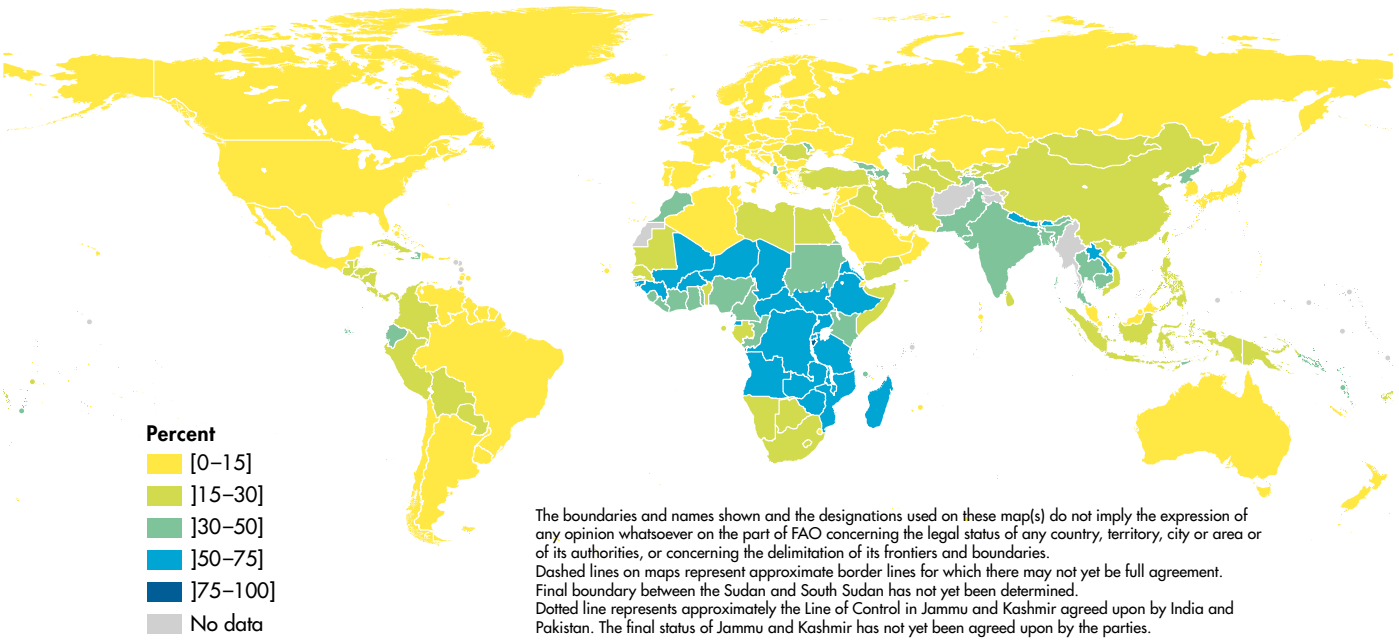
MAP 3.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map03

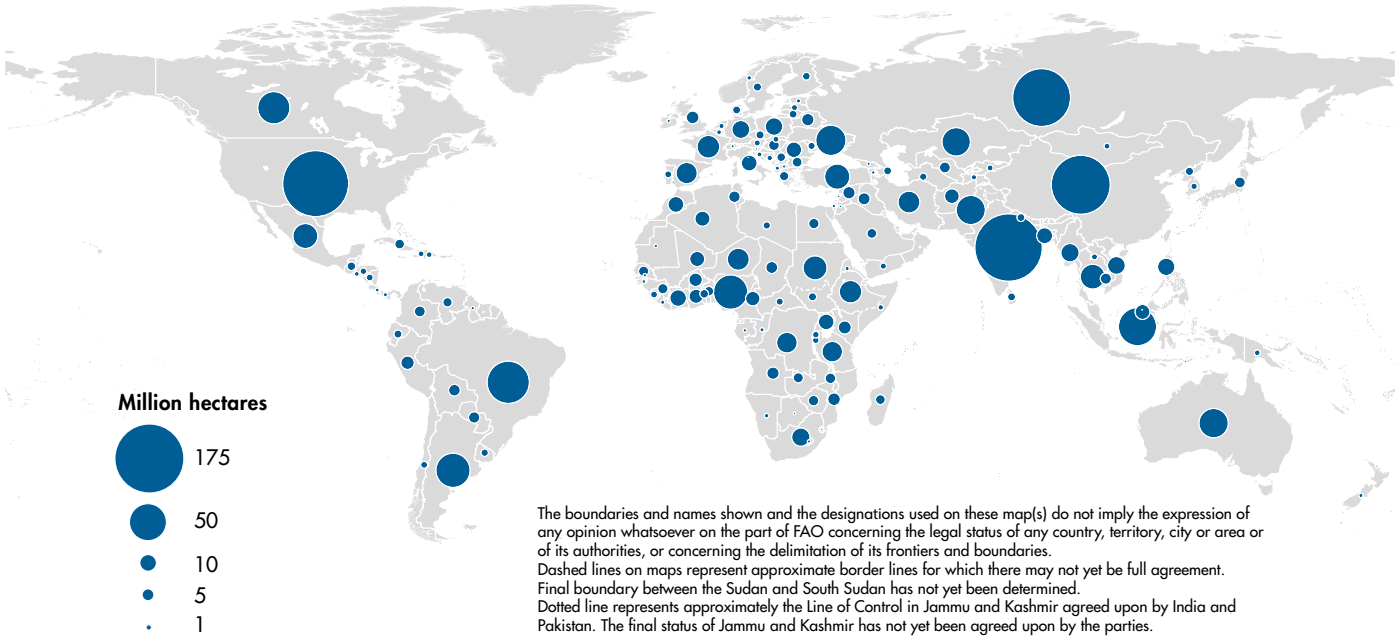
MAP 4.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map04

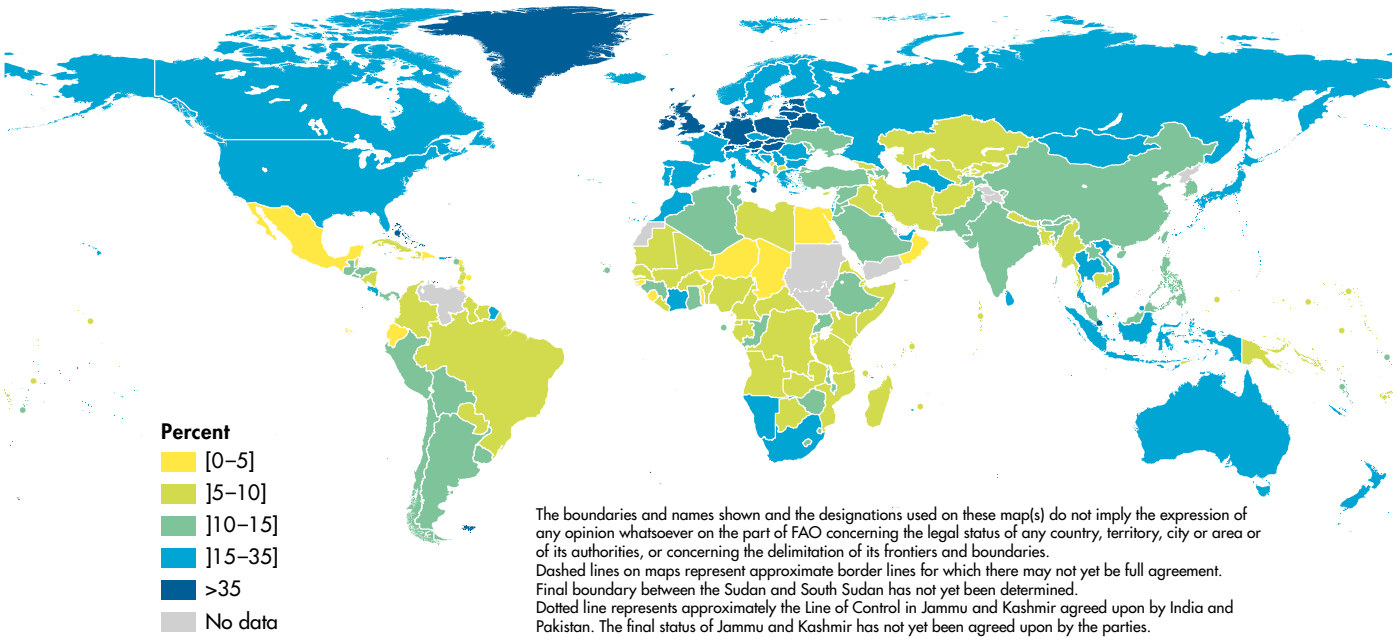
MAP 5.
CROPLAND AREA (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map05

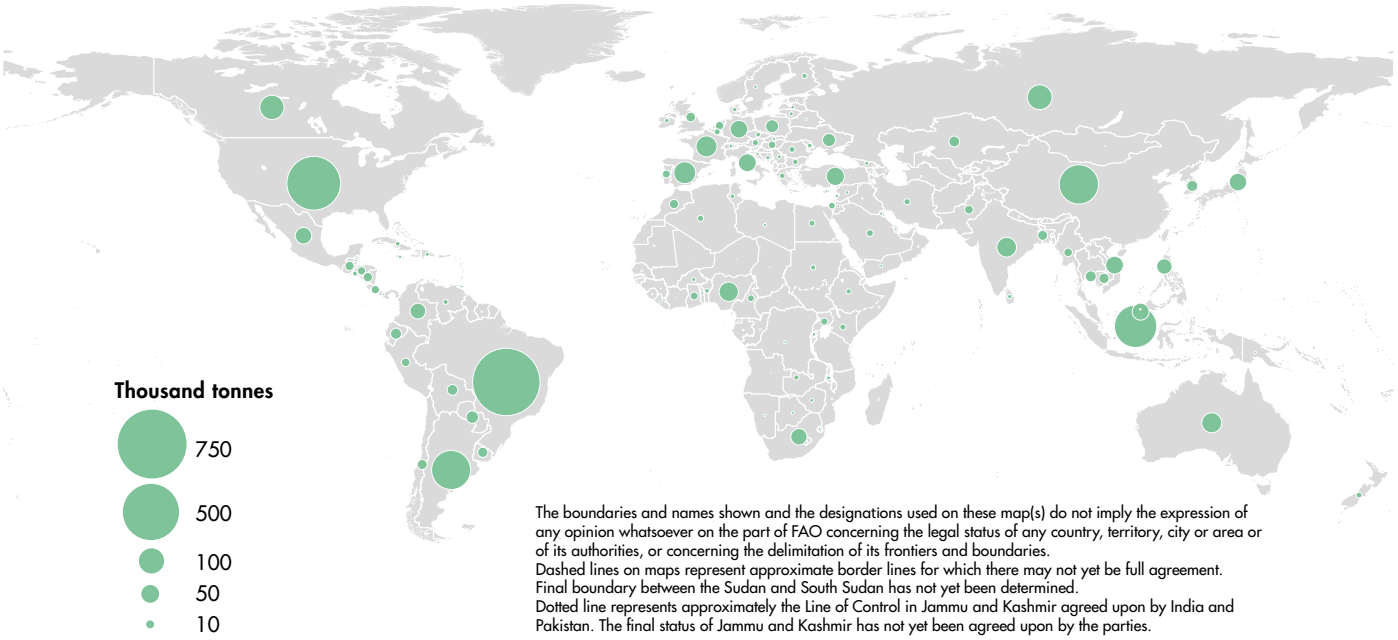
MAP 6.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (2021, USD 2015 PRICES)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Capital Stock. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CS based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map06

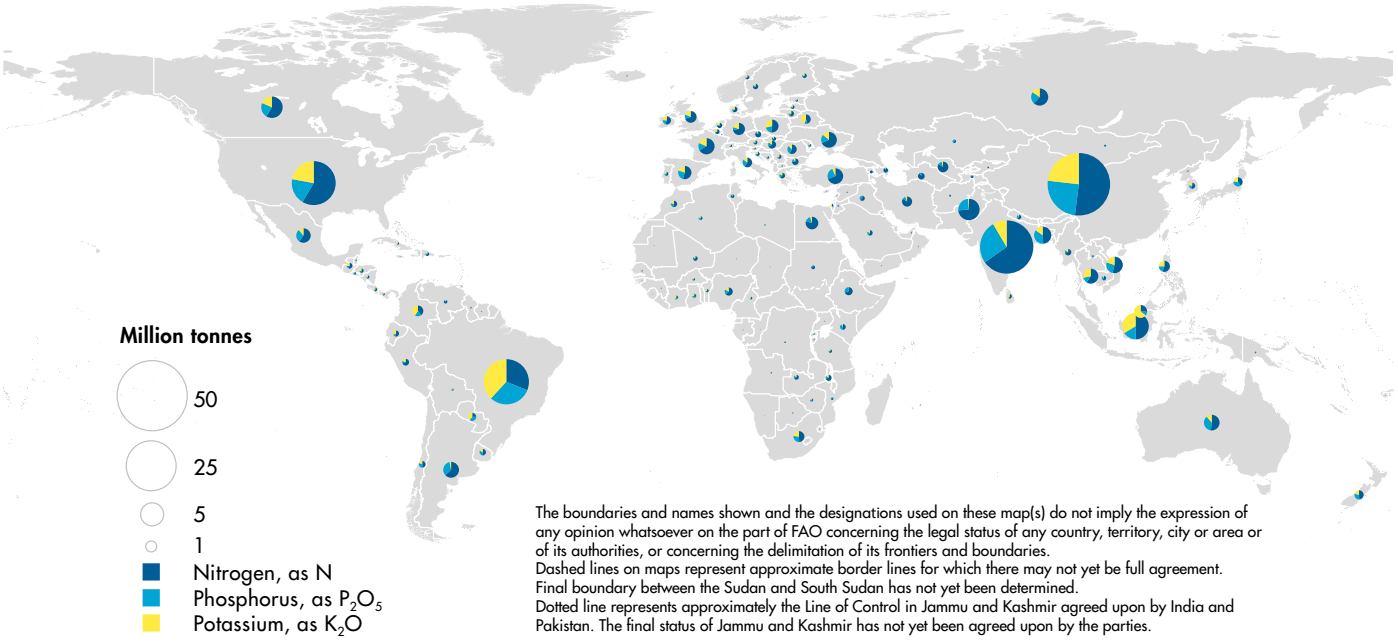
MAP 7.
PESTICIDE USE (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Pesticides Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RP based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map07

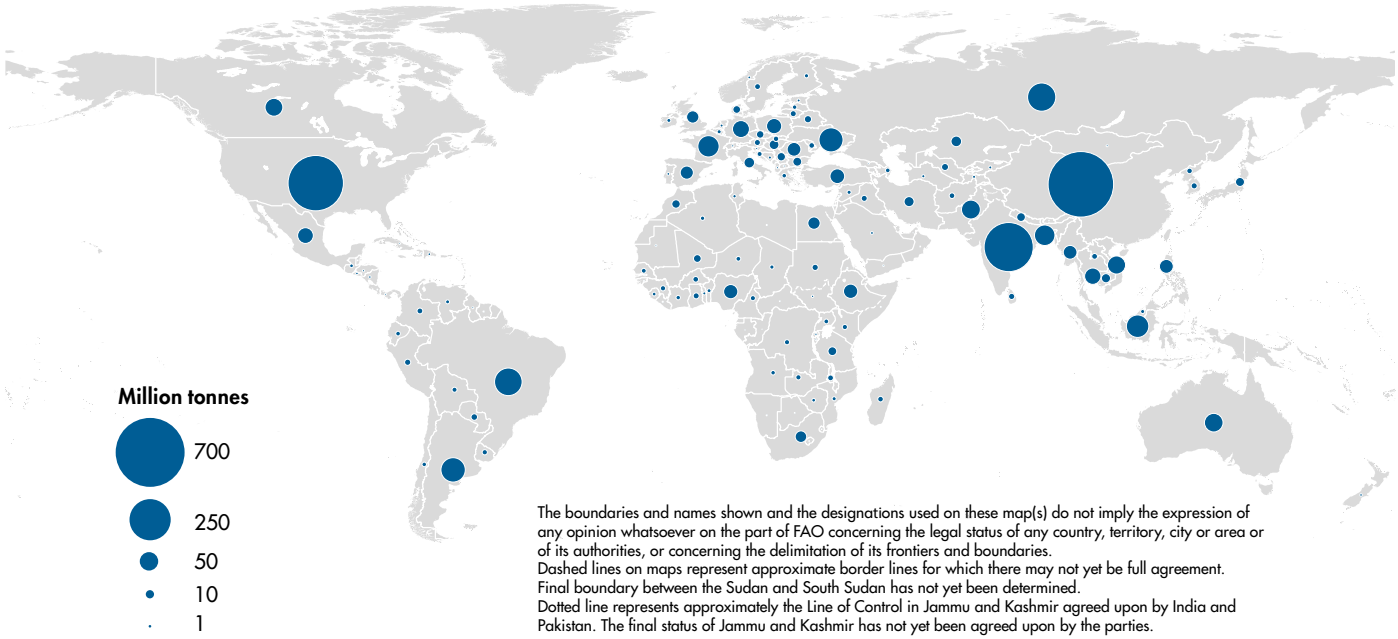
MAP 8.
INORGANIC FERTILIZER USE (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Fertilizers by Nutrient. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RFN based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map08

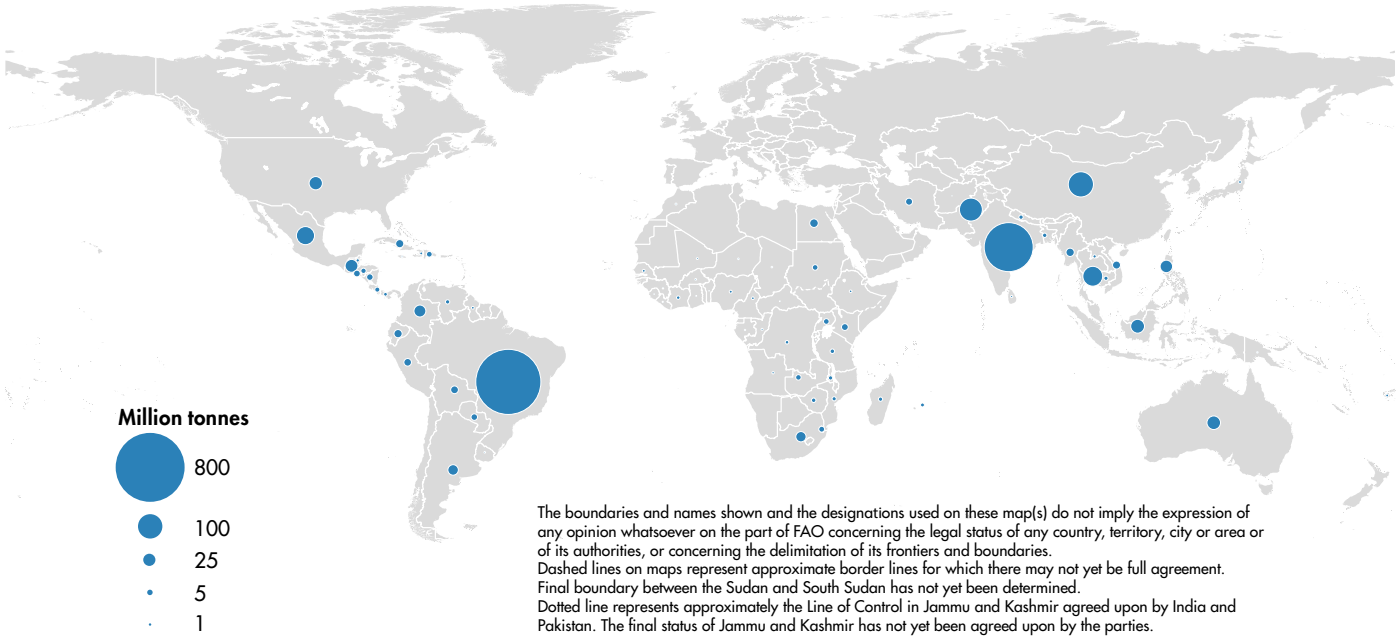
MAP 9.
PRODUCTION OF CEREALS (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map09

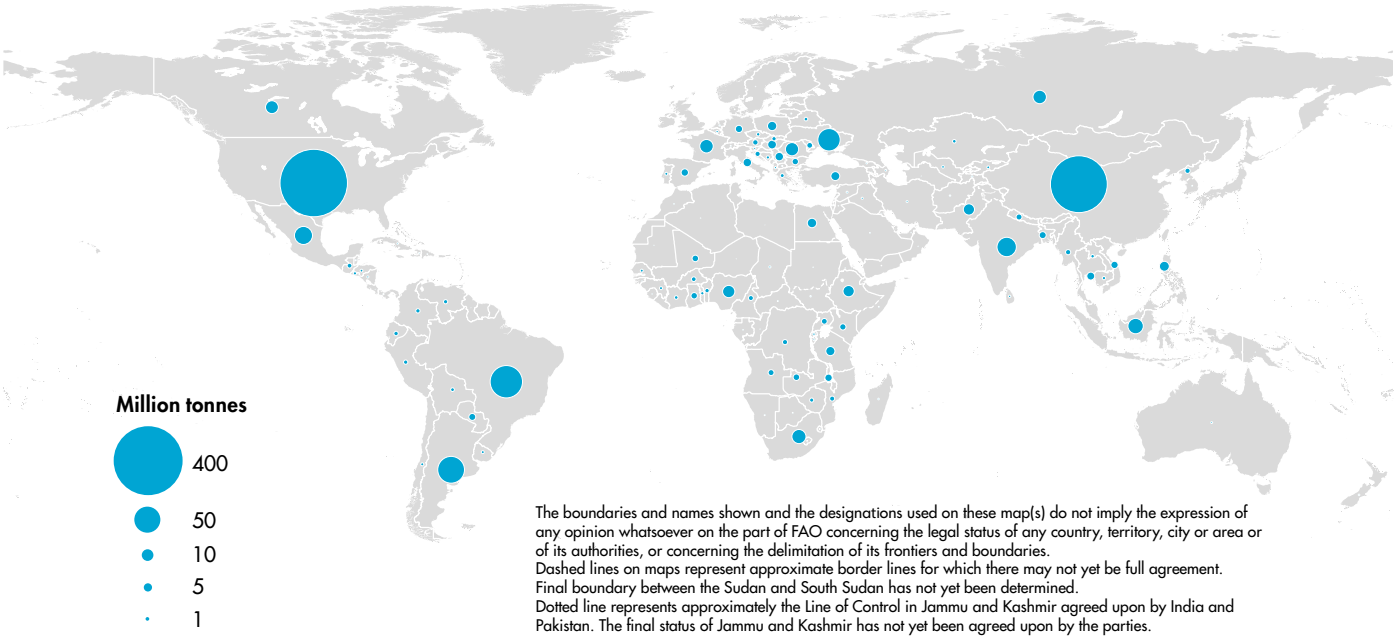
MAP 10.
PRODUCTION OF SUGAR CANE (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map10

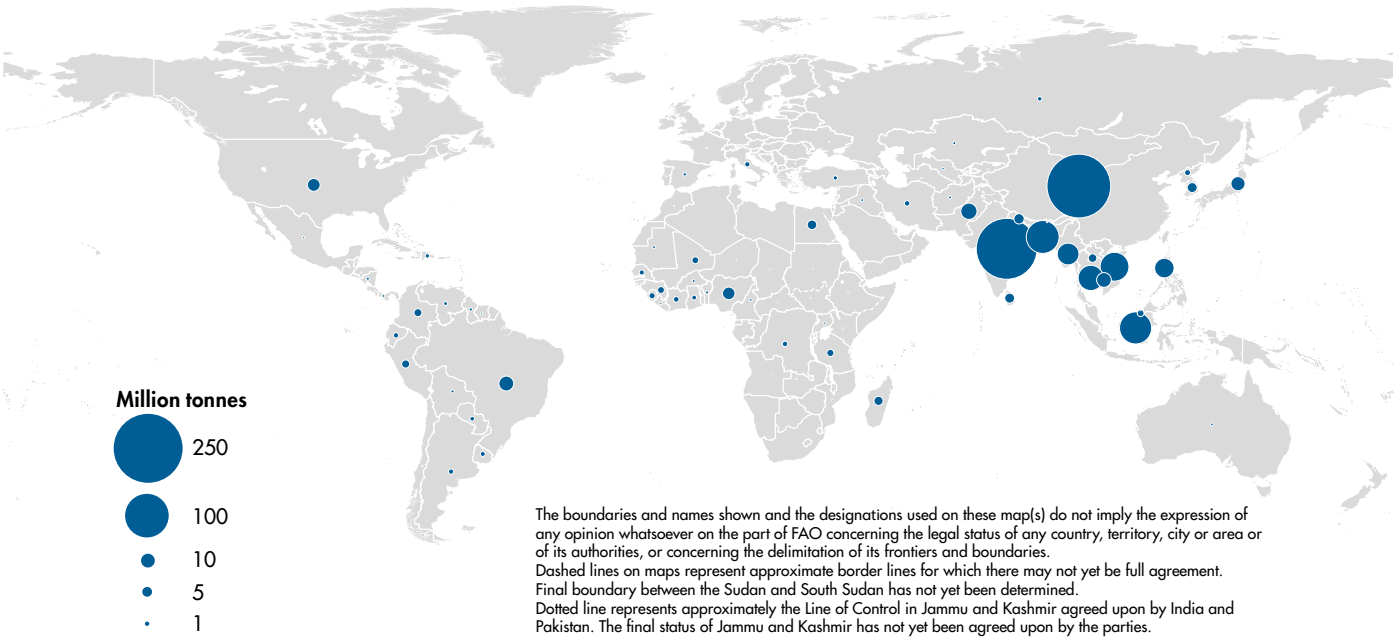
MAP 11.
PRODUCTION OF MAIZE (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map11

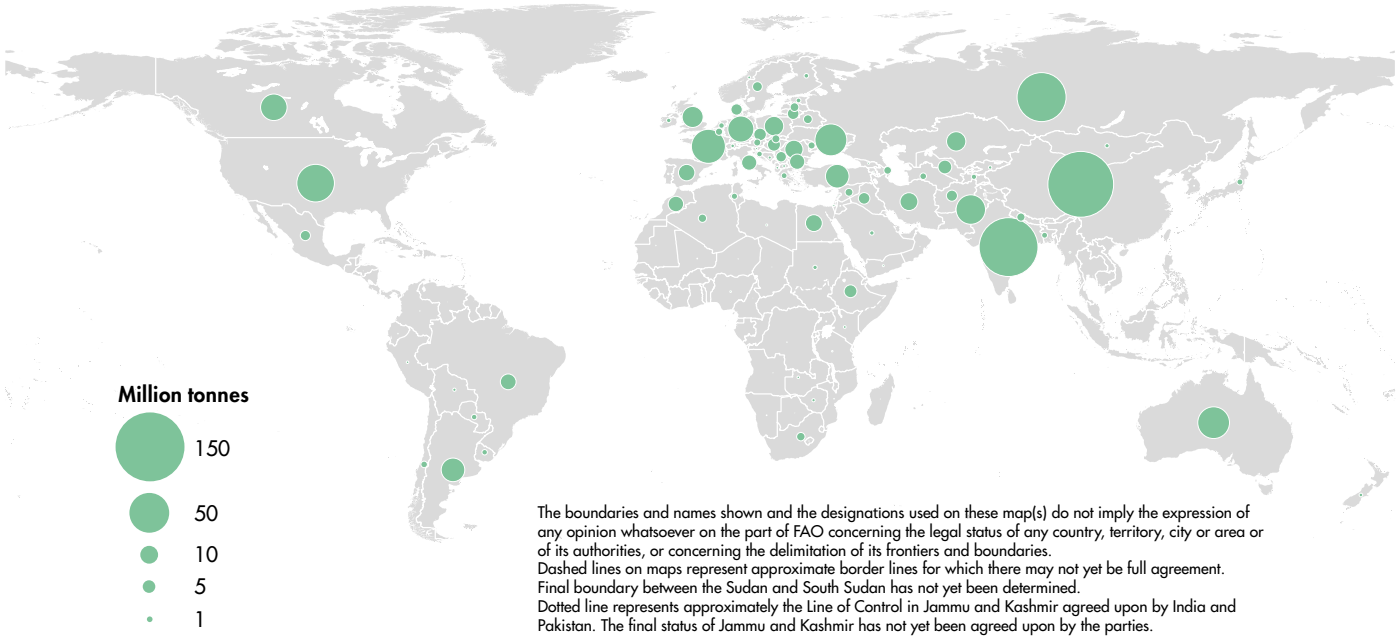
MAP 12.
PRODUCTION OF RICE (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map12

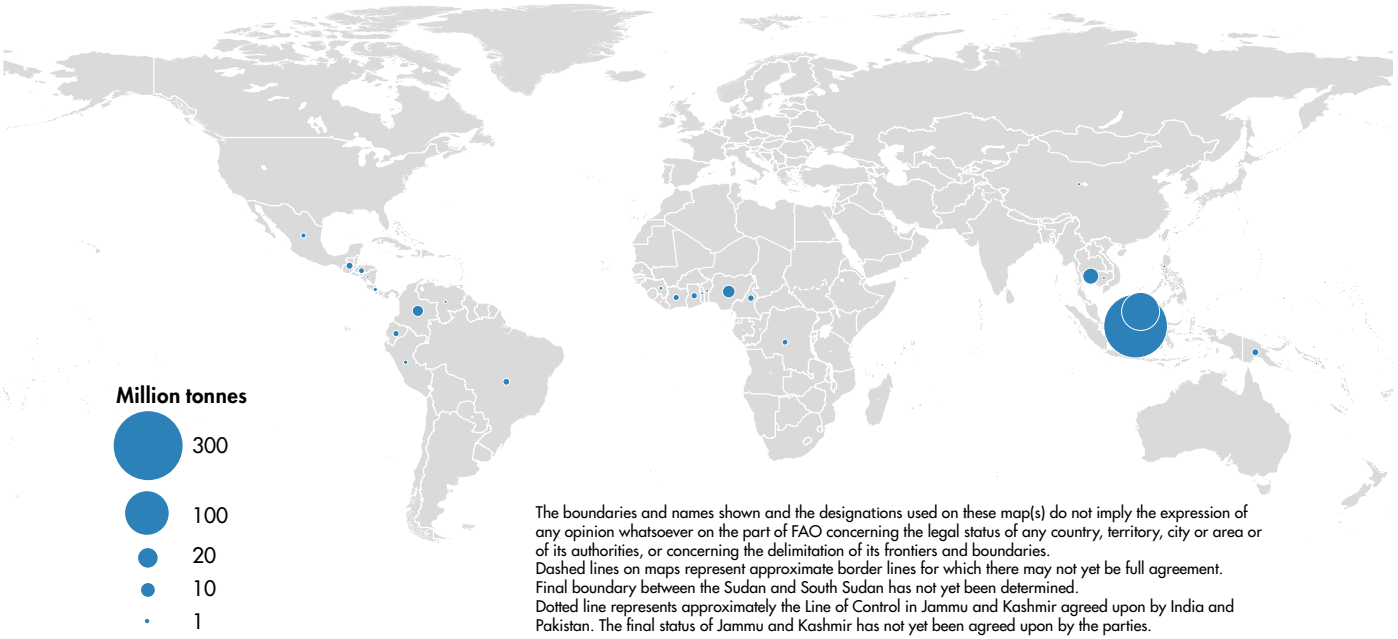
MAP 13.
PRODUCTION OF WHEAT (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map13

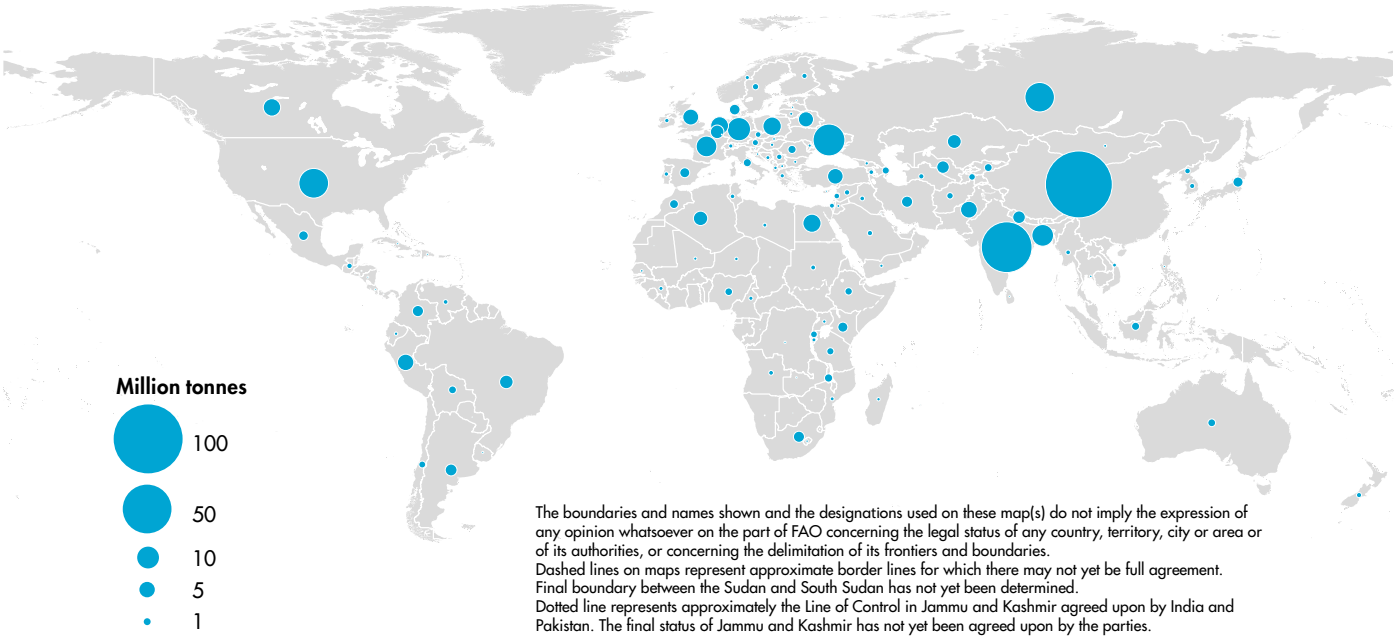
MAP 14.
PRODUCTION OF OIL PALM FRUIT (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map14

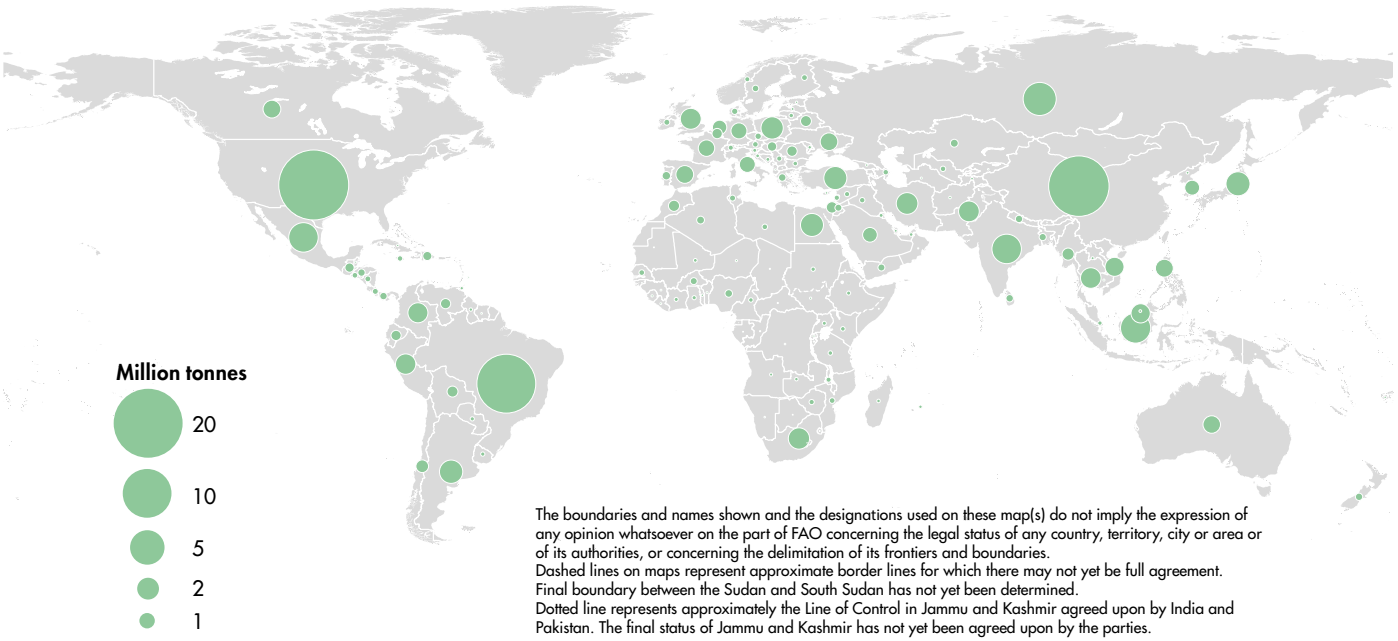
MAP 15.
PRODUCTION OF POTATOES (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map15

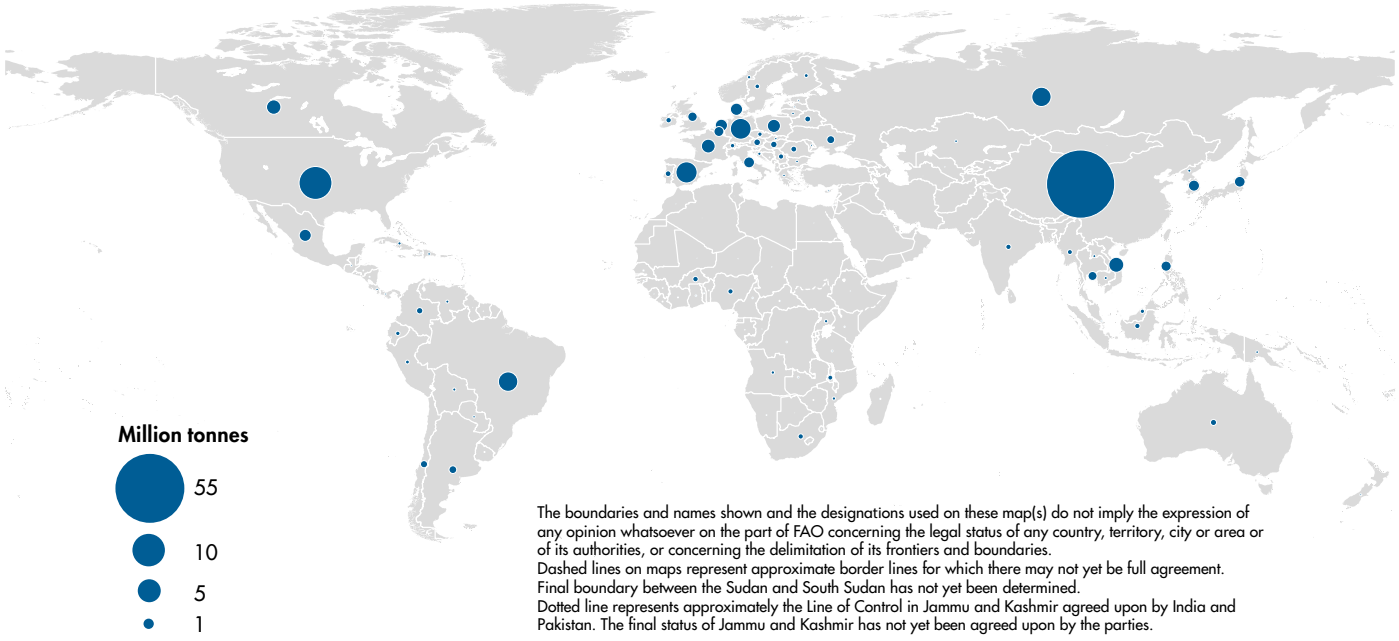
MAP 16.
PRODUCTION OF CHICKEN MEAT (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map16

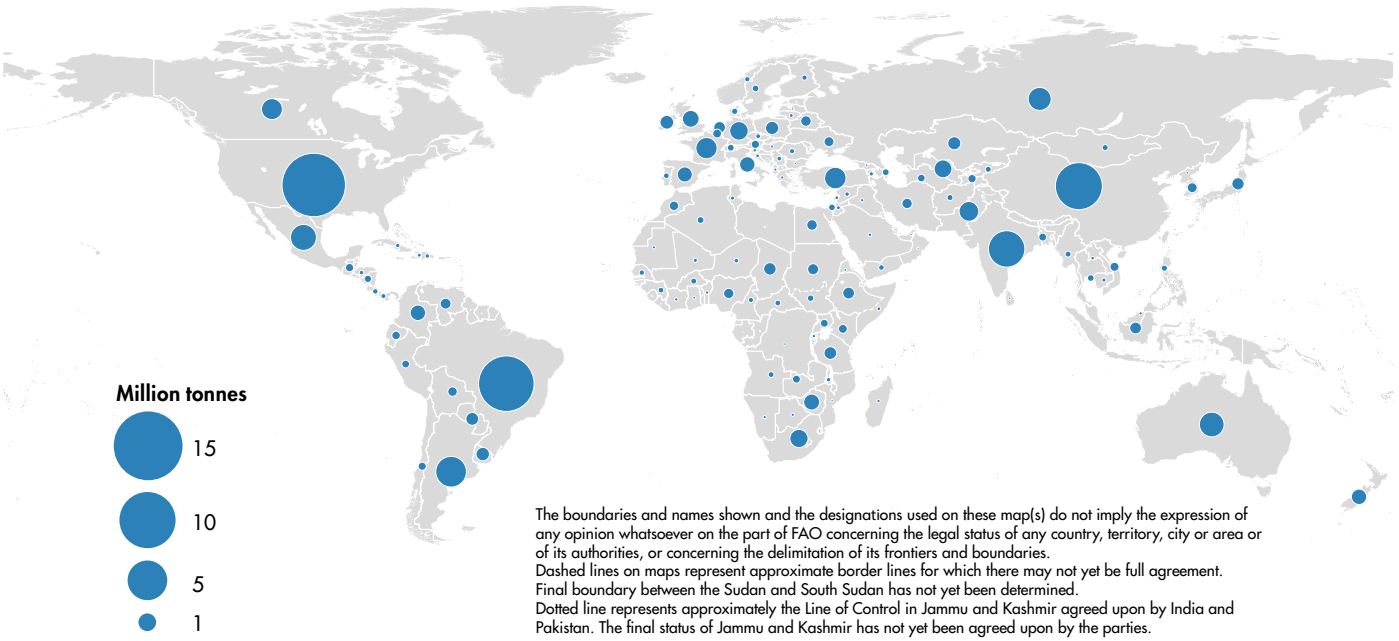
MAP 17.
PRODUCTION OF PIG MEAT (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map17

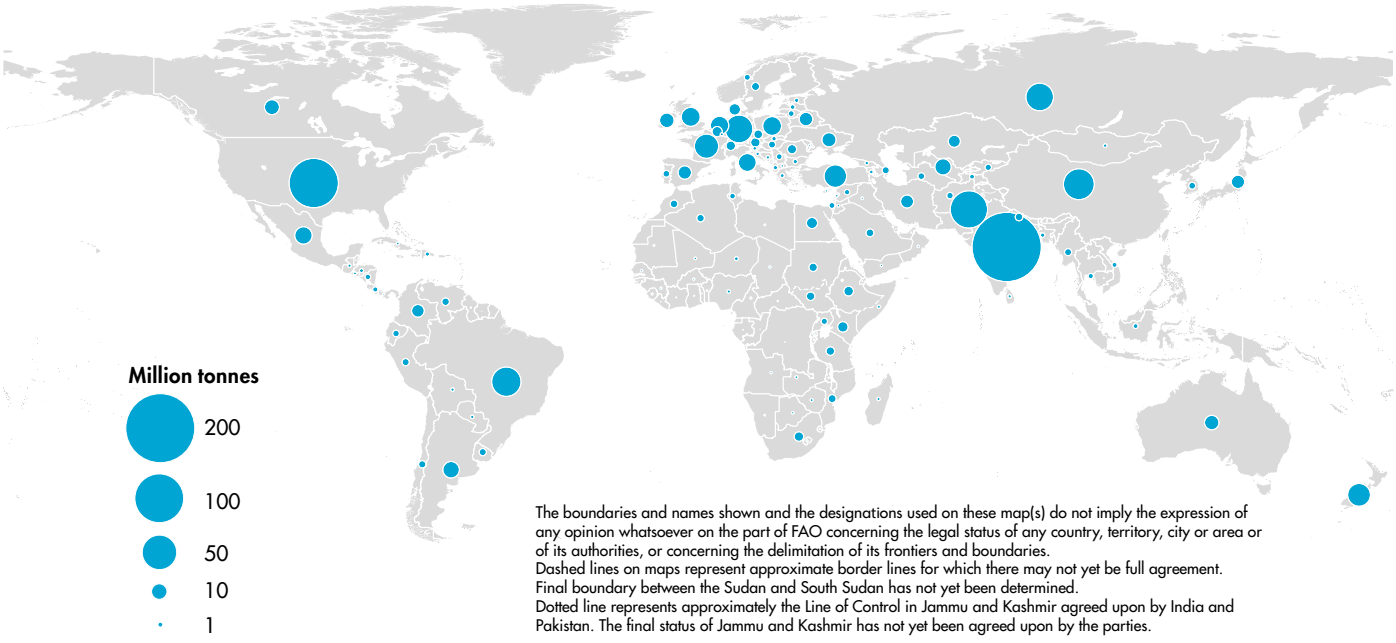
MAP 18.
PRODUCTION OF CATTLE MEAT (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source:FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map18

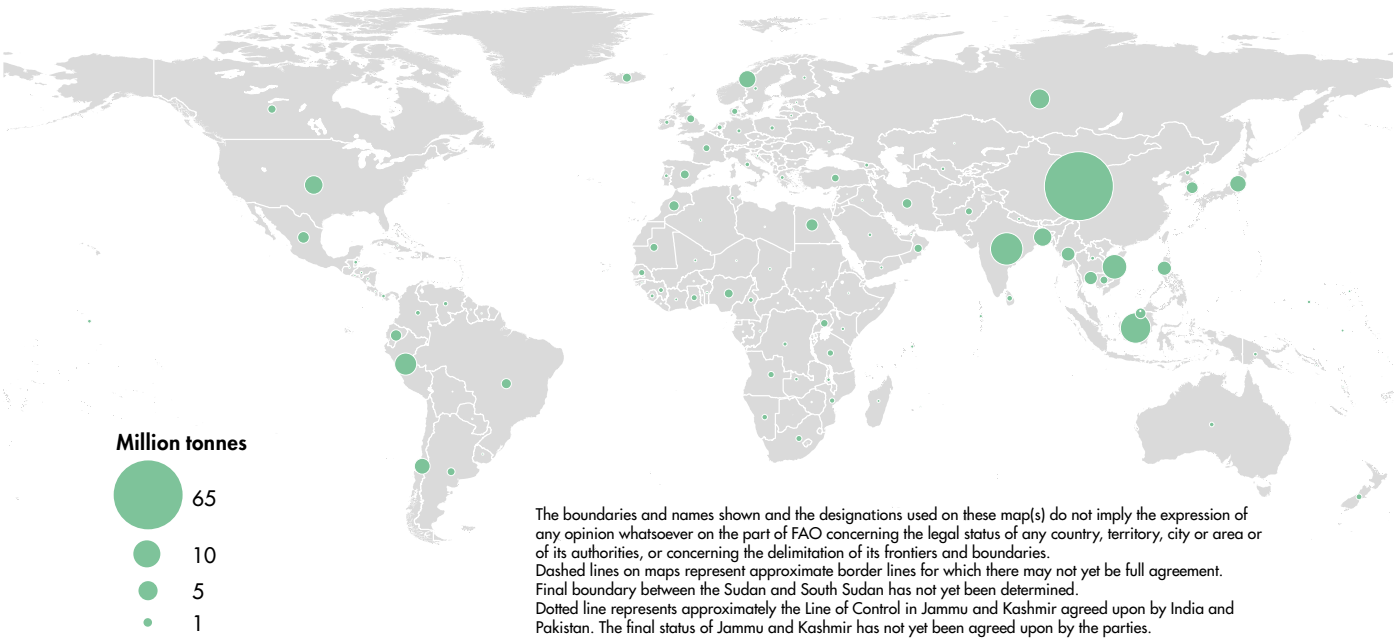
MAP 19.
PRODUCTION OF BOVINE MILK (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Note: Bovine milk comprises cattle and buffalo milk.
Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map19

MAP 20.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION (2021)

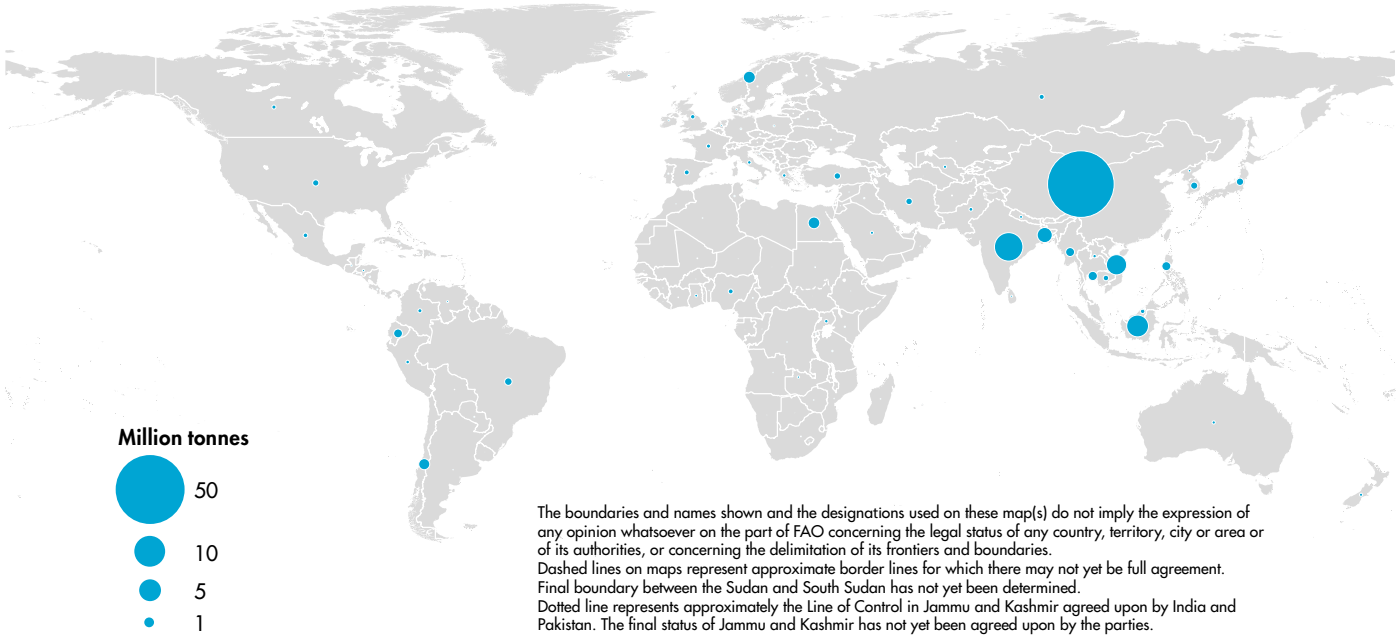


The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Note: Excludes aquatic mammals, crocodiles, alligators and caimans, pearls and shells, corals, sponges and algae.

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023].
https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map20

MAP 21.
AQUACULTURE PRODUCTION (2021)

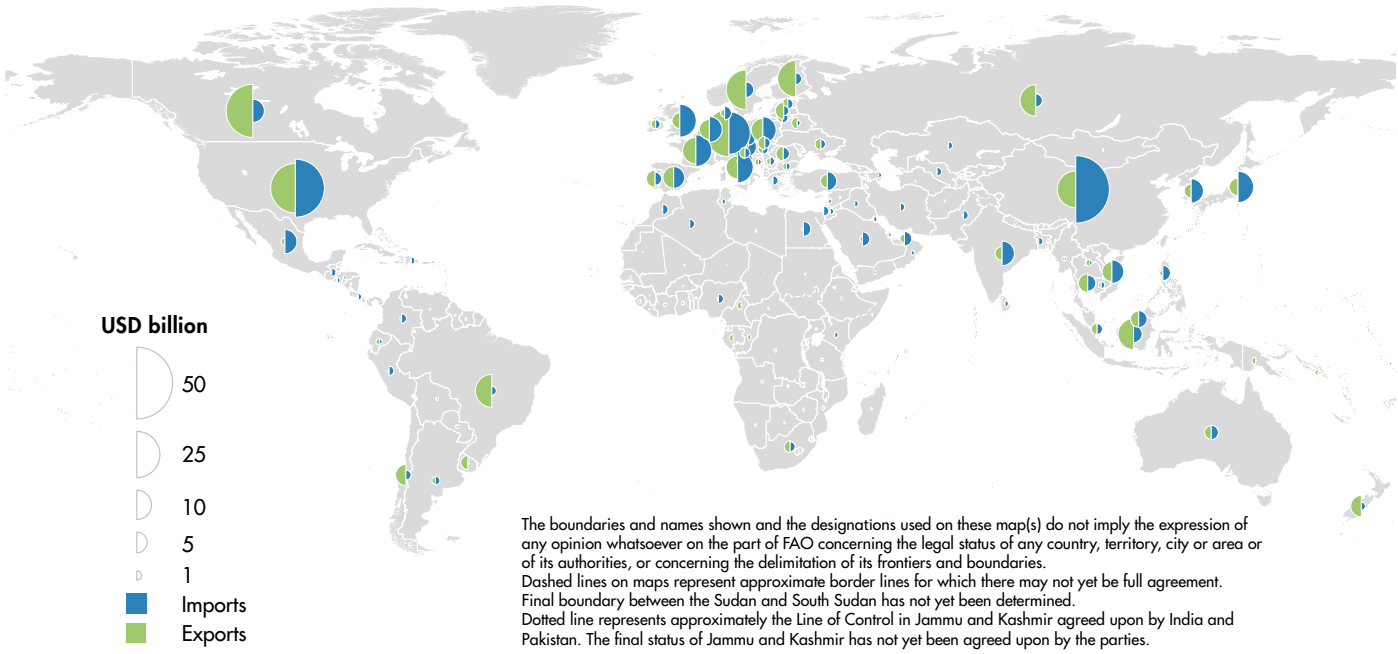


The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Note: Excludes aquatic mammals, crocodiles, alligators and caimans, pearls and shells, corals, sponges and algae.

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map21

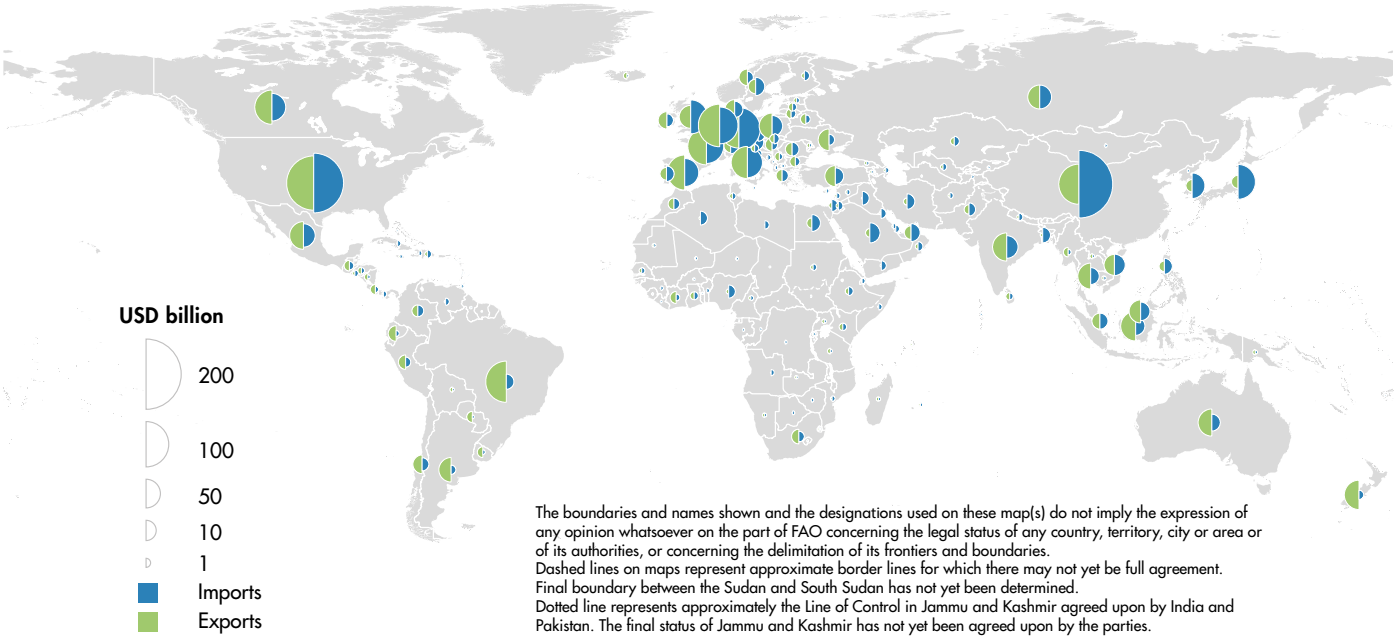
MAP 22.
IMPORTERS AND EXPORTERS OF FOREST PRODUCTS (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map22

MAP 23.
IMPORTERS AND EXPORTERS OF FOOD (2021)

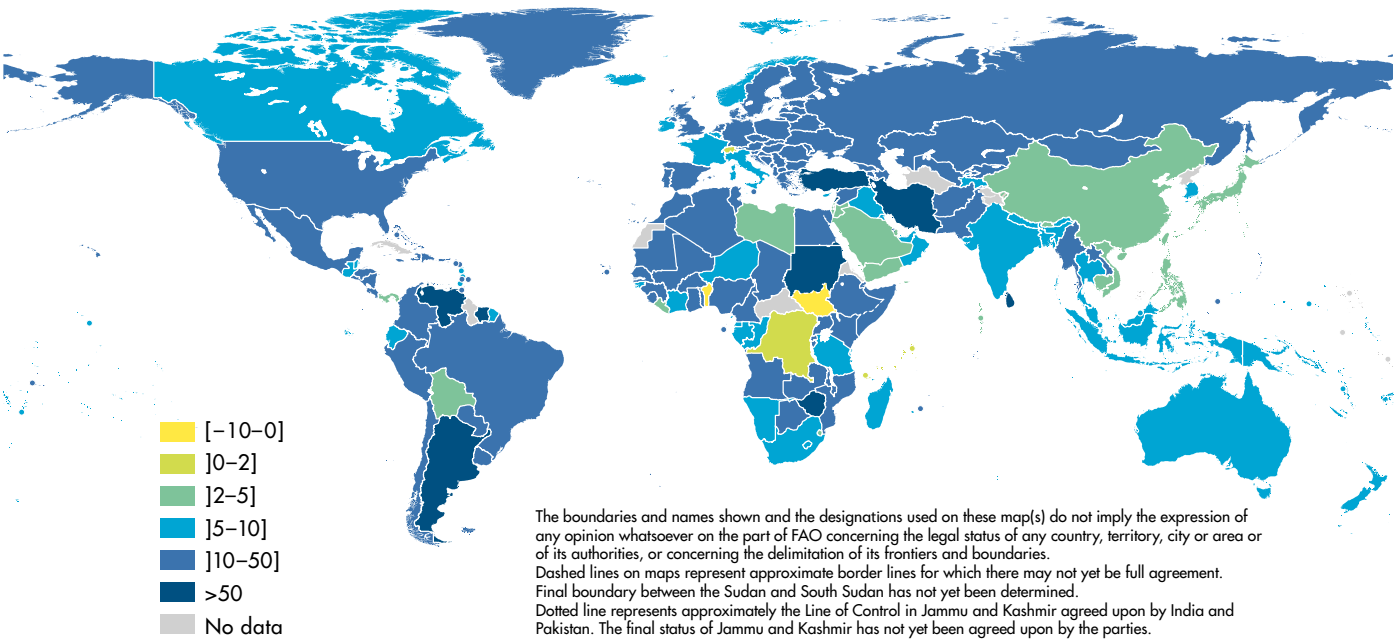


The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Note: Values for fish exclude trade of aquatic mammals, crocodiles, alligators and caimans, fishmeal, fish oil, ornamental fish, fish for culture and algae.

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/trade/trade_value based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map23

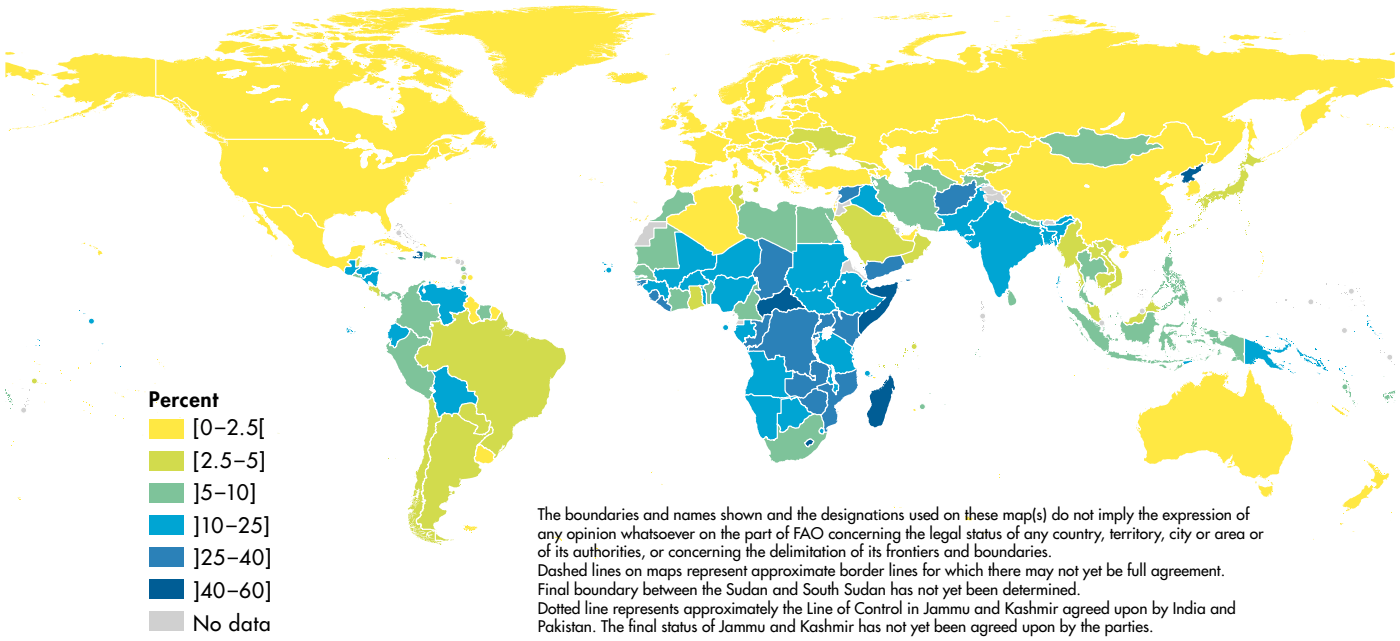
MAP 24.
INFLATION IN FOOD CONSUMER PRICES (2022 AVERAGE)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Consumer Price Indices. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CP based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map24

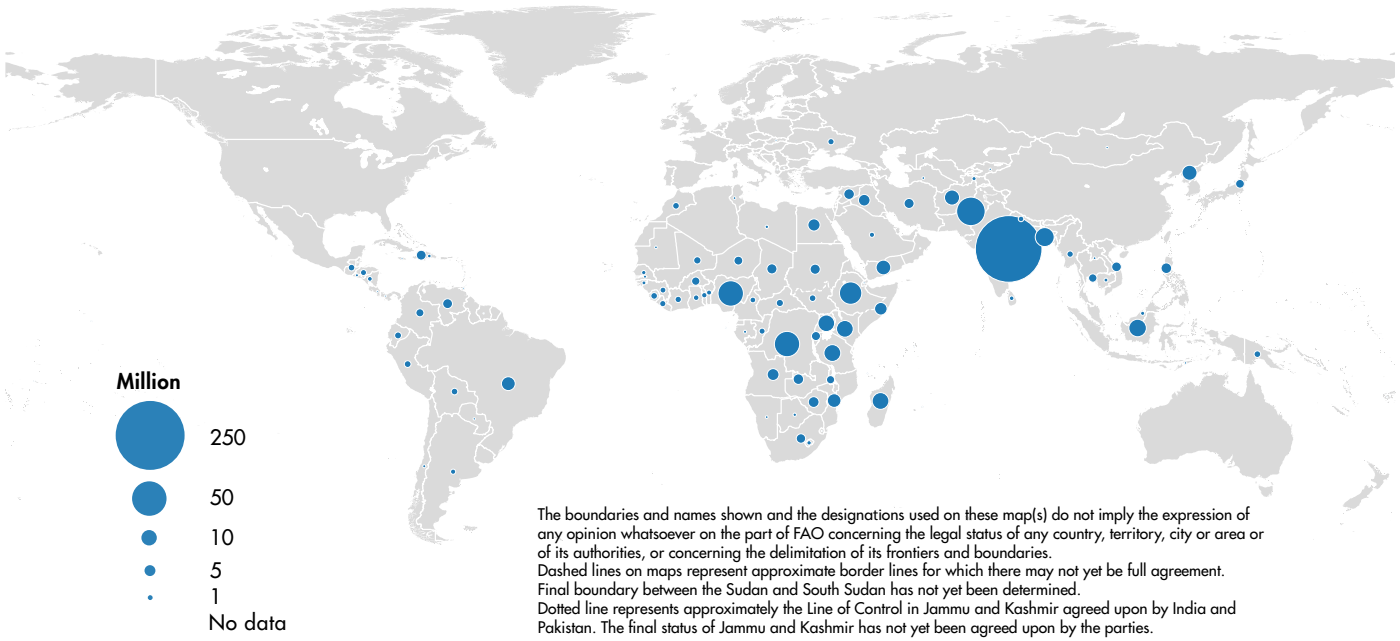
MAP 25.
PREVALENCE OF UNDERNOURISHMENT (2020–2022 AVERAGE)



Note: The values for 2020 to 2022 are projections based on the projected midranges.

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map25

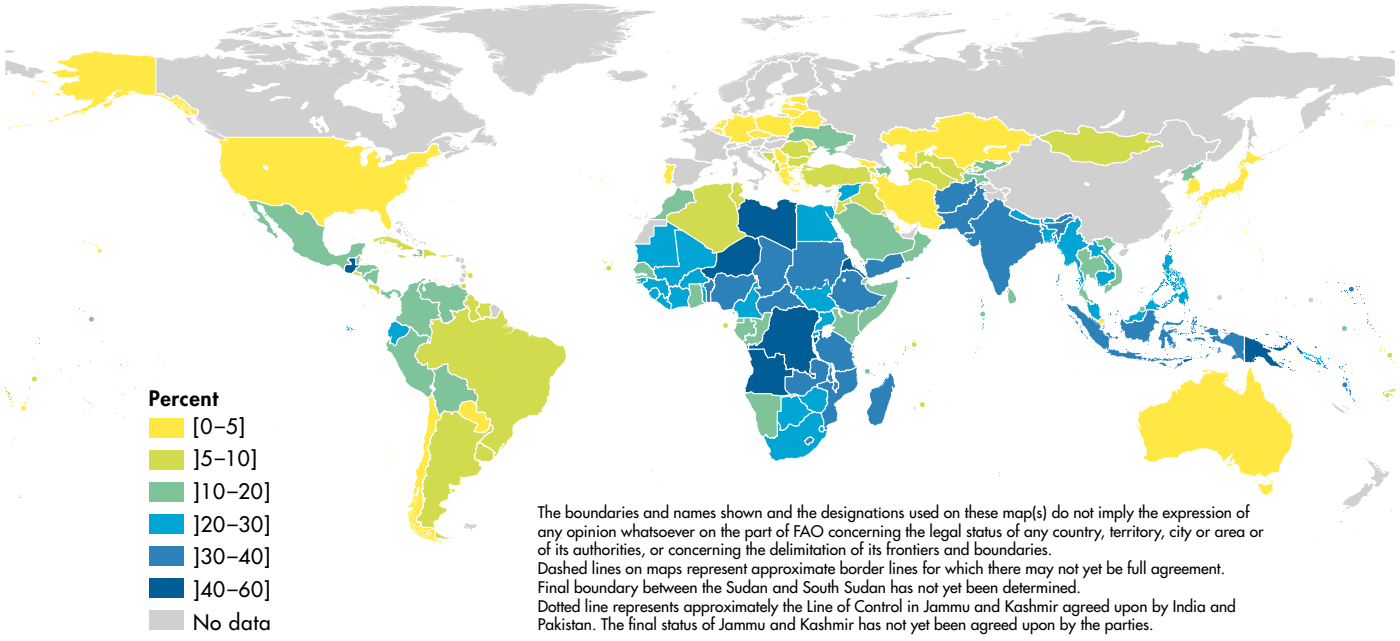
MAP 26.
NUMBER OF UNDERNOURISHED PEOPLE (2020–2022 AVERAGE)



Note: The values for 2020 to 2022 are projections based on the projected midranges.

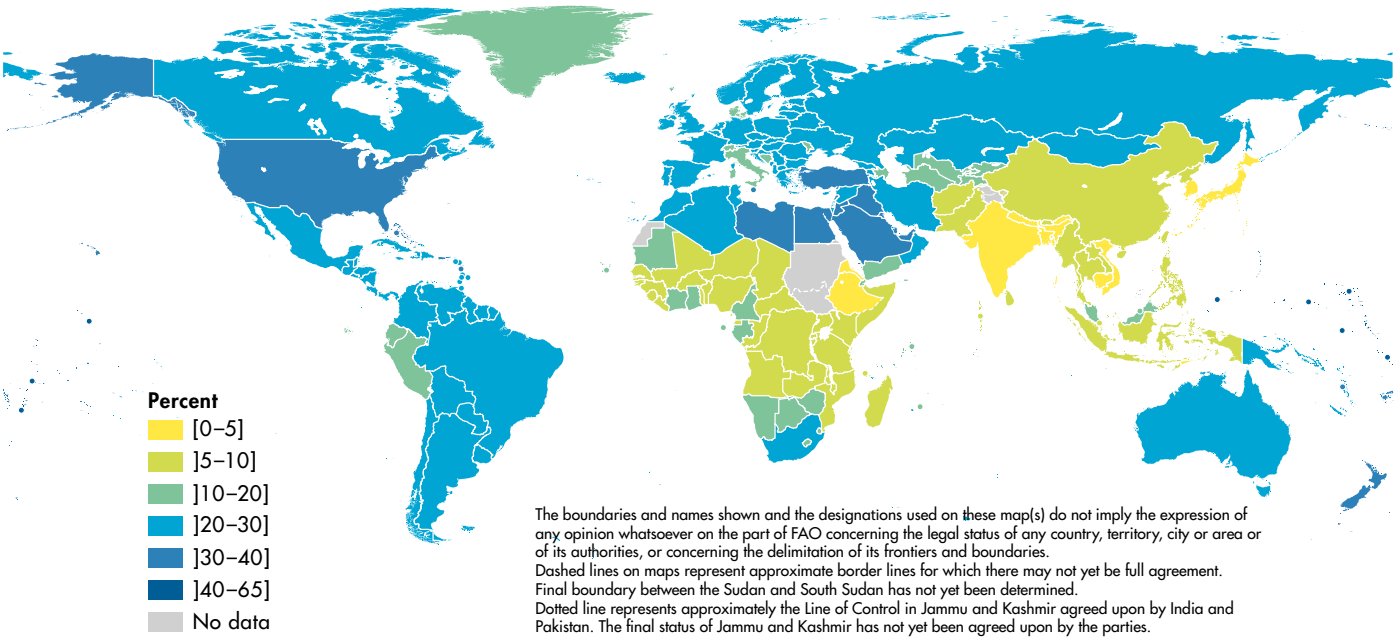
Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map26

MAP 27.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (2022)



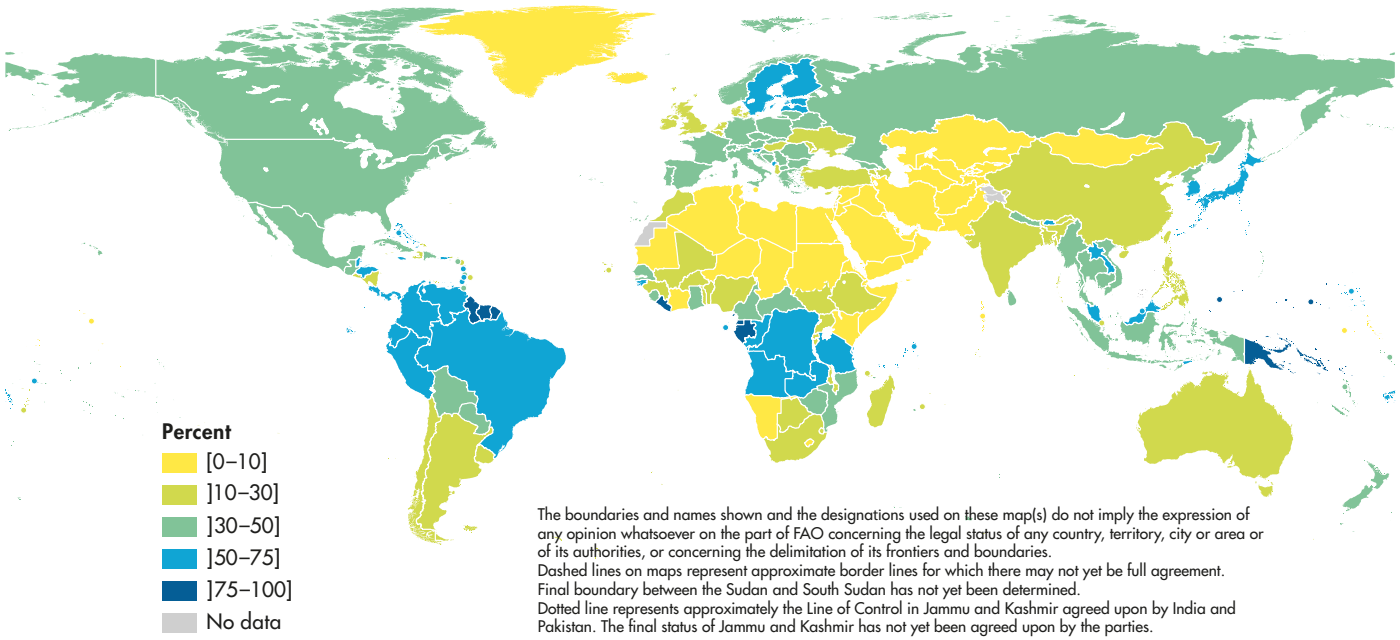
Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map27

MAP 28.
PREVALENCE OF OBESITY IN THE ADULT POPULATION (2016)



Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map28

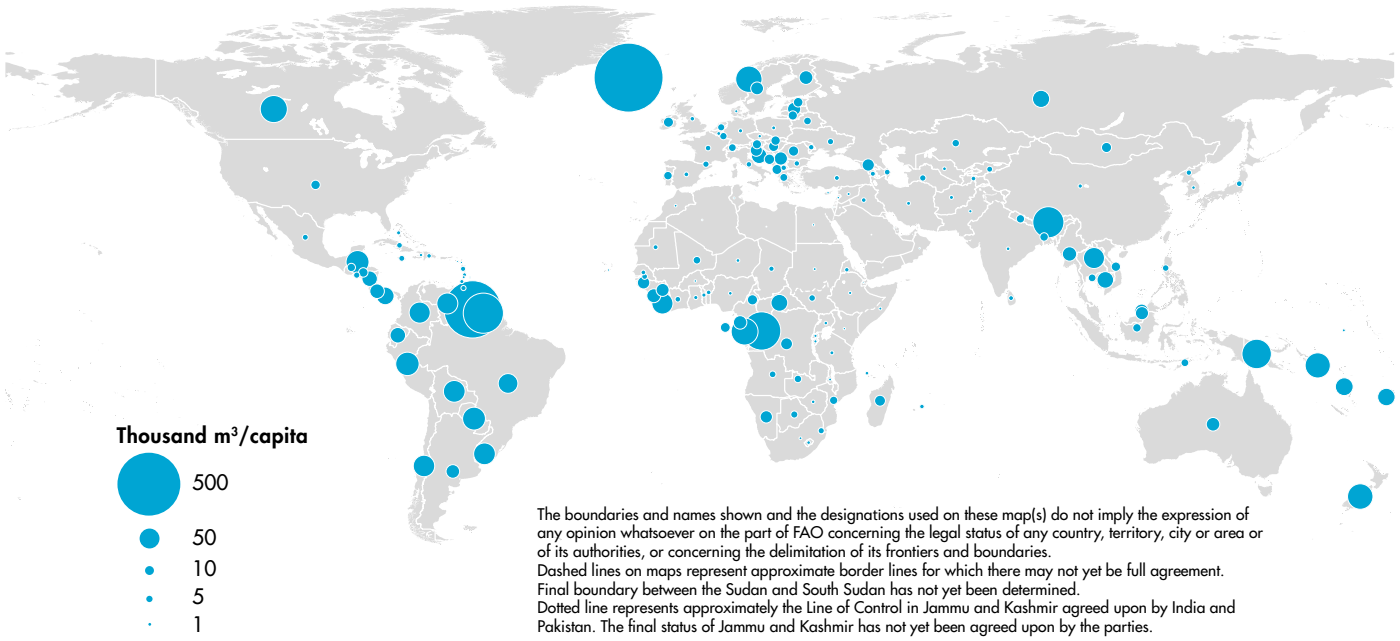
MAP 29.
SHARE OF FOREST AREA IN LAND AREA (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map29

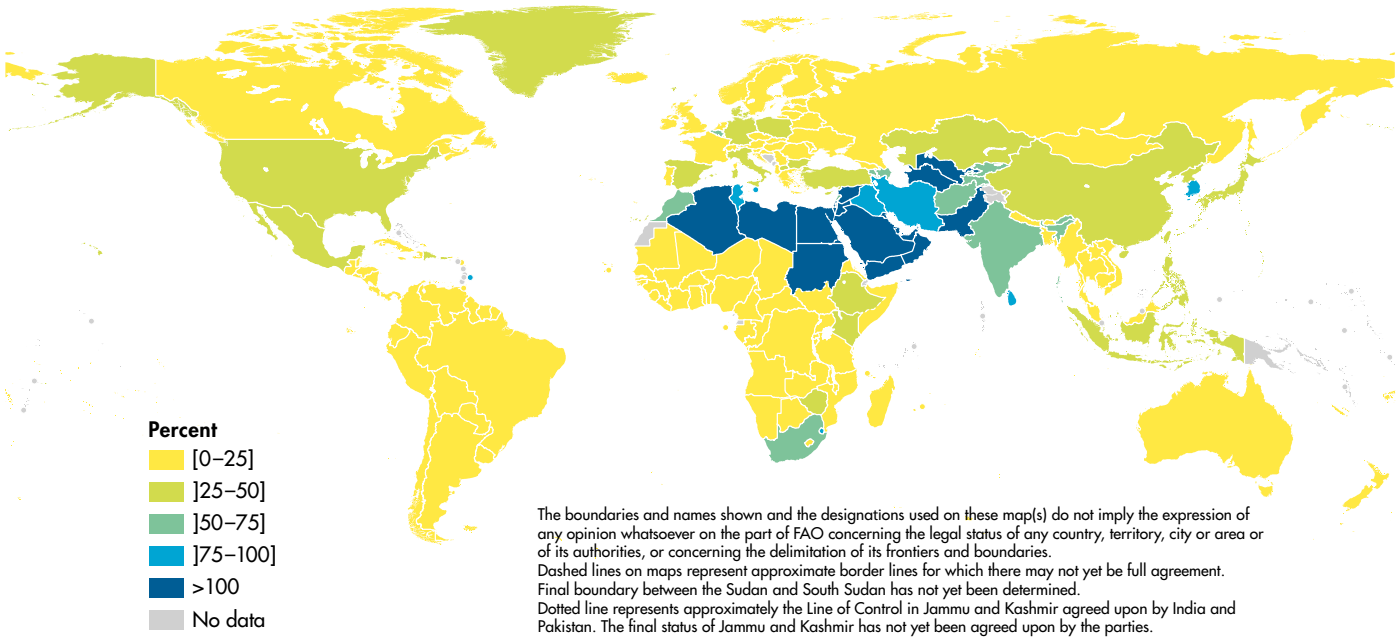
MAP 30.
TOTAL RENEWABLE WATER RESOURCES PER CAPITA (2020)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. AQUASTAT Dissemination System. In: *AQUASTAT*. Rome. [Cited October 2023]. https://data.apps.fao.org/aquastat/?lang=en based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map30

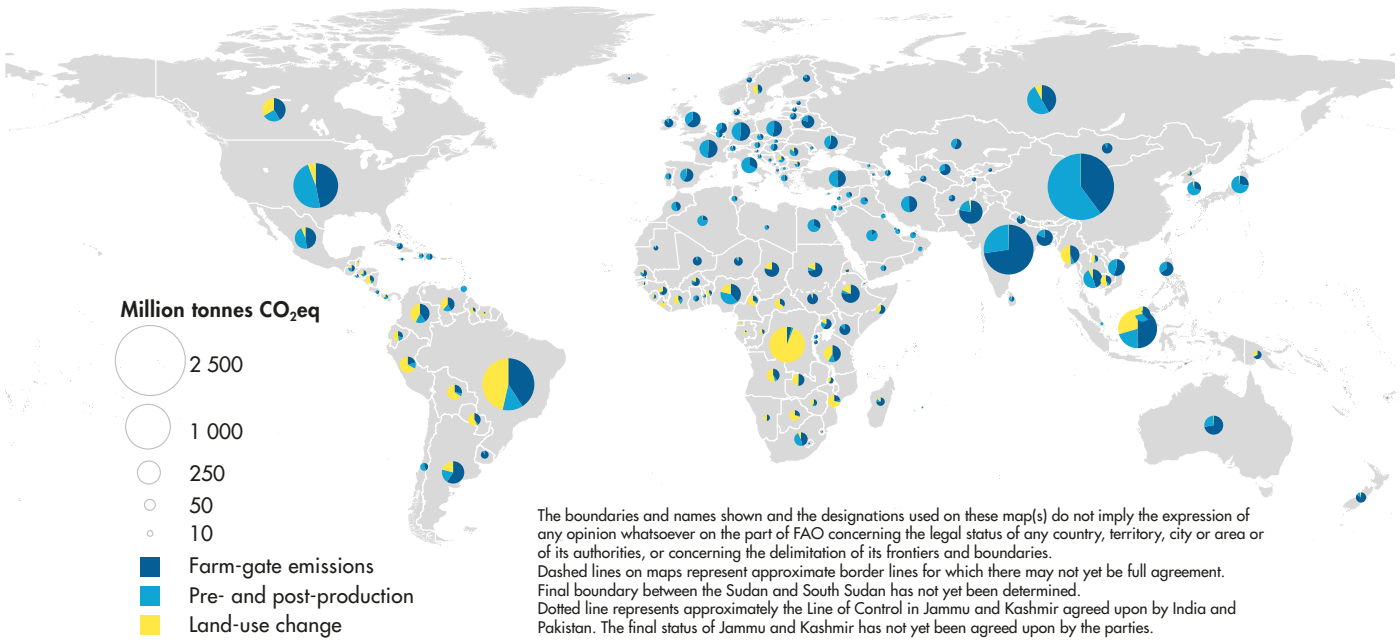
MAP 31.
WATER STRESS (2020)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

FAO. 2023. AQUASTAT Dissemination System. In: *AQUASTAT*. Rome. [Cited October 2023]. https://data.apps.fao.org/aquastat/?lang=en based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map31

MAP 32.
GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS (2021)



The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries.
Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.
Final boundary between the Sudan and South Sudan has not yet been determined.
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Source: FAO. 2023. Emissions totals. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/GT based on UN Geospatial. 2020. Map geodata [shapefiles]. New York, USA, UN.
Download: https://doi.org/10.4060/cc8166en-map32

ANNEX 4: DATA TABLES

CHAPTER 1: ECONOMIC DIMENSIONS OF AGRICULTURE

TABLE 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING (USD MILLION, 2015 PRICES)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	2 019 813.7	2 349 778.2	2 709 632.7	3 163 253.9	3 352 721.8	3 426 504.9	3 515 119.2	3 596 884.8	3 707 576.5
Africa	170 278.7	227 711.6	291 752.6	360 070.5	381 925.5	393 470.8	403 390.0	412 496.3	425 298.5
Americas	323 454.2	385 462.3	407 029.7	463 106.3	481 990.6	485 850.3	480 776.0	486 348.2	472 957.4
Asia	1 208 426.5	1 403 109.8	1 667 751.9	1 970 063.3	2 114 003.1	2 174 953.9	2 256 033.6	2 318 804.1	2 421 090.3
Europe	280 655.8	293 197.2	300 551.7	326 706.6	329 628.1	329 698.3	335 216.0	333 455.5	334 500.5
Oceania	36 998.5	40 297.3	42 546.8	43 307.2	45 174.3	42 531.6	39 703.6	45 780.8	53 729.7
Afghanistan	3 232.4	3 658.6	4 663.8	4 777.9	5 212.6	4 982.5	5 852.4	6 200.2	6 024.5
Albania	1 366.5	1 577.8	1 963.0	2 252.4	2 317.7	2 344.9	2 359.6	2 391.5	2 398.2
Algeria	7 027.5	10 091.5	13 664.6	19 218.2	19 681.6	20 370.4	20 920.4	21 276.1	20 871.8
Andorra	11.6	11.9	13.7	14.3	16.2	16.1	15.7	14.9	15.4
Angola	3 154.3	4 577.5	6 935.0	10 599.8	11 063.6	10 892.0	10 752.1	11 010.0	12 791.4
Antigua and Barbuda	18.8	23.9	20.4	21.6	25.7	25.9	26.3	26.7	27.3
Argentina	23 529.7	29 065.9	31 649.1	33 255.6	32 778.6	27 854.5	33 778.8	31 251.4	30 865.3
Armenia	720.7	1 105.9	1 127.4	1 817.6	1 638.7	1 526.2	1 437.6	1 385.0	1 377.0
Australia	26 023.6	28 383.6	31 384.2	29 942.4	31 844.6	28 499.2	25 772.6	31 695.3	39 112.1
Austria	3 861.1	3 903.5	3 997.7	4 313.7	4 640.5	4 774.6	4 669.6	4 547.0	4 753.8
Azerbaijan	1 735.4	2 429.1	2 668.7	3 278.9	3 504.0	3 665.0	3 931.3	4 007.3	4 141.3
Bahamas	133.9	143.7	131.7	96.5	96.2	84.6	66.2	75.6	51.6
Bahrain	74.2	84.7	86.5	98.2	104.1	108.0	107.0	107.1	109.0
Bangladesh	16 634.9	18 815.3	25 552.3	32 560.0	35 017.9	36 259.2	37 441.4	38 722.3	39 951.5
Barbados	86.0	70.7	65.8	61.7	59.0	67.8	64.7	61.0	63.4
Belarus	2 050.0	2 615.5	3 236.7	3 547.2	3 843.1	3 713.7	3 822.2	4 005.4	3 815.1
Belgium	2 586.2	2 673.8	3 035.5	3 172.3	3 074.7	2 814.1	2 849.2	3 098.5	2 981.2
Belize	146.5	226.3	205.7	210.8	211.8	206.7	201.5	203.9	238.8
Benin	1 599.9	1 982.2	2 455.6	3 003.3	3 520.1	3 778.1	3 973.0	4 042.7	4 252.8
Bhutan	234.7	234.9	252.9	289.3	310.4	323.6	327.8	342.7	354.6
Bolivia (Plurinational State of)	2 125.0	2 526.7	2 755.7	3 379.1	3 749.7	4 008.9	4 221.4	4 353.4	4 432.1
Bosnia and Herzegovina	800.1	975.7	1 035.2	1 011.3	1 000.0	1 090.5	1 068.5	1 140.6	1 049.2
Botswana	245.3	214.8	299.0	263.5	277.5	299.9	307.3	299.1	290.3
Brazil	45 625.6	56 286.1	66 067.6	77 840.2	84 214.4	85 315.2	85 669.2	89 245.6	91 719.8
Brunei Darussalam	98.4	138.3	123.1	142.6	135.4	133.3	131.4	150.3	175.7
Bulgaria	2 803.3	2 771.4	2 145.4	2 062.1	2 403.5	2 355.8	2 452.4	2 371.4	3 055.4
Burkina Faso	1 640.2	2 043.8	2 351.1	2 675.9	2 783.3	3 021.5	3 051.3	3 206.3	3 019.2
Burundi	1 044.1	1 019.1	962.1	990.6	1 019.4	1 095.2	1 126.0	1 157.5	1 191.1
Cabo Verde	117.6	106.1	114.4	139.5	116.8	95.9	88.3	82.7	86.9
Cambodia	2 661.0	3 406.6	4 372.2	4 797.7	4 945.8	5 000.1	4 973.4	4 992.5	5 050.3
Cameroon	3 401.7	3 830.1	4 506.1	5 539.0	5 822.3	6 045.4	6 279.0	6 317.9	6 572.8
Canada	21 675.4	25 215.1	24 196.0	29 095.5	30 988.7	30 869.2	31 581.5	31 919.9	29 793.1

TABLE 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING (USD MILLION, 2015 PRICES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Central African Republic	809.5	847.6	918.6	534.2	579.1	599.0	622.2	644.0	667.2
Chad	1 125.9	1 733.3	3 244.6	3 867.7	5 762.7	5 976.9	6 251.8	6 401.8	6 452.5
Chile	4 555.5	6 797.8	7 711.8	8 875.9	9 311.2	9 529.6	9 465.8	9 295.1	9 508.3
China	517 628.4	627 715.4	782 644.9	961 313.6	1 035 274.1	1 073 041.9	1 107 906.7	1 144 707.1	1 225 384.9
Colombia	12 141.9	13 825.9	14 567.7	17 551.5	19 037.3	19 340.7	19 866.3	20 270.4	20 890.8
Comoros	231.7	272.7	228.9	295.5	340.6	388.1	434.7	453.8	461.3
Congo	450.9	527.4	576.3	705.3	809.9	780.9	780.0	817.1	841.5
Costa Rica	2 049.6	2 260.8	2 566.0	2 680.5	2 927.8	3 045.2	3 000.5	3 016.8	3 124.7
Côte d'Ivoire	6 003.5	6 128.1	5 893.4	8 406.9	8 364.8	8 749.2	9 158.9	9 635.6	9 895.6
Croatia	1 915.3	2 062.0	2 031.5	1 490.7	1 550.4	1 646.1	1 677.2	1 674.5	1 812.0
Cuba	3 105.6	2 769.1	2 901.9	3 344.8	3 489.7	3 582.0	3 189.6	2 458.4	2 135.0
Cyprus	605.3	596.4	445.7	371.8	403.3	393.8	418.1	412.8	413.3
Czechia	4 034.5	4 939.9	3 756.9	4 157.8	4 210.2	4 382.0	4 587.6	5 094.7	4 338.9
Democratic People's Republic of Korea	2 723.9	3 399.1	3 148.7	3 524.4	3 565.6	3 501.1	3 549.3	3 279.9	3 483.1
Democratic Republic of the Congo	4 908.4	4 788.2	5 689.0	6 965.7	7 305.9	7 423.6	7 657.0	7 850.9	8 037.0
Denmark	2 960.3	2 832.9	2 982.1	2 898.4	2 800.0	2 761.4	2 814.0	2 999.5	2 541.9
Djibouti	36.1	43.1	42.0	28.4	36.7	42.3	44.6	46.2	51.3
Dominica	75.1	65.5	64.7	76.0	67.3	48.8	59.4	61.3	76.8
Dominican Republic	2 187.8	2 582.1	3 282.4	3 902.6	4 362.8	4 602.8	4 791.0	4 926.8	5 056.8
Ecuador	5 208.5	6 501.4	7 306.2	9 387.8	9 992.1	10 003.6	10 165.4	10 201.7	10 547.2
Egypt	22 042.4	26 527.1	31 315.2	36 204.7	38 535.7	39 736.0	41 066.0	42 421.4	44 416.2
El Salvador	1 529.7	1 341.2	1 465.1	1 296.1	1 413.7	1 375.2	1 389.5	1 349.9	1 378.0
Equatorial Guinea	167.3	167.4	159.6	248.8	255.1	248.8	234.4	235.6	262.0
Eritrea	243.2	379.3	310.6	352.2	339.7	387.6	403.5	385.1	394.5
Estonia	418.9	436.7	541.7	654.0	532.5	476.7	646.9	644.9	544.1
Eswatini	279.3	321.8	310.9	379.7	332.9	352.4	355.5	336.3	337.4
Ethiopia	8 651.4	11 085.3	16 560.8	22 744.3	24 827.3	25 697.9	26 683.3	27 818.4	29 360.4
Fiji	332.4	332.3	311.0	368.6	363.8	377.2	394.3	407.1	409.0
Finland	4 184.5	4 104.7	4 844.4	5 283.6	5 520.9	5 475.5	5 759.4	6 219.6	5 932.4
France	34 340.8	34 136.3	36 489.6	39 148.9	37 134.5	38 588.1	37 696.6	35 329.3	35 100.3
Gabon	420.1	475.8	466.3	619.6	776.1	849.5	916.4	970.0	1 034.8
Gambia	303.0	333.8	448.3	306.1	292.0	302.8	302.4	334.5	350.1
Georgia	1 063.6	1 290.1	1 006.5	1 168.4	1 048.9	1 193.6	1 201.4	1 298.2	1 280.1
Germany	21 778.0	20 194.7	24 119.7	22 979.9	23 951.9	19 737.4	22 341.0	24 133.4	24 521.8
Ghana	5 560.1	7 131.2	8 882.1	9 998.1	10 909.6	11 441.5	11 974.1	12 846.3	13 927.8
Greece	8 516.4	8 699.9	7 271.8	7 559.5	7 908.9	7 749.1	8 228.8	7 841.6	7 642.3
Grenada	42.9	23.6	35.9	74.1	56.1	57.7	56.4	48.2	53.5
Guatemala	3 956.7	4 597.8	5 149.0	6 198.1	6 556.0	6 720.5	6 834.6	6 821.6	7 062.5
Guinea	859.0	1 025.6	1 232.8	1 625.0	2 018.6	2 132.3	2 476.3	2 443.6	2 576.7
Guinea-Bissau	347.8	410.3	448.3	490.1	514.6	553.5	585.6	581.0	605.0
Guyana	282.8	699.6	883.6	1 088.9	1 090.6	1 162.9	1 157.1	1 205.1	1 229.8
Haiti	2 240.1	2 466.9	2 635.4	2 452.9	2 521.2	2 556.8	2 586.1	2 446.3	2 345.2

TABLE 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING (USD MILLION, 2015 PRICES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Honduras	1 507.6	1 725.1	1 992.2	2 562.9	2 963.2	3 041.2	3 009.7	2 821.4	2 833.7
Hungary	3 615.4	4 990.0	3 968.5	4 743.6	4 982.1	5 241.7	5 140.3	4 726.6	4 638.5
Iceland	924.8	957.7	841.1	930.3	940.9	1 003.2	1 064.2	1 058.5	1 090.6
India	228 142.8	259 599.1	303 288.4	347 227.7	395 327.4	403 615.3	425 896.2	440 018.0	453 266.6
Indonesia	67 446.1	78 970.6	94 801.8	116 152.0	124 771.3	129 617.6	134 292.3	136 665.3	139 181.6
Iran (Islamic Republic of)	27 222.9	35 330.2	33 313.6	42 103.2	45 666.3	44 587.5	48 564.0	50 633.9	52 537.1
Iraq	8 528.6	11 038.7	8 427.0	6 991.0	5 854.4	8 059.4	11 779.6	14 424.7	11 903.5
Ireland	2 416.4	2 049.0	2 005.8	2 607.5	3 042.0	2 690.3	3 367.1	3 421.1	3 434.0
Israel	2 971.6	3 946.5	4 002.6	3 735.0	3 925.0	3 838.2	3 890.8	3 680.4	3 600.9
Italy	38 294.5	36 211.1	36 539.6	37 915.7	36 468.1	37 144.0	36 556.0	34 873.2	34 418.8
Jamaica	788.6	681.5	803.8	895.6	975.5	1 015.5	1 019.6	1 004.9	1 088.3
Japan	66 223.0	52 225.6	51 546.5	45 965.9	42 575.4	39 712.0	41 285.0	38 735.5	37 432.1
Jordan	695.3	1 101.4	1 651.9	1 694.8	1 843.7	1 903.0	1 951.3	1 983.0	2 038.2
Kazakhstan	5 140.0	6 792.9	7 359.2	8 685.7	9 781.2	10 149.6	10 135.5	10 728.5	10 467.2
Kenya	8 442.2	9 953.0	11 163.3	13 652.2	13 663.4	14 445.5	14 827.2	15 535.7	15 375.3
Kiribati	36.4	30.4	33.3	36.9	46.4	45.2	46.3	45.5	47.7
Kuwait	193.4	283.1	550.2	616.2	657.8	634.2	605.2	582.0	575.4
Kyrgyzstan	680.8	775.3	840.3	939.0	987.5	1 013.2	1 038.3	1 047.3	999.6
Lao People's Democratic Republic	1 556.0	1 757.1	2 152.3	2 531.0	2 675.6	2 709.5	2 742.5	2 774.2	2 842.1
Latvia	603.9	771.7	797.8	952.4	928.6	894.8	1 116.0	1 123.5	991.5
Lebanon	1 493.4	1 472.6	1 547.6	1 640.0	1 970.9	1 948.8	1 944.9	2 360.4	2 193.6
Lesotho	105.6	87.5	91.7	89.2	108.9	94.5	94.8	103.0	86.5
Liberia	838.9	576.8	1 214.5	1 588.6	1 211.9	1 209.5	1 214.7	1 279.4	1 293.2
Libya	1 404.5	1 627.4	1 527.9	2 136.9	1 364.3	1 423.2	1 711.0	1 006.8	1 327.7
Lithuania	1 122.9	1 153.7	1 121.3	1 416.8	1 360.7	1 215.0	1 340.6	1 582.0	1 396.3
Luxembourg	233.7	140.2	154.4	134.3	124.6	139.9	133.7	128.9	128.9
Madagascar	2 439.7	2 680.7	2 950.7	2 914.9	2 992.3	3 002.9	3 181.1	3 137.5	3 088.4
Malawi	1 284.9	1 221.6	1 567.9	2 034.9	2 244.5	2 251.1	2 383.9	2 483.3	2 612.4
Malaysia	16 430.4	19 211.7	21 928.5	24 974.8	25 479.1	25 512.0	26 009.5	25 442.8	25 396.5
Maldives	198.7	291.9	215.7	228.7	251.2	263.2	243.6	260.8	259.2
Mali	1 148.9	1 568.1	2 867.2	4 875.5	5 601.9	6 030.9	6 357.8	6 193.5	6 376.6
Malta	86.1	137.4	107.1	102.4	94.0	97.8	70.6	112.9	162.3
Marshall Islands	13.6	13.6	18.1	22.1	22.1	23.1	30.4	30.6	35.6
Mauritania	1 004.9	1 010.2	1 145.4	1 272.2	1 497.4	1 542.2	1 674.5	1 631.5	1 569.6
Mauritius	279.9	270.8	337.5	368.9	381.9	376.9	392.8	385.3	413.0
Mexico	28 412.5	30 375.3	33 740.9	37 405.2	40 027.8	41 070.2	40 963.1	41 256.1	42 302.7
Micronesia (Federated States of)	70.0	68.4	69.7	82.9	78.3	78.4	80.5	74.9	69.8
Mongolia	806.0	786.0	867.0	1 636.0	1 719.3	1 831.2	1 927.3	2 039.6	1 927.2
Montenegro	235.1	275.4	285.7	326.7	328.9	339.8	332.4	332.6	314.3
Morocco	5 227.5	7 318.1	9 885.3	13 024.6	9 810.1	9 007.6	7 680.2	6 116.8	6 264.5
Mozambique	1 533.8	2 227.2	3 162.1	3 655.4	3 960.8	4 095.3	4 146.5	4 294.8	4 455.8
Myanmar	7 253.9	11 670.0	15 326.7	17 066.0	16 826.0	17 092.8	17 372.1	17 552.4	15 364.8
Namibia	787.5	1 067.7	907.5	753.8	792.3	824.0	798.6	850.4	867.3

TABLE 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING (USD MILLION, 2015 PRICES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Nauru	2.1	2.1	1.3	2.5	2.5	2.4	2.5	2.5	2.6
Nepal	3 805.1	4 645.7	5 321.9	6 276.2	6 595.4	6 767.5	7 116.5	7 275.4	7 467.4
Netherlands (Kingdom of the)	10 914.3	11 372.4	12 448.2	13 195.7	13 553.2	13 378.0	13 608.4	13 723.0	14 053.8
New Zealand	6 737.7	7 488.9	6 375.1	7 961.8	7 655.6	8 158.9	7 883.7	7 966.1	8 364.3
Nicaragua	1 418.2	1 637.6	1 965.3	2 055.1	2 351.9	2 376.4	2 432.3	2 438.0	2 603.6
Niger	1 373.5	1 828.7	2 558.7	3 136.8	3 876.8	4 183.0	4 324.6	4 659.2	4 421.7
Nigeria	30 966.3	60 877.5	83 470.0	102 041.8	109 892.3	112 224.6	114 875.9	117 368.0	119 864.2
North Macedonia	863.6	906.5	1 004.1	979.0	853.7	924.3	925.0	895.6	885.1
Norway	3 733.9	4 423.9	5 617.6	5 931.9	5 809.7	5 758.3	5 825.2	5 895.5	6 288.4
Oman	678.0	687.6	862.2	1 361.4	1 561.3	1 901.8	1 982.6	2 266.0	2 469.3
Pakistan	43 365.1	48 238.5	57 811.3	68 304.3	70 482.3	73 214.6	73 902.2	76 795.2	79 464.3
Palau	10.3	9.3	10.6	8.8	10.1	9.6	9.2	8.4	8.2
Panama	1 269.9	1 587.2	1 392.8	1 507.0	1 534.2	1 580.4	1 651.5	1 733.3	1 783.8
Papua New Guinea	2 842.9	3 057.2	3 368.0	3 792.2	3 984.4	4 166.5	4 260.6	4 340.1	4 431.7
Paraguay	1 422.0	1 853.8	3 038.5	3 418.5	3 683.9	3 765.0	3 637.5	3 900.2	3 975.4
Peru	8 495.2	9 397.8	11 519.4	13 372.8	14 009.3	15 358.6	15 588.7	15 743.8	16 325.4
Philippines	21 236.9	25 968.6	29 935.1	33 698.3	34 791.9	35 180.8	35 604.7	35 535.5	35 435.1
Poland	9 441.3	11 428.8	12 671.7	11 346.3	11 689.3	10 628.7	10 543.3	12 401.4	11 029.6
Portugal	3 906.1	3 880.9	3 845.2	4 184.5	4 218.6	4 173.9	4 313.1	4 171.9	4 412.3
Qatar	96.1	95.4	166.0	260.9	343.0	396.8	463.1	484.2	486.4
Republic of Korea	23 930.8	23 687.5	27 306.2	29 372.7	28 342.5	28 386.1	29 503.4	27 796.0	28 850.4
Republic of Moldova	727.5	893.3	770.7	891.1	1 145.2	1 174.4	1 165.9	769.5	1 116.0
Romania	6 984.1	8 738.6	6 878.4	7 873.1	9 089.2	10 339.2	10 009.3	8 480.6	9 072.2
Russian Federation	41 184.8	46 661.5	45 944.8	52 809.1	54 553.2	55 484.7	57 373.0	57 488.4	56 754.0
Rwanda	935.6	1 250.8	1 586.8	2 045.8	2 225.9	2 362.1	2 480.7	2 501.6	2 604.2
Saint Kitts and Nevis	6.0	10.2	8.1	8.1	8.0	8.1	8.0	8.0	8.8
Saint Lucia	58.1	34.6	35.0	39.1	39.1	44.2	45.8	41.4	41.9
Saint Vincent and the Grenadines	52.8	48.8	48.5	49.2	54.3	57.4	56.5	57.4	44.3
Samoa	104.3	87.7	72.3	69.8	80.2	70.2	71.9	67.7	67.6
San Marino	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
Sao Tome and Principe	24.8	27.5	33.9	38.0	39.4	38.0	38.3	37.8	37.8
Saudi Arabia	12 032.2	12 933.8	15 002.0	17 137.9	17 332.4	17 355.2	17 556.2	17 265.1	17 721.9
Senegal	1 823.0	1 950.0	2 391.1	2 536.8	2 980.7	3 222.0	3 360.4	3 789.7	3 753.3
Serbia	2 140.5	2 514.8	2 521.6	2 662.4	2 534.9	2 918.0	2 869.9	2 932.5	2 774.6
Seychelles	36.0	34.2	26.7	32.1	41.5	42.1	46.5	40.2	40.6
Sierra Leone	784.2	1 523.2	2 100.0	2 496.0	2 709.7	2 815.6	2 968.4	3 016.8	3 092.3
Singapore	120.3	85.1	86.7	100.4	102.9	106.3	113.4	108.6	120.3
Slovakia	568.3	893.5	1 229.4	1 951.4	1 994.3	2 265.3	1 852.4	1 950.8	1 847.0
Slovenia	789.8	807.8	810.2	903.4	846.1	1 023.5	975.5	1 016.8	916.3
Solomon Islands	224.7	305.2	397.0	434.5	465.2	466.9	467.5	449.7	452.8
Somalia	1 138.4	1 611.9	2 259.7	2 820.8	3 133.1	3 417.9	3 510.1	3 500.1	3 603.0
South Africa	5 460.9	5 871.4	6 676.3	7 740.4	8 742.5	8 783.5	8 217.1	9 445.3	10 279.0
South Sudan			357.7	255.5	162.7	160.0	238.3	374.3	244.0

TABLE 1.
VALUE ADDED OF AGRICULTURE, FORESTRY AND FISHING (USD MILLION, 2015 PRICES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Spain	28 975.5	26 199.5	29 260.5	32 690.9	32 999.2	35 475.7	33 395.1	34 885.7	35 607.7
Sri Lanka	4 052.2	4 113.1	5 367.5	6 596.9	6 325.3	6 695.1	6 777.6	6 628.4	6 761.9
Sudan			22 242.5	26 818.1	28 298.4	29 430.3	29 783.5	29 038.9	29 746.8
Suriname	272.1	289.8	421.2	533.5	499.6	457.1	371.1	332.9	307.8
Sweden	5 119.6	6 052.4	6 487.6	7 321.8	7 625.5	6 852.4	7 195.0	6 996.0	7 221.9
Switzerland	4 610.6	4 232.2	4 362.4	4 348.3	4 252.0	4 614.3	4 309.7	4 217.9	4 048.9
Syrian Arab Republic	6 092.1	7 226.4	6 544.8	4 124.8	4 059.0	4 546.1	4 928.0	4 607.7	4 584.6
Tajikistan	559.4	902.8	1 288.8	1 730.2	1 963.2	2 099.9	2 247.0	2 424.3	2 584.3
Thailand	28 094.7	32 079.0	34 725.2	35 605.9	36 890.6	39 139.7	38 804.9	37 463.0	37 980.0
Timor-Leste	239.1	267.2	318.3	283.4	271.3	279.1	285.9	300.5	304.1
Togo	934.8	936.5	938.4	1 088.2	1 324.0	1 385.2	1 462.8	1 482.1	1 538.9
Tonga	68.4	62.7	55.6	68.0	65.5	65.7	68.1	70.2	70.3
Trinidad and Tobago	523.0	382.7	178.5	263.1	263.9	238.4	153.6	201.4	168.1
Tunisia	2 887.9	3 124.3	3 352.6	4 214.4	4 119.6	4 363.0	4 624.6	4 635.7	4 519.8
Türkiye	40 899.5	44 744.7	49 936.8	59 364.3	60 669.2	61 958.6	64 003.5	67 678.6	65 687.1
Turkmenistan	2 898.3	3 001.0	3 202.7	3 355.2	3 919.0	4 019.2	3 870.9	3 743.9	3 929.8
Tuvalu	6.2	6.1	7.9	4.8	4.3	4.4	4.2	4.0	4.0
Uganda	4 586.9	5 529.2	6 050.2	6 591.6	7 152.6	7 339.6	7 894.9	8 290.6	8 423.5
Ukraine	6 834.6	8 176.3	8 664.5	10 977.8	11 378.4	12 308.8	12 432.3	11 102.4	12 706.7
United Arab Emirates	3 699.3	3 402.5	2 423.0	2 653.9	2 835.7	2 988.8	3 102.5	3 354.8	4 054.2
United Kingdom of Great Britain and Northern Ireland	14 434.7	16 822.5	14 324.4	18 473.9	17 363.3	15 194.7	17 762.4	17 142.8	18 182.5
United Republic of Tanzania	6 844.9	8 608.2	10 480.6	12 932.8	14 357.4	15 119.1	15 778.6	16 553.1	17 190.8
United States of America	130 103.8	159 160.0	155 507.7	180 100.0	186 430.7	191 706.3	180 424.7	185 537.9	169 792.3
Uruguay	2 550.9	2 928.9	2 879.7	3 893.8	3 830.3	3 957.0	3 968.1	3 953.2	3 955.8
Uzbekistan	10 187.5	13 769.6	18 546.1	25 187.2	27 048.7	27 117.3	27 954.6	28 752.3	29 891.1
Vanuatu	131.9	144.9	164.6	164.1	173.2	174.8	185.7	180.7	184.2
Venezuela (Bolivarian Republic of)	14 680.3	16 815.1	18 381.6	14 777.4	10 986.0	9 475.0	8 040.2	6 882.7	5 912.3
Viet Nam	20 167.8	24 336.5	28 153.4	32 836.0	34 247.3	35 535.8	36 250.3	37 222.5	41 058.2
Yemen	3 273.0	4 070.4	5 856.6	4 451.0	3 674.9	3 558.5	3 509.7	3 566.8	3 531.5
Zambia	1 302.2	1 212.9	1 059.1	1 058.1	1 204.9	949.7	1 022.9	1 198.9	1 190.9
Zimbabwe	2 073.7	1 453.0	1 331.3	1 653.8	1 748.5	2 070.4	1 855.0	1 932.0	2 269.6

Source: FAO. 2023. Macro Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/MK

TABLE 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (USD 2015 PRICES) (PERCENT)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.4	4.3
Africa	14.5	14.8	14.6	15.0	15.1	15.1	15.1	15.9	15.5
Americas	1.7	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.7
Asia	10.1	9.2	8.2	7.5	7.3	7.1	7.1	7.4	7.3
Europe	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.6
Oceania	3.9	3.6	3.3	2.9	2.9	2.7	2.5	2.8	3.2
Afghanistan	60.5	38.1	31.6	25.5	26.7	25.2	28.5	31.0	38.0
Albania	22.6	19.6	18.8	19.8	19.0	18.5	18.2	19.1	17.7
Algeria	7.3	8.1	9.7	11.6	11.3	11.6	11.8	12.6	12.0
Andorra	0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.6	0.5
Angola	7.9	7.4	7.4	9.1	9.8	9.8	9.8	10.6	12.2
Antigua and Barbuda	1.8	2.0	1.7	1.6	1.8	1.7	1.6	2.0	2.1
Argentina	5.5	6.2	5.3	5.2	5.0	4.4	5.5	5.6	5.0
Armenia	18.5	15.7	13.2	17.2	14.4	12.8	11.2	11.6	10.9
Australia	3.3	3.0	2.9	2.4	2.4	2.1	1.9	2.3	2.8
Austria	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2
Azerbaijan	14.8	11.0	5.7	6.2	6.8	7.0	7.3	7.8	7.7
Bahamas	1.3	1.2	1.2	0.8	0.8	0.7	0.5	0.8	0.5
Bahrain	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Bangladesh	20.3	17.6	16.6	14.2	13.2	12.7	12.2	12.2	11.7
Barbados	1.9	1.5	1.4	1.3	1.2	1.4	1.3	1.5	1.5
Belarus	7.9	7.0	6.1	6.3	6.8	6.4	6.5	6.8	6.4
Belgium	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.6
Belize	10.7	12.8	10.9	9.5	9.7	9.4	8.8	10.2	10.4
Benin	25.7	26.3	27.0	26.4	28.3	28.5	28.0	27.5	27.0
Bhutan	34.6	23.7	16.5	14.4	13.7	13.8	13.3	15.4	16.5
Bolivia (Plurinational State of)	12.3	12.5	10.9	10.2	10.5	10.7	11.1	12.5	12.0
Bosnia and Herzegovina	7.5	7.4	6.8	6.2	5.8	6.1	5.8	6.4	5.5
Botswana	2.8	2.1	2.6	1.9	1.8	1.9	1.9	2.0	1.8
Brazil	3.8	4.1	3.9	4.3	4.8	4.7	4.7	5.1	5.0
Brunei Darussalam	0.9	1.1	0.9	1.1	1.1	1.0	1.0	1.1	1.3
Bulgaria	9.2	6.9	4.5	4.1	4.5	4.3	4.3	4.3	5.1
Burkina Faso	32.1	29.4	25.9	22.6	20.9	21.3	20.4	21.0	18.5
Burundi	60.8	53.5	40.5	35.2	33.8	34.5	34.0	34.8	35.2
Cabo Verde	13.2	9.2	7.7	8.7	6.7	5.3	4.6	5.1	5.0
Cambodia	45.0	36.9	34.3	26.6	24.0	22.5	20.9	21.7	21.3
Cameroon	19.8	17.7	17.8	17.2	16.7	16.7	16.8	16.8	16.8
Canada	1.9	1.9	1.7	1.9	1.9	1.9	1.9	2.0	1.8
Central African Republic	40.9	43.7	39.4	31.5	31.2	31.1	31.4	32.2	33.0
Chad	35.5	27.4	31.4	26.9	42.0	41.1	41.6	43.5	44.3
Chile	3.4	4.1	3.8	3.6	3.7	3.7	3.6	3.8	3.5
China	17.5	13.5	10.0	8.4	8.0	7.7	7.5	7.7	7.6
Colombia	7.7	7.4	6.2	6.0	6.3	6.2	6.2	6.8	6.3
Comoros	34.9	36.7	30.8	30.6	32.5	35.6	38.5	38.7	38.4

TABLE 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	6.0	6.7	5.6	5.9	8.0	8.1	8.0	8.9	9.3
Costa Rica	6.7	6.1	5.5	4.7	4.8	4.8	4.7	4.9	4.7
Côte d'Ivoire	27.6	28.2	23.0	18.4	15.9	15.5	15.3	15.8	15.2
Croatia	4.9	4.2	4.0	3.0	2.9	3.0	2.9	3.2	3.1
Cuba	6.8	4.7	3.8	3.8	3.9	3.9	3.5	3.0	2.6
Cyprus	3.9	3.2	2.1	1.9	1.8	1.7	1.7	1.7	1.6
Czechia	3.2	3.2	2.2	2.2	2.1	2.1	2.1	2.5	2.1
Democratic People's Republic of Korea	19.4	21.4	19.9	21.6	21.8	22.4	22.6	21.9	23.2
Democratic Republic of the Congo	29.7	24.0	21.8	18.4	18.1	17.4	17.2	17.3	16.8
Denmark	1.1	1.0	1.1	1.0	0.9	0.8	0.8	0.9	0.7
Djibouti	4.6	4.7	2.9	1.2	1.3	1.4	1.4	1.4	1.5
Dominica	17.6	14.3	11.9	14.1	13.0	9.1	10.5	12.9	15.2
Dominican Republic	6.3	6.3	5.9	5.5	5.5	5.4	5.4	5.9	5.4
Ecuador	9.8	9.6	9.1	9.5	10.0	9.8	10.0	10.9	10.8
Egypt	12.8	12.9	11.3	11.4	11.2	10.9	10.7	10.7	10.3
El Salvador	8.7	7.1	7.1	5.5	5.8	5.5	5.4	5.7	5.3
Equatorial Guinea	5.2	1.7	1.2	1.9	2.3	2.3	2.3	2.5	2.7
Eritrea	14.0	22.6	18.4	17.5	17.5	17.6	17.7	17.6	17.6
Estonia	3.0	2.2	2.8	2.9	2.1	1.8	2.4	2.4	1.9
Eswatini	11.2	10.8	8.8	9.4	8.0	8.2	8.1	7.8	7.2
Ethiopia	52.0	48.7	43.4	36.1	33.4	32.4	31.0	30.5	30.5
Fiji	10.0	8.9	8.0	7.9	7.2	7.2	7.6	9.4	10.0
Finland	2.1	1.8	2.1	2.3	2.2	2.2	2.3	2.5	2.3
France	1.7	1.5	1.6	1.6	1.5	1.5	1.4	1.5	1.4
Gabon	4.2	4.5	4.2	4.3	5.3	5.7	5.9	6.4	6.7
Gambia	32.0	30.4	33.2	22.2	19.8	19.2	18.0	19.8	19.9
Georgia	16.7	14.2	8.6	7.8	6.5	7.1	6.8	7.8	7.0
Germany	0.8	0.7	0.8	0.7	0.7	0.6	0.6	0.7	0.7
Ghana	27.3	27.2	25.1	20.0	19.5	19.3	18.9	20.2	20.8
Greece	4.2	3.6	3.0	3.9	4.0	3.9	4.0	4.2	3.8
Grenada	6.0	2.6	4.2	7.4	5.2	5.1	5.0	4.9	5.2
Guatemala	10.7	10.7	10.0	10.0	10.0	9.9	9.7	9.8	9.4
Guinea	16.3	16.8	17.5	18.5	18.8	18.7	20.5	19.3	19.6
Guinea-Bissau	49.8	54.3	50.3	46.8	43.7	45.2	45.8	44.8	44.4
Guyana	16.2	25.8	24.3	25.4	23.7	24.2	22.8	16.6	14.3
Haiti	21.8	22.6	21.4	17.2	16.9	16.9	17.3	17.0	16.6
Honduras	12.8	11.7	11.3	12.2	13.0	12.8	12.4	12.7	11.4
Hungary	3.9	4.4	3.5	3.8	3.7	3.7	3.5	3.4	3.1
Iceland	7.8	6.6	5.5	5.3	4.8	4.9	5.1	5.5	5.4
India	27.9	23.2	19.3	16.2	15.9	15.3	15.5	17.2	16.3
Indonesia	17.1	15.9	14.4	13.5	13.1	13.0	12.8	13.3	13.1
Iran (Islamic Republic of)	11.0	11.1	8.1	10.1	9.8	9.8	11.0	11.1	11.0
Iraq	9.1	11.7	7.0	4.2	3.1	4.2	5.8	8.1	6.5
Ireland	1.5	1.0	0.9	0.9	0.9	0.8	0.9	0.9	0.8

TABLE 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	1.6	2.0	1.6	1.2	1.2	1.1	1.1	1.1	1.0
Italy	2.1	1.9	1.9	2.1	1.9	1.9	1.9	2.0	1.8
Jamaica	6.0	4.8	5.8	6.3	6.7	6.9	6.8	7.5	7.7
Japan	1.7	1.2	1.2	1.0	0.9	0.9	0.9	0.9	0.8
Jordan	3.8	4.4	4.9	4.4	4.6	4.6	4.7	4.8	4.9
Kazakhstan	7.9	6.3	5.1	4.7	4.9	4.9	4.7	5.1	4.8
Kenya	24.2	23.7	20.8	19.5	18.0	18.0	17.6	18.5	16.9
Kiribati	26.5	21.5	23.7	21.7	27.4	25.4	26.6	26.5	25.8
Kuwait	0.3	0.3	0.6	0.5	0.6	0.6	0.5	0.6	0.5
Kyrgyzstan	19.3	18.3	16.0	14.1	13.5	13.4	13.1	14.4	13.0
Lao People's Democratic Republic	31.6	26.1	21.7	17.6	16.3	15.5	14.9	14.6	14.4
Latvia	3.8	3.3	3.5	3.5	3.2	3.0	3.6	3.7	3.2
Lebanon	5.8	4.7	3.4	3.3	3.9	3.9	4.2	6.8	6.8
Lesotho	8.0	5.7	4.6	3.8	4.6	4.1	4.1	4.7	3.9
Liberia	71.6	61.1	65.9	59.5	44.5	43.9	45.1	48.9	49.6
Libya	2.6	2.2	1.8	4.4	2.1	2.1	2.8	2.3	2.4
Lithuania	5.0	3.6	3.3	3.4	3.1	2.6	2.8	3.3	2.7
Luxembourg	0.6	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Madagascar	31.6	31.1	29.7	25.7	24.5	23.8	24.1	25.6	23.9
Malawi	39.0	33.0	29.6	24.8	22.9	22.0	22.1	22.8	23.4
Malaysia	11.1	10.3	9.4	8.3	7.6	7.3	7.1	7.4	7.2
Maldives	10.2	13.9	6.9	5.6	5.4	5.2	4.5	7.2	5.1
Mali	31.2	29.4	32.5	37.2	36.8	37.1	36.8	35.6	35.4
Malta	1.3	1.9	1.3	0.9	0.7	0.7	0.5	0.9	1.1
Marshall Islands	8.9	8.0	10.0	12.0	11.5	11.6	14.3	14.7	16.8
Mauritania	29.5	24.2	23.1	20.6	22.6	22.2	22.9	22.5	21.1
Mauritius	4.2	3.5	3.4	3.1	2.9	2.8	2.8	3.3	3.4
Mexico	3.2	3.2	3.3	3.2	3.3	3.3	3.3	3.6	3.5
Micronesia (Federated States of)	22.5	21.3	22.0	26.2	23.9	23.8	24.2	22.9	22.1
Mongolia	20.9	14.9	12.0	14.1	13.8	13.6	13.6	15.1	14.0
Montenegro	8.8	8.9	7.7	8.1	7.5	7.4	7.0	8.2	6.9
Morocco	10.7	11.8	11.6	11.8	9.0	8.4	7.3	6.6	6.7
Mozambique	29.4	28.3	28.0	22.9	23.1	23.0	22.8	23.9	24.2
Myanmar	48.9	42.6	34.1	26.7	23.4	22.3	22.0	23.6	25.1
Namibia	14.0	15.0	10.3	6.7	7.1	7.3	7.1	8.2	8.2
Nauru	5.1	7.3	3.1	2.4	2.2	2.3	2.3	2.3	2.3
Nepal	32.2	31.3	27.0	27.2	27.0	27.1	25.7	27.6	25.5
Netherlands (Kingdom of the)	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.7
New Zealand	5.8	5.3	4.2	4.5	4.0	4.1	3.8	3.9	3.9
Nicaragua	19.4	19.1	20.1	16.1	16.9	17.6	18.7	19.1	18.5
Niger	30.2	32.3	36.4	32.4	36.1	36.3	35.4	36.9	34.5
Nigeria	17.2	22.2	21.6	20.6	22.4	22.4	22.5	23.4	23.0
North Macedonia	13.0	12.4	11.3	9.7	8.2	8.6	8.3	8.5	8.1
Norway	1.2	1.3	1.6	1.5	1.5	1.4	1.4	1.5	1.5

TABLE 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	1.5	1.4	1.4	1.7	1.9	2.3	2.4	2.8	3.0
Pakistan	29.8	26.0	25.1	23.0	21.3	20.8	20.5	21.6	21.0
Palau	4.3	3.6	4.5	3.1	3.7	3.5	3.3	3.4	3.8
Panama	6.0	6.1	3.7	2.8	2.6	2.5	2.6	3.3	2.9
Papua New Guinea	25.0	24.2	20.6	17.5	16.8	17.6	17.2	18.1	18.3
Paraguay	8.1	8.1	10.2	9.4	9.3	9.2	8.9	9.7	9.4
Peru	9.7	8.7	7.7	7.0	6.9	7.3	7.2	8.2	7.5
Philippines	14.9	14.5	13.1	11.0	9.9	9.4	9.0	9.9	9.4
Poland	3.4	3.5	3.1	2.4	2.3	1.9	1.8	2.2	1.8
Portugal	2.0	1.9	1.8	2.1	2.0	1.9	1.9	2.0	2.1
Qatar	0.3	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.3
Republic of Korea	3.0	2.3	2.2	2.0	1.8	1.8	1.8	1.7	1.7
Republic of Moldova	18.6	16.2	11.9	11.5	13.5	13.3	12.7	9.1	11.5
Romania	6.8	6.5	4.4	4.4	4.6	4.9	4.6	4.0	4.1
Russian Federation	5.3	4.4	3.7	3.9	3.9	3.9	3.9	4.0	3.8
Rwanda	34.2	31.0	26.4	24.0	23.7	23.2	22.2	23.2	21.8
Saint Kitts and Nevis	0.9	1.3	1.0	0.8	0.8	0.8	0.8	0.9	1.0
Saint Lucia	4.0	2.2	2.0	2.2	2.0	2.2	2.3	2.6	2.5
Saint Vincent and the Grenadines	9.2	7.0	6.6	6.3	6.5	6.7	6.6	7.0	5.4
Samoa	19.0	12.4	9.6	8.5	9.3	8.0	7.9	8.3	8.5
San Marino	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sao Tome and Principe	16.2	14.4	13.3	11.9	11.4	10.7	10.6	10.1	9.9
Saudi Arabia	3.3	2.9	2.9	2.6	2.6	2.6	2.6	2.7	2.6
Senegal	17.5	15.5	16.4	14.3	14.7	15.0	14.9	16.6	15.5
Serbia	8.9	7.7	6.6	6.7	6.1	6.7	6.3	6.5	5.7
Seychelles	4.1	4.0	2.5	2.3	2.8	2.7	2.8	2.7	2.7
Sierra Leone	53.2	56.9	60.8	58.8	57.8	58.1	58.1	60.3	59.4
Singapore	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovakia	1.2	1.5	1.6	2.2	2.1	2.3	1.9	2.0	1.9
Slovenia	2.4	2.1	1.9	2.1	1.8	2.1	1.9	2.1	1.8
Solomon Islands	31.9	36.0	36.2	33.2	32.7	31.9	31.4	31.3	31.6
Somalia	53.6	53.3	54.1	52.9	52.9	52.9	52.9	52.9	52.9
South Africa	2.5	2.2	2.1	2.2	2.5	2.5	2.3	2.8	2.9
South Sudan			5.0	4.1	2.9	2.7	3.7	6.0	4.0
Spain	3.0	2.3	2.4	2.7	2.6	2.7	2.5	3.0	2.9
Sri Lanka	11.2	9.4	9.0	8.2	7.3	7.4	7.4	7.5	7.3
Sudan			30.8	32.0	31.1	31.5	31.4	31.8	32.5
Suriname	9.9	8.2	9.3	10.4	10.1	8.8	7.1	7.5	7.2
Sweden	1.4	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3
Switzerland	0.9	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5
Syrian Arab Republic	24.4	22.7	16.2	20.7	21.7	24.0	25.0	26.1	26.8
Tajikistan	19.7	20.0	20.8	20.9	20.7	20.6	20.5	21.2	20.7
Thailand	12.7	11.1	10.0	8.9	8.5	8.7	8.4	8.7	8.7
Timor-Leste	28.7	29.2	24.6	17.8	17.0	17.6	15.1	14.4	14.3

TABLE 2.
SHARE OF AGRICULTURE, FORESTRY AND FISHING VALUE ADDED IN TOTAL GDP (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	37.8	32.0	21.6	18.9	20.9	20.9	21.0	20.9	20.7
Tonga	18.7	16.6	15.4	16.9	14.7	14.8	15.2	15.6	16.0
Trinidad and Tobago	3.7	1.9	0.7	1.0	1.1	1.0	0.6	0.9	0.8
Tunisia	11.0	9.9	8.5	9.2	8.3	8.6	8.9	9.8	9.2
Türkiye	9.9	8.5	8.1	6.9	6.3	6.3	6.4	6.7	5.8
Turkmenistan	22.9	18.5	11.3	9.3	10.5	10.7	10.6	10.6	10.6
Tuvalu	22.9	22.5	27.1	13.3	10.8	10.8	9.0	8.9	8.9
Uganda	45.8	38.3	25.6	22.5	22.6	21.9	21.9	23.3	22.2
Ukraine	9.8	8.1	8.5	12.1	11.9	12.5	12.2	11.3	12.5
United Arab Emirates	1.9	1.4	0.9	0.7	0.8	0.8	0.8	0.9	1.0
United Kingdom of Great Britain and Northern Ireland	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6
United Republic of Tanzania	36.5	32.6	29.6	26.6	25.9	25.5	24.9	24.9	24.7
United States of America	0.9	1.0	0.9	1.0	1.0	1.0	0.9	1.0	0.8
Uruguay	7.6	8.7	6.4	6.8	6.4	6.6	6.6	7.0	6.7
Uzbekistan	35.0	36.3	30.5	29.2	28.4	27.0	26.3	26.6	25.7
Vanuatu	25.8	26.2	23.3	21.6	21.1	20.7	21.3	21.8	22.2
Venezuela (Bolivarian Republic of)	5.8	5.9	5.4	4.3	4.6	4.9	5.7	7.0	6.0
Viet Nam	26.8	22.8	19.4	17.0	15.6	15.1	14.4	14.4	11.9
Yemen	10.2	9.8	11.8	17.9	19.5	19.0	18.5	18.6	18.6
Zambia	16.5	11.4	6.5	5.1	5.4	4.1	4.3	5.2	5.0
Zimbabwe	20.0	17.5	9.4	8.3	8.3	9.4	9.0	9.9	10.9

Source: FAO. 2023. Macro Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/MK

TABLE 3.
AGRICULTURAL LAND BY USE (THOUSAND HA)

COUNTRY	PERMANENT MEADOWS AND PASTURES				CROPLAND			
	2000	2010	2020	2021	2000	2010	2020	2021
World	3 379 750.7	3 258 864.0	3 203 213.1	3 207 673.5	1 493 944.7	1 525 361.1	1 575 908.5	1 579 878.1
Africa	857 120.4	867 055.9	868 347.7	868 486.8	230 207.8	262 436.6	292 338.3	293 253.0
Americas	781 504.0	768 555.5	749 102.8	747 339.1	370 069.0	367 819.1	375 842.9	377 345.1
Asia	1 116 057.1	1 083 843.5	1 078 154.6	1 077 755.9	564 124.2	576 708.0	586 291.8	587 038.9
Europe	180 804.3	177 519.9	172 642.9	172 104.6	303 826.1	290 218.2	288 031.9	288 071.5
Oceania	444 264.8	361 889.2	334 965.1	341 987.1	25 717.5	28 179.2	33 403.6	34 169.7
Afghanistan	30 000.0	30 000.0	30 262.0	30 262.0	7 794.0	7 917.0	8 051.0	8 051.0
Albania	445.0	505.3	478.0	448.8	699.0	696.0	687.6	687.5
Algeria	31 829.0	32 963.0	32 806.5	32 806.5	8 192.0	8 411.0	8 509.6	8 509.6
Andorra	22.0	19.0	18.0	18.0	1.0	0.8	0.8	0.8
Angola	41 323.0	40 415.0	40 207.0	40 207.0	3 200.0	4 435.0	5 685.0	5 690.0
Antigua and Barbuda	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0
Argentina	99 870.0	87 264.8	74 681.0	74 681.0	28 640.0	39 003.1	43 076.8	43 276.8
Armenia	835.0	1 231.4	1 172.0	1 171.1	488.0	503.6	504.0	503.7
Australia	431 700.0	350 404.0	324 779.0	331 869.0	23 769.0	25 968.0	30 996.0	31 650.0
Austria	1 470.2	1 350.1	1 210.0	1 210.0	1 470.0	1 429.1	1 392.7	1 387.5
Azerbaijan	2 678.0	2 655.3	2 423.0	2 417.5	2 062.4	2 111.5	2 357.0	2 363.0
Bahamas	2.0	2.0	2.0	2.0	9.0	10.0	11.0	11.0
Bahrain	4.0	4.0	4.0	4.0	5.9	4.9	4.1	4.1
Bangladesh	600.0	600.0	600.0	600.0	8 800.0	8 641.0	9 328.0	9 468.0
Barbados	2.0	2.0	2.0	2.0	16.0	13.0	8.0	8.0
Belarus	2 995.0	3 241.0	2 521.0	2 454.0	6 257.0	5 657.0	5 760.0	5 719.0
Belgium	507.0	500.0	476.1	476.3	882.6	855.7	888.5	889.4
Belize	50.0	50.0	50.0	50.0	99.0	107.0	130.0	132.0
Benin	550.0	550.0	550.0	550.0	2 645.0	3 100.0	3 400.0	3 400.0
Bhutan	405.0	407.0	413.0	413.0	173.0	113.0	100.0	100.0
Bolivia (Plurinational State of)	33 831.0	33 000.0	33 000.0	33 000.0	3 312.0	4 452.5	5 007.7	5 119.4
Bosnia and Herzegovina	1 030.0	1 035.0	1 120.0	1 147.0	1 100.0	1 109.0	1 122.0	1 116.0
Botswana	25 600.0	25 600.0	25 600.0	25 600.0	351.0	261.0	262.0	262.0
Brazil	173 453.5	170 177.2	173 360.8	173 360.8	54 870.0	61 657.0	65 386.3	66 008.8
Brunei Darussalam	4.0	3.4	3.4	3.4	8.0	10.0	10.0	10.0
Bulgaria	1 804.0	1 702.0	1 404.0	1 397.1	3 778.0	3 350.0	3 644.0	3 649.5
Burkina Faso	6 000.0	6 000.0	6 000.0	6 000.0	4 163.0	5 242.0	6 614.0	6 740.0
Burundi	547.0	483.0	483.0	483.0	1 320.0	1 350.0	1 593.0	1 620.0
Cabo Verde	25.0	25.0	25.0	25.0	47.0	53.0	54.0	54.0
Cambodia	930.0	1 500.0	1 500.0	1 500.0	3 840.0	3 903.0	4 545.4	4 599.1
Cameroon	2 000.0	2 000.0	2 000.0	2 000.0	7 160.0	7 700.0	7 750.0	7 750.0
Canada	20 149.0	20 416.0	18 716.4	18 560.0	41 138.0	37 864.0	38 401.0	38 431.0
Central African Republic	2 990.0	2 990.0	2 990.0	2 990.0	1 962.0	1 917.0	1 919.0	1 920.0
Chad	45 000.0	45 000.0	45 000.0	45 000.0	3 630.0	4 235.0	5 338.0	5 338.0
Chile	13 000.0	12 892.4	9 157.2	8 783.6	2 110.0	1 739.0	1 807.0	1 811.9
China	392 834.0	392 831.0	392 834.0	392 834.0	130 897.0	135 449.8	128 655.1	128 652.0
Colombia	40 314.0	39 150.0	39 504.3	38 220.0	4 545.0	3 353.0	4 548.0	4 498.0

TABLE 3.
AGRICULTURAL LAND BY USE (THOUSAND HA) (CONTINUED)

COUNTRY	PERMANENT MEADOWS AND PASTURES				CROPLAND			
	2000	2010	2020	2021	2000	2010	2020	2021
Comoros	15.0	15.0	15.0	15.0	113.0	118.0	118.0	118.0
Congo	10 000.0	10 000.0	10 000.0	10 000.0	540.0	576.0	639.0	678.0
Costa Rica	1 350.0	1 279.0	1 200.0	1 200.0	490.0	540.0	586.0	611.0
Côte d'Ivoire	13 000.0	13 200.0	13 200.0	13 200.0	6 600.0	7 400.0	10 100.0	10 300.0
Croatia	258.0	345.4	537.0	540.0	911.0	988.4	968.0	936.0
Cuba	2 500.0	2 657.2	2 839.4	2 839.4	4 054.0	3 804.0	3 561.6	3 561.6
Cyprus	1.1	2.0	2.3	2.2	140.4	112.5	125.4	120.9
Czechia	961.0	936.1	989.6	1 005.5	3 319.0	2 587.8	2 534.3	2 524.3
Democratic People's Republic of Korea	50.0	50.0	50.0	50.0	2 500.0	2 630.0	2 545.0	2 545.0
Democratic Republic of the Congo	18 100.0	18 200.0	18 200.0	18 200.0	7 500.0	10 229.0	15 695.0	15 698.0
Denmark	358.0	200.0	222.4	234.0	2 289.0	2 426.0	2 397.6	2 384.0
Djibouti	1 600.0	1 700.0	1 700.0	1 700.0	1.6	2.3	3.9	3.9
Dominica	2.0	2.0	2.0	2.0	19.0	23.0	23.0	23.0
Dominican Republic	1 197.0	1 197.0	1 197.0	1 197.0	1 318.0	1 200.0	1 232.0	1 232.0
Ecuador	5 087.0	4 919.9	2 939.0	3 023.0	2 979.0	2 577.8	2 481.0	2 448.0
Egypt					3 291.0	3 671.0	3 971.0	4 031.0
El Salvador	409.6	358.5	314.7	314.7	877.1	871.4	881.0	881.0
Equatorial Guinea	2.9	3.6	4.9	4.9	100.0	100.0	100.0	100.0
Eritrea	6 967.0	6 900.0	6 900.0	6 900.0	563.0	692.0	692.0	692.0
Estonia	131.0	296.7	286.0	282.0	855.0	652.1	699.0	705.0
Eswatini	1 032.0	1 028.0	1 000.0	1 000.0	191.0	193.0	195.0	195.0
Ethiopia	20 000.0	20 000.0	20 000.0	20 000.0	10 534.0	15 683.0	18 476.1	18 595.0
Fiji	173.0	173.0	173.0	173.0	198.8	146.1	138.6	138.6
Finland	26.0	33.0	22.0	21.0	2 192.0	2 258.9	2 248.0	2 247.0
France	10 312.3	9 614.5	9 583.2	9 583.2	19 495.1	19 311.8	18 970.5	18 970.5
Gabon	1 572.0	1 622.6	1 658.2	1 658.2	495.0	495.0	495.0	495.0
Gambia	267.0	187.0	187.0	187.0	239.0	457.0	447.0	447.0
Georgia	1 938.0	1 940.0	1 940.0	1 940.0	1 062.0	520.0	437.9	439.9
Germany	5 048.0	4 655.0	4 730.0	4 730.0	12 020.0	12 045.0	11 862.0	11 860.0
Ghana	7 189.3	5 903.6	5 186.2	5 186.2	5 576.2	6 496.8	7 417.5	7 417.5
Greece	4 675.0	3 785.0	2 647.0	2 647.0	3 854.0	3 704.0	3 220.2	3 220.2
Grenada	1.0	1.0	1.0	1.0	11.0	9.0	7.0	7.0
Guatemala	2 478.0	1 847.0	1 875.0	1 875.0	2 283.7	2 470.2	2 737.0	2 737.0
Guinea	10 700.0	10 700.0	10 700.0	10 700.0	3 379.0	3 600.0	3 935.0	3 938.0
Guinea-Bissau	115.1	197.6	265.1	265.1	548.0	550.0	550.0	550.0
Guyana	594.0	594.0	594.0	594.0	436.7	448.0	448.0	449.0
Haiti	490.0	490.0	490.0	490.0	1 200.0	1 494.0	1 300.0	1 305.0
Honduras	1 508.0	1 770.0	1 944.0	1 958.0	1 427.0	1 498.0	1 594.0	1 618.0
Hungary	1 051.0	763.0	732.5	754.5	4 803.0	4 580.0	4 184.1	4 289.2
Iceland	1 760.0	1 751.0	1 751.0	1 751.0	129.0	123.0	121.0	121.0
India	10 845.0	10 339.0	10 479.8	10 480.0	170 130.0	169 234.0	168 047.9	168 047.9
Indonesia	11 177.0	11 000.0	11 000.0	11 000.0	36 000.0	44 380.0	53 300.0	53 600.0

TABLE 3.
AGRICULTURAL LAND BY USE (THOUSAND HA) (CONTINUED)

COUNTRY	PERMANENT MEADOWS AND PASTURES				CROPLAND			
	2000	2010	2020	2021	2000	2010	2020	2021
Iran (Islamic Republic of)	46 600.0	29 477.0	29 477.0	29 477.0	16 284.0	17 062.4	17 550.7	17 590.0
Iraq	4 000.0	4 000.0	4 000.0	3 985.0	4 500.0	4 220.0	5 439.0	5 439.0
Ireland	3 906.1	4 127.2	4 067.0	3 901.0	490.1	440.8	445.0	437.0
Israel	142.0	133.6	165.0	164.0	424.0	370.9	481.4	479.5
Italy	4 353.0	4 698.0	3 133.8	3 041.6	11 284.0	9 629.8	9 384.6	9 361.4
Jamaica	229.0	229.0	229.0	229.0	250.0	192.3	188.0	188.0
Japan	428.0	360.0	310.0	310.0	4 830.0	4 593.0	4 372.0	4 349.0
Jordan	791.0	742.0	742.0	742.0	278.0	260.3	287.0	281.0
Kazakhstan	185 098.0	188 361.7	184 318.0	183 994.2	30 295.3	28 800.1	29 685.2	29 801.7
Kenya	21 300.0	21 300.0	21 300.0	21 300.0	5 371.0	6 010.0	6 410.0	6 410.0
Kiribati					34.0	34.0	34.0	34.0
Kuwait	136.0	136.0	136.0	136.0	12.0	16.0	14.0	14.0
Kyrgyzstan	9 291.0	9 261.5	9 003.7	9 002.0	1 423.0	1 350.4	1 364.1	1 364.1
Lao People's Democratic Republic	805.0	690.0	677.0	677.0	1 001.0	1 530.0	1 354.0	1 354.0
Latvia	606.0	625.0	626.0	599.0	982.0	1 180.0	1 343.0	1 371.0
Lebanon	325.0	400.0	400.0	400.0	270.0	240.0	277.3	279.3
Lesotho	2 000.0	2 000.0	2 000.0	2 000.0	334.0	326.0	433.0	433.0
Liberia	757.1	1 007.0	1 223.0	1 223.0	610.0	660.0	700.0	700.0
Libya	13 300.0	13 300.0	13 300.0	13 300.0	2 150.0	2 051.0	2 050.0	2 050.0
Lithuania	497.0	614.2	658.0	622.6	2 921.0	2 158.1	2 284.8	2 315.2
Luxembourg	65.0	67.6	68.3	68.5	63.0	63.5	63.7	64.0
Madagascar	37 000.0	37 295.0	37 295.0	37 295.0	3 500.0	3 600.0	3 600.0	3 600.0
Malawi	1 850.0	1 850.0	1 850.0	1 850.0	2 880.0	3 635.0	4 134.0	4 200.0
Malaysia	285.0	285.0	285.0	285.0	6 653.7	7 104.3	8 286.0	8 286.0
Maldives	1.0	1.0	1.0	1.0	8.0	5.9	5.4	4.9
Mali	34 000.0	34 640.0	34 640.0	34 640.0	4 665.0	6 411.0	8 302.0	8 491.0
Malta					9.0	10.3	9.1	8.8
Marshall Islands					8.5	8.5	7.0	7.0
Mauritania	39 250.0	39 250.0	39 250.0	39 250.0	460.0	460.0	460.0	460.0
Mauritius	7.0	7.0	7.0	7.0	94.0	84.0	79.0	79.0
Mexico	80 952.0	76 223.0	74 269.0	74 227.0	25 378.0	25 584.0	22 869.0	22 899.0
Micronesia (Federated States of)	3.0	3.0	3.0	3.0	2.5	2.0	2.0	2.0
Mongolia	129 294.0	112 971.0	111 354.1	111 293.4	1 176.0	1 239.0	1 345.5	1 337.8
Montenegro		324.0	243.3	241.1		188.0	14.7	14.4
Morocco	21 000.0	21 000.0	21 000.0	21 000.0	9 652.0	8 988.3	9 358.0	9 291.0
Mozambique	33 300.0	33 715.9	35 463.8	35 463.8	4 150.0	5 950.0	5 950.0	5 950.0
Myanmar	314.0	309.0	480.0	480.0	10 498.0	12 217.0	12 500.0	12 500.0
Namibia	38 000.0	38 000.0	38 000.0	38 000.0	820.0	809.0	811.0	812.0
Nauru					0.4	0.4	0.4	0.4
Nepal	1 786.0	1 794.0	1 795.3	1 795.3	2 463.1	2 332.0	2 325.7	2 325.7
Netherlands (Kingdom of the)	901.9	813.3	772.4	771.0	1 057.7	1 059.0	1 042.0	1 040.0
New Zealand	11 885.8	10 838.0	9 553.0	9 485.0	453.9	570.0	601.0	690.0

TABLE 3.
AGRICULTURAL LAND BY USE (THOUSAND HA) (CONTINUED)

COUNTRY	PERMANENT MEADOWS AND PASTURES				CROPLAND			
	2000	2010	2020	2021	2000	2010	2020	2021
Nicaragua	2 990.0	3 200.0	3 292.0	3 292.0	2 151.0	1 850.0	1 799.0	1 799.0
Niger	23 000.0	28 782.0	28 782.0	28 782.0	14 000.0	15 200.0	17 813.0	17 813.0
Nigeria	24 708.0	24 554.0	25 021.0	25 172.0	40 800.0	42 440.0	43 472.0	43 472.0
North Macedonia	636.0	670.0	805.0	802.0	599.0	449.0	457.0	458.0
Norway	158.0	175.8	178.3	177.0	884.0	830.1	807.7	807.0
Oman	1 100.0	1 370.6	1 351.0	1 351.0	73.0	72.6	107.9	116.2
Pakistan	5 000.0	5 000.0	5 000.0	5 000.0	31 698.0	30 242.0	31 723.0	31 303.0
Palau	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.3
Panama	1 535.0	1 509.0	1 509.0	1 509.0	695.0	757.4	665.1	672.3
Papua New Guinea	180.0	190.0	190.0	190.0	908.0	1 077.0	1 228.0	1 251.0
Paraguay	11 985.1	11 985.1	11 985.1	11 985.1	3 110.0	4 060.0	4 824.0	4 824.0
Peru	17 802.0	18 631.0	18 800.0	18 800.0	5 429.3	6 163.3	6 197.0	6 715.7
Philippines	1 500.0	1 500.0	1 500.0	1 500.0	9 734.0	10 600.0	11 159.0	11 183.0
Poland	4 083.0	3 230.0	3 203.0	3 040.7	14 330.0	11 219.0	11 530.0	11 458.8
Portugal	1 417.0	1 792.6	2 113.3	2 130.5	2 539.4	1 861.6	1 841.0	1 831.8
Qatar	50.0	50.0	50.0	50.0	16.0	18.1	24.0	24.0
Republic of Korea	55.0	58.0	56.0	56.0	1 918.0	1 715.0	1 565.0	1 547.0
Republic of Moldova	382.0	353.0	337.6	338.0	2 162.0	2 112.0	1 927.0	1 937.0
Romania	4 949.0	4 547.0	4 163.0	4 090.0	9 908.0	9 609.0	8 886.0	8 989.0
Russian Federation	90 924.0	92 052.0	92 052.0	92 052.0	126 238.0	123 442.0	123 442.0	123 442.0
Rwanda	520.0	430.0	398.0	386.1	1 306.0	1 492.0	1 560.6	1 618.4
Saint Kitts and Nevis	2.0	1.1	0.9	0.9	7.5	4.6	5.1	5.1
Saint Lucia	1.3	0.4	0.4	0.4	12.9	9.6	9.6	9.6
Saint Vincent and the Grenadines	2.0	2.0	2.0	2.0	5.0	5.0	5.0	5.0
Samoa	3.0	6.0	6.4	6.4	45.0	35.5	43.0	43.0
San Marino					1.0	1.0	2.3	2.3
Sao Tome and Principe	1.0	1.0	1.0	1.0	35.0	32.0	41.0	42.0
Saudi Arabia	170 000.0	170 000.0	170 000.0	170 000.0	3 785.0	3 406.0	3 637.4	3 637.0
Senegal	5 650.0	5 600.0	5 600.0	5 600.0	3 377.0	3 678.0	3 830.0	3 911.0
Serbia		677.2	671.0	666.0		2 844.4	2 811.0	2 819.0
Seychelles					4.0	2.4	1.6	1.6
Sierra Leone	2 200.0	2 200.0	2 200.0	2 200.0	610.0	1 730.4	1 749.0	1 749.0
Singapore					1.2	0.7	0.7	0.7
Slovakia	865.0	527.3	519.0	512.0	1 575.0	1 417.4	1 364.0	1 344.0
Slovenia	314.0	387.6	376.5	377.6	204.0	236.3	234.0	233.4
Solomon Islands	7.0	8.0	8.0	8.0	69.0	100.0	112.0	112.0
Somalia	43 000.0	43 000.0	43 000.0	43 000.0	1 067.0	1 126.0	1 128.0	1 129.0
South Africa	83 928.0	83 928.0	83 928.0	83 928.0	14 197.0	12 963.0	12 413.0	12 413.0
South Sudan			25 773.0	25 773.0			2 477.7	2 479.7
Spain	11 462.0	10 324.0	9 496.2	9 618.6	18 304.0	17 221.0	16 646.4	16 609.8
Sri Lanka	440.0	440.0	440.0	440.0	1 910.0	2 180.0	2 372.0	2 372.0
Sudan			91 454.0	91 454.0			21 210.8	21 210.8

TABLE 3.
AGRICULTURAL LAND BY USE (THOUSAND HA) (CONTINUED)

COUNTRY	PERMANENT MEADOWS AND PASTURES				CROPLAND			
	2000	2010	2020	2021	2000	2010	2020	2021
Suriname	21.0	17.3	16.0	16.0	67.0	61.0	65.0	62.0
Sweden	371.9	451.9	463.5	463.5	2 602.2	2 621.5	2 542.0	2 538.7
Switzerland	1 133.9	1 106.6	1 077.4	1 078.7	431.9	427.8	425.0	420.7
Syrian Arab Republic	8 359.0	8 212.0	8 186.8	8 186.8	5 352.0	5 696.0	5 726.6	5 726.6
Tajikistan	3 687.0	3 875.0	3 875.0	3 875.0	886.0	880.7	1 041.0	1 042.0
Thailand	800.0	800.0	800.0	800.0	21 095.0	22 024.0	22 471.9	22 700.0
Timor-Leste	150.0	150.0	150.0	150.0	187.0	188.0	191.4	191.4
Togo	1 000.0	1 000.0	1 000.0	1 000.0	2 400.0	2 665.0	2 820.0	2 820.0
Tonga	4.0	4.0	4.0	4.0	26.0	28.0	31.0	31.0
Trinidad and Tobago	7.0	7.0	7.0	7.0	60.0	47.0	47.0	47.0
Tunisia	4 561.0	4 852.0	4 750.0	4 750.0	4 990.0	5 186.0	4 950.5	4 950.5
Türkiye	14 100.0	14 617.0	14 617.0	14 617.0	26 379.0	24 395.0	23 145.0	23 473.0
Turkmenistan	33 500.0	32 000.0	31 838.0	31 838.0	2 000.0	2 000.0	2 000.0	2 000.0
Tuvalu					2.0	1.8	1.8	1.8
Uganda	5 112.0	5 315.0	5 315.0	5 315.0	7 400.0	8 950.0	9 100.0	9 100.0
Ukraine	7 910.0	7 893.0	7 534.0	7 534.0	33 496.0	33 374.0	33 777.0	33 777.0
United Arab Emirates	300.0	300.0	300.0	300.0	247.0	92.3	89.8	91.6
United Kingdom of Great Britain and Northern Ireland	11 036.0	11 208.0	11 235.7	11 159.3	5 928.0	6 016.0	6 023.6	6 055.8
United Republic of Tanzania	24 000.0	24 000.0	24 000.0	24 000.0	10 000.0	13 399.0	15 521.2	15 521.2
United States of America	236 331.0	246 575.2	245 373.6	245 373.6	178 068.0	160 416.5	160 436.8	160 436.8
Uruguay	13 543.0	12 362.0	12 000.0	12 000.0	1 415.0	2 071.0	2 063.4	2 069.6
Uzbekistan	22 500.0	21 067.0	21 244.3	21 253.1	4 828.0	4 531.0	4 438.2	4 437.5
Vanuatu	42.0	42.0	42.0	42.0	133.0	145.0	145.0	145.0
Venezuela (Bolivarian Republic of)	18 240.0	18 200.0	18 200.0	18 200.0	3 395.0	3 300.0	3 300.0	3 300.0
Viet Nam	642.0	642.0	642.0	642.0	8 138.0	10 118.1	11 718.0	11 718.0
Yemen	22 000.0	22 000.0	22 000.0	22 000.0	1 669.0	1 579.0	1 452.0	1 452.0
Zambia	19 650.0	20 000.0	20 000.0	20 000.0	2 876.0	3 436.0	3 839.0	3 839.0
Zimbabwe	11 360.0	12 100.0	12 100.0	12 100.0	3 700.0	4 100.0	4 100.0	4 100.0

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 4.
CROPLAND AREA PER CAPITA (HA PER CAPITA)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	0.24	0.23	0.22	0.21	0.21	0.20	0.20	0.20	0.20
Africa	0.28	0.26	0.25	0.23	0.23	0.22	0.22	0.21	0.21
Americas	0.44	0.42	0.39	0.38	0.37	0.37	0.37	0.37	0.37
Asia	0.15	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13
Europe	0.42	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Oceania	0.82	0.85	0.76	0.83	0.80	0.79	0.77	0.76	0.77
Afghanistan	0.40	0.32	0.28	0.23	0.22	0.22	0.21	0.21	0.20
Albania	0.22	0.22	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Algeria	0.27	0.25	0.23	0.21	0.21	0.20	0.20	0.20	0.19
Andorra	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Angola	0.20	0.18	0.19	0.19	0.19	0.18	0.18	0.17	0.16
Antigua and Barbuda	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05
Argentina	0.77	0.89	0.95	0.96	0.94	0.93	0.94	0.96	0.96
Armenia	0.15	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18
Australia	1.25	1.33	1.18	1.32	1.26	1.25	1.22	1.21	1.22
Austria	0.18	0.18	0.17	0.16	0.16	0.16	0.16	0.16	0.16
Azerbaijan	0.25	0.24	0.23	0.22	0.23	0.23	0.23	0.23	0.23
Bahamas	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Bahrain	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Barbados	0.06	0.05	0.05	0.03	0.03	0.03	0.03	0.03	0.03
Belarus	0.61	0.57	0.58	0.60	0.60	0.60	0.60	0.60	0.60
Belgium	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Belize	0.41	0.36	0.33	0.33	0.33	0.32	0.32	0.33	0.33
Benin	0.38	0.36	0.33	0.31	0.29	0.28	0.28	0.27	0.26
Bhutan	0.29	0.28	0.16	0.15	0.13	0.13	0.13	0.13	0.13
Bolivia (Plurinational State of)	0.39	0.43	0.44	0.43	0.41	0.42	0.42	0.42	0.42
Bosnia and Herzegovina	0.26	0.27	0.29	0.32	0.34	0.33	0.33	0.34	0.34
Botswana	0.20	0.11	0.12	0.11	0.11	0.11	0.10	0.10	0.10
Brazil	0.31	0.32	0.31	0.31	0.30	0.31	0.31	0.31	0.31
Brunei Darussalam	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
Bulgaria	0.47	0.43	0.44	0.50	0.51	0.51	0.51	0.52	0.53
Burkina Faso	0.35	0.34	0.33	0.32	0.31	0.31	0.31	0.31	0.31
Burundi	0.21	0.18	0.15	0.14	0.14	0.13	0.13	0.13	0.13
Cabo Verde	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
Cambodia	0.32	0.29	0.27	0.27	0.27	0.27	0.27	0.28	0.28
Cameroon	0.47	0.42	0.39	0.34	0.32	0.31	0.30	0.29	0.28
Canada	1.34	1.23	1.11	1.08	1.06	1.05	1.03	1.01	1.01
Central African Republic	0.52	0.46	0.41	0.40	0.38	0.38	0.37	0.36	0.35
Chad	0.44	0.39	0.36	0.37	0.35	0.34	0.33	0.32	0.31
Chile	0.14	0.12	0.10	0.10	0.10	0.10	0.09	0.09	0.09
China	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09
Colombia	0.12	0.09	0.07	0.08	0.08	0.09	0.09	0.09	0.09
Comoros	0.21	0.20	0.18	0.16	0.15	0.15	0.15	0.15	0.14

TABLE 4.
CROPLAND AREA PER CAPITA (HA PER CAPITA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	0.17	0.15	0.13	0.12	0.12	0.12	0.11	0.11	0.12
Costa Rica	0.12	0.11	0.12	0.12	0.12	0.12	0.11	0.11	0.12
Côte d'Ivoire	0.39	0.37	0.35	0.38	0.35	0.39	0.38	0.38	0.37
Croatia	0.20	0.21	0.23	0.22	0.21	0.21	0.22	0.24	0.23
Cuba	0.37	0.36	0.34	0.31	0.31	0.31	0.31	0.32	0.32
Cyprus	0.15	0.16	0.10	0.11	0.10	0.11	0.10	0.10	0.10
Czechia	0.32	0.27	0.25	0.24	0.24	0.24	0.24	0.24	0.24
Democratic People's Republic of Korea	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10
Democratic Republic of the Congo	0.15	0.13	0.15	0.18	0.18	0.18	0.17	0.17	0.16
Denmark	0.43	0.43	0.44	0.42	0.42	0.42	0.42	0.41	0.41
Djibouti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dominica	0.28	0.29	0.33	0.33	0.33	0.32	0.32	0.32	0.32
Dominican Republic	0.15	0.13	0.12	0.12	0.12	0.11	0.11	0.11	0.11
Ecuador	0.24	0.18	0.17	0.16	0.15	0.14	0.14	0.14	0.14
Egypt	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
El Salvador	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Equatorial Guinea	0.15	0.12	0.09	0.07	0.07	0.07	0.06	0.06	0.06
Eritrea	0.24	0.22	0.22	0.21	0.20	0.20	0.20	0.19	0.19
Estonia	0.61	0.45	0.49	0.52	0.52	0.52	0.53	0.53	0.53
Eswatini	0.19	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16
Ethiopia	0.16	0.18	0.18	0.17	0.16	0.16	0.16	0.16	0.15
Fiji	0.24	0.19	0.16	0.16	0.15	0.15	0.15	0.15	0.15
Finland	0.42	0.43	0.42	0.41	0.41	0.41	0.41	0.41	0.41
France	0.33	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29
Gabon	0.39	0.34	0.29	0.24	0.23	0.23	0.22	0.22	0.21
Gambia	0.17	0.17	0.24	0.20	0.19	0.18	0.18	0.17	0.17
Georgia	0.25	0.15	0.14	0.13	0.12	0.12	0.11	0.12	0.12
Germany	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14
Ghana	0.28	0.27	0.25	0.24	0.24	0.23	0.23	0.23	0.23
Greece	0.35	0.34	0.34	0.30	0.30	0.30	0.30	0.31	0.31
Grenada	0.10	0.07	0.08	0.06	0.06	0.06	0.06	0.06	0.06
Guatemala	0.19	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
Guinea	0.41	0.37	0.35	0.33	0.32	0.31	0.31	0.30	0.29
Guinea-Bissau	0.45	0.38	0.35	0.31	0.29	0.29	0.28	0.27	0.27
Guyana	0.58	0.59	0.60	0.59	0.59	0.57	0.56	0.56	0.56
Haiti	0.14	0.14	0.15	0.15	0.14	0.14	0.12	0.12	0.11
Honduras	0.21	0.19	0.18	0.17	0.17	0.16	0.16	0.16	0.16
Hungary	0.47	0.48	0.46	0.46	0.46	0.46	0.46	0.43	0.44
Iceland	0.46	0.43	0.39	0.37	0.35	0.34	0.34	0.33	0.33
India	0.16	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12
Indonesia	0.17	0.18	0.18	0.18	0.20	0.20	0.20	0.20	0.20
Iran (Islamic Republic of)	0.25	0.26	0.23	0.20	0.20	0.20	0.20	0.20	0.20
Iraq	0.18	0.17	0.14	0.14	0.13	0.13	0.13	0.13	0.12
Ireland	0.13	0.12	0.10	0.10	0.10	0.09	0.09	0.09	0.09

TABLE 4.
CROPLAND AREA PER CAPITA (HA PER CAPITA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	0.07	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.05
Italy	0.20	0.18	0.16	0.15	0.15	0.15	0.16	0.16	0.16
Jamaica	0.10	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Japan	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03
Jordan	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03
Kazakhstan	1.99	1.83	1.73	1.67	1.63	1.61	1.57	1.56	1.55
Kenya	0.17	0.16	0.14	0.14	0.13	0.13	0.13	0.12	0.12
Kiribati	0.38	0.35	0.31	0.29	0.28	0.28	0.27	0.27	0.26
Kuwait	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Kyrgyzstan	0.29	0.26	0.25	0.23	0.22	0.22	0.22	0.21	0.21
Lao People's Democratic Republic	0.18	0.21	0.24	0.24	0.23	0.21	0.20	0.19	0.18
Latvia	0.41	0.49	0.56	0.62	0.66	0.67	0.69	0.71	0.73
Lebanon	0.06	0.06	0.05	0.04	0.04	0.05	0.05	0.05	0.05
Lesotho	0.17	0.17	0.16	0.11	0.19	0.20	0.19	0.19	0.19
Liberia	0.21	0.19	0.16	0.15	0.15	0.14	0.14	0.14	0.13
Libya	0.42	0.36	0.32	0.33	0.32	0.32	0.31	0.31	0.30
Lithuania	0.81	0.58	0.69	0.74	0.74	0.75	0.79	0.81	0.83
Luxembourg	0.14	0.13	0.13	0.11	0.11	0.10	0.10	0.10	0.10
Madagascar	0.22	0.19	0.17	0.14	0.14	0.13	0.13	0.13	0.12
Malawi	0.26	0.26	0.25	0.23	0.22	0.22	0.22	0.21	0.21
Malaysia	0.29	0.26	0.25	0.27	0.26	0.26	0.25	0.25	0.25
Maldives	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Mali	0.42	0.44	0.41	0.41	0.40	0.40	0.39	0.39	0.39
Malta	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Marshall Islands	0.16	0.16	0.16	0.14	0.15	0.15	0.16	0.16	0.17
Mauritania	0.17	0.15	0.13	0.12	0.11	0.11	0.10	0.10	0.10
Mauritius	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06
Mexico	0.26	0.25	0.23	0.21	0.19	0.18	0.18	0.18	0.18
Micronesia (Federated States of)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Mongolia	0.48	0.46	0.46	0.45	0.43	0.42	0.41	0.41	0.40
Montenegro			0.30	0.02	0.02	0.02	0.02	0.02	0.02
Morocco	0.34	0.30	0.28	0.26	0.28	0.27	0.24	0.26	0.25
Mozambique	0.23	0.26	0.26	0.22	0.21	0.20	0.20	0.19	0.19
Myanmar	0.23	0.23	0.25	0.24	0.24	0.24	0.24	0.23	0.23
Namibia	0.45	0.42	0.39	0.35	0.34	0.34	0.33	0.33	0.32
Nauru	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
Nepal	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08
Netherlands (Kingdom of the)	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06
New Zealand	0.12	0.12	0.13	0.12	0.12	0.12	0.13	0.12	0.13
Nicaragua	0.42	0.41	0.32	0.29	0.28	0.27	0.27	0.27	0.26
Niger	1.20	1.02	0.91	0.84	0.82	0.79	0.76	0.73	0.71
Nigeria	0.33	0.30	0.26	0.23	0.22	0.22	0.21	0.21	0.20
North Macedonia	0.29	0.23	0.21	0.21	0.22	0.22	0.22	0.22	0.22
Norway	0.20	0.19	0.17	0.16	0.15	0.15	0.15	0.15	0.15

TABLE 4.
CROPLAND AREA PER CAPITA (HA PER CAPITA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03
Pakistan	0.21	0.18	0.16	0.15	0.15	0.15	0.14	0.14	0.14
Palau	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13
Panama	0.23	0.21	0.21	0.18	0.17	0.16	0.16	0.15	0.15
Papua New Guinea	0.16	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13
Paraguay	0.61	0.65	0.70	0.80	0.75	0.75	0.74	0.73	0.72
Peru	0.20	0.21	0.21	0.19	0.18	0.18	0.17	0.19	0.20
Philippines	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10
Poland	0.37	0.32	0.29	0.29	0.29	0.30	0.30	0.30	0.30
Portugal	0.25	0.20	0.18	0.18	0.17	0.17	0.18	0.18	0.18
Qatar	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Republic of Korea	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03
Republic of Moldova	0.51	0.53	0.57	0.60	0.62	0.61	0.62	0.62	0.63
Romania	0.45	0.45	0.47	0.46	0.45	0.47	0.48	0.46	0.47
Russian Federation	0.86	0.86	0.86	0.85	0.85	0.85	0.85	0.85	0.85
Rwanda	0.16	0.16	0.14	0.14	0.13	0.12	0.12	0.12	0.12
Saint Kitts and Nevis	0.17	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11
Saint Lucia	0.08	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Saint Vincent and the Grenadines	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Samoa	0.24	0.20	0.18	0.31	0.25	0.23	0.20	0.20	0.20
San Marino	0.04	0.03	0.03	0.07	0.07	0.07	0.07	0.07	0.07
Sao Tome and Principe	0.24	0.20	0.18	0.18	0.19	0.19	0.19	0.19	0.19
Saudi Arabia	0.18	0.15	0.12	0.11	0.11	0.10	0.10	0.10	0.10
Senegal	0.35	0.29	0.29	0.26	0.25	0.24	0.24	0.23	0.23
Serbia			0.37	0.37	0.38	0.38	0.38	0.38	0.39
Seychelles	0.05	0.05	0.03	0.02	0.02	0.02	0.01	0.01	0.01
Sierra Leone	0.13	0.28	0.27	0.24	0.23	0.22	0.22	0.21	0.21
Singapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slovakia	0.29	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25
Slovenia	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Solomon Islands	0.16	0.17	0.19	0.18	0.17	0.17	0.17	0.16	0.16
Somalia	0.12	0.11	0.09	0.08	0.08	0.07	0.07	0.07	0.07
South Africa	0.30	0.28	0.25	0.22	0.22	0.22	0.21	0.21	0.21
South Sudan				0.23	0.24	0.24	0.24	0.23	0.23
Spain	0.45	0.41	0.37	0.37	0.36	0.36	0.36	0.35	0.35
Sri Lanka	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Sudan				0.53	0.51	0.51	0.49	0.48	0.46
Suriname	0.14	0.11	0.11	0.12	0.12	0.11	0.11	0.11	0.10
Sweden	0.29	0.30	0.28	0.26	0.25	0.25	0.25	0.25	0.24
Switzerland	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Syrian Arab Republic	0.33	0.30	0.26	0.30	0.30	0.30	0.28	0.28	0.27
Tajikistan	0.14	0.13	0.12	0.11	0.12	0.11	0.11	0.11	0.11
Thailand	0.33	0.33	0.32	0.31	0.31	0.31	0.31	0.31	0.32
Timor-Leste	0.21	0.19	0.17	0.16	0.15	0.15	0.15	0.15	0.14

TABLE 4.
CROPLAND AREA PER CAPITA (HA PER CAPITA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	0.48	0.44	0.41	0.38	0.36	0.35	0.34	0.33	0.33
Tonga	0.25	0.25	0.26	0.29	0.29	0.29	0.30	0.29	0.29
Trinidad and Tobago	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Tunisia	0.50	0.47	0.48	0.43	0.42	0.41	0.41	0.41	0.40
Türkiye	0.41	0.39	0.33	0.30	0.28	0.28	0.28	0.28	0.28
Turkmenistan	0.44	0.43	0.38	0.35	0.34	0.33	0.32	0.32	0.32
Tuvalu	0.21	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
Uganda	0.31	0.29	0.28	0.24	0.23	0.22	0.21	0.20	0.20
Ukraine	0.69	0.71	0.73	0.75	0.75	0.76	0.76	0.77	0.78
United Arab Emirates	0.08	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01
United Kingdom of Great Britain and Northern Ireland	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09
United Republic of Tanzania	0.29	0.29	0.30	0.28	0.26	0.26	0.26	0.25	0.24
United States of America	0.63	0.57	0.52	0.49	0.49	0.48	0.48	0.48	0.48
Uruguay	0.43	0.43	0.62	0.73	0.65	0.64	0.62	0.60	0.60
Uzbekistan	0.19	0.18	0.16	0.14	0.14	0.14	0.13	0.13	0.13
Vanuatu	0.69	0.65	0.59	0.52	0.50	0.49	0.48	0.47	0.45
Venezuela (Bolivarian Republic of)	0.14	0.13	0.11	0.11	0.11	0.11	0.11	0.12	0.12
Viet Nam	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Yemen	0.09	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.04
Zambia	0.29	0.24	0.25	0.23	0.22	0.22	0.21	0.20	0.20
Zimbabwe	0.31	0.33	0.32	0.29	0.28	0.27	0.27	0.26	0.26

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 5.
AREA EQUIPPED FOR IRRIGATION (THOUSAND HA)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	289 344	310 291	322 837	338 042	341 992	343 494	348 818	352 305	352 497
Africa	13 189	14 169	15 123	16 420	16 664	16 723	16 846	16 954	17 013
Americas	47 617	49 459	51 712	54 568	55 520	56 114	56 683	56 702	56 719
Asia	199 144	217 189	227 477	237 627	239 927	240 555	244 948	248 135	248 240
Europe	26 712	26 381	25 284	26 129	26 573	26 794	27 044	27 202	27 212
Oceania	2 682	3 093	3 241	3 298	3 308	3 308	3 296	3 312	3 312
Afghanistan	3 203	3 208	3 208	3 208	3 208	3 208	3 208	3 208	3 208
Albania	340	362	331	353	354	356	357	360	361
Algeria	601	825	1 101	1 360	1 365	1 374	1 382	1 382	1 382
Andorra		0	0	0	0	0	0	0	0
Angola	84	86	86	86	86	86	86	86	86
Antigua and Barbuda	0	0	0	0	0	0	0	0	0
Argentina	1 565	1 820	2 250	2 357	2 357	2 357	2 357	2 357	2 357
Armenia	274	263	243	221	213	208	208	209	209
Australia	2 384	2 545	2 546	2 546	2 546	2 546	2 546	2 546	2 546
Austria	94	120	117	106	100	100	100	100	100
Azerbaijan	1 430	1 433	1 425	1 435	1 446	1 449	1 450	1 480	1 485
Bahamas	1	1	1	1	1	1	1	1	1
Bahrain	4	4	4	4	4	4	4	4	4
Bangladesh	4 187	4 875	5 180	5 500	5 550	5 560	7 777	7 879	7 944
Barbados	5	5	5	5	5	5	5	5	5
Belarus	125	115	57	30	30	30	30	30	30
Belgium	33	22	21	22	24	24	24	24	24
Belize	3	4	4	4	4	4	4	4	4
Benin	11	18	23	37	45	49	53	53	53
Bhutan	27	27	32	33	33	33	33	33	33
Bolivia (Plurinational State of)	226	256	289	392	442	473	503	520	540
Bosnia and Herzegovina	3	3	3	3	3	3	3	3	3
Botswana	1	2	3	3	4	4	4	4	4
Brazil	3 691	4 403	5 400	6 955	7 577	7 889	8 200	8 200	8 200
Brunei Darussalam	1	1	1	1	1	1	1	1	1
Bulgaria	622	112	138	129	136	136	136	136	136
Burkina Faso	25	37	50	54	54	55	55	55	55
Burundi	21	23	23	23	23	23	23	23	23
Cabo Verde	3	4	4	4	4	4	4	4	4
Cambodia	270	270	270	270	270	270	270	270	270
Cameroon	26	27	29	29	29	29	29	29	29
Canada	1 145	1 218	1 218	1 218	1 218	1 218	1 218	1 218	1 218
Central African Republic	1	1	1	1	1	1	1	1	1
Chad	26	30	30	30	30	30	30	30	30
Chile	1 100	1 100	1 110	1 110	1 110	1 110	1 110	1 110	1 110
China	54 201	62 276	66 736	72 440	74 322	74 921	74 921	74 921	74 921
Colombia	900	960	1 050	1 087	1 087	1 087	1 087	1 087	1 087
Comoros	0	0	0	0	0	0	0	0	0

TABLE 5.
AREA EQUIPPED FOR IRRIGATION (THOUSAND HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	2	2	2	2	2	2	2	2	2
Costa Rica	103	103	102	137	160	160	160	160	160
Côte d'Ivoire	73	73	73	73	73	73	73	73	73
Croatia	3	12	23	28	30	36	42	48	47
Cuba	807	702	646	639	639	639	639	639	639
Cyprus	41	46	40	39	38	38	38	38	38
Czechia	35	47	32	34	46	46	46	36	36
Democratic People's Republic of Korea	1 460	1 460	1 460	1 460	1 460	1 460	1 460	1 460	1 460
Democratic Republic of the Congo	11	11	11	11	11	11	11	11	11
Denmark	447	449	435	218	304	299	354	299	301
Djibouti	1	1	1	1	1	1	1	1	1
Dominica			0	0	0	0	0	0	0
Dominican Republic	275	290	307	307	307	308	308	308	308
Ecuador	853	1 055	1 500	1 675	1 710	1 710	1 710	1 710	1 710
Egypt	3 291	3 516	3 664	3 782	3 823	3 823	3 880	3 928	3 987
El Salvador	45	45	44	54	60	63	46	46	46
Equatorial Guinea					1	1	1	1	1
Eritrea	21	21	21	21	21	21	21	21	21
Estonia	2	1	1	2	3	3	3	2	2
Eswatini	50	50	50	50	50	50	50	50	50
Ethiopia	290	445	640	858	858	858	858	858	858
Fiji	3	4	4	4	4	4	4	4	4
Finland	88	80	69	70	55	55	55	71	71
France	2 634	2 678	2 727	2 731	2 735	2 779	2 823	2 867	2 867
Gabon	4	4	4	4	4	4	4	4	4
Gambia	2	2	5	5	5	5	5	5	5
Georgia	469	469	469	469	127	120	112	112	112
Germany	485	510	652	680	676	676	676	676	676
Ghana	31	33	34	221	222	223	223	223	223
Greece	1 321	1 594	1 385	1 665	1 799	1 866	1 934	2 001	2 001
Grenada	0	1	2	2	2	2	2	2	2
Guatemala	180	315	331	338	338	338	338	338	338
Guinea	95	95	95	95	95	95	95	95	95
Guinea-Bissau	25	25	25	25	25	25	25	25	25
Guyana	149	147	144	143	143	143	143	143	143
Haiti	95	96	97	97	97	97	97	97	97
Honduras	80	83	90	90	90	90	90	90	90
Hungary	236	153	165	207	198	202	190	190	190
Iceland						0	0	0	0
India	60 432	64 646	67 700	70 074	70 400	70 400	72 504	75 500	75 500
Indonesia	5 500	6 722	6 722	6 722	6 722	6 722	6 722	6 722	6 722
Iran (Islamic Republic of)	7 870	8 574	9 273	9 600	9 600	9 600	9 600	9 600	9 600
Iraq	3 525	3 525	3 525	3 525	3 525	3 525	3 525	3 525	3 525
Ireland									

TABLE 5.
AREA EQUIPPED FOR IRRIGATION (THOUSAND HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	206	225	225	285	306	306	306	306	306
Italy	3 856	3 973	3 735	4 084	4 124	4 124	4 124	4 124	4 124
Jamaica	26	28	31	31	31	31	31	31	31
Japan	2 641	2 556	2 496	2 446	2 418	2 405	2 405	2 405	2 405
Jordan	77	80	96	105	107	107	107	107	107
Kazakhstan	2 877	2 362	2 185	2 205	2 205	2 205	2 225	2 234	2 243
Kenya	85	115	151	151	151	151	151	151	151
Kiribati									
Kuwait	7	8	14	18	18	18	18	18	18
Kyrgyzstan	1 050	1 021	1 021	1 023	1 023	1 023	1 023	1 023	1 023
Lao People's Democratic Republic	296	300	340	410	439	439	441	441	441
Latvia	1	1	1	1	1	1	1	1	1
Lebanon	104	111	108	97	90	90	90	90	90
Lesotho	3	3	3	3	3	3	3	3	3
Liberia	3	3	3	3	3	3	3	3	3
Libya	470	425	405	400	400	400	400	400	400
Lithuania	7	4	4	4	4	5	6	7	7
Luxembourg									
Madagascar	1 086	1 086	1 086	1 086	1 086	1 086	1 086	1 086	1 086
Malawi	55	73	86	91	91	91	91	91	91
Malaysia	369	375	396	442	442	442	442	442	442
Maldives									
Mali	236	291	350	380	380	380	380	380	380
Malta	2	3	4	4	4	4	4	4	4
Marshall Islands									
Mauritania	45	45	45	45	45	45	45	45	45
Mauritius	20	21	20	19	19	19	19	19	19
Mexico	6 300	6 300	6 480	6 687	6 811	7 057	7 302	7 304	7 304
Micronesia (Federated States of)									
Mongolia	88	91	94	90	87	87	87	87	87
Montenegro			2	2	2	2	2	2	2
Morocco	1 443	1 490	1 515	1 783	1 896	1 916	1 946	1 946	1 946
Mozambique	115	118	118	118	118	118	118	118	118
Myanmar	1 868	2 136	2 329	2 295	2 295	2 295	2 295	2 295	2 287
Namibia	7	8	8	8	8	8	8	8	8
Nauru									
Nepal	1 135	1 193	1 254	1 369	1 369	1 369	1 369	1 369	1 369
Netherlands (Kingdom of the)	498	408	486	515	522	522	522	522	522
New Zealand	285	533	680	737	747	747	735	751	751
Nicaragua	86	140	194	199	199	199	199	199	199
Niger	73	80	93	101	159	183	207	267	267
Nigeria	268	304	324	331	331	331	331	331	331
North Macedonia	55	128	128	128	128	128	128	128	128
Norway	134	118	93	84	84	84	84	85	85

TABLE 5.
AREA EQUIPPED FOR IRRIGATION (THOUSAND HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	60	60	65	83	101	109	110	108	116
Pakistan	18 090	18 980	19 680	19 990	19 990	19 990	19 990	19 990	19 990
Palau									
Panama	35	34	32	35	37	38	39	41	41
Papua New Guinea									
Paraguay	67	70	90	140	140	140	140	140	140
Peru	2 012	2 250	2 485	2 600	2 600	2 600	2 600	2 600	2 600
Philippines	1 361	1 413	1 543	1 731	1 888	1 921	1 972	2 006	2 040
Poland	89	124	85	205	354	436	519	601	601
Portugal	792	617	544	549	554	560	567	567	567
Qatar	13	13	16	21	22	22	24	24	24
Republic of Korea	880	867	788	734	707	707	707	707	707
Republic of Moldova	302	228	228	228	228	223	222	218	214
Romania	3 082	3 176	3 154	3 149	3 149	3 149	3 152	3 166	3 170
Russian Federation	4 606	4 553	4 300	4 300	4 300	4 300	4 300	4 300	4 300
Rwanda	9	9	9	9	9	9	9	9	9
Saint Kitts and Nevis	0	0	0	0	0	0	0	0	0
Saint Lucia	3	3	3	3	3	3	3	3	3
Saint Vincent and the Grenadines	1	1	1	1	1	1	1	1	1
Samoa									
San Marino									
Sao Tome and Principe	10	10	10	10	10	10	10	10	10
Saudi Arabia	1 616	1 891	2 525	3 098	3 279	3 279	3 279	3 279	3 279
Senegal	106	120	120	120	120	120	120	120	120
Serbia			88	77	70	68	63	63	64
Seychelles		0	0	0	0	0	0	0	0
Sierra Leone	30	30	30	30	30	30	30	30	30
Singapore									
Slovakia	183	189	109	62	63	66	66	57	62
Slovenia	3	5	8	6	6	6	7	7	7
Solomon Islands									
Somalia	200	200	200	200	200	200	200	200	200
South Africa	1 498	1 518	1 538	1 670	1 670	1 670	1 670	1 670	1 670
South Sudan				26	19	19	19	19	19
Spain	3 735	3 858	3 660	3 923	3 923	3 923	3 923	3 923	3 923
Sri Lanka	570	570	570	630	637	637	637	637	637
Sudan				1 855	1 855	1 855	1 855	1 855	1 855
Suriname	52	52	57	70	68	68	67	65	62
Sweden	137	167	164	156	157	157	157	157	157
Switzerland	38	50	61	54	52	52	52	52	52
Syrian Arab Republic	1 211	1 428	1 341	1 310	1 310	1 310	1 310	1 310	1 310
Tajikistan	719	728	757	817	817	817	817	817	817
Thailand	5 590	6 187	6 415	6 415	6 415	6 415	6 415	6 415	6 415
Timor-Leste	32	35	35	35	35	35	35	35	35

TABLE 5.
AREA EQUIPPED FOR IRRIGATION (THOUSAND HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	8	8	8	8	8	8	8	8	8
Tonga									
Trinidad and Tobago	*5*	*7*	*7*	*7*	*7*	*7*	*7*	*7*	*7*
Tunisia	394	418	457	477	495	495	495	495	495
Türkiye	4 745	5 215	5 215	5 215	5 215	5 215	5 215	5 215	5 215
Turkmenistan	1 850	1 990	1 995	1 995	1 995	1 995	1 995	1 995	1 995
Tuvalu									
Uganda	9	10	11	11	11	11	11	11	11
Ukraine	2 408	2 183	2 178	2 166	2 166	2 166	2 166	2 166	2 166
United Arab Emirates	210	227	92	83	84	84	92	92	94
United Kingdom of Great Britain and Northern Ireland	243	228	95	152	189	208	208	208	208
United Republic of Tanzania	160	250	335	364	364	364	364	364	364
United States of America	27 000	26 762	26 415	26 833	26 916	26 916	26 916	26 916	26 916
Uruguay	188	218	230	254	263	263	263	263	263
Uzbekistan	4 200	4 198	4 255	4 312	4 313	4 312	4 307	4 329	4 337
Vanuatu									
Venezuela (Bolivarian Republic of)	580	950	1 055	1 055	1 055	1 055	1 055	1 055	1 055
Viet Nam	3 864	4 412	4 585	4 585	4 585	4 585	4 585	4 585	4 585
Yemen	500	680	680	680	680	680	680	680	680
Zambia	134	156	156	156	156	156	156	156	156
Zimbabwe	157	160	169	182	187	187	187	187	187

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 6.
SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA (PERCENT)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	19.4	20.5	21.2	21.7	21.8	21.9	22.2	22.4	22.3
Africa	5.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Americas	12.9	13.3	14.1	14.7	15.0	15.1	15.2	15.1	15.0
Asia	35.3	37.8	39.4	40.9	40.9	41.0	41.8	42.3	42.3
Europe	8.8	9.0	8.7	9.0	9.2	9.3	9.4	9.4	9.5
Oceania	10.4	10.8	11.5	9.8	9.9	9.8	9.9	9.9	9.7
Afghanistan	41.1	40.5	40.5	40.6	40.6	40.1	40.1	39.9	39.9
Albania	48.6	54.9	47.6	50.8	50.9	51.1	51.3	52.3	52.5
Algeria	7.3	9.9	13.1	16.1	16.1	16.2	16.2	16.2	16.2
Andorra		18.8	19.5	18.5	18.3	18.0	18.8	19.3	19.8
Angola	2.6	2.4	1.9	1.6	1.5	1.5	1.5	1.5	1.5
Antigua and Barbuda	3.4	5.0	6.4	7.6	7.6	7.6	7.6	7.6	7.6
Argentina	5.5	5.2	5.8	5.7	5.7	5.7	5.6	5.5	5.5
Armenia	56.2	52.1	48.3	43.9	42.3	41.3	41.2	41.5	41.6
Australia	10.0	9.5	9.8	8.1	8.2	8.1	8.2	8.2	8.0
Austria	6.4	8.3	8.2	7.5	7.2	7.2	7.2	7.2	7.2
Azerbaijan	69.3	69.4	67.5	66.0	61.8	61.6	61.6	62.8	62.8
Bahamas	11.1	11.1	10.0	9.1	9.1	9.1	9.1	9.1	9.1
Bahrain	67.8	74.5	79.0	86.3	90.8	91.0	91.0	91.0	91.0
Bangladesh	47.6	56.0	60.0	62.3	61.9	61.6	83.9	84.5	83.9
Barbados	31.3	38.6	41.5	60.0	67.5	67.5	67.5	67.5	67.5
Belarus	2.0	2.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
Belgium	3.7	2.6	2.4	2.6	2.8	2.8	2.7	2.7	2.7
Belize	3.0	3.4	3.3	2.9	2.9	2.9	2.8	2.7	2.7
Benin	0.4	0.6	0.7	1.1	1.3	1.4	1.6	1.6	1.6
Bhutan	15.6	14.5	28.2	29.3	33.0	33.0	33.0	33.0	33.0
Bolivia (Plurinational State of)	6.8	6.4	6.5	8.3	9.5	9.7	10.1	10.4	10.6
Bosnia and Herzegovina	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Botswana	0.4	0.9	1.0	1.3	1.4	1.5	1.5	1.5	1.5
Brazil	6.7	7.4	8.8	11.0	11.9	12.3	12.7	12.5	12.4
Brunei Darussalam	12.5	11.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulgaria	16.5	3.3	4.1	3.5	3.7	3.7	3.7	3.7	3.7
Burkina Faso	0.6	0.8	1.0	0.9	0.9	0.9	0.8	0.8	0.8
Burundi	1.6	1.7	1.7	1.6	1.5	1.5	1.5	1.4	1.4
Cabo Verde	6.4	6.9	6.6	6.8	6.8	6.8	6.8	6.8	6.8
Cambodia	7.0	7.0	6.9	6.5	6.3	6.2	6.1	5.9	5.9
Cameroon	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Canada	2.8	3.1	3.2	3.2	3.2	3.1	3.1	3.2	3.2
Central African Republic	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Chad	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6
Chile	52.1	58.4	63.8	62.6	62.1	61.9	61.7	61.4	61.3
China	41.4	46.5	49.3	55.0	57.1	57.9	58.2	58.2	58.2
Colombia	19.8	26.6	31.3	29.7	28.0	24.4	23.5	23.9	24.2
Comoros	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 6.
SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Costa Rica	21.0	21.0	18.9	23.8	27.5	27.4	27.7	27.2	26.1
Côte d'Ivoire	1.1	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.7
Croatia	0.3	1.3	2.4	3.0	3.3	4.1	4.7	4.9	5.1
Cuba	19.9	17.1	17.0	18.2	17.9	17.9	17.9	17.9	17.9
Cyprus	29.5	27.6	35.8	30.9	31.8	29.2	30.8	30.4	31.5
Czechia	1.1	1.7	1.2	1.3	1.8	1.8	1.8	1.4	1.4
Democratic People's Republic of Korea	58.4	57.3	55.5	56.6	57.3	57.3	57.4	57.4	57.4
Democratic Republic of the Congo	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Denmark	19.5	19.2	17.9	9.2	12.7	12.4	14.6	12.5	12.6
Djibouti	62.5	58.8	43.5	35.7	35.7	35.7	34.5	25.6	25.6
Dominica			0.9	0.9	0.9	0.9	0.9	0.9	0.9
Dominican Republic	20.9	23.8	25.6	24.9	24.9	25.0	25.0	25.0	25.0
Ecuador	28.6	42.0	58.2	65.7	69.4	72.6	70.4	68.9	69.9
Egypt	100.0	99.8	99.8	99.8	99.6	99.0	98.9	98.9	98.9
El Salvador	5.1	5.3	5.1	6.1	6.8	7.1	5.2	5.2	5.2
Equatorial Guinea					1.5	1.5	1.5	1.5	1.5
Eritrea	3.7	3.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Estonia	0.2	0.2	0.1	0.3	0.4	0.4	0.4	0.3	0.3
Eswatini	26.2	26.0	25.9	25.8	25.8	25.6	25.6	25.6	25.6
Ethiopia	2.8	3.3	4.1	5.0	4.9	4.8	4.7	4.6	4.6
Fiji	1.5	2.4	2.7	2.8	2.8	2.9	2.9	2.9	2.9
Finland	4.0	3.6	3.1	3.1	2.5	2.5	2.4	3.2	3.2
France	13.5	13.7	14.1	14.0	14.1	14.5	14.8	15.1	15.1
Gabon	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Gambia	0.8	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Georgia	44.2	80.9	90.2	98.2	28.6	27.6	25.9	25.6	25.5
Germany	4.0	4.2	5.4	5.6	5.7	5.7	5.7	5.7	5.7
Ghana	0.6	0.6	0.5	3.2	3.1	3.1	3.0	3.0	3.0
Greece	34.3	42.2	37.4	50.7	55.8	57.9	60.1	62.1	62.1
Grenada	1.8	6.3	22.2	28.6	28.6	28.6	28.6	28.6	28.6
Guatemala	7.9	14.1	13.4	12.7	12.6	12.5	12.4	12.4	12.4
Guinea	2.8	2.8	2.6	2.5	2.4	2.4	2.4	2.4	2.4
Guinea-Bissau	4.6	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Guyana	34.1	32.7	32.1	31.9	31.9	31.9	31.9	31.9	31.9
Haiti	7.9	7.5	6.5	6.2	6.4	6.5	7.5	7.5	7.4
Honduras	5.6	5.7	6.0	5.8	5.7	5.7	5.7	5.7	5.6
Hungary	4.9	3.2	3.6	4.6	4.4	4.5	4.2	4.5	4.4
Iceland						0.0	0.0	0.0	0.0
India	35.5	38.1	40.0	41.4	41.7	41.7	43.0	44.9	44.9
Indonesia	15.3	16.3	15.2	14.4	12.9	12.7	12.7	12.6	12.5
Iran (Islamic Republic of)	48.3	47.4	54.4	58.3	56.6	55.1	54.8	54.7	54.6
Iraq	78.3	72.8	83.5	66.9	66.2	65.9	65.7	64.8	64.8
Ireland									

TABLE 6.
SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	48.6	59.1	60.7	72.4	63.4	63.3	64.0	63.6	63.8
Italy	34.2	38.5	38.8	45.1	44.7	45.0	44.2	43.9	44.1
Jamaica	10.4	11.8	16.0	16.3	16.3	16.3	16.3	16.3	16.3
Japan	54.7	54.5	54.3	54.4	54.4	54.4	54.7	55.0	55.3
Jordan	27.7	29.5	37.0	33.4	40.4	38.2	36.3	37.3	38.1
Kazakhstan	9.5	8.2	7.6	7.4	7.4	7.4	7.5	7.5	7.5
Kenya	1.6	2.0	2.5	2.4	2.4	2.4	2.4	2.4	2.4
Kiribati									
Kuwait	58.3	54.3	87.5	100.0	100.0	100.0	100.0	100.0	100.0
Kyrgyzstan	73.8	75.3	75.6	75.5	75.0	75.0	75.0	75.0	75.0
Lao People's Democratic Republic	29.6	24.3	22.2	24.7	27.8	29.2	30.8	32.6	32.6
Latvia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Lebanon	38.5	39.2	45.0	36.6	32.9	33.1	33.2	32.5	32.2
Lesotho	0.9	0.9	0.9	1.4	0.7	0.7	0.7	0.7	0.7
Liberia	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Libya	21.9	20.4	19.8	19.5	19.5	19.5	19.5	19.5	19.5
Lithuania	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Luxembourg									
Madagascar	31.0	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
Malawi	1.9	2.2	2.4	2.4	2.3	2.3	2.2	2.2	2.2
Malaysia	5.6	5.5	5.6	5.3	5.3	5.3	5.3	5.3	5.3
Maldives									
Mali	5.1	5.1	5.5	5.2	4.9	4.8	4.7	4.6	4.5
Malta	22.2	32.3	33.9	41.1	35.2	35.2	35.2	42.7	44.5
Marshall Islands									
Mauritania	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Mauritius	21.3	23.6	23.8	24.1	24.1	24.1	24.1	24.1	24.1
Mexico	24.8	24.3	25.3	27.0	29.7	31.2	33.0	31.9	31.9
Micronesia (Federated States of)									
Mongolia	7.5	7.7	7.6	6.8	6.6	6.6	6.6	6.5	6.5
Montenegro			1.3	17.0	16.1	16.2	15.7	16.1	16.4
Morocco	15.0	16.6	16.9	19.7	18.9	20.1	22.6	20.8	21.0
Mozambique	2.8	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Myanmar	17.8	19.5	19.1	18.4	18.3	18.2	18.4	18.4	18.3
Namibia	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Nauru									
Nepal	46.1	49.4	53.8	58.9	58.9	58.9	58.9	58.9	58.9
Netherlands (Kingdom of the)	47.1	35.7	45.9	47.7	48.6	49.3	49.8	50.1	50.2
New Zealand	62.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Nicaragua	4.0	6.3	10.5	11.1	11.1	11.1	11.1	11.1	11.1
Niger	0.5	0.6	0.6	0.6	0.9	1.0	1.2	1.5	1.5
Nigeria	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
North Macedonia	9.2	26.3	28.5	28.3	28.0	27.9	27.8	28.0	28.0
Norway	15.2	13.6	11.2	10.4	10.4	10.4	10.4	10.6	10.6

TABLE 6.
SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	82.2	92.3	89.5	99.7	100.0	100.0	100.0	100.0	100.0
Pakistan	57.1	61.3	65.1	64.1	62.5	62.6	63.8	63.0	63.9
Palau									
Panama	5.0	4.8	4.2	4.8	5.3	5.6	5.8	6.1	6.2
Papua New Guinea									
Paraguay	2.2	2.0	2.2	2.8	3.0	2.9	2.9	2.9	2.9
Peru	37.1	39.0	40.3	44.1	45.5	44.1	45.8	42.0	38.7
Philippines	14.0	14.3	14.6	15.7	17.0	17.3	17.7	18.0	18.2
Poland	0.6	1.0	0.8	1.8	3.1	3.8	4.6	5.2	5.2
Portugal	31.2	30.0	29.2	30.1	31.9	32.1	30.5	30.8	31.0
Qatar	79.4	88.4	88.4	100.0	100.0	91.7	100.0	100.0	100.0
Republic of Korea	45.9	47.5	46.0	43.7	43.7	44.3	44.7	45.2	45.7
Republic of Moldova	14.0	10.7	10.8	11.6	11.5	11.6	11.6	11.3	11.1
Romania	31.1	33.5	32.8	34.2	35.2	34.5	33.6	35.6	35.3
Russian Federation	3.7	3.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Rwanda	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5
Saint Kitts and Nevis	0.3	0.5	0.4	0.6	0.6	0.6	0.6	0.6	0.6
Saint Lucia	23.3	30.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4
Saint Vincent and the Grenadines	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Samoa									
San Marino									
Sao Tome and Principe	28.6	30.3	31.3	27.8	25.0	24.4	24.4	24.4	23.8
Saudi Arabia	42.7	50.9	74.1	85.2	91.2	91.2	90.7	90.1	90.2
Senegal	3.1	3.8	3.3	3.2	3.2	3.2	3.2	3.1	3.1
Serbia			3.1	2.8	2.5	2.4	2.3	2.2	2.3
Seychelles		7.5	12.5	19.4	19.4	19.4	19.4	19.4	19.4
Sierra Leone	4.9	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Singapore									
Slovakia	11.6	13.3	7.7	4.6	4.6	4.8	4.8	4.2	4.6
Slovenia	1.5	2.5	3.4	2.5	2.5	2.8	2.8	2.9	2.8
Solomon Islands									
Somalia	18.7	17.8	17.8	17.8	17.8	17.8	17.8	17.7	17.7
South Africa	10.6	11.2	11.9	13.5	13.5	13.5	13.5	13.5	13.5
South Sudan				1.0	0.8	0.8	0.8	0.8	0.8
Spain	20.4	21.6	21.3	22.8	23.1	23.4	23.4	23.6	23.6
Sri Lanka	29.8	27.5	26.2	27.4	27.5	26.9	26.9	26.9	26.9
Sudan				9.1	8.9	8.8	8.8	8.8	8.8
Suriname	76.9	93.6	93.4	98.6	100.0	100.0	100.0	100.0	100.0
Sweden	5.3	6.2	6.3	6.1	6.1	6.2	6.2	6.2	6.2
Switzerland	8.8	11.7	14.3	12.6	12.3	12.3	12.3	12.2	12.4
Syrian Arab Republic	22.6	25.7	23.5	22.9	22.8	22.9	22.9	22.9	22.9
Tajikistan	81.2	83.3	86.0	84.3	79.2	78.8	78.3	78.5	78.4
Thailand	26.5	28.7	29.1	29.1	29.1	29.1	28.9	28.6	28.3
Timor-Leste	17.1	19.1	18.6	18.4	18.3	18.2	18.3	18.3	18.3

TABLE 6.
SHARE OF AREA EQUIPPED FOR IRRIGATION IN CROPLAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Tonga									
Trinidad and Tobago	8.3	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
Tunisia	7.9	8.5	8.8	9.7	9.9	10.0	10.0	10.0	10.0
Türkiye	18.0	19.6	21.4	21.8	22.3	22.5	22.6	22.5	22.2
Turkmenistan	92.5	94.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Tuvalu									
Uganda	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ukraine	7.2	6.6	6.5	6.4	6.4	6.4	6.4	6.4	6.4
United Arab Emirates	85.0	88.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
United Kingdom of Great Britain and Northern Ireland	4.1	4.0	1.6	2.5	3.1	3.4	3.4	3.5	3.4
United Republic of Tanzania	1.6	2.2	2.5	2.5	2.5	2.4	2.4	2.4	2.4
United States of America	15.2	15.8	16.5	16.8	16.8	16.8	16.8	16.8	16.8
Uruguay	13.3	15.2	11.1	10.3	11.8	12.0	12.3	12.7	12.7
Uzbekistan	87.0	89.0	93.9	97.5	97.6	97.6	97.1	97.5	97.7
Vanuatu									
Venezuela (Bolivarian Republic of)	17.1	28.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Viet Nam	47.5	46.9	45.3	39.9	39.8	39.9	39.0	39.1	39.1
Yemen	30.0	44.7	43.1	47.5	46.8	46.8	46.8	46.8	46.8
Zambia	4.7	5.7	4.5	4.2	4.1	4.1	4.1	4.1	4.1
Zimbabwe	4.2	4.0	4.1	4.4	4.6	4.6	4.6	4.6	4.6

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 7.
SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL (PERCENT)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
World									
Africa									
Americas									
Asia									
Europe									
Oceania									
Afghanistan	98.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
Albania	57.7	43.4	48.7	69.6	70.3	64.0	68.2	61.2	69.3
Algeria	60.7	59.7	59.3	65.8	64.1	63.8	63.8	63.8	63.8
Andorra									
Angola	32.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
Antigua and Barbuda	17.9	15.5	15.6	15.7	15.7	15.7	15.7	15.7	15.7
Argentina	70.7	72.3	73.7	73.9	73.9	73.9	73.9	73.9	73.9
Armenia	66.0	65.8	58.2	81.7	80.0	73.2	69.3	74.5	70.3
Australia	69.4	65.2	53.8	54.2	65.5	69.4	70.7	66.8	62.3
Austria	2.7	2.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Azerbaijan	58.0	66.5	72.2	91.1	91.1	92.1	92.4	92.2	92.3
Bahamas									
Bahrain	49.1	41.8	35.8	32.2	33.3	33.3	33.3	33.3	33.3
Bangladesh			87.8	87.8	87.8	87.8	87.8	87.8	87.8
Barbados	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
Belarus	24.1	24.0	30.4	30.0	29.5	30.9	29.9	27.0	27.6
Belgium	0.5	0.6	0.7	1.1	1.1	1.0	1.3	1.3	1.3
Belize	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
Benin	48.3	35.8	28.3	23.4	24.7	25.2	25.2	25.2	25.2
Bhutan			94.1	94.1	94.1	94.1	94.1	94.1	94.1
Bolivia (Plurinational State of)	91.1	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0
Bosnia and Herzegovina									
Botswana	41.2	37.9	37.7	36.3	40.2	35.8	39.0	36.9	37.0
Brazil	58.3	55.2	60.0	54.0	60.9	60.0	58.4	63.1	61.6
Brunei Darussalam	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Bulgaria	19.3	13.6	15.8	14.7	16.0	14.8	13.3	14.7	14.9
Burkina Faso	58.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
Burundi	77.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
Cabo Verde		92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
Cambodia			94.0	94.0	94.0	94.0	94.0	94.0	94.0
Cameroon	76.3	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
Canada	8.5	6.4	11.7	7.5	9.1	10.6	10.6	10.7	10.7
Central African Republic	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Chad	77.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
Chile			86.0	90.0	90.9	90.9	90.9	90.9	90.9
China	68.8	64.6	62.5	64.4	62.4	62.3	61.4	61.2	62.1
Colombia	63.5	56.9	62.6	71.8	75.0	79.7	85.3	85.6	86.0
Comoros	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0

TABLE 7.
SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Congo	8.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Costa Rica				72.1	73.1	82.0	68.6	66.0	66.2
Côte d'Ivoire	42.6	38.4	44.8	51.6	51.6	51.6	51.6	51.6	51.6
Croatia		1.0	1.3	10.3	10.5	10.6	6.0	6.3	6.2
Cuba	52.1	53.0	59.3	64.9	64.9	64.9	64.9	64.9	64.9
Cyprus	74.4	72.8	73.2	66.3	63.9	62.6	61.2	60.6	62.5
Czechia	0.6	1.2	2.0	3.4	2.9	2.9	3.1	2.9	2.9
Democratic People's Republic of Korea	77.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
Democratic Republic of the Congo	12.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Denmark	25.9	27.1	33.6	47.7	52.1	53.3	59.6	53.6	54.0
Djibouti	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Dominica			5.0	5.0	5.0	5.0	5.0	5.0	5.0
Dominican Republic	86.3	82.0	79.9	83.3	83.3	83.3	83.3	83.3	83.3
Ecuador	86.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
Egypt	86.4	86.1	85.9	84.4	84.3	79.2	79.2	79.2	79.2
El Salvador	55.2	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
Equatorial Guinea	5.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Eritrea	70.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
Estonia	2.4	0.8	0.2	0.3	0.3	0.3	0.3	0.5	0.6
Eswatini	96.5	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
Ethiopia		89.0	90.5	91.6	91.8	91.8	91.8	91.8	91.8
Fiji	61.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
Finland	2.1	2.2	9.1	15.5	17.4	17.4	14.3	28.6	28.6
France	14.9	13.9	10.6	11.4	11.8	10.9	11.1	12.1	12.1
Gabon	33.5	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
Gambia	43.3	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
Georgia	72.3	58.2	51.4	32.4	28.2	35.4	35.5	37.6	42.8
Germany	0.7	0.7	0.8	1.4	1.4	1.4	1.4	1.4	1.4
Ghana	66.4	70.0	72.9	72.6	73.1	73.1	73.1	73.1	73.1
Greece	89.2	90.1	86.0	83.6	80.0	80.0	80.1	80.1	80.1
Grenada		21.5	17.3	14.9	14.9	14.9	14.9	14.9	14.9
Guatemala		57.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7
Guinea	55.0	56.5	61.6	65.5	66.1	66.8	67.4	67.4	67.4
Guinea-Bissau	82.3	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
Guyana	97.6	94.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3
Haiti	88.1	85.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
Honduras		73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
Hungary	12.1	5.6	6.0	12.7	10.0	11.1	10.8	11.2	11.8
Iceland	42.9	32.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
India	91.5	90.9	90.4	90.4	90.4	90.4	90.4	90.4	90.4
Indonesia	81.9	76.5	81.5	84.8	85.2	85.2	85.2	85.2	85.2
Iran (Islamic Republic of)	93.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
Iraq	78.8	82.0	86.4	91.5	91.5	87.8	91.5	78.1	78.1
Ireland	14.2	14.1	9.0	4.9	4.2	3.1	2.3	2.3	2.5

TABLE 7.
SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Israel	59.1	57.3	57.3	52.6	55.6	43.3	51.7	51.4	52.0
Italy	44.1	40.5	44.1	49.7	49.9	50.0	50.1	50.1	50.2
Jamaica	64.9	57.0	30.7	16.4	8.4	8.4	8.4	8.4	8.4
Japan	63.3	65.9	66.9	67.4	67.5	67.7	67.6	68.0	68.0
Jordan	66.2	65.0	56.1	51.0	53.1	52.4	52.2	51.6	51.6
Kazakhstan	66.7	71.3	59.1	61.1	61.0	61.8	63.6	66.8	62.7
Kenya	64.7	69.7	59.3	59.3	80.2	80.2	80.2	80.2	80.2
Kiribati									
Kuwait	53.6	53.2	56.5	59.3	60.5	62.3	62.3	62.3	62.3
Kyrgyzstan	93.8	93.2	92.8	92.7	92.7	92.7	92.7	92.7	92.7
Lao People's Democratic Republic		91.4	94.8	96.2	96.1	95.9	95.9	95.9	95.9
Latvia	16.0	21.9	18.4	27.8	31.3	31.2	29.9	29.7	30.5
Lebanon	64.2	59.5	47.0	38.0	38.0	38.0	38.0	38.0	38.0
Lesotho	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Liberia	9.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Libya	82.8	82.8	83.1	83.2	83.2	83.2	83.2	83.2	83.2
Lithuania	0.7	3.4	6.8	15.6	19.3	22.7	22.5	22.5	22.5
Luxembourg	0.3	0.3	0.2	1.6	0.7	0.9	1.0	1.2	0.0
Madagascar	97.2	96.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9
Malawi	87.1	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
Malaysia	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
Maldives	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mali	98.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
Malta	31.4	34.2	48.6	41.1	40.6	42.4	39.7	36.7	38.1
Marshall Islands									
Mauritania	93.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
Mauritius	74.8	67.4	62.4	56.0	57.0	55.8	51.0	50.3	50.2
Mexico	84.7	76.7	76.7	76.3	76.3	76.0	75.7	75.7	75.7
Micronesia (Federated States of)									
Mongolia	46.2	42.2	46.3	61.6	54.3	54.3	54.3	54.3	54.3
Montenegro			1.1	1.1	1.1	1.1	1.1	1.1	1.1
Morocco	87.3	78.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8
Mozambique	77.7	73.4	73.2	73.0	73.0	73.0	73.0	73.0	73.0
Myanmar	89.0	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
Namibia	71.0	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
Nauru									
Nepal	97.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
Netherlands (Kingdom of the)	1.0	0.6	1.1	1.3	1.0	1.5	3.7	3.0	3.7
New Zealand	65.9	58.2	61.7	65.5	66.3	66.1	65.7	65.6	65.6
Nicaragua	82.5	78.3	78.3	81.8	82.6	83.4	84.2	85.1	85.0
Niger	67.3	66.7	87.5	88.5	87.9	86.4	90.9	91.0	91.0
Nigeria	53.5	47.6	44.2	44.2	44.2	44.2	44.2	44.2	44.2
North Macedonia	55.3	22.1	48.5	31.3	13.3	31.7	6.3	8.7	29.6
Norway	32.0	26.7	30.1	31.1	31.9	31.4	31.4	31.4	31.4

TABLE 7.
SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Oman	90.4	87.7	86.4	82.6	82.6	82.6	82.6	80.8	80.8
Pakistan	94.3	94.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0
Palau									
Panama			43.0	35.7	36.8	36.8	36.8	36.8	36.8
Papua New Guinea	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Paraguay	71.4	75.1	76.9	78.6	78.6	78.6	78.6	78.6	78.6
Peru			87.5	86.2	86.0	85.9	85.8	85.1	85.1
Philippines			81.5	78.6	77.5	74.0	73.8	79.0	79.0
Poland	8.6	9.5	10.6	9.4	10.0	10.1	13.8	14.1	15.1
Portugal	76.9	71.5	67.0	59.8	57.8	55.5	57.0	55.8	55.8
Qatar	71.5	59.0	40.8	28.3	32.0	27.0	41.4	35.8	36.4
Republic of Korea	61.9	54.7	57.9	59.2	58.9	58.9	58.9	58.9	58.9
Republic of Moldova	17.0	8.3	4.2	5.2	5.1	5.0	5.1	5.2	6.9
Romania	9.7	8.1	11.9	20.0	19.5	22.0	22.2	22.2	22.2
Russian Federation	20.1	19.9	19.9	28.0	28.1	29.0	28.8	28.8	28.8
Rwanda	68.0	67.5	63.2	61.1	60.8	60.5	60.2	59.0	60.0
Saint Kitts and Nevis				1.3	1.3	1.3	1.3	1.3	1.3
Saint Lucia			70.9	70.9	70.9	70.9	70.9	70.9	70.9
Saint Vincent and the Grenadines	59.6	38.3	15.1	0.0	0.0	0.0	0.0	0.0	0.0
Samoa									
San Marino									
Sao Tome and Principe					62.6	62.6	62.6	62.6	62.6
Saudi Arabia	87.7	88.1	85.4	83.9	82.7	82.2	81.6	81.6	81.6
Senegal	89.9	92.1	90.7	89.5	89.2	89.0	91.1	91.3	91.3
Serbia			14.7	15.4	13.5	12.3	12.8	12.6	12.4
Seychelles	7.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Sierra Leone	24.2	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
Singapore	1.0	0.9	1.6	4.0	4.0	4.0	4.0	4.0	4.0
Slovakia	7.8	2.6	3.1	5.5	3.9	5.7	4.6	5.2	5.3
Slovenia		0.2	0.2	0.4	0.4	0.4	0.3	0.3	0.3
Solomon Islands									
Somalia	99.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
South Africa	61.3	61.8	62.3	60.8	59.5	58.8	57.8	60.8	62.5
South Sudan				36.5	36.5	36.5	36.5	36.5	36.5
Spain	64.8	64.4	66.3	65.7	65.2	65.8	65.3	65.3	65.3
Sri Lanka	92.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
Sudan				96.2	96.2	96.2	96.2	96.2	96.2
Suriname	92.5	74.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
Sweden	5.6	4.1	3.6	3.2	3.5	3.8	4.2	4.5	4.1
Switzerland	2.0	4.1	6.7	9.2	9.2	9.2	9.1	9.1	9.1
Syrian Arab Republic	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
Tajikistan	67.9	91.1	91.0	88.0	81.1	64.9	75.5	69.6	74.5
Thailand			90.4	90.4	90.4	90.4	90.4	90.4	90.4
Timor-Leste		91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4

TABLE 7.
SHARE OF WATER WITHDRAWAL BY AGRICULTURE IN TOTAL WITHDRAWAL (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Togo	47.2	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
Tonga									
Trinidad and Tobago	5.4	4.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Tunisia	82.0	81.1	80.2	79.3	79.1	74.4	76.3	76.4	75.5
Türkiye	80.0	83.3	85.7	86.7	87.6	87.0	87.1	87.4	87.2
Turkmenistan	96.5	94.3	94.3	94.3	94.3	94.3	94.3	59.0	61.4
Tuvalu									
Uganda	36.4	38.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7
Ukraine	30.0	30.0	30.0	31.1	32.1	41.6	41.6	39.6	31.0
United Arab Emirates	78.5	82.8	65.0	50.5	48.0	47.4	47.8	47.3	46.5
United Kingdom of Great Britain and Northern Ireland	12.0	14.0	14.8	15.4	14.0	14.0	14.0	14.0	14.0
United Republic of Tanzania	87.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
United States of America	35.1	34.1	36.1	39.7	39.7	39.7	39.7	39.7	39.7
Uruguay	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
Uzbekistan	90.9	90.0	90.8	92.1	91.7	92.3	92.3	92.3	92.3
Vanuatu									
Venezuela (Bolivarian Republic of)	43.8	68.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
Viet Nam	94.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
Yemen	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
Zambia	74.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
Zimbabwe	78.9	80.7	81.0	79.0	80.0	83.0	80.6	80.6	80.6

Source: FAO. 2023. AQUASTAT Dissemination System. In: *AQUASTAT*. Rome. [Cited October 2023]. https://data.apps.fao.org/aquastat/?lang=enn

TABLE 8.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (THOUSAND PEOPLE)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	1 027 037	1 008 464	968 475	888 628	873 000	862 292	862 938	855 387	872 897
Africa	160 744	181 966	193 849	204 262	212 924	215 606	219 997	223 477	229 332
Americas	42 943	45 583	43 265	42 640	43 322	43 876	43 633	42 471	43 508
Asia	787 282	751 768	707 179	620 128	596 200	582 574	579 393	569 981	581 244
Europe	34 370	27 575	22 770	20 267	19 201	18 872	18 547	18 094	17 476
Oceania	1 698	1 573	1 411	1 331	1 353	1 364	1 368	1 362	1 337
Afghanistan	2 766	3 287	3 334	3 507	3 616	3 794	3 955	3 697	
Albania	557	507	459	448	454	463	465	421	425
Algeria	1 392	1 633	1 170	994	1 099	1 096	1 103	1 095	1 117
Andorra									
Angola	2 487	2 979	4 290	6 182	6 754	7 058	7 320	7 420	7 607
Antigua and Barbuda									
Argentina	1 762	1 747	1 617	1 485	1 425	1 427	1 432	1 311	1 463
Armenia	609	525	504	443	384	371	371	375	367
Australia	433	354	357	311	319	330	330	352	321
Austria	225	201	213	192	171	163	163	171	164
Azerbaijan	1 571	1 548	1 544	1 634	1 690	1 695	1 672	1 703	1 682
Bahamas	7	6	6	7	7	7	7	6	7
Bahrain	5	6	7	8	8	9	8	8	8
Bangladesh	27 761	24 436	25 882	25 823	26 076	25 916	25 743	25 466	25 537
Barbados	5	3	4	4	4	4	4	4	4
Belarus	835	727	607	472	443	427	410	404	391
Belgium	79	87	61	54	55	48	45	45	46
Belize	20	18	21	26	27	28	27	34	35
Benin	1 417	1 580	1 708	1 463	1 353	1 289	1 278	1 277	1 285
Bhutan	175	196	179	194	195	197	201	193	197
Bolivia (Plurinational State of)	1 423	1 562	1 483	1 432	1 559	1 698	1 553	1 576	1 572
Bosnia and Herzegovina	207	208	210	179	203	171	204	134	134
Botswana	101	150	173	168	165	164	161	197	203
Brazil	11 544	13 332	10 915	9 301	8 470	8 448	8 465	8 255	8 853
Brunei Darussalam	2	2	2	3	3	2	4	3	3
Bulgaria	379	269	214	211	225	211	217	208	195
Burkina Faso	4 097	4 358	4 632	4 909	5 134	5 257	5 366	5 427	5 607
Burundi	2 418	2 843	3 477	3 850	3 962	4 097	4 257	4 354	4 526
Cabo Verde	37	35	33	32	29	24	22	22	23
Cambodia	4 095	3 869	3 691	3 224	3 103	3 268	3 438	3 416	3 443
Cameroon	4 170	4 662	4 489	4 236	4 344	4 401	4 470	4 500	4 560
Canada	382	352	315	301	287	285	295	288	259
Central African Republic	1 021	1 143	1 202	1 181	1 200	1 211	1 233	1 247	1 273
Chad	2 394	2 598	2 896	3 134	3 327	3 381	3 467	3 520	3 621
Chile	812	790	767	735	771	782	775	563	542
China	355 327	330 031	273 927	215 574	203 317	195 962	189 747	179 757	184 122
Colombia	2 873	3 549	3 620	3 634	3 846	3 950	3 735	3 518	3 563
Comoros	67	70	70	67	68	69	70	70	71

TABLE 8.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (THOUSAND PEOPLE) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	417	469	521	548	593	617	633	637	649
Costa Rica	250	277	236	333	364	399	399	382	368
Côte d'Ivoire	2 912	3 189	3 403	3 648	3 711	4 032	4 365	4 410	4 533
Croatia	273	279	245	148	115	104	105	107	114
Cuba	981	961	926	964	947	936	923	879	881
Cyprus	23	24	21	21	14	13	15	16	18
Czechia	245	191	150	147	146	147	140	135	131
Democratic People's Republic of Korea	6 569	6 551	6 702	6 715	6 720	6 790	6 762	6 586	6 600
Democratic Republic of the Congo	13 634	15 421	15 436	15 560	16 496	16 801	17 073	17 211	17 692
Denmark	100	88	68	68	59	62	64	60	60
Djibouti	3	3	3	2	2	2	2	2	2
Dominica									
Dominican Republic	474	445	453	411	429	433	420	404	389
Ecuador	1 375	1 796	1 729	1 906	2 181	2 288	2 400	2 318	2 659
Egypt	5 603	6 565	7 415	6 855	6 724	5 839	5 790	5 594	5 550
El Salvador	462	442	493	455	477	432	431	385	394
Equatorial Guinea	123	149	186	232	253	260	270	269	275
Eritrea	614	753	863	922	942	933	944	951	977
Estonia	37	32	24	25	23	22	21	19	18
Eswatini	46	42	39	38	37	37	37	37	37
Ethiopia	20 869	25 771	28 743	31 743	32 732	33 262	33 723	34 297	35 508
Fiji	66	91	110	108	106	105	105	103	102
Finland	143	116	109	103	93	95	97	93	105
France	1 015	950	785	732	711	687	695	645	709
Gabon	127	140	149	158	162	164	165	157	158
Gambia	223	259	292	356	384	392	397	405	419
Georgia	975	947	784	769	740	652	635	684	671
Germany	960	856	639	570	538	530	519	550	525
Ghana	4 029	5 057	4 395	4 007	5 225	5 227	5 247	5 286	5 366
Greece	767	556	545	463	448	464	448	406	438
Grenada									
Guatemala	1 613	1 611	1 732	1 924	2 033	2 146	2 030	1 966	1 936
Guinea	2 004	2 030	2 139	2 194	2 204	2 211	2 221	2 251	2 293
Guinea-Bissau	230	257	281	314	326	315	319	324	330
Guyana	61	55	50	47	46	41	38	29	32
Haiti	1 477	1 550	1 736	1 884	1 931	1 953	1 974	1 951	1 959
Honduras	850	872	1 139	1 057	1 258	1 295	1 294	947	1 010
Hungary	253	193	173	209	226	220	217	215	208
Iceland	14	11	10	8	8	9	9	8	8
India	216 559	215 733	221 340	198 227	192 937	189 960	193 869	197 715	205 972
Indonesia	42 802	42 410	43 279	39 802	38 443	37 877	37 718	38 538	37 462
Iran (Islamic Republic of)	3 893	4 347	3 793	3 942	4 091	4 184	4 350	4 104	4 068
Iraq	1 460	1 699	1 682	1 876	1 814	1 840	1 822	1 811	1 775
Ireland	140	120	110	109	110	107	102	102	107

TABLE 8.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (THOUSAND PEOPLE) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	53	53	49	36	37	36	35	34	34
Italy	1 096	951	856	841	869	871	908	910	921
Jamaica	225	205	199	228	223	222	215	217	222
Japan	3 195	2 756	2 476	2 234	2 167	2 256	2 187	2 160	2 104
Jordan	43	45	54	70	75	83	78	78	79
Kazakhstan	2 455	2 439	2 369	1 570	1 491	1 444	1 388	1 367	1 340
Kenya	5 347	6 183	6 767	7 235	7 327	7 285	7 266	7 375	7 517
Kiribati									
Kuwait	21	30	37	48	49	50	51	47	45
Kyrgyzstan	1 065	856	763	706	557	477	436	411	400
Lao People's Democratic Republic	1 595	1 691	1 762	1 704	1 671	1 673	1 678	1 677	1 691
Latvia	142	118	74	73	63	65	68	65	60
Lebanon	63	65	60	80	74	71	69	62	62
Lesotho	338	271	228	224	230	234	234	236	236
Liberia	639	732	814	821	837	847	878	897	915
Libya	280	301	305	314	308	301	298	289	291
Lithuania	282	207	110	123	109	102	91	78	73
Luxembourg	5	3	3	3	4	3	2	2	4
Madagascar	5 546	7 209	7 491	9 206	9 746	10 040	10 285	10 450	10 775
Malawi	3 500	3 864	3 789	3 917	4 005	4 096	4 203	4 384	4 467
Malaysia	1 666	1 528	1 609	1 818	1 666	1 644	1 626	1 579	1 566
Maldives	13	18	16	15	18	21	24	25	25
Mali	2 789	3 121	3 934	4 072	4 316	4 446	4 789	4 813	5 083
Malta	3	3	2	3	2	2	3	3	2
Marshall Islands									
Mauritania	263	268	277	277	278	281	283	282	284
Mauritius	55	51	47	43	40	36	33	30	30
Mexico	6 505	6 203	6 291	6 772	6 872	6 756	6 746	6 333	6 741
Micronesia (Federated States of)									
Mongolia	439	421	361	339	346	327	365	319	297
Montenegro	18	15	12	18	19	20	18	17	17
Morocco	3 683	4 297	4 165	3 932	3 745	3 718	3 694	3 615	3 799
Mozambique	6 627	7 024	7 505	8 133	8 690	8 939	9 186	9 316	9 534
Myanmar	13 719	12 846	12 183	12 543	12 155	11 855	11 865	11 015	
Namibia	143	155	186	170	151	163	162	163	164
Nauru									
Nepal	3 907	4 253	4 232	4 243	4 356	4 409	4 466	4 457	4 598
Netherlands (Kingdom of the)	263	294	259	198	199	188	190	189	208
New Zealand	159	151	149	146	162	155	158	165	172
Nicaragua	563	578	669	819	837	819	818	824	846
Niger	3 757	4 323	5 160	5 471	5 864	6 047	6 232	6 388	6 603
Nigeria	19 846	20 552	21 549	20 511	21 586	22 143	22 685	23 070	23 386
North Macedonia	139	106	115	127	122	121	113	93	87
Norway	100	77	64	53	55	57	56	57	65

TABLE 8.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (THOUSAND PEOPLE) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	50	72	63	115	113	107	101	90	87
Pakistan	19 901	22 155	25 975	26 728	26 319	24 989	26 222	26 103	27 056
Palau									
Panama	200	214	265	255	259	265	276	240	290
Papua New Guinea	850	768	575	541	542	550	549	515	512
Paraguay	638	750	641	548	602	613	583	646	625
Peru	4 077	4 515	4 200	4 355	4 429	4 546	4 577	5 258	4 723
Philippines	10 653	11 406	12 096	12 059	10 654	10 392	10 076	10 242	10 600
Poland	2 748	2 542	2 161	1 985	1 818	1 725	1 645	1 718	1 525
Portugal	639	610	550	343	305	295	271	259	248
Qatar	10	16	19	22	25	26	25	24	24
Republic of Korea	2 395	1 835	1 575	1 402	1 349	1 373	1 427	1 476	1 484
Republic of Moldova	892	594	320	389	388	418	395	367	368
Romania	4 832	2 866	2 710	2 182	1 972	1 936	1 846	1 751	1 456
Russian Federation	9 518	6 986	5 460	4 779	4 202	4 204	4 138	4 184	4 103
Rwanda	2 128	2 377	2 540	2 402	2 340	2 010	1 885	2 193	2 174
Saint Kitts and Nevis									
Saint Lucia	12	9	9	8	8	9	9	6	9
Saint Vincent and the Grenadines	7	6	5	5	5	5	4	4	4
Samoa	24	21	19	17	16	16	16	16	16
San Marino									
Sao Tome and Principe	13	12	11	11	11	11	11	11	11
Saudi Arabia	482	542	660	752	512	417	508	469	395
Senegal	1 271	1 181	1 171	1 082	1 075	946	1 045	1 043	1 042
Serbia	878	657	588	531	516	485	488	455	439
Seychelles									
Sierra Leone	1 112	1 374	1 386	1 302	1 175	1 126	1 115	1 112	1 116
Singapore	19	24	25	20	15	14	14	12	12
Slovakia	145	106	75	77	69	59	72	65	64
Slovenia	86	87	85	65	54	55	43	40	41
Solomon Islands	98	111	117	124	126	128	131	133	136
Somalia	489	564	623	619	630	628	624	632	642
South Africa	3 022	2 927	2 545	2 758	3 036	2 826	2 949	3 720	3 583
South Sudan	1 329	1 635	2 148	2 434	2 235	2 146	2 163	2 183	2 245
Spain	1 056	1 021	790	740	825	817	801	769	810
Sri Lanka	2 662	2 414	2 417	2 351	2 193	2 063	2 078	2 119	2 116
Sudan	3 187	3 431	3 743	3 805	3 928	4 041	4 135	4 185	4 287
Suriname	10	13	13	15	17	17	17	17	18
Sweden	123	101	95	98	91	87	86	87	100
Switzerland	189	155	147	157	146	143	123	122	103
Syrian Arab Republic	1 456	1 064	818	647	638	650	678	684	704
Tajikistan	827	907	955	1 002	1 005	991	984	986	1 003
Thailand	17 565	14 553	14 993	12 921	12 444	12 853	12 491	12 482	12 615
Timor-Leste	183	195	203	222	221	224	220	222	224

TABLE 8.
EMPLOYMENT IN AGRICULTURE, FORESTRY AND FISHING (THOUSAND PEOPLE) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	913	1 010	871	908	873	869	866	871	882
Tonga	12	12	12	11	11	11	11	11	11
Trinidad and Tobago	38	27	25	23	22	22	21	20	19
Tunisia	583	565	607	516	524	516	514	486	486
Türkiye	7 424	5 215	5 467	5 636	5 684	5 492	5 255	4 827	5 021
Turkmenistan	493	542	549	490	467	455	442	430	429
Tuvalu									
Uganda	5 556	7 136	7 806	8 937	9 313	9 608	9 908	10 139	10 517
Ukraine	4 560	4 277	3 310	2 978	2 965	2 935	2 921	2 792	2 667
United Arab Emirates	157	154	209	146	110	92	142	111	107
United Kingdom of Great Britain and Northern Ireland	427	404	361	363	380	353	349	344	338
United Republic of Tanzania	13 276	13 850	14 580	16 071	16 976	17 424	17 839	17 545	18 341
United States of America	3 184	2 454	2 488	2 743	2 813	2 758	2 753	2 695	2 654
Uruguay	145	138	180	142	140	133	136	126	133
Uzbekistan	3 223	3 269	2 989	3 217	3 136	3 085	3 015	3 042	3 027
Vanuatu	48	57	65	65	63	62	61	62	62
Venezuela (Bolivarian Republic of)	945	1 075	1 018	804	1 018	1 145	1 263	1 256	1 286
Viet Nam	25 001	23 468	24 281	23 548	21 672	20 599	19 218	17 481	15 604
Yemen	1 870	1 234	1 154	1 605	1 769	1 821	1 863	1 817	1 823
Zambia	1 806	2 140	2 506	2 896	3 009	3 287	3 315	3 604	3 687
Zimbabwe	2 782	3 221	3 050	3 355	3 404	3 407	3 417	3 444	3 512

Source: FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA

TABLE 9.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (PERCENT)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	39.7	36.4	32.7	28.5	27.5	26.9	26.4	26.9	26.6
Africa	57.7	56.2	52.7	49.6	49.0	48.3	47.9	48.3	48.0
Americas	12.1	11.7	10.5	9.6	9.5	9.5	9.3	9.8	9.5
Asia	48.5	43.8	38.6	32.5	30.9	30.1	29.3	29.7	29.3
Europe	11.0	8.6	6.9	6.1	5.6	5.5	5.4	5.3	5.1
Oceania	12.2	10.2	8.5	7.4	7.2	7.1	7.0	7.0	6.6
Afghanistan	65.5	61.8	53.8	44.7	44.0	44.4	44.5	46.0	
Albania	50.7	47.3	42.1	41.3	38.1	37.3	36.4	35.5	34.6
Algeria	22.2	19.4	12.0	9.6	10.2	10.0	9.9	10.5	10.3
Andorra									
Angola	38.2	38.1	48.4	58.0	58.8	59.3	59.3	59.2	58.7
Antigua and Barbuda									
Argentina	12.5	11.3	9.5	8.3	7.9	7.8	7.7	7.7	7.7
Armenia	47.5	40.9	38.6	35.3	31.3	30.6	29.9	30.8	30.3
Australia	4.9	3.6	3.2	2.6	2.6	2.6	2.6	2.8	2.4
Austria	6.1	5.3	5.2	4.5	3.9	3.7	3.7	3.9	3.7
Azerbaijan	41.0	39.3	38.2	36.4	35.9	35.5	34.7	34.8	34.2
Bahamas	4.1	3.5	3.3	3.6	3.4	3.4	3.3	3.3	3.2
Bahrain	1.6	1.3	1.1	1.1	1.0	1.0	1.0	1.0	1.0
Bangladesh	60.8	48.1	47.3	43.5	40.6	39.4	38.3	37.9	37.1
Barbados	3.7	2.4	2.9	2.9	3.1	3.1	2.8	2.8	2.8
Belarus	19.3	15.8	12.5	9.7	9.1	8.7	8.4	8.3	8.1
Belgium	1.9	2.0	1.4	1.2	1.2	1.0	0.9	0.9	0.9
Belize	26.1	19.6	18.1	18.1	17.4	17.4	16.9	21.4	21.2
Benin	51.8	49.0	45.1	36.0	32.5	30.6	29.4	28.9	28.1
Bhutan	70.0	65.3	54.7	58.0	56.8	56.5	56.1	56.5	56.0
Bolivia (Plurinational State of)	38.9	38.6	31.7	29.7	30.5	31.1	28.4	30.0	29.2
Bosnia and Herzegovina	19.6	20.2	19.7	17.9	18.9	15.7	18.0	12.0	11.3
Botswana	20.0	26.5	26.1	22.2	20.6	19.8	19.0	23.4	23.1
Brazil	16.3	16.5	12.4	10.0	9.3	9.2	9.0	9.5	9.7
Brunei Darussalam	1.4	1.4	1.4	1.4	1.4	1.1	2.0	1.3	1.3
Bulgaria	13.2	8.9	6.8	6.9	7.0	6.6	6.6	6.6	6.3
Burkina Faso	85.3	81.5	79.2	76.8	75.6	75.1	74.4	73.8	73.3
Burundi	91.9	90.8	88.4	86.3	86.3	86.2	86.1	86.1	85.9
Cabo Verde	26.3	21.4	17.7	15.8	13.6	11.8	10.6	11.3	11.0
Cambodia	73.5	62.1	54.8	42.5	38.2	39.0	39.9	39.4	38.9
Cameroon	66.6	62.0	55.0	46.7	45.1	44.4	43.8	43.3	42.6
Canada	2.5	2.1	1.8	1.6	1.5	1.5	1.5	1.6	1.3
Central African Republic	75.2	74.8	71.7	71.6	70.2	69.5	69.1	68.9	68.5
Chad	82.6	76.2	74.5	70.5	71.2	70.4	69.7	69.5	68.9
Chile	14.4	12.7	10.7	9.2	9.3	9.3	9.1	7.3	6.6
China	49.2	44.1	36.1	28.1	26.5	25.6	24.9	24.4	24.0
Colombia	20.2	20.7	18.4	16.0	16.5	16.7	15.8	16.6	15.9
Comoros	57.6	54.2	45.3	37.5	36.2	35.7	35.6	35.6	35.0

TABLE 9.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	42.7	40.0	36.4	34.5	35.7	36.3	36.3	36.8	36.3
Costa Rica	16.2	15.2	12.4	15.3	16.9	17.8	17.4	18.6	17.1
Côte d'Ivoire	50.7	50.1	47.6	43.5	41.9	44.0	45.9	45.6	45.0
Croatia	16.5	17.3	14.3	9.2	7.0	6.2	6.2	6.5	6.8
Cuba	22.7	20.2	18.6	18.6	18.1	17.8	17.5	18.0	17.7
Cyprus	5.4	4.7	3.8	4.0	2.5	2.2	2.4	2.7	2.8
Czechia	5.2	4.0	3.1	2.9	2.8	2.8	2.7	2.6	2.5
Democratic People's Republic of Korea	52.0	49.5	47.8	45.8	45.1	45.1	44.6	44.2	43.5
Democratic Republic of the Congo	74.1	71.9	66.2	58.3	57.8	57.0	56.3	55.9	55.3
Denmark	3.7	3.2	2.5	2.5	2.1	2.2	2.2	2.1	2.0
Djibouti	2.5	2.2	1.8	1.4	1.3	1.3	1.2	1.2	1.2
Dominica									
Dominican Republic	15.6	13.7	12.4	9.7	9.6	9.3	8.8	9.0	8.3
Ecuador	27.9	30.3	27.9	26.2	27.7	28.8	29.7	31.8	32.2
Egypt	29.6	30.9	28.3	25.8	25.0	21.7	21.1	20.4	19.8
El Salvador	21.6	20.0	20.8	18.1	18.6	16.7	16.3	15.7	15.2
Equatorial Guinea	59.9	55.6	54.1	54.7	55.7	55.4	55.7	56.1	55.5
Eritrea	62.1	63.9	65.3	64.5	64.7	62.9	62.2	62.9	62.4
Estonia	6.4	5.2	4.2	3.9	3.5	3.3	3.2	3.0	2.7
Eswatini	20.0	17.6	15.3	13.5	12.9	12.7	12.4	12.7	12.4
Ethiopia	76.7	78.1	73.6	68.3	66.0	65.0	63.9	64.1	63.7
Fiji	21.5	28.2	29.8	30.4	30.0	29.5	29.4	29.4	28.9
Finland	6.2	4.8	4.4	4.2	3.8	3.7	3.8	3.7	4.1
France	4.1	3.6	2.9	2.7	2.6	2.5	2.5	2.4	2.5
Gabon	40.8	38.3	35.9	32.1	31.0	30.6	30.0	29.6	29.0
Gambia	53.9	54.0	52.1	51.8	50.9	49.6	48.7	49.0	48.5
Georgia	52.2	54.3	48.1	44.0	43.1	38.9	38.1	41.1	40.4
Germany	2.6	2.4	1.6	1.4	1.3	1.2	1.2	1.3	1.3
Ghana	53.1	54.7	42.0	35.2	42.0	41.0	40.2	40.0	39.5
Greece	17.4	12.2	12.4	12.9	12.1	12.3	11.6	10.6	11.4
Grenada									
Guatemala	39.8	34.7	33.5	31.9	31.8	32.9	31.1	30.8	29.2
Guinea	71.3	68.4	66.7	62.9	61.1	60.3	59.6	59.8	59.2
Guinea-Bissau	60.9	60.3	58.3	56.5	55.2	51.9	51.0	50.9	50.3
Guyana	25.2	22.6	20.2	18.8	18.5	15.9	15.3	12.2	13.1
Haiti	51.5	50.3	49.7	47.7	47.0	46.7	46.4	46.2	45.6
Honduras	36.1	33.1	36.5	28.7	32.0	31.0	31.1	25.2	24.8
Hungary	6.5	4.9	4.5	4.9	5.0	4.8	4.7	4.8	4.4
Iceland	8.7	6.5	5.6	4.2	3.8	4.0	4.0	4.0	4.0
India	59.6	56.0	51.5	45.2	43.9	43.3	41.4	44.3	44.0
Indonesia	45.3	44.0	39.1	33.0	30.8	29.7	28.7	29.6	29.0
Iran (Islamic Republic of)	22.7	20.9	18.0	17.1	16.6	16.7	17.0	16.7	16.3
Iraq	27.3	27.0	24.2	21.6	20.8	20.6	20.1	20.3	19.8
Ireland	8.0	5.9	5.8	5.3	5.0	4.8	4.4	4.5	4.5

TABLE 9.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	2.2	2.0	1.6	1.0	1.0	1.0	0.9	0.9	0.9
Italy	5.2	4.2	3.8	3.8	3.8	3.8	3.9	4.0	4.1
Jamaica	20.9	18.1	17.7	17.7	16.8	16.3	15.2	15.9	15.5
Japan	4.9	4.3	3.9	3.5	3.3	3.4	3.3	3.2	3.2
Jordan	4.2	4.0	3.6	3.5	3.4	3.7	3.4	3.3	3.2
Kazakhstan	36.2	32.4	28.3	18.0	16.9	16.3	15.6	15.5	15.0
Kenya	45.6	43.5	40.1	36.6	35.2	34.3	33.6	33.6	33.0
Kiribati									
Kuwait	2.4	2.6	2.4	2.2	2.1	2.1	2.0	2.0	2.0
Kyrgyzstan	53.1	38.5	32.1	29.3	23.6	20.4	18.1	17.2	16.6
Lao People's Democratic Republic	81.9	77.5	71.5	64.0	61.0	60.1	59.2	58.8	58.1
Latvia	14.9	12.1	8.6	7.9	6.9	7.0	7.3	7.2	6.8
Lebanon	5.3	4.9	3.9	3.9	3.8	3.8	3.8	3.9	3.8
Lesotho	46.2	37.8	31.7	30.2	30.2	30.3	29.8	30.5	30.0
Liberia	50.7	51.9	47.3	41.3	40.6	40.2	40.7	41.2	40.6
Libya	21.6	19.5	17.4	19.3	18.2	17.4	16.9	16.8	16.3
Lithuania	19.2	14.3	8.8	9.1	7.8	7.2	6.4	5.7	5.3
Luxembourg	2.4	1.7	1.1	1.0	1.4	1.1	0.7	0.8	1.1
Madagascar	76.5	82.0	73.3	74.6	74.5	74.5	74.2	74.3	73.9
Malawi	74.3	72.8	67.8	64.7	63.7	62.9	62.4	62.4	61.9
Malaysia	18.4	14.6	13.3	12.5	11.0	10.6	10.2	10.0	9.6
Maldives	14.4	17.5	12.6	8.3	8.7	9.2	10.0	11.0	10.5
Mali	67.0	63.7	69.0	62.3	63.1	63.0	65.7	68.1	67.7
Malta	2.0	2.1	1.3	1.5	1.0	1.0	1.0	1.1	0.9
Marshall Islands									
Mauritania	42.2	39.0	36.0	33.0	32.0	31.4	30.6	30.1	29.5
Mauritius	11.4	10.0	8.6	7.5	7.0	6.2	5.6	5.3	5.1
Mexico	17.4	14.9	13.9	13.4	13.1	12.6	12.3	12.5	12.3
Micronesia (Federated States of)									
Mongolia	48.6	42.0	33.5	28.5	28.8	26.7	27.8	25.1	24.3
Montenegro	10.3	8.6	6.2	7.7	7.9	8.0	7.1	7.5	7.4
Morocco	44.0	45.5	40.0	36.6	35.3	34.6	33.9	35.0	34.6
Mozambique	83.0	79.5	76.5	72.1	71.8	71.5	71.3	70.8	70.3
Myanmar	61.5	56.2	52.3	51.7	51.3	48.9	49.8	46.5	
Namibia	31.3	30.4	31.7	24.4	21.4	22.6	22.1	22.4	22.1
Nauru									
Nepal	72.6	72.6	67.9	65.0	63.8	63.0	62.3	62.8	62.3
Netherlands (Kingdom of the)	3.3	3.7	3.1	2.3	2.3	2.1	2.1	2.1	2.3
New Zealand	8.7	7.2	6.9	6.1	6.3	5.9	5.8	6.0	6.1
Nicaragua	33.1	28.9	29.7	30.9	29.8	29.3	28.8	29.2	28.7
Niger	78.7	78.5	77.2	73.0	72.4	71.9	71.3	71.1	70.7
Nigeria	49.3	44.9	41.3	37.0	36.3	35.9	35.5	35.8	35.2
North Macedonia	24.5	19.0	18.1	17.9	16.2	15.7	13.9	11.6	10.8
Norway	4.3	3.3	2.5	2.0	2.1	2.1	2.0	2.1	2.3

TABLE 9.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	6.4	7.9	5.2	5.3	4.7	4.4	4.2	4.2	4.1
Pakistan	45.1	43.1	43.4	41.0	39.8	37.4	38.3	38.3	37.5
Palau									
Panama	17.0	15.7	17.4	14.7	14.5	14.2	14.4	14.1	15.7
Papua New Guinea	36.8	32.6	25.7	21.1	20.0	19.7	19.2	17.8	17.2
Paraguay	31.9	32.0	25.6	19.7	20.2	20.1	18.7	21.3	19.7
Peru	37.4	33.8	26.8	27.0	26.2	26.1	25.6	33.7	27.9
Philippines	37.1	35.1	33.0	29.2	25.4	24.3	22.9	24.8	24.3
Poland	18.7	17.4	13.1	11.5	10.2	9.6	9.2	9.6	8.4
Portugal	12.7	12.1	11.2	7.5	6.4	6.0	5.5	5.4	5.2
Qatar	2.6	2.9	1.5	1.2	1.2	1.2	1.2	1.2	1.2
Republic of Korea	11.0	7.9	6.5	5.2	4.9	5.0	5.1	5.4	5.3
Republic of Moldova	50.9	40.6	27.5	34.2	35.5	39.3	39.4	38.2	37.6
Romania	45.2	32.3	31.0	25.6	22.8	22.3	21.2	20.5	18.6
Russian Federation	14.5	10.1	7.7	6.7	5.9	5.9	5.8	6.0	5.8
Rwanda	89.1	85.5	79.3	65.6	60.4	56.8	52.7	55.5	54.7
Saint Kitts and Nevis									
Saint Lucia	21.1	13.8	12.6	11.0	10.4	11.3	10.1	7.6	10.5
Saint Vincent and the Grenadines	16.8	14.1	12.5	11.3	10.9	10.7	10.4	10.6	10.3
Samoa	41.4	36.3	30.7	27.3	26.0	25.6	25.0	24.7	24.1
San Marino									
Sao Tome and Principe	32.5	27.9	23.0	20.0	18.9	18.5	18.2	18.4	18.0
Saudi Arabia	7.1	6.7	6.3	5.9	3.9	3.1	3.5	3.2	2.7
Senegal	49.3	41.6	38.2	31.3	28.1	22.2	23.0	22.6	21.6
Serbia	27.2	23.3	22.3	19.4	17.2	15.9	15.6	14.6	13.9
Seychelles									
Sierra Leone	69.2	68.5	65.2	57.0	49.2	46.2	44.5	43.6	42.7
Singapore	0.9	1.1	0.9	0.6	0.4	0.4	0.4	0.3	0.3
Slovakia	6.9	4.8	3.2	3.2	2.7	2.3	2.8	2.6	2.5
Slovenia	9.6	9.1	8.8	7.1	5.6	5.5	4.3	4.1	4.1
Solomon Islands	48.5	47.6	44.3	40.7	39.3	38.8	38.7	38.6	38.0
Somalia	38.4	37.1	35.8	31.0	29.3	28.1	26.9	26.8	26.3
South Africa	20.5	17.9	16.6	15.5	16.8	15.7	16.4	21.4	21.3
South Sudan	65.4	63.4	62.1	62.0	62.6	62.6	62.3	62.6	62.1
Spain	6.7	5.3	4.2	4.1	4.4	4.2	4.0	4.0	4.1
Sri Lanka	37.8	33.0	30.9	28.7	26.1	25.5	25.3	26.2	25.7
Sudan	51.7	48.6	45.9	42.8	41.3	41.0	40.7	41.2	40.6
Suriname	7.2	8.3	7.2	7.3	7.7	7.5	7.6	8.0	7.9
Sweden	2.9	2.3	2.1	2.0	1.8	1.7	1.7	1.7	2.0
Switzerland	4.8	3.9	3.5	3.4	3.1	3.0	2.6	2.6	2.2
Syrian Arab Republic	32.9	22.0	14.8	14.2	13.8	13.5	13.1	12.9	12.5
Tajikistan	60.4	55.4	52.3	47.3	45.5	44.4	43.6	43.3	42.6
Thailand	51.7	38.7	38.2	32.3	31.5	32.2	31.5	31.4	31.6
Timor-Leste	55.2	52.9	48.5	47.2	44.5	44.0	42.4	42.4	41.6

TABLE 9.
SHARE OF AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT IN TOTAL EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	56.8	54.7	39.9	36.4	33.8	32.8	31.8	31.5	30.9
Tonga	33.8	32.1	32.8	32.0	31.2	31.1	31.3	31.0	30.4
Trinidad and Tobago	7.2	4.3	3.8	3.4	3.2	3.2	3.1	3.1	3.0
Tunisia	20.9	18.5	17.9	14.8	14.8	14.5	14.3	14.3	13.9
Türkiye	36.0	25.7	23.7	20.4	19.4	18.4	18.1	17.6	17.1
Turkmenistan	36.3	34.4	31.6	26.9	25.1	24.2	23.2	22.9	22.3
Tuvalu									
Uganda	69.5	75.3	71.3	67.8	65.1	64.3	63.5	63.5	62.9
Ukraine	22.4	20.5	16.3	15.3	15.4	15.2	15.1	15.1	14.7
United Arab Emirates	8.5	6.0	3.8	2.4	1.8	1.5	2.2	1.8	1.7
United Kingdom of Great Britain and Northern Ireland	1.5	1.4	1.2	1.1	1.2	1.1	1.0	1.0	1.0
United Republic of Tanzania	83.1	74.5	70.3	67.5	66.3	65.8	65.1	64.8	64.3
United States of America	2.3	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7
Uruguay	11.1	10.4	11.6	8.8	8.7	8.4	8.5	8.3	8.4
Uzbekistan	37.7	32.4	26.8	26.9	25.8	25.1	24.3	24.5	23.9
Vanuatu	65.2	64.4	63.8	56.8	52.8	51.0	49.2	48.8	48.0
Venezuela (Bolivarian Republic of)	10.6	10.3	8.5	6.4	8.1	9.6	11.6	13.0	13.1
Viet Nam	65.3	54.8	48.7	44.0	40.2	37.7	35.0	32.6	29.0
Yemen	49.6	29.7	24.1	30.3	30.6	30.4	30.0	28.8	28.1
Zambia	69.0	70.8	66.1	60.5	58.8	59.8	57.4	59.1	58.7
Zimbabwe	65.3	72.8	67.2	66.5	64.6	63.3	62.4	62.2	61.6

Source: FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/OEA

TABLE 10.
SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT (PERCENT)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	38.6	38.9	38.5	37.7	37.3	37.2	37.9	37.7	37.8
Africa	46.1	46.6	45.9	45.6	45.5	45.4	45.3	44.8	44.9
Americas	21.2	23.5	22.0	21.8	21.9	22.3	22.4	22.9	23.5
Asia	37.9	37.9	37.5	36.2	35.6	35.3	36.4	36.1	36.2
Europe	41.5	40.4	39.1	37.2	35.9	35.7	35.5	35.2	34.8
Oceania	34.7	35.2	35.4	34.9	34.2	34.1	34.3	34.2	34.9
Afghanistan	21.6	23.0	22.8	28.8	32.7	31.5	29.7	21.7	
Albania	52.4	53.2	52.7	49.1	48.3	49.4	50.3	49.7	49.9
Algeria	8.5	7.9	4.5	6.7	7.0	6.8	6.7	6.4	6.6
Andorra									
Angola	62.8	61.6	56.9	56.7	56.3	56.1	56.1	56.0	56.1
Antigua and Barbuda									
Argentina	19.5	18.2	17.8	18.6	18.9	19.1	19.4	20.4	20.0
Armenia	43.4	52.4	61.7	58.4	57.7	57.6	58.3	59.0	59.0
Australia	31.1	30.7	32.0	32.3	29.7	30.0	31.5	32.4	34.0
Austria	46.4	45.5	44.6	43.7	44.0	41.6	40.8	41.1	42.5
Azerbaijan	56.0	51.6	58.7	57.3	57.0	57.0	56.8	56.4	57.0
Bahamas	13.3	4.8	13.8	21.5	21.0	21.5	21.4	22.7	22.9
Bahrain	2.4	1.6	0.9	1.0	0.9	0.9	0.9	0.9	0.9
Bangladesh	29.4	34.0	37.1	40.3	45.6	46.5	47.2	47.0	47.9
Barbados	39.7	34.6	32.0	28.1	28.3	26.6	18.0	19.7	19.8
Belarus	43.7	44.3	44.4	42.5	41.6	40.9	40.8	40.5	41.0
Belgium	26.4	31.7	29.8	28.8	28.2	30.2	32.3	32.9	27.7
Belize	6.5	5.2	7.5	9.2	11.1	11.2	14.7	12.2	12.8
Benin	40.2	41.3	41.0	31.3	26.7	24.5	24.1	23.3	23.0
Bhutan	48.8	51.0	50.9	45.7	45.8	45.7	45.7	45.1	45.4
Bolivia (Plurinational State of)	39.9	43.4	44.4	41.8	43.1	44.3	44.7	40.8	41.6
Bosnia and Herzegovina	44.0	38.8	42.9	35.5	40.3	38.7	44.1	44.7	45.8
Botswana	37.8	32.7	34.9	32.2	30.5	29.6	28.6	33.9	33.5
Brazil	23.0	27.8	23.1	20.8	19.2	19.2	19.2	19.7	20.1
Brunei Darussalam	10.8	10.6	11.6	13.2	14.2	21.3	14.7	19.6	19.2
Bulgaria	37.6	35.8	35.9	29.7	30.1	30.0	30.1	29.8	30.0
Burkina Faso	47.3	44.3	44.9	46.7	46.9	47.0	47.1	46.8	47.0
Burundi	55.2	55.6	56.1	56.6	56.5	56.5	56.5	56.4	56.6
Cabo Verde	27.0	27.9	29.2	30.0	25.9	24.6	22.9	22.8	23.1
Cambodia	49.9	48.5	47.7	49.0	49.3	48.6	48.1	47.4	47.7
Cameroon	51.7	52.6	51.6	52.3	52.6	52.7	52.9	52.4	52.6
Canada	30.3	29.9	29.4	29.3	30.2	30.0	31.5	31.1	31.7
Central African Republic	49.5	49.1	49.3	48.0	48.3	48.5	48.5	48.2	48.3
Chad	45.4	45.9	44.5	42.6	40.9	40.4	40.4	39.9	39.9
Chile	10.8	13.9	19.1	21.2	24.0	23.6	22.3	22.2	22.0
China	41.1	40.7	39.7	39.2	39.2	39.1	39.1	38.9	39.1
Colombia	13.8	13.5	15.3	18.7	19.4	19.3	17.1	16.4	16.2
Comoros	44.6	45.0	39.4	34.0	33.4	33.1	33.0	32.2	32.3

TABLE 10.
SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	51.4	51.1	51.3	50.6	49.8	50.2	50.2	50.0	50.1
Costa Rica	7.4	10.9	11.0	20.1	22.3	22.8	24.3	23.6	22.9
Côte d'Ivoire	34.4	35.4	36.2	34.5	32.6	34.7	36.6	35.9	36.1
Croatia	44.6	48.6	49.6	37.0	33.5	37.2	32.5	31.5	33.3
Cuba	14.8	17.1	17.5	16.3	16.0	15.9	15.6	16.0	16.2
Cyprus	33.3	30.0	29.3	24.0	19.6	21.6	23.9	25.6	19.0
Czechia	31.7	30.6	26.5	24.5	28.2	27.9	29.0	27.1	26.1
Democratic People's Republic of Korea	54.2	53.8	53.2	52.1	51.5	51.2	51.1	50.4	50.5
Democratic Republic of the Congo	56.0	56.2	54.6	56.7	56.6	57.1	57.3	57.0	57.2
Denmark	25.0	23.5	17.3	18.7	20.9	20.5	23.2	21.8	21.1
Djibouti	20.3	19.8	20.4	19.1	18.6	18.6	18.8	18.8	18.6
Dominica									
Dominican Republic	5.1	6.3	6.2	5.6	5.2	6.1	6.2	5.3	6.2
Ecuador	29.7	32.3	28.6	34.0	36.7	37.0	37.5	35.7	38.2
Egypt	24.9	28.2	30.2	32.4	31.5	23.8	20.9	19.8	20.7
El Salvador	7.1	9.9	10.7	8.9	8.8	8.5	8.6	9.3	9.4
Equatorial Guinea	45.8	46.0	45.9	44.8	44.2	43.9	43.6	43.8	44.2
Eritrea	51.8	52.9	52.0	50.0	49.7	49.6	49.4	49.0	49.1
Estonia	34.4	31.2	33.9	31.3	26.6	24.2	23.1	25.2	25.9
Eswatini	41.4	40.9	40.2	39.4	39.1	38.9	38.9	38.6	38.8
Ethiopia	39.3	42.6	41.7	40.8	40.6	40.6	40.3	39.8	40.1
Fiji	26.2	22.3	25.1	23.5	22.5	22.5	22.4	22.0	22.1
Finland	29.6	29.0	30.2	25.3	27.4	26.8	26.3	26.8	25.1
France	31.0	29.3	29.1	28.8	29.2	26.8	28.2	29.7	28.2
Gabon	55.0	53.4	51.3	50.3	49.3	48.8	48.5	48.3	48.4
Gambia	54.7	54.8	55.3	59.5	62.0	63.3	63.5	63.0	63.5
Georgia	50.8	51.0	49.6	51.1	49.8	50.9	50.3	49.9	50.1
Germany	35.2	33.3	33.6	32.0	32.4	31.8	32.4	31.5	35.4
Ghana	48.5	45.7	43.1	37.2	44.2	44.2	44.3	43.9	44.1
Greece	40.9	42.0	40.9	40.4	39.9	39.9	38.7	38.9	38.4
Grenada									
Guatemala	14.7	14.3	14.1	9.9	10.2	11.2	11.6	12.2	13.4
Guinea	54.0	53.1	50.3	47.0	45.5	44.7	43.9	43.5	43.2
Guinea-Bissau	47.7	47.7	47.9	47.9	47.8	48.8	48.9	48.5	48.6
Guyana	13.3	10.9	13.6	17.5	20.6	20.3	18.4	17.2	14.9
Haiti	32.1	31.6	32.0	32.5	32.0	31.8	31.4	30.5	30.5
Honduras	7.1	8.4	11.0	9.1	9.9	13.3	14.4	13.3	13.4
Hungary	23.3	24.7	23.5	24.6	25.4	25.3	26.9	26.6	27.8
Iceland	23.0	21.9	19.0	19.4	24.1	14.1	15.9	20.8	20.5
India	32.2	33.9	33.1	29.1	27.6	26.9	30.2	30.7	30.9
Indonesia	39.2	35.3	37.2	37.6	36.5	36.5	36.6	36.4	35.7
Iran (Islamic Republic of)	19.1	27.1	24.8	20.4	22.8	21.2	20.7	17.2	18.1
Iraq	12.4	14.5	14.9	14.9	11.0	11.5	11.9	11.9	12.1
Ireland	11.2	9.3	15.3	13.7	14.2	14.1	12.5	14.9	13.5

TABLE 10.
SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	17.9	18.2	22.1	27.8	23.5	24.0	23.9	24.6	24.5
Italy	30.7	30.6	29.4	27.3	26.2	26.9	25.9	25.5	25.7
Jamaica	19.2	20.1	19.2	19.7	24.2	24.4	24.1	24.7	24.9
Japan	44.0	42.2	40.1	37.7	37.5	38.2	38.6	38.4	37.6
Jordan	4.7	4.3	5.2	4.6	5.0	4.0	4.9	5.1	5.0
Kazakhstan	46.4	47.4	48.3	47.4	46.4	46.3	46.0	44.8	45.4
Kenya	59.2	58.2	56.1	53.9	53.1	52.8	52.5	51.9	52.1
Kiribati									
Kuwait	0.5	0.5	1.0	1.7	2.0	1.9	1.8	1.9	2.0
Kyrgyzstan	46.4	42.3	41.7	45.2	40.3	38.8	44.9	43.0	43.5
Lao People's Democratic Republic	49.5	49.0	48.1	48.4	48.7	48.7	48.6	48.3	48.5
Latvia	42.7	32.5	35.0	32.0	30.9	29.0	30.1	28.5	28.5
Lebanon	10.5	10.3	10.4	11.5	12.2	12.5	12.9	12.7	13.0
Lesotho	40.0	36.2	31.9	29.3	28.4	28.3	28.0	28.2	28.5
Liberia	46.8	46.4	47.8	50.6	51.3	51.3	51.2	51.0	51.1
Libya	26.0	29.7	30.5	29.8	30.1	30.1	29.8	29.6	29.6
Lithuania	40.4	39.8	38.8	37.0	35.2	32.7	32.5	32.6	33.4
Luxembourg	24.0	26.4	29.1	32.4	23.4	20.7	28.6	30.0	23.5
Madagascar	49.6	48.0	46.6	47.5	47.5	47.5	47.5	47.2	47.4
Malawi	52.6	53.0	52.9	53.1	53.2	53.5	53.7	52.1	52.6
Malaysia	27.3	24.3	22.6	24.1	23.0	22.9	22.8	22.6	22.8
Maldives	14.8	14.2	8.9	8.6	7.8	8.0	8.2	8.4	8.5
Mali	41.2	41.0	42.0	42.8	40.8	41.9	41.3	36.8	37.8
Malta	12.9	12.1	13.6	15.5	17.0	17.6	17.8	17.9	17.3
Marshall Islands									
Mauritania	21.7	22.4	23.1	23.5	23.8	23.9	24.2	23.5	23.5
Mauritius	24.7	29.1	30.7	28.4	26.4	24.9	25.8	23.1	23.0
Mexico	12.8	11.6	10.4	10.4	10.8	10.5	11.2	11.3	12.9
Micronesia (Federated States of)									
Mongolia	44.5	45.0	44.6	43.7	42.2	41.1	43.1	42.5	42.5
Montenegro	32.9	42.4	35.5	48.9	39.1	40.5	41.7	36.8	37.1
Morocco	30.6	34.3	38.9	38.7	37.6	37.6	37.6	36.9	33.7
Mozambique	59.3	60.2	59.7	58.4	58.2	58.3	58.3	58.1	58.3
Myanmar	43.6	41.2	39.7	38.5	35.1	35.0	34.1	32.1	
Namibia	41.9	39.0	44.7	46.2	44.4	46.8	46.3	46.3	46.7
Nauru									
Nepal	29.4	31.1	35.4	41.0	43.0	43.7	44.0	43.5	43.6
Netherlands (Kingdom of the)	31.4	28.2	27.6	30.1	30.0	28.7	31.0	28.9	30.1
New Zealand	30.5	32.3	30.0	30.6	32.4	30.8	30.4	32.2	33.8
Nicaragua	7.9	8.8	8.8	11.2	11.4	11.0	10.5	10.2	10.3
Niger	41.1	40.7	40.6	41.0	41.0	40.9	41.0	40.7	40.8
Nigeria	39.6	38.8	37.7	33.2	32.3	32.2	32.0	31.2	31.0
North Macedonia	38.6	39.5	39.8	39.4	38.5	37.3	37.9	36.4	31.7
Norway	25.2	22.8	19.2	21.9	22.0	24.7	24.6	22.9	20.1

TABLE 10.
SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	13.5	5.6	1.4	0.6	0.5	0.5	0.6	0.6	0.7
Pakistan	22.9	27.6	35.8	38.5	37.5	37.3	40.5	39.5	41.2
Palau									
Panama	3.7	10.1	15.8	21.0	23.6	22.3	23.5	21.7	22.7
Papua New Guinea	36.1	36.9	37.3	36.0	35.8	35.8	35.6	34.6	34.5
Paraguay	23.3	27.1	27.3	28.5	29.9	29.7	28.1	29.2	30.2
Peru	37.2	41.3	43.2	42.4	41.8	41.6	42.8	42.9	46.0
Philippines	24.9	24.7	25.4	25.5	22.7	22.5	23.2	23.4	23.5
Poland	44.1	42.5	43.5	40.4	38.9	39.4	39.4	38.5	37.6
Portugal	50.8	50.4	46.4	34.8	31.8	31.9	32.3	31.9	32.0
Qatar	0.1	0.5	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Republic of Korea	47.3	45.3	42.5	42.6	40.6	40.0	40.0	39.0	38.2
Republic of Moldova	50.9	52.2	44.7	43.0	42.7	44.5	44.0	43.5	42.9
Romania	50.2	46.7	46.1	43.7	43.0	43.4	42.9	42.0	40.6
Russian Federation	39.3	38.5	35.3	37.0	33.1	32.9	33.4	33.7	33.6
Rwanda	47.4	49.0	50.7	54.7	56.5	56.2	54.7	55.0	55.3
Saint Kitts and Nevis									
Saint Lucia	26.0	25.5	26.2	21.2	19.6	20.9	14.5	15.1	22.9
Saint Vincent and the Grenadines	19.8	20.5	19.7	19.1	18.9	19.0	18.8	18.7	19.0
Samoa	34.9	34.3	33.4	32.5	31.6	31.5	31.7	31.6	31.6
San Marino									
Sao Tome and Principe	22.4	17.0	19.3	20.0	20.4	20.4	20.5	19.9	20.1
Saudi Arabia	0.6	0.7	0.7	0.8	2.4	2.7	8.0	5.8	3.6
Senegal	31.0	33.0	33.3	33.8	32.5	27.7	29.4	28.7	28.7
Serbia	43.5	40.8	40.8	36.6	38.6	37.9	38.0	37.1	36.9
Seychelles									
Sierra Leone	52.6	52.8	50.2	47.9	47.8	47.5	47.7	47.1	47.1
Singapore	19.7	20.1	20.4	20.9	20.7	20.7	20.7	20.9	21.3
Slovakia	28.5	24.5	24.4	18.5	22.9	23.4	21.8	20.5	25.3
Slovenia	46.8	45.5	44.4	45.5	39.8	41.2	37.2	42.3	41.9
Solomon Islands	49.1	49.6	49.8	49.2	49.1	49.1	49.2	49.0	49.2
Somalia	36.1	34.5	33.1	32.7	32.6	32.5	32.3	31.5	31.6
South Africa	51.8	51.8	50.1	46.7	47.7	47.9	48.4	48.7	47.9
South Sudan	64.8	64.7	63.8	60.3	61.5	61.3	61.4	61.2	61.5
Spain	26.1	26.7	25.8	23.2	23.7	23.5	23.1	22.3	23.8
Sri Lanka	38.8	37.2	37.9	37.8	38.6	36.6	34.5	34.1	34.5
Sudan	37.2	36.2	32.7	33.1	34.8	35.1	35.3	34.7	35.0
Suriname	16.3	19.7	23.2	27.8	29.6	30.6	31.7	31.0	31.7
Sweden	23.6	21.5	21.6	23.9	26.5	23.2	19.6	20.9	24.3
Switzerland	36.4	32.9	35.2	38.8	38.5	39.1	35.7	35.8	33.8
Syrian Arab Republic	34.0	23.6	18.9	11.1	10.7	10.6	10.5	9.9	10.1
Tajikistan	47.9	49.0	46.9	52.4	53.5	53.8	53.7	53.4	54.2
Thailand	45.3	44.0	43.2	42.1	41.2	41.4	41.1	40.9	40.6
Timor-Leste	49.1	48.3	47.4	44.3	42.5	42.2	42.3	42.2	42.2

TABLE 10.
SHARE OF WOMEN IN AGRICULTURE, FORESTRY AND FISHING EMPLOYMENT (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	45.9	44.9	40.8	39.3	41.2	41.5	41.6	41.0	41.1
Tonga	5.1	6.0	9.3	13.5	15.1	16.2	16.2	15.9	15.8
Trinidad and Tobago	15.4	16.0	21.2	17.0	20.2	19.8	19.9	21.4	21.9
Tunisia	28.8	28.8	28.2	17.1	18.1	17.7	17.5	17.0	17.2
Türkiye	44.6	44.6	46.1	45.3	44.7	43.9	43.4	39.7	40.5
Turkmenistan	54.6	53.7	54.1	54.8	54.5	54.5	54.3	53.7	54.1
Tuvalu									
Uganda	51.5	52.0	50.8	52.6	53.0	53.3	53.4	53.0	53.3
Ukraine	47.2	48.1	47.0	43.0	42.0	41.3	40.1	39.9	39.8
United Arab Emirates	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.5	0.4
United Kingdom of Great Britain and Northern Ireland	23.1	24.4	23.3	26.5	26.3	27.2	26.5	26.8	26.6
United Republic of Tanzania	51.5	52.4	52.4	51.1	50.9	51.0	51.0	49.8	50.2
United States of America	25.4	25.7	25.5	25.1	25.1	26.4	26.5	27.6	28.0
Uruguay	20.4	20.7	19.5	22.8	20.1	20.4	21.2	22.9	23.5
Uzbekistan	56.1	57.3	58.7	60.8	60.8	61.0	61.0	59.2	60.2
Vanuatu	46.1	45.9	45.6	43.1	41.5	40.7	39.7	39.2	39.1
Venezuela (Bolivarian Republic of)	6.0	8.1	8.0	7.9	10.4	12.2	12.9	13.2	13.6
Viet Nam	50.4	50.8	50.9	50.1	50.1	49.4	49.8	49.3	47.7
Yemen	33.5	22.5	13.6	11.3	10.9	10.9	10.8	10.8	10.6
Zambia	51.3	49.6	49.2	50.4	51.0	51.1	49.0	49.5	49.6
Zimbabwe	58.3	55.6	55.3	53.8	54.1	54.1	54.4	54.3	54.4

Source: Based on FAO. 2023. Employment Indicators: Agriculture. In: *FAOSTAT*. Rome. [Cited October 2023].

https://www.fao.org/faostat/en/#data/OEA

TABLE 11.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (USD 2015 PRICES) (PERCENT)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	14.4	14.8	15.9	16.1	16.0	15.6	15.8	16.0	15.3
Africa	11.4	10.6	11.2	11.7	11.3	10.5	10.0	9.5	8.8
Americas	15.4	16.2	18.0	18.7	17.8	16.8	17.5	16.5	15.8
Asia	11.0	11.6	13.3	14.0	14.1	13.8	14.1	14.6	14.0
Europe	27.5	28.7	29.5	28.0	29.8	30.3	29.6	30.2	30.0
Oceania	28.0	32.2	28.6	26.0	27.6	26.9	29.5	27.5	28.4
Afghanistan	12.1	9.5	9.8	5.7	6.4	6.2	6.2	7.6	7.6
Albania	13.4	13.6	13.7	13.9	14.0	13.9	13.9	13.9	14.1
Algeria	13.3	10.6	10.1	12.0	13.0	13.1	13.6	14.2	14.4
Andorra	10.9	13.5	11.9	10.4	10.0	10.2	10.5	10.6	11.5
Angola	13.2	7.4	8.5	9.6	8.0	7.8	6.9	7.8	6.0
Antigua and Barbuda	6.2	5.3	6.9	6.5	5.8	9.7	8.5	3.9	3.7
Argentina	10.6	15.3	19.5	15.3	17.4	20.8	16.8	18.1	12.3
Armenia	15.4	9.8	10.2	6.0	6.7	9.5	8.7	10.5	11.6
Australia	33.8	38.9	31.4	29.0	30.4	30.4	35.5	33.0	34.2
Austria	65.8	64.0	67.4	52.6	50.9	51.3	52.9	54.5	54.8
Azerbaijan	2.9	1.4	12.9	10.1	13.0	15.3	13.5	11.3	10.4
Bahamas	10.6	11.4	10.5	15.7	14.2	16.1	16.2	11.2	37.2
Bahrain	11.7	7.0	12.1	8.2	9.2	8.9	10.5	8.8	9.0
Bangladesh	5.8	6.4	7.1	8.7	9.3	9.5	9.9	10.4	10.0
Barbados	5.0	5.9	5.5	6.6	5.5	4.2	3.7	2.5	1.9
Belarus	13.3	37.4	94.9	45.7	41.2	42.1	46.9	42.1	37.7
Belgium	24.8	27.8	36.9	40.6	43.4	54.0	58.6	70.0	76.4
Belize	7.8	4.9	4.2	5.5	5.4	4.4	5.2	4.9	5.3
Benin	4.4	5.4	5.5	7.3	7.5	7.4	7.9	7.9	7.6
Bhutan	5.9	6.9	11.1	12.4	14.4	14.8	14.4	13.5	13.0
Bolivia (Plurinational State of)	10.5	9.2	10.6	12.8	16.0	16.0	16.4	12.3	12.6
Bosnia and Herzegovina	11.4	13.0	13.4	14.5	15.0	14.7	15.1	15.0	15.5
Botswana	4.8	4.0	5.1	8.0	8.0	8.2	8.5	8.2	8.3
Brazil	8.9	7.0	6.9	5.7	6.1	5.8	5.8	6.0	5.6
Brunei Darussalam	13.2	11.5	12.1	17.0	17.4	19.3	19.0	17.7	17.5
Bulgaria	6.8	10.8	20.3	38.0	27.5	30.5	23.4	27.4	27.8
Burkina Faso	4.1	4.4	4.8	6.6	7.2	8.3	8.5	8.1	8.6
Burundi	1.1	1.8	3.0	3.3	3.6	3.3	3.3	3.1	2.9
Cabo Verde	9.8	11.6	12.5	12.1	12.8	12.8	13.3	11.2	14.5
Cambodia	2.6	3.7	5.7	7.4	7.8	8.7	9.3	9.4	9.8
Cameroon	8.2	8.4	8.8	10.3	10.1	10.3	10.9	9.2	8.5
Canada	23.8	17.1	20.1	18.9	18.9	14.4	13.3	15.9	16.0
Central African Republic	6.2	5.6	4.2	3.4	3.7	3.5	5.6	5.4	6.1
Chad	1.9	4.4	5.1	6.4	4.1	4.4	3.4	3.1	2.8
Chile	15.8	14.1	17.9	14.7	17.6	17.2	16.3	15.8	14.7
China, mainland	9.7	11.0	13.2	14.5	13.8	13.3	13.7	14.9	14.6
Colombia	5.5	6.7	7.6	5.6	7.7	8.4	8.4	7.8	7.3
Comoros	9.2	5.7	4.8	6.8	5.8	6.3	6.4	6.4	5.8

TABLE 11.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	17.2	12.2	9.1	13.0	12.1	12.4	12.8	10.1	14.0
Costa Rica	16.3	12.0	10.5	15.3	15.1	14.3	13.4	15.1	15.2
Côte d'Ivoire	4.0	4.2	7.5	10.1	13.6	16.5	17.1	16.9	17.3
Croatia	8.9	13.8	22.5	26.5	30.0	28.7	29.9	24.9	26.0
Cuba	4.8	5.1	6.5	7.8	7.1	6.4	7.6	8.2	8.6
Cyprus	19.7	12.6	7.2	4.4	8.0	8.4	7.5	6.4	5.7
Czechia	21.1	17.7	27.9	30.1	41.1	37.9	35.8	29.5	28.0
Democratic People's Republic of Korea									
Democratic Republic of the Congo	1.9	3.1	3.0	5.8	7.6	7.9	5.8	8.2	8.2
Denmark	62.0	66.9	45.5	49.8	52.2	48.7	40.4	38.1	35.7
Djibouti	0.8	2.7	2.7	8.2	9.1	7.2	7.1	7.0	6.4
Dominica	4.4	5.0	6.2	5.3	6.2	6.0	6.5	6.4	6.7
Dominican Republic	9.3	4.4	4.7	4.0	4.2	3.9	3.8	3.6	3.4
Ecuador	6.3	4.5	4.6	4.8	4.0	4.1	4.1	4.1	4.1
Egypt	15.9	4.8	2.9	3.5	3.9	4.3	4.5	4.9	4.2
El Salvador	12.9	14.5	13.9	15.0	13.8	13.5	14.1	14.3	15.0
Equatorial Guinea	6.7	16.1	14.2	11.3	11.1	11.0	10.6	10.0	6.1
Eritrea	5.5	6.2	4.7	4.9	4.8	5.0	5.2	5.4	5.8
Estonia	34.1	70.9	40.1	41.3	51.9	81.5	52.1	54.3	57.4
Eswatini	14.4	13.4	16.7	14.5	17.1	21.1	21.2	14.6	14.2
Ethiopia	2.0	2.1	3.4	6.7	7.6	7.5	9.8	9.9	10.1
Fiji	7.2	6.9	5.8	5.4	8.7	8.1	8.1	7.1	7.0
Finland	45.8	47.3	38.5	28.4	28.8	30.3	28.0	28.4	27.4
France	40.0	36.5	33.9	32.9	31.3	32.6	33.1	32.3	31.3
Gabon	8.4	7.0	8.6	10.1	9.4	9.1	8.6	9.0	8.8
Gambia	3.8	4.5	5.1	4.9	6.5	6.8	8.0	9.1	9.2
Georgia	8.8	9.6	6.8	8.0	8.6	8.1	7.9	8.0	7.5
Germany	39.6	46.5	40.4	46.1	47.4	55.3	52.9	49.0	48.3
Ghana	13.0	11.7	11.1	10.2	14.0	13.1	12.5	13.0	11.5
Greece	17.2	21.8	29.0	21.3	23.9	27.0	25.4	27.1	29.1
Grenada	12.4	31.7	9.5	7.3	6.3	8.0	8.8	8.2	9.4
Guatemala	16.7	14.3	12.7	11.9	11.5	11.3	11.8	11.9	11.7
Guinea	9.5	8.0	11.9	11.9	13.2	13.4	13.4	13.2	11.1
Guinea-Bissau	2.3	2.2	3.0	4.0	5.1	3.2	3.0	2.9	2.9
Guyana	7.9	8.6	8.3	7.0	7.7	6.2	6.0	5.2	6.2
Haiti	11.8	9.1	7.9	8.2	7.6	7.3	7.6	7.2	6.1
Honduras	15.7	13.5	12.1	16.5	13.7	13.1	12.5	12.7	12.2
Hungary	26.3	16.1	23.1	22.0	21.4	23.6	30.1	39.2	39.9
Iceland	21.4	15.3	12.2	26.4	27.6	16.6	20.5	20.6	19.5
India	6.9	9.1	13.0	12.9	13.4	14.0	14.7	14.2	13.8
Indonesia	14.1	13.0	14.3	15.3	15.5	15.4	15.3	15.5	15.3
Iran (Islamic Republic of)	7.4	6.9	10.2	9.7	9.2	9.2	9.1	8.0	5.3
Iraq	1.9	2.5	3.4	2.6	10.5	3.4	5.4	5.4	5.1
Ireland	45.3	36.2	30.3	45.0	34.5	42.5	37.8	36.6	35.3

TABLE 11.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	23.8	19.6	21.3	20.6	18.5	17.8	20.2	20.5	21.1
Italy	31.0	33.5	26.7	21.1	27.1	29.6	29.6	27.5	29.4
Jamaica	4.4	5.4	3.8	4.1	4.0	3.9	4.1	4.4	4.2
Japan	31.7	33.1	23.2	30.2	39.6	33.3	29.0	28.9	25.9
Jordan	27.8	6.6	5.3	5.7	13.1	11.4	15.1	13.7	13.7
Kazakhstan	5.9	6.6	7.7	8.8	8.5	8.5	9.5	10.2	9.6
Kenya	3.2	2.2	4.4	6.2	7.7	7.0	7.6	7.4	7.1
Kiribati	4.4	6.2	4.7	9.1	9.9	6.7	6.7	6.8	6.7
Kuwait	20.7	14.4	8.1	4.5	20.7	19.4	16.3	17.1	20.0
Kyrgyzstan	4.6	8.1	4.6	0.5	3.9	6.6	8.1	7.7	7.9
Lao People's Democratic Republic	7.6	5.8	7.5	9.1	10.0	9.8	11.4	12.9	13.2
Latvia	13.1	74.5	39.6	39.1	57.0	73.3	62.4	79.8	77.1
Lebanon	5.1	6.1	11.1	10.8	7.9	9.3	6.6	9.4	10.7
Lesotho	4.1	5.4	7.2	9.3	9.2	10.1	10.7	10.5	10.8
Liberia	1.8	3.0	2.2	4.7	6.6	6.0	5.2	5.8	5.9
Libya	33.7	8.3	10.6	7.0	17.3	16.9	10.5	16.2	8.5
Lithuania	22.2	37.0	43.6	50.0	55.1	64.0	50.7	42.5	42.3
Luxembourg	57.6	143.9	126.0	86.1	101.9	95.4	91.6	124.4	124.0
Madagascar	3.9	3.6	4.1	5.0	5.4	5.1	5.1	5.1	5.0
Malawi	2.7	3.8	3.8	5.0	5.3	5.3	5.7	10.3	11.1
Malaysia	6.9	6.7	8.2	10.6	10.8	10.7	10.6	9.9	10.2
Maldives	1.1	2.0	3.0	6.7	6.5	7.8	7.8	7.8	8.1
Mali	3.7	4.6	5.2	5.9	5.8	5.8	6.1	6.3	6.5
Malta	11.8	15.3	33.5	21.4	16.1	17.0	26.4	28.2	38.8
Marshall Islands	6.9	7.5	16.6	8.5	13.1	11.6	8.6	8.1	7.2
Mauritania	5.1	6.3	6.8	8.7	8.2	8.5	7.8	7.3	7.1
Mauritius	13.0	34.8	16.3	15.0	12.4	12.6	13.4	9.9	10.0
Mexico	2.6	2.5	2.2	3.3	3.2	3.2	3.3	3.0	2.8
Micronesia (Federated States of)	9.9	10.0	10.8	9.2	10.9	8.8	8.7	8.9	8.5
Mongolia	28.0	21.8	19.5	31.7	30.1	26.3	23.4	23.2	21.4
Montenegro	7.3	6.8	10.3	10.5	12.4	12.9	12.9	8.0	7.3
Morocco	17.8	16.7	18.3	19.5	18.3	19.2	21.4	19.0	20.0
Mozambique	2.5	3.8	5.7	5.7	6.8	5.4	4.4	5.6	5.6
Myanmar	3.4	4.8	6.4	8.0	8.3	8.4	8.6	7.7	8.0
Namibia	14.5	9.8	29.1	36.8	30.8	30.7	27.8	17.2	16.4
Nauru	4.0	3.7	6.8	6.4	7.4	6.4	6.5	6.7	6.3
Nepal	5.0	4.9	6.1	6.8	7.1	7.1	7.2	7.7	7.5
Netherlands (Kingdom of the)	38.3	35.1	39.3	40.1	36.9	39.9	40.2	38.4	38.6
New Zealand	19.6	22.1	28.9	26.8	30.1	28.9	27.9	23.0	25.2
Nicaragua	8.6	8.0	8.2	11.9	10.5	9.8	9.2	9.3	8.6
Niger	3.8	5.2	4.0	2.4	1.9	1.9	2.0	2.3	2.2
Nigeria	20.3	15.1	19.4	18.6	15.5	13.1	11.0	9.3	7.6
North Macedonia	4.7	3.4	3.9	7.1	7.0	9.1	9.7	5.4	5.4
Norway	45.0	32.8	28.3	26.6	36.1	30.4	30.7	29.0	28.7

TABLE 11.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	7.5	4.7	3.2	2.0	1.4	1.2	2.2	1.1	0.9
Pakistan	13.5	13.5	12.3	12.5	13.7	14.1	13.9	13.6	12.7
Palau	9.9	6.7	3.6	5.3	4.9	5.1	5.3	6.2	7.1
Panama	8.6	7.4	9.3	13.0	12.3	11.5	10.5	10.2	10.3
Papua New Guinea	5.2	5.5	8.8	7.2	7.8	7.2	7.2	7.5	6.9
Paraguay	11.2	11.6	11.8	9.1	9.5	9.4	9.5	9.3	9.0
Peru	6.5	6.3	8.8	9.7	10.0	11.1	11.3	10.8	10.4
Philippines	8.2	8.2	11.2	12.6	14.6	15.4	15.0	14.1	14.6
Poland	32.5	25.5	28.3	45.7	39.9	40.1	40.9	39.0	39.8
Portugal	32.8	30.3	27.4	29.5	29.4	28.9	27.8	32.9	33.3
Qatar									
Republic of Korea	31.6	20.7	16.3	15.3	15.7	16.2	13.5	16.7	14.5
Republic of Moldova	3.3	1.6	6.8	5.0	6.2	6.2	6.7	8.5	10.1
Romania	12.2	11.4	33.9	27.7	28.2	15.3	16.2	26.7	28.2
Russian Federation	7.7	13.0	15.8	16.4	19.2	19.1	15.5	17.5	16.5
Rwanda	3.1	3.8	4.6	6.1	6.6	6.3	6.7	7.4	7.2
Saint Kitts and Nevis	17.5	9.9	10.1	9.0	8.7	9.3	8.6	11.5	12.5
Saint Lucia	4.4	7.5	9.5	5.8	5.4	4.9	5.5	5.4	5.6
Saint Vincent and the Grenadines	4.6	5.3	6.5	4.8	5.4	5.5	5.6	6.0	6.4
Samoa									
San Marino									
Sao Tome and Principe	3.2	6.2	3.1	4.6	5.1	5.2	8.0	9.8	10.7
Saudi Arabia	9.0	9.9	10.5	12.2	11.4	10.9	10.8	10.7	10.7
Senegal	4.9	6.1	6.7	8.9	10.3	10.7	10.2	9.6	9.1
Serbia	20.5	10.0	12.6	14.9	14.0	13.3	14.1	15.0	15.3
Seychelles	7.1	6.1	7.5	7.8	7.3	6.8	6.7	5.0	5.0
Sierra Leone	2.7	2.9	3.3	4.7	4.5	3.9	3.9	3.9	3.3
Singapore	42.6	50.8	50.5	49.1	51.7	52.0	51.6	53.7	54.0
Slovakia	87.0	113.0	44.1	33.9	39.1	30.4	44.9	38.4	42.1
Slovenia	31.1	36.0	29.5	34.9	45.2	43.9	47.6	41.5	41.6
Solomon Islands	3.6	8.2	12.6	9.2	10.0	9.0	8.9	7.3	6.7
Somalia	5.1	4.7	5.0	5.3	5.3	5.3	5.3	5.4	5.3
South Africa	20.4	26.7	21.5	24.8	23.4	22.7	21.7	21.4	20.1
South Sudan									
Spain	14.7	17.1	14.9	15.5	21.3	20.1	21.0	21.2	21.3
Sri Lanka	9.1	10.3	12.0	13.6	15.3	15.3	14.3	15.5	15.3
Sudan									
Suriname	20.3	13.6	9.8	10.9	9.7	11.5	14.0	9.5	9.6
Sweden	38.2	44.4	51.5	37.6	38.7	43.1	41.0	37.2	33.1
Switzerland	39.9	37.9	35.5	41.6	40.8	37.5	39.7	46.5	55.6
Syrian Arab Republic	9.4	12.5	11.9	12.4	10.7	9.7	10.8	16.3	13.6
Tajikistan	11.4	13.3	6.6	9.1	9.1	8.9	10.2	11.9	12.1
Thailand	11.2	14.3	18.0	17.3	17.3	16.6	17.2	17.7	18.5
Timor-Leste	8.9	6.6	12.1	12.0	11.7	11.6	10.1	8.7	8.6

TABLE 11.
GROSS FIXED CAPITAL FORMATION (AGRICULTURE, FORESTRY AND FISHING) AS A SHARE OF VALUE ADDED (USD 2015 PRICES) (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	5.2	7.3	5.0	5.5	5.1	5.1	5.1	4.1	3.7
Tonga	9.2	9.8	10.4	10.3	14.6	11.5	13.7	11.5	11.3
Trinidad and Tobago	0.2	0.4	1.2	2.3	3.0	3.7	3.3	2.6	3.3
Tunisia	14.2	20.2	19.2	13.8	14.4	13.8	15.1	14.0	12.9
Türkiye	14.8	18.0	19.1	18.3	17.5	16.4	16.9	17.1	14.6
Turkmenistan	7.4	5.7	11.0	13.8	14.9	14.5	15.1	15.2	15.1
Tuvalu	4.3	3.2	7.5	10.3	10.5	14.4	12.5	12.4	14.3
Uganda	3.6	4.4	9.7	9.0	9.5	9.9	10.4	10.3	10.0
Ukraine	16.3	15.6	13.9	11.7	11.7	11.3	11.3	13.5	13.2
United Arab Emirates	8.6	9.3	9.0	13.2	13.5	13.1	13.4	15.5	16.1
United Kingdom of Great Britain and Northern Ireland	35.0	39.1	47.3	35.6	41.8	46.7	42.4	45.8	46.9
United Republic of Tanzania	3.4	3.4	4.7	7.1	8.6	8.4	8.4	8.5	8.3
United States of America	23.9	26.5	30.1	33.3	30.4	27.7	31.3	26.8	26.1
Uruguay	6.2	7.4	18.6	15.9	14.5	12.5	15.5	15.6	14.3
Uzbekistan	5.7	4.3	5.4	7.0	6.9	6.8	8.9	8.6	8.5
Vanuatu	7.4	6.6	9.8	12.3	12.5	14.1	13.5	11.9	12.4
Venezuela (Bolivarian Republic of)	6.2	6.3	12.9	9.8	10.0	2.2	1.9	2.7	
Viet Nam	3.9	4.9	8.1	11.1	12.9	13.5	13.9	15.4	15.5
Yemen	37.2	41.0	48.0	11.2	15.7	48.4	51.9	75.5	
Zambia	9.4	14.2	16.9	15.7	10.7	11.1	8.6	7.0	6.2
Zimbabwe	7.2	177.9	7.0	12.0	12.8	10.2	13.4	11.8	12.2

Source: FAO. 2022. Capital Stock. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CS

TABLE 12.
SHARE OF CENTRAL GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING IN TOTAL OUTLAYS (PERCENT)

COUNTRY	2001	2005	2010	2015	2017	2018	2019	2020	2021
World									
Africa									
Americas									
Asia									
Europe									
Oceania									
Afghanistan		4.7	4.7	4.1	3.2	13.9	9.0	10.0	
Albania			2.1	2.5	2.3	2.6	2.1	2.5	3.1
Algeria			2.0	3.5	3.2	2.9	2.7	2.9	2.8
Andorra									
Angola	1.2	1.7	1.1	0.8	0.5	0.4	1.0	0.6	0.8
Antigua and Barbuda				0.7	1.6	1.5	1.2	2.7	1.9
Argentina	0.9	0.6	2.5	0.7	0.6	0.4	0.4	0.5	0.3
Armenia			4.2	2.4	2.5	1.8	2.0	1.7	2.3
Australia	1.0	0.8	0.8	0.6	0.6	0.5	0.6	0.4	0.4
Austria									
Azerbaijan			2.9	2.9	3.0	3.8	3.1	3.5	
Bahamas	1.2	1.2	0.9	0.9	1.1	1.2	1.1	1.0	0.9
Bahrain	0.5	0.4		0.3	0.2	0.2	0.2	0.1	0.1
Bangladesh	4.6	5.4		7.8	7.4	7.0	6.4	6.1	6.7
Barbados		2.2				2.1	2.5		
Belarus	11.3	14.3	11.0	7.4	5.8	5.2	6.1	6.3	5.6
Belgium	0.2	0.1	0.0	0.0		0.0			
Belize				1.2	1.4	1.4	1.2	1.3	
Benin					8.4	9.6	8.9	9.5	
Bhutan	7.0	11.0	11.0	11.4	12.8	10.9	10.3	11.8	12.8
Bolivia (Plurinational State of)	9.2	9.1	5.5		2.4	3.3			
Bosnia and Herzegovina									
Botswana	4.1	4.5	2.9	5.1	3.5	4.4	3.7	3.7	
Brazil	2.2	2.3	1.1	0.9	0.9	0.8	0.8	0.6	0.7
Brunei Darussalam									
Bulgaria	2.5	4.0	1.5	5.3	3.4	3.3	3.2	2.8	2.4
Burkina Faso			2.6		4.5	4.3	3.3	2.7	4.0
Burundi			1.1	2.4	3.4	3.2	3.1		
Cabo Verde	9.1	4.9	4.7	4.4	2.3	2.9	2.3	2.4	1.9
Cambodia	1.8	3.9	1.2	1.4	2.5	2.2	2.0	1.8	1.7
Cameroon					3.0	3.1	2.8	2.9	
Canada			1.5	1.0	1.0	1.1	1.2	1.0	
Central African Republic			4.0	13.2	6.3	6.7	8.2	5.9	6.7
Chad			5.9	5.6	3.3	4.1	4.1	4.7	
Chile	1.9	2.0	1.7	1.6	1.6	1.5	1.5	1.3	1.1
China			2.4	2.9	2.4	1.8	1.5	1.4	
Colombia			1.3	1.9	1.5	1.3	1.5	1.5	1.3
Comoros							3.4		

TABLE 12.
SHARE OF CENTRAL GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING IN TOTAL OUTLAYS (PERCENT) (CONTINUED)

COUNTRY	2001	2005	2010	2015	2017	2018	2019	2020	2021
Congo		1.4	2.4	1.0	1.0	1.0			
Costa Rica	2.5	3.2	10.3	1.9	1.5	1.7	1.5	1.4	
Côte d'Ivoire			2.1	2.9	1.9	1.7			
Croatia	3.3	3.7	4.1	2.2	2.3	1.9	1.7	1.4	
Cuba				4.7	4.7	5.6	5.0		
Cyprus	6.1	3.8	2.5	2.2	1.9	1.5	1.9	1.8	
Czechia	3.0	3.6	4.2	3.3	4.0	1.5	1.7	3.4	3.3
Democratic People's Republic of Korea									
Democratic Republic of the Congo			1.8	2.8	1.1	0.6	1.3	1.4	
Denmark	0.3	0.4	0.3	0.4	0.4	0.4	0.5	0.7	0.8
Djibouti	1.2								
Dominica					2.6	1.4	1.7		
Dominican Republic	6.9	4.5	2.7	2.3	2.3	2.1	2.8	2.1	2.3
Ecuador	3.9	2.1	2.3	2.0	1.1	0.8	0.5	0.8	0.7
Egypt		2.5	1.9	1.7	1.3	1.4	1.2	1.3	1.4
El Salvador	2.4	1.5	1.8	1.8	1.4	1.7	0.9	1.3	1.4
Equatorial Guinea					0.8	1.2	1.2	1.4	
Eritrea									
Estonia	2.4	1.9	1.8	1.5	1.6	1.4	1.3	1.1	
Eswatini			5.4	2.1	1.7	2.2	1.5	1.5	
Ethiopia	4.0	15.9		7.2	8.8	3.6	3.5	3.3	
Fiji		3.1	2.8	5.0	4.4	4.7	5.1	4.4	3.8
Finland	5.8	5.5	4.6	3.5	3.3	3.3	3.3	3.0	
France	0.6	0.7	0.6	0.7	0.8	0.7	0.6	0.5	
Gabon				0.3	0.3	0.4			
Gambia					2.6	1.2	1.3	2.7	
Georgia	1.6	1.9	0.4	2.7	1.8	1.6	2.2	2.6	3.3
Germany									
Ghana	0.9	0.8	0.9	0.8	0.7	1.2	0.8	1.1	1.2
Greece			0.3	0.6	0.6	0.7	0.7	1.1	
Grenada				3.5	1.5	1.6	1.3	1.1	1.0
Guatemala	3.0	3.0	2.1	1.3	1.7	1.7	1.4	0.8	0.9
Guinea				4.9	1.9	3.3	3.8	3.6	
Guinea-Bissau			14.5	4.6	3.4	7.8	5.4	5.8	3.0
Guyana		4.6	6.5	12.7	8.9	9.7	7.7	7.0	
Haiti				1.4	8.9		3.0	3.6	
Honduras	5.2	4.2	2.3	1.7	1.9	1.8	2.7	1.8	2.3
Hungary	5.3	3.8	1.4	1.5	1.5	1.2	1.4	1.5	
Iceland	4.7	4.2	2.9	2.6	2.5	2.3	2.2	1.9	12.4
India	5.0	5.0	7.5		5.1	4.8			
Indonesia	1.4	1.4	0.9	3.1	4.3	4.2	3.9		
Iran (Islamic Republic of)		4.3							
Iraq									
Ireland	3.3	1.9	0.8	1.1	1.2	1.3	1.2	1.1	

TABLE 12.
SHARE OF CENTRAL GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING IN TOTAL OUTLAYS (PERCENT) (CONTINUED)

COUNTRY	2001	2005	2010	2015	2017	2018	2019	2020	2021
Israel	0.8	0.5	0.4	0.5	0.4	0.4	0.5	0.3	0.3
Italy	1.1	0.4	0.4	0.3	0.3	0.3	0.4	0.5	
Jamaica	1.9	1.6	2.0	2.6	1.9	1.9	1.7	1.7	1.3
Japan									
Jordan	3.5	2.0	0.8	0.8	0.7	0.8	0.7	0.6	0.6
Kazakhstan		3.7	4.7	2.4	1.7	1.4	1.8	2.0	1.9
Kenya	4.8	3.9	3.9	1.8	1.8	1.7	1.8	1.9	2.2
Kiribati	2.8	2.2	1.9	1.5	1.3	1.5	1.4		
Kuwait	0.5	0.6	0.5	0.4					
Kyrgyzstan	5.5	5.1	1.7	1.4	1.2	1.3	1.2	1.1	1.0
Lao People's Democratic Republic							0.8		
Latvia			5.8	1.7	2.3	2.3	2.5	2.9	
Lebanon	0.3	0.3		0.4	0.3	0.3	0.2	0.2	0.2
Lesotho	4.4	3.3			3.0	2.5	2.3	2.6	2.3
Liberia		1.3	2.3	0.9	1.1	0.9	1.0	0.8	0.8
Libya									
Lithuania		4.2	3.7	3.4	2.5	1.5	1.6	1.6	
Luxembourg	1.4	1.3	1.2	1.0	0.8	0.9	0.9	0.8	0.9
Madagascar	9.8	9.5	3.9	3.3	3.9	4.5	4.4	3.3	
Malawi	6.9	14.7	17.8	24.7	16.1	9.7	10.1		
Malaysia	2.9	3.4	3.2	3.1	2.6	2.4	1.8	1.5	1.4
Maldives	1.3	1.1	1.3	0.2	0.1	0.3	0.4	0.3	0.5
Mali	14.1	17.7				7.1	9.2		
Malta	1.5	2.5	1.7	1.3	1.1	1.3	1.0	0.9	
Marshall Islands			2.3	2.5	1.6	4.4	3.5		
Mauritania				4.2					
Mauritius	4.6	3.7	4.0	2.3	1.9	2.1	2.3	2.3	1.9
Mexico	3.4	3.5	3.4	2.6	1.7	1.8	1.3	1.0	1.0
Micronesia (Federated States of)			3.0	1.8	5.4	4.5	6.0	4.1	
Mongolia	3.8		5.6	1.6	1.4	1.6	2.2	2.4	1.0
Montenegro			0.7	0.6					
Morocco				3.8	3.9	3.5	3.5	3.3	
Mozambique	5.3	4.6	4.6	1.9	2.5	2.0	1.3	1.2	1.0
Myanmar				6.1	4.4	6.3	6.0		
Namibia	5.3	5.1	3.3	2.0	2.7	2.0	2.1	1.8	1.6
Nauru				1.3	1.3	1.4	1.2		
Nepal		8.2	8.6	8.9	10.6	6.5	4.5	4.4	4.7
Netherlands (Kingdom of the)	1.3	0.8	0.7	0.5	0.4	0.4	0.4	0.5	
New Zealand		1.4		0.5	0.8	1.0	1.2		
Nicaragua	3.1	2.4	1.6	0.8	0.7	1.7	1.7	2.1	
Niger				6.0	5.7	4.5	4.7	5.6	4.1
Nigeria		4.0	2.5	2.3	2.0	2.3	2.5		
North Macedonia									
Norway	3.0	2.0	1.8	1.5	1.5	1.8	1.5	1.1	1.5

TABLE 12.
SHARE OF CENTRAL GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING IN TOTAL OUTLAYS (PERCENT) (CONTINUED)

COUNTRY	2001	2005	2010	2015	2017	2018	2019	2020	2021
Oman	0.8	0.7	0.8	0.4	0.4	0.5	0.5	0.7	
Pakistan	0.6	0.3	3.1	1.3	1.3	0.8	1.0	1.0	0.9
Palau			0.6	0.5	0.5	0.6	0.6		
Panama	2.7	1.7	1.7	1.9	1.6	2.0	2.0	2.6	
Papua New Guinea	2.3	0.9	2.6	1.3	1.2	1.1	1.3	3.1	
Paraguay	3.6	2.3	3.1	2.3	2.5	1.2	1.2	1.2	1.6
Peru				1.8	1.4	1.3	1.4	1.5	1.1
Philippines	4.4	4.2	5.9	4.1	3.8	2.9	2.4	2.6	2.4
Poland	2.5	3.4	2.6	1.5	1.6	2.2	2.0	1.8	
Portugal	2.5	1.5	0.9	0.8	0.6	0.7	0.7	0.6	
Qatar		1.9							
Republic of Korea	5.7	4.5	4.5	4.1			3.4	3.2	
Republic of Moldova	1.4	6.3	4.5	7.3	4.5	3.7	3.4	4.0	3.7
Romania	2.7	4.6	3.8	2.9	2.8	2.8	2.3	2.9	
Russian Federation	1.8	1.0	0.4	1.8	1.7	1.8	1.7	1.1	
Rwanda			3.9		3.0	3.8	5.1	3.7	3.6
Saint Kitts and Nevis					2.7	1.7	2.1		
Saint Lucia					2.7	2.1	2.2	2.6	2.0
Saint Vincent and the Grenadines				2.6	2.2	2.2	2.0	2.5	
Samoa			2.1	3.6	7.0	3.6	3.9	7.4	
San Marino									
Sao Tome and Principe			3.3	4.3	4.6	7.7	4.2	3.4	3.7
Saudi Arabia					0.5	0.9	0.7	0.8	
Senegal					2.7	3.5	3.9	3.7	4.3
Serbia		3.2	3.0		3.2	3.2	3.5		
Seychelles			1.5	2.3	1.7	2.1	0.5	0.7	4.0
Sierra Leone				2.5	1.7	1.0	1.2		
Singapore	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.2
Slovakia	3.3	6.4	6.6	1.4	1.0	1.1	1.1	1.1	
Slovenia	3.1	2.2	1.5	1.7	1.7	1.8	2.0	1.6	
Solomon Islands				3.7	3.7	3.7	3.7	3.0	
Somalia					1.1	1.2	1.3	0.8	0.8
South Africa	1.9	2.1	2.1	1.5	1.4	1.2	1.2	1.3	
South Sudan									
Spain	0.4	0.4	0.2	0.2	0.1	0.2	0.2	0.1	
Sri Lanka	3.6	4.0	5.3	6.3	5.3	4.5	4.6		4.2
Sudan						2.5			
Suriname				3.0	0.9	1.7	3.9	4.6	
Sweden	0.6	0.7	0.6	0.4	0.4	0.5	0.5	0.4	0.4
Switzerland	7.6	7.0	5.8	5.4	5.2	5.2	5.1	4.1	
Syrian Arab Republic									
Tajikistan									
Thailand	7.4	5.2	3.9	7.7	6.7	6.5	7.0	6.4	6.0
Timor-Leste			2.1	2.2					

TABLE 12.
SHARE OF CENTRAL GOVERNMENT EXPENDITURE ON AGRICULTURE, FORESTRY AND FISHING IN TOTAL OUTLAYS (PERCENT) (CONTINUED)

COUNTRY	2001	2005	2010	2015	2017	2018	2019	2020	2021
Togo				7.2	8.0	5.7			
Tonga			5.8	3.2	4.2	4.8	4.0	3.5	
Trinidad and Tobago	3.1	3.4	1.6	1.1	1.1	1.2	1.1	1.1	
Tunisia	9.9	6.6	5.6	4.7	3.9	3.7	3.5	4.1	
Türkiye			4.1	4.2	3.9	3.4	3.5	3.5	2.9
Turkmenistan									
Tuvalu									
Uganda	4.0	3.1	4.8	3.9	5.2	3.3	3.3	2.6	
Ukraine	2.5	3.3	2.4	0.9	1.3	1.4	1.3	1.1	1.1
United Arab Emirates				0.0		0.0	0.0	0.0	0.1
United Kingdom of Great Britain and Northern Ireland	0.9	0.6	0.4	0.3	0.3	0.3	0.3	0.5	
United Republic of Tanzania		4.6	3.5	1.7	1.8	1.2	1.5	0.7	1.4
United States of America	2.5	1.9	1.0	0.9	0.9	0.9	1.2	1.4	0.9
Uruguay	1.7	2.0	1.0	0.9	0.9	0.8	0.8	0.9	
Uzbekistan				12.9	8.8	7.0	5.7	2.1	1.7
Vanuatu		2.7	1.9	3.2	2.2	2.6	2.0	3.6	
Venezuela (Bolivarian Republic of)	1.6	2.2	2.8						
Viet Nam			2.2						
Yemen		1.0	0.7						
Zambia	1.4	4.5	6.6	10.3	7.9	5.3	5.4	3.4	
Zimbabwe				11.2					

Source: FAO. 2022. Government Expenditure. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/IG

TABLE 13.
PESTICIDE USE (TONNES)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	2 178 696	2 494 276	2 993 063	3 258 544	3 320 366	3 295 430	3 385 786	3 402 199	3 535 375
Africa	73 856	99 378	132 010	158 659	169 309	190 194	200 813	202 869	203 580
Americas	892 215	1 077 051	1 302 929	1 459 752	1 534 677	1 545 084	1 662 586	1 738 388	1 775 009
Asia	727 564	818 325	1 056 873	1 068 090	1 041 289	994 909	988 980	903 646	979 816
Europe	446 630	459 330	451 858	513 496	507 013	493 325	462 150	485 759	505 157
Oceania	38 431	40 191	49 393	58 546	68 077	71 918	71 256	71 536	71 813
Afghanistan									
Albania	308	365	591	538	615	442	730	757	757
Algeria	2 537	2 811	1 870	4 517	6 067	6 067	6 067	6 067	6 067
Andorra	19	12	13	16	14	13	13	13	13
Angola	40	40	40	40	40	40	40	40	40
Antigua and Barbuda	260	410	342	176	183	200	208	216	216
Argentina	84 189	138 669	235 739	203 807	196 009	172 928	204 559	241 294	241 520
Armenia	70	221	279	488	572	614	527	639	914
Australia	33 475	34 310	42 169	50 922	60 201	63 416	63 416	63 416	63 416
Austria	3 563	3 404	3 692	3 787	4 656	5 295	4 963	5 595	5 862
Azerbaijan	149	149	334	530	543	543	543	543	543
Bahamas	461	436	87	178	178	178	178	178	178
Bahrain	9	13	10	9	9	6	15	12	12
Bangladesh	3 170	8 091	13 251	13 364	15 144	15 144	15 144	15 506	15 506
Barbados	169	169	169	169	169	169	169	169	68
Belarus	1 817	3 647	3 387	1 464	721	840	817	932	975
Belgium	9 560	9 776	4 645	6 480	6 249	6 357	5 944	5 835	5 710
Belize	1 296	960	700	1 067	1 217	1 384	1 063	1 335	1 123
Benin	1 015	583	2 093	1 525	1 745	3 397	4 315	4 370	3 402
Bhutan	3	2	7	11	28	38	35	35	35
Bolivia (Plurinational State of)	3 771	7 146	12 969	15 962	21 655	21 749	17 910	19 295	18 307
Bosnia and Herzegovina	2 193	2 183	2 135	2 287	2 398	2 454	2 509	2 723	2 723
Botswana	374	328	390	615	940	870	984	1 186	1 429
Brazil	141 130	233 367	360 735	497 626	514 844	549 280	620 538	685 746	719 507
Brunei Darussalam	198	338	134	172	142	157	216	286	339
Bulgaria	2 876	2 232	1 589	1 542	3 384	5 067	6 663	4 220	4 484
Burkina Faso	750	1 581	1 043	2 046	2 938	3 123	2 793	2 849	2 833
Burundi	110	305	265	73	50	50	50	50	50
Cabo Verde	7	5	5	5	5	5	5	5	5
Cambodia	445	444	1 198	5 091	5 331	7 720	11 863	15 399	16 736
Cameroon	545	2 259	3 475	5 838	7 069	7 322	7 322	7 322	7 322
Canada	39 718	36 382	61 050	75 318	98 304	87 632	78 893	92 960	92 960
Central African Republic	42	31	48	24	45	55	44	48	47
Chad	53	53	53	43	42	42	42	42	42
Chile	4 802	6 429	6 895	9 651	13 564	13 039	12 944	14 129	15 822
China	250 632	284 981	339 850	346 087	323 253	294 682	273 570	258 758	244 821
Colombia	75 843	117 881	48 618	33 689	37 699	37 773	69 862	36 711	39 324

TABLE 13.
PESTICIDE USE (TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Comoros	12	2	25	17	21	21	28	39	46
Congo	323	428	599	691	463	471	579	724	805
Costa Rica	14 283	11 309	14 242	11 868	11 397	10 285	11 866	14 114	10 759
Côte d'Ivoire	93	93	93	93	22	29	92	89	23
Croatia	2 723	2 184	1 605	2 301	1 570	1 677	1 558	1 644	1 463
Cuba	3 657	3 539	3 505	3 505	3 505	3 505	3 505	3 505	3 505
Cyprus	745	678	632	1 057	1 163	1 187	1 234	1 201	1 115
Czechia	4 533	5 385	4 957	4 473	4 433	4 092	3 908	3 515	3 461
Democratic People's Republic of Korea									
Democratic Republic of the Congo	1 106	1 106	1 106	1 130	1 082	1 045	1 070	1 130	1 160
Denmark	3 174	3 246	3 894	2 584	2 708	2 647	2 661	3 168	2 976
Djibouti	19	19	18	18	18	18	18	18	18
Dominica									
Dominican Republic	5 082	3 516	6 317	5 028	6 815	7 069	7 069	7 069	2 566
Ecuador	17 948	18 391	31 637	44 565	37 808	37 408	34 081	15 729	19 050
Egypt	4 931	5 471	11 590	8 044	8 107	11 352	13 024	7 537	5 710
El Salvador	2 699	1 923	3 599	1 747	3 134	2 956	2 526	3 099	3 793
Equatorial Guinea	17	61	180	109	62	73	78	80	78
Eritrea	25	28	28	28	28	28	28	28	28
Estonia	315	386	514	594	674	636	777	611	886
Eswatini	552	1 092	484	582	863	1 040	1 148	1 239	1 318
Ethiopia	602	1 401	4 128	4 128	4 128	4 128	4 128	4 128	4 128
Fiji	341	467	690	516	721	1 233	619	760	909
Finland	3 608	4 956	3 807	4 919	4 243	4 817	3 980	4 914	4 032
France	97 878	78 265	61 903	66 897	70 604	85 072	54 367	64 859	69 602
Gabon	349	511	486	486	486	486	486	486	486
Gambia	223	866	260	344	442	542	501	418	301
Georgia	3 081	3 081	3 081	1 351	1 738	2 237	2 566	2 863	2 501
Germany	35 273	36 386	40 832	48 003	48 420	45 080	45 301	48 333	49 071
Ghana	82	174	1 389	8 884	9 690	9 690	9 690	9 690	9 690
Greece	10 627	13 959	5 608	9 019	8 503	4 869	4 891	4 946	4 767
Grenada	98	114	103	117	119	115	116	110	110
Guatemala	9 697	13 506	14 898	10 040	11 302	11 842	11 002	14 242	13 228
Guinea	230	352	556	282	206	109	111	111	111
Guinea-Bissau	42	82	82	82	82	82	82	82	82
Guyana									
Haiti	372	435	1 037	387	621	646	696	775	860
Honduras	4 376	3 666	5 737	8 114	8 153	8 783	8 214	11 722	10 533
Hungary	4 151	9 676	10 300	9 484	9 756	8 535	7 815	8 679	8 858
Iceland	4	5	3	4	2	2	1	1	1
India	44 958	35 342	40 094	56 720	63 406	59 670	61 702	61 702	61 702
Indonesia	142 709	178 527	313 639	313 069	279 006	261 306	274 421	213 036	283 297
Iran (Islamic Republic of)	9 395	7 808	4 382	6 726	6 872	5 744	4 977	5 856	5 856

TABLE 13.
PESTICIDE USE (TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Iraq	548	873	744	197	215	284	284	284	284
Ireland	1 942	2 625	2 529	3 504	2 942	2 651	2 972	2 910	3 091
Israel	3 459	5 879	6 753	6 367	6 881	7 322	6 983	6 983	6 983
Italy	79 447	84 647	71 613	63 322	56 641	54 153	48 567	56 556	50 345
Jamaica	1 379	1 373	1 034	1 051	1 561	1 761	1 500	1 853	1 642
Japan	79 821	63 830	55 576	54 171	52 248	52 332	51 970	48 889	48 889
Jordan	553	1 736	933	666	1 291	675	1 862	1 176	1 257
Kazakhstan	3 024	3 667	6 284	10 589	13 811	13 058	13 102	14 492	18 324
Kenya	1 979	2 085	2 758	4 764	5 293	6 074	6 587	6 228	5 617
Kiribati	4	7	10	24	19	21	26	34	37
Kuwait	690	1 137	1 223	2 034	1 030	1 110	1 341	1 493	1 513
Kyrgyzstan	681	1 081	350	516	560	608	677	693	608
Lao People's Democratic Republic	1	4	2	189	145	187	187	187	187
Latvia	285	724	1 028	1 510	1 478	1 587	1 651	1 900	1 984
Lebanon	1 816	1 816	1 816	1 816	1 816	1 816	1 816	1 816	1 816
Lesotho	20	48	28	87	141	92	166	266	357
Liberia	68	175	494	649	687	897	937	998	1 036
Libya	693	3 406	2 312	1 051	755	1 053	1 410	1 721	1 721
Lithuania	688	1 049	1 804	2 738	2 994	2 050	2 318	2 560	2 591
Luxembourg	154	154	154	138	140	140	133	139	123
Madagascar	130	115	242	401	643	706	746	766	701
Malawi	210	296	584	2 358	2 358	2 358	2 358	2 358	2 358
Malaysia	30 204	37 578	60 195	63 308	50 683	44 114	47 805	36 077	45 671
Maldives	74	114	75	128	628	755	395	376	310
Mali	52	23	8	4	4	4	4	4	4
Malta	182	118	110	129	108	90	76	96	71
Marshall Islands									
Mauritania	27	54	62	288	334	381	394	377	347
Mauritius	644	845	917	907	530	771	755	709	705
Mexico	26 625	39 172	52 305	48 293	50 802	53 144	48 989	41 681	43 578
Micronesia (Federated States of)	20	17	11	12	12	12	12	12	12
Mongolia	116	116	116	116	116	116	116	116	116
Montenegro			66	76	99	92	102	119	111
Morocco	13 435	13 966	13 697	13 697	13 697	13 697	13 697	13 697	13 697
Mozambique	41	771	1 189	613	535	535	535	535	535
Myanmar	558	1 449	3 340	7 691	17 274	15 326	17 337	11 749	11 749
Namibia	1 322	355	657	931	861	836	878	913	959
Nauru	5	1	0	4	2	4	6	6	5
Nepal	112	128	332	574	692	750	809	682	783
Netherlands (Kingdom of the)	11 383	10 704	9 586	11 409	12 001	10 855	10 686	11 292	11 292
New Zealand	3 634	4 257	5 285	5 285	5 285	5 285	5 285	5 285	5 285
Nicaragua	3 926	9 392	12 242	7 846	7 902	6 994	7 808	15 658	13 710

TABLE 13.
PESTICIDE USE (TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Niger	62	25	11	41	33	18	22	20	35
Nigeria	3 880	15 336	26 873	31 255	36 467	47 121	53 954	57 269	59 278
North Macedonia	296	149	98	98	98	98	98	98	98
Norway	348	519	699	631	671	614	604	688	710
Oman	45	151	256	333	275	204	305	374	443
Pakistan	27 885	19 847	14 863	11 872	11 872	11 872	11 872	11 872	11 872
Palau	7	7	5	21	30	29	25	25	25
Panama	1 099	2 677	1 949	2 440	2 403	1 639	876	861	861
Papua New Guinea	235	355	438	880	880	880	880	880	880
Paraguay	3 507	15 263	21 113	18 908	19 662	21 122	22 581	20 164	24 925
Peru	2 257	3 578	6 226	8 893	10 037	8 618	10 636	10 774	11 596
Philippines	17 383	18 304	21 311	23 251	21 491	21 350	24 879	34 715	37 660
Poland	8 848	16 039	19 449	24 006	25 076	23 178	24 281	24 168	26 534
Portugal	15 470	16 353	13 774	10 209	8 103	8 057	9 866	9 706	9 583
Qatar	342	833	3 176	899	873	798	843	946	1 072
Republic of Korea	25 684	24 506	20 431	19 482	20 043	18 716	16 745	17 132	19 014
Republic of Moldova	2 869	2 395	2 466	2 739	3 116	3 349	3 375	3 355	3 355
Romania	9 427	7 566	7 249	6 608	6 715	5 243	5 452	5 365	5 598
Russian Federation	30 194	37 249	44 305	51 360	79 523	74 672	77 307	90 535	97 018
Rwanda	147	223	954	2 484	2 027	2 027	2 027	2 027	2 027
Saint Kitts and Nevis	200	101	90	115	117	101	101	101	101
Saint Lucia	262	281	215	264	227	204	221	242	253
Saint Vincent and the Grenadines	277	334	175	152	144	131	121	126	134
Samoa	7	35	63	91	103	197	112	185	272
San Marino									
Sao Tome and Principe	5	7	19	16	19	19	21	25	27
Saudi Arabia	3 024	3 876	4 700	7 107	8 801	9 648	10 496	7 256	7 256
Senegal	491	466	696	709	163	479	479	577	577
Serbia			1 941	3 257	2 311	2 451	2 594	2 519	2 442
Seychelles	62	68	630	85	98	98	233	505	707
Sierra Leone	225	88	160	342	406	343	361	361	361
Singapore									
Slovakia	1 457	1 546	1 881	1 568	1 724	1 785	1 859	1 810	1 620
Slovenia	1 468	1 384	1 134	1 047	1 087	1 172	972	949	931
Solomon Islands	24	32	54	60	65	55	40	40	40
Somalia	21	92	126	357	316	443	617	722	747
South Africa	26 857	29 697	33 599	37 740	39 492	39 024	39 144	41 643	42 620
South Sudan									
Spain	34 597	41 017	39 043	77 217	71 987	75 014	75 190	67 099	76 174
Sri Lanka	1 696	1 742	1 451	2 540	1 266	2 261	1 526	2 573	2 778
Sudan				3 058	2 380	5 487	4 083	4 083	4 083
Suriname	176	402	478	983	651	789	531	378	381
Sweden	1 721	2 132	1 982	1 836	1 525	1 459	1 478	1 653	1 859

TABLE 13.
PESTICIDE USE (TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Switzerland	1 577	1 388	2 148	2 221	2 028	2 052	1 952	1 929	2 259
Syrian Arab Republic	1 107	1 579	1 614	1 897	1 897	1 897	1 897	1 897	1 897
Tajikistan	130	128	126	125	309	386	469	439	481
Thailand	20 334	43 831	68 986	26 168	34 037	34 777	28 074	19 007	19 007
Timor-Leste	3	3	18	45	59	62	62	62	62
Togo	321	203	242	1 118	1 263	1 356	1 425	1 425	1 425
Tonga	11	11	11	12	24	22	22	22	22
Trinidad and Tobago	212	136	126	1 173	1 173	1 173	1 173	1 173	1 173
Tunisia	1 412	1 493	2 175	2 817	2 670	3 211	3 511	3 412	3 299
Türkiye	33 471	40 332	38 555	39 026	54 098	60 020	51 297	53 672	52 963
Turkmenistan	575	498	498	498	498	498	498	498	498
Tuvalu	1	2	2	2	2	2	2	2	2
Uganda	1 634	1 712	2 990	6 298	6 304	6 038	6 702	7 411	8 093
Ukraine	27 344	23 022	62 535	64 987	38 558	25 343	24 325	24 622	26 974
United Arab Emirates									
United Kingdom of Great Britain and Northern Ireland	33 031	31 415	16 771	18 475	19 116	19 300	19 373	14 923	14 729
United Republic of Tanzania	1	1	1	1	1	1	1	1	1
United States of America	430 005	388 275	374 818	423 475	449 713	457 385	457 385	457 385	457 385
Uruguay	3 650	9 232	14 981	14 068	14 906	16 446	16 446	16 446	16 446
Uzbekistan									
Vanuatu	65	68	48	16	16	16	16	16	16
Venezuela (Bolivarian Republic of)	3 928	3 928	3 928	3 928	3 928	3 928	3 928	3 928	3 928
Viet Nam	16 502	21 120	24 218	39 106	39 248	42 731	46 026	49 502	50 096
Yemen	899	1 249	695	1 357	576	838	1 147	1 504	1 504
Zambia	2 180	2 818	3 455	4 093	4 348	4 197	4 197	4 197	4 197
Zimbabwe	2 953	3 129	3 305	2 185	2 185	2 185	2 185	2 185	2 185

Source: FAO. 2023. Pesticides Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RP

TABLE 14.
PESTICIDE USE PER CROPLAND AREA (KG PER HA)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	1.47	1.66	1.98	2.11	2.14	2.12	2.18	2.18	2.26
Africa	0.32	0.40	0.50	0.57	0.59	0.66	0.70	0.70	0.70
Americas	2.41	2.90	3.54	3.92	4.13	4.14	4.45	4.62	4.70
Asia	1.33	1.46	1.88	1.88	1.82	1.74	1.73	1.58	1.71
Europe	1.47	1.56	1.56	1.78	1.76	1.71	1.60	1.69	1.75
Oceania	1.49	1.40	1.75	1.74	2.04	2.14	2.14	2.14	2.10
Afghanistan									
Albania	0.44	0.55	0.85	0.77	0.88	0.64	1.05	1.10	1.10
Algeria	0.31	0.34	0.22	0.53	0.72	0.71	0.71	0.71	0.71
Andorra	18.55	15.50	16.52	20.09	16.95	15.79	16.11	16.58	17.04
Angola	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Antigua and Barbuda									
Argentina	2.94	3.99	6.04	4.93	4.74	4.19	4.88	5.60	5.58
Armenia	0.14	0.44	0.55	0.97	1.14	1.22	1.04	1.27	1.81
Australia	1.41	1.28	1.62	1.62	1.94	2.03	2.05	2.05	2.00
Austria	2.42	2.35	2.58	2.68	3.34	3.80	3.56	4.02	4.22
Azerbaijan	0.07	0.07	0.16	0.24	0.23	0.23	0.23	0.23	0.23
Bahamas									
Bahrain	1.47	2.37	2.03	2.15	2.28	1.36	3.55	2.97	2.94
Bangladesh	0.36	0.93	1.53	1.51	1.69	1.68	1.63	1.66	1.64
Barbados									
Belarus	0.29	0.64	0.60	0.25	0.12	0.14	0.14	0.16	0.17
Belgium	10.83	11.31	5.43	7.61	7.27	7.27	6.75	6.57	6.42
Belize	13.09	9.41	6.55	8.89	9.98	11.35	8.57	10.27	8.51
Benin	0.38	0.20	0.68	0.45	0.51	1.00	1.27	1.29	1.00
Bhutan	0.02	0.01	0.06	0.10	0.28	0.38	0.35	0.35	0.35
Bolivia (Plurinational State of)	1.14	1.78	2.91	3.36	4.64	4.46	3.59	3.85	3.58
Bosnia and Herzegovina	1.99	1.95	1.93	2.03	2.06	2.17	2.24	2.43	2.44
Botswana	1.07	1.53	1.50	2.35	3.59	3.33	3.76	4.53	5.45
Brazil	2.57	3.91	5.85	7.90	8.11	8.56	9.58	10.49	10.90
Brunei Darussalam	24.71	37.61	13.36	17.20	14.23	15.70	21.61	28.60	33.91
Bulgaria	0.76	0.66	0.47	0.42	0.93	1.40	1.84	1.16	1.23
Burkina Faso	0.18	0.34	0.20	0.34	0.47	0.49	0.43	0.43	0.42
Burundi	0.08	0.23	0.20	0.05	0.03	0.03	0.03	0.03	0.03
Cabo Verde	0.15	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Cambodia	0.12	0.12	0.31	1.23	1.24	1.77	2.67	3.39	3.64
Cameroon	0.08	0.31	0.45	0.75	0.91	0.94	0.94	0.94	0.94
Canada	0.97	0.91	1.61	1.96	2.54	2.26	2.03	2.42	2.42
Central African Republic	0.02	0.02	0.03	0.01	0.02	0.03	0.02	0.02	0.02
Chad	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Chile	2.28	3.41	3.97	5.44	7.59	7.27	7.19	7.82	8.73
China	1.91	2.13	2.51	2.63	2.48	2.28	2.12	2.01	1.90
Colombia	16.69	32.63	14.50	9.19	9.72	8.49	15.13	8.07	8.74
Comoros	0.10	0.02	0.22	0.15	0.18	0.18	0.24	0.33	0.39

TABLE 14.
PESTICIDE USE PER CROPLAND AREA (KG PER HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	0.60	0.78	1.04	1.10	0.74	0.75	0.92	1.13	1.19
Costa Rica	29.15	23.08	26.37	20.73	19.62	17.66	20.60	24.08	17.61
Côte d'Ivoire	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.00
Croatia	2.99	2.31	1.62	2.50	1.77	1.91	1.74	1.70	1.56
Cuba	0.90	0.86	0.92	1.00	0.98	0.98	0.98	0.98	0.98
Cyprus	5.31	4.09	5.62	8.47	9.71	9.07	9.97	9.58	9.22
Czechia	1.37	1.96	1.92	1.76	1.74	1.62	1.54	1.39	1.37
Democratic People's Republic of Korea									
Democratic Republic of the Congo	0.15	0.15	0.11	0.08	0.07	0.07	0.07	0.07	0.07
Denmark	1.39	1.39	1.61	1.09	1.13	1.09	1.10	1.32	1.25
Djibouti	12.16	11.10	8.01	6.58	6.58	6.58	6.35	4.72	4.72
Dominica									
Dominican Republic	3.86	2.88	5.26	4.08	5.53	5.74	5.74	5.74	2.08
Ecuador	6.02	7.33	12.27	17.47	15.34	15.89	14.03	6.34	7.78
Egypt	1.50	1.55	3.16	2.12	2.11	2.94	3.32	1.90	1.42
El Salvador	3.08	2.30	4.13	1.99	3.56	3.35	2.87	3.52	4.31
Equatorial Guinea	0.17	0.61	1.80	1.09	0.62	0.73	0.78	0.80	0.78
Eritrea	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Estonia	0.37	0.64	0.79	0.88	0.98	0.92	1.11	0.87	1.26
Eswatini	2.89	5.69	2.51	3.00	4.45	5.33	5.89	6.35	6.76
Ethiopia	0.06	0.10	0.26	0.24	0.24	0.23	0.23	0.22	0.22
Fiji	1.72	2.75	4.72	3.62	5.11	8.78	4.43	5.48	6.56
Finland	1.65	2.21	1.69	2.19	1.89	2.14	1.77	2.19	1.79
France	5.02	4.02	3.21	3.44	3.63	4.45	2.85	3.42	3.67
Gabon	0.71	1.03	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Gambia	0.93	3.01	0.57	0.75	0.99	1.21	1.12	0.94	0.67
Georgia	2.90	5.31	5.93	2.83	3.91	5.15	5.93	6.54	5.68
Germany	2.93	3.01	3.39	3.98	4.04	3.78	3.80	4.07	4.14
Ghana	0.01	0.03	0.21	1.28	1.36	1.34	1.32	1.31	1.31
Greece	2.76	3.70	1.51	2.75	2.64	1.51	1.52	1.54	1.48
Grenada	8.93	14.24	11.44	16.66	17.04	16.46	16.51	15.73	15.69
Guatemala	4.25	6.03	6.03	3.78	4.21	4.38	4.04	5.20	4.83
Guinea	0.07	0.10	0.15	0.07	0.05	0.03	0.03	0.03	0.03
Guinea-Bissau	0.08	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Guyana									
Haiti	0.31	0.34	0.69	0.25	0.41	0.43	0.54	0.60	0.66
Honduras	3.07	2.53	3.83	5.21	5.13	5.51	5.15	7.35	6.51
Hungary	0.86	2.01	2.25	2.11	2.17	1.90	1.74	2.07	2.07
Iceland	0.03	0.04	0.02	0.03	0.02	0.02	0.01	0.01	0.01
India	0.26	0.21	0.24	0.33	0.38	0.35	0.37	0.37	0.37
Indonesia	3.96	4.34	7.07	6.69	5.33	4.94	5.17	4.00	5.29
Iran (Islamic Republic of)	0.58	0.43	0.26	0.41	0.41	0.33	0.28	0.33	0.33
Iraq	0.12	0.18	0.18	0.04	0.04	0.05	0.05	0.05	0.05
Ireland	3.96	5.34	5.74	7.72	6.37	5.87	6.69	6.54	7.07

TABLE 14.
PESTICIDE USE PER CROPLAND AREA (KG PER HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	8.16	15.45	18.21	16.16	14.25	15.15	14.60	14.51	14.56
Italy	7.04	8.19	7.44	7.00	6.14	5.91	5.21	6.03	5.38
Jamaica	5.52	5.77	5.38	5.59	8.30	9.37	7.98	9.86	8.73
Japan	16.53	13.60	12.10	12.05	11.76	11.84	11.82	11.18	11.24
Jordan	1.99	6.41	3.58	2.12	4.87	2.41	6.32	4.10	4.47
Kazakhstan	0.10	0.13	0.22	0.36	0.46	0.44	0.44	0.49	0.61
Kenya	0.37	0.37	0.46	0.75	0.83	0.95	1.03	0.97	0.88
Kiribati	0.12	0.21	0.29	0.70	0.56	0.61	0.78	1.01	1.09
Kuwait									
Kyrgyzstan	0.48	0.80	0.26	0.38	0.41	0.45	0.50	0.51	0.45
Lao People's Democratic Republic	0.00	0.00	0.00	0.11	0.09	0.12	0.13	0.14	0.14
Latvia	0.29	0.65	0.87	1.22	1.14	1.22	1.24	1.42	1.45
Lebanon	6.73	6.42	7.57	6.85	6.64	6.69	6.69	6.55	6.50
Lesotho	0.06	0.15	0.09	0.39	0.34	0.21	0.38	0.61	0.82
Liberia	0.11	0.29	0.75	0.93	0.98	1.28	1.34	1.43	1.48
Libya	0.32	1.63	1.13	0.51	0.37	0.51	0.69	0.84	0.84
Lithuania	0.24	0.54	0.84	1.24	1.40	0.95	1.03	1.12	1.12
Luxembourg	2.45	2.49	2.43	2.14	2.19	2.19	2.09	2.18	1.92
Madagascar	0.04	0.03	0.07	0.11	0.18	0.20	0.21	0.21	0.19
Malawi	0.07	0.09	0.16	0.61	0.59	0.59	0.58	0.57	0.56
Malaysia	4.54	5.49	8.47	7.64	6.12	5.32	5.77	4.35	5.51
Maldives									
Mali	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Malta	20.21	12.65	10.67	12.58	10.37	8.68	7.28	10.52	8.09
Marshall Islands									
Mauritania	0.06	0.12	0.13	0.63	0.73	0.83	0.86	0.82	0.76
Mauritius	6.85	9.49	10.91	11.48	6.71	9.77	9.55	8.97	8.93
Mexico	1.05	1.51	2.04	1.95	2.22	2.35	2.21	1.82	1.90
Micronesia (Federated States of)	7.90	6.63	5.66	6.13	6.13	6.13	6.13	6.13	6.13
Mongolia	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Montenegro			0.35	5.52	6.77	6.33	6.80	8.09	7.69
Morocco	1.39	1.55	1.52	1.51	1.36	1.44	1.59	1.46	1.47
Mozambique	0.01	0.15	0.20	0.10	0.09	0.09	0.09	0.09	0.09
Myanmar	0.05	0.13	0.27	0.62	1.37	1.22	1.39	0.94	0.94
Namibia	1.61	0.43	0.81	1.15	1.06	1.03	1.08	1.13	1.18
Nauru									
Nepal	0.05	0.05	0.14	0.25	0.30	0.32	0.35	0.29	0.34
Netherlands (Kingdom of the)	10.76	9.37	9.05	10.56	11.16	10.25	10.19	10.84	10.86
New Zealand	8.01	8.72	9.27	9.70	9.47	8.97	8.52	8.79	7.66
Nicaragua	1.83	4.20	6.62	4.36	4.39	3.89	4.34	8.70	7.62
Niger	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nigeria	0.10	0.36	0.63	0.73	0.85	1.10	1.24	1.32	1.36
North Macedonia	0.49	0.31	0.22	0.22	0.21	0.21	0.21	0.21	0.21
Norway	0.39	0.60	0.84	0.78	0.83	0.76	0.75	0.85	0.88

TABLE 14.
PESTICIDE USE PER CROPLAND AREA (KG PER HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	0.62	2.32	3.52	4.02	2.73	1.88	2.76	3.46	3.81
Pakistan	0.88	0.64	0.49	0.38	0.37	0.37	0.38	0.37	0.38
Palau	3.11	3.11	2.03	9.07	13.14	12.39	10.80	10.80	10.80
Panama	1.58	3.78	2.57	3.42	3.46	2.40	1.30	1.30	1.28
Papua New Guinea	0.26	0.38	0.41	0.78	0.72	0.72	0.72	0.72	0.70
Paraguay	1.13	4.29	5.20	3.82	4.15	4.38	4.68	4.18	5.17
Peru	0.42	0.62	1.01	1.51	1.76	1.46	1.87	1.74	1.73
Philippines	1.79	1.86	2.01	2.11	1.94	1.92	2.23	3.11	3.37
Poland	0.62	1.28	1.73	2.13	2.22	2.04	2.13	2.10	2.32
Portugal	6.09	7.96	7.40	5.60	4.66	4.62	5.30	5.27	5.23
Qatar									
Republic of Korea	13.39	13.44	11.91	11.60	12.37	11.73	10.59	10.95	12.29
Republic of Moldova	1.33	1.12	1.17	1.39	1.58	1.75	1.76	1.74	1.73
Romania	0.95	0.80	0.75	0.72	0.75	0.57	0.58	0.60	0.62
Russian Federation	0.24	0.30	0.36	0.42	0.64	0.60	0.63	0.73	0.79
Rwanda	0.11	0.16	0.64	1.56	1.27	1.31	1.35	1.30	1.25
Saint Kitts and Nevis									
Saint Lucia	20.27	28.38	22.44	27.64	23.74	21.32	23.10	25.33	26.46
Saint Vincent and the Grenadines									
Samoa	0.15	0.92	1.78	1.44	1.94	4.15	2.60	4.31	6.33
San Marino									
Sao Tome and Principe	0.15	0.20	0.58	0.45	0.47	0.47	0.51	0.60	0.65
Saudi Arabia	0.80	1.04	1.38	1.95	2.45	2.68	2.90	1.99	1.99
Senegal	0.15	0.15	0.19	0.19	0.04	0.13	0.13	0.15	0.15
Serbia			0.68	1.17	0.82	0.88	0.93	0.90	0.87
Seychelles									
Sierra Leone	0.37	0.05	0.09	0.20	0.23	0.20	0.21	0.21	0.21
Singapore									
Slovakia	0.93	1.09	1.33	1.15	1.27	1.31	1.36	1.33	1.21
Slovenia	7.20	6.78	4.80	4.41	4.57	4.97	4.15	4.06	3.99
Solomon Islands	0.35	0.39	0.54	0.56	0.58	0.49	0.35	0.35	0.35
Somalia	0.02	0.08	0.11	0.32	0.28	0.39	0.55	0.64	0.66
South Africa	1.89	2.19	2.59	3.04	3.18	3.14	3.15	3.35	3.43
South Sudan									
Spain	1.89	2.30	2.27	4.49	4.24	4.47	4.49	4.03	4.59
Sri Lanka	0.89	0.84	0.67	1.10	0.55	0.95	0.64	1.08	1.17
Sudan				0.15	0.11	0.26	0.19	0.19	0.19
Suriname	2.63	7.31	7.83	13.84	9.58	11.60	7.92	5.81	6.15
Sweden	0.66	0.79	0.76	0.71	0.60	0.57	0.58	0.65	0.73
Switzerland	3.65	3.24	5.02	5.25	4.79	4.85	4.61	4.54	5.37
Syrian Arab Republic	0.21	0.28	0.28	0.33	0.33	0.33	0.33	0.33	0.33
Tajikistan	0.15	0.15	0.14	0.13	0.30	0.37	0.45	0.42	0.46
Thailand	0.96	2.03	3.13	1.19	1.54	1.58	1.26	0.85	0.84
Timor-Leste	0.02	0.02	0.10	0.23	0.31	0.32	0.32	0.32	0.32

TABLE 14.
PESTICIDE USE PER CROPLAND AREA (KG PER HA) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	0.13	0.08	0.09	0.40	0.45	0.48	0.51	0.51	0.51
Tonga	0.43	0.43	0.40	0.39	0.77	0.71	0.71	0.71	0.71
Trinidad and Tobago	3.53	2.89	2.67	24.96	24.96	24.96	24.96	24.96	24.96
Tunisia	0.28	0.30	0.42	0.57	0.53	0.65	0.71	0.69	0.67
Türkiye	1.27	1.52	1.58	1.63	2.32	2.59	2.22	2.32	2.26
Turkmenistan	0.29	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Tuvalu	0.48	1.18	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Uganda	0.22	0.21	0.33	0.69	0.69	0.66	0.74	0.81	0.89
Ukraine	0.82	0.69	1.87	1.93	1.15	0.75	0.72	0.73	0.80
United Arab Emirates									
United Kingdom of Great Britain and Northern Ireland	5.57	5.44	2.79	3.05	3.12	3.17	3.16	2.48	2.43
United Republic of Tanzania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
United States of America	2.41	2.30	2.34	2.66	2.80	2.85	2.85	2.85	2.85
Uruguay	2.58	6.45	7.23	5.70	6.71	7.51	7.73	7.97	7.95
Uzbekistan									
Vanuatu	0.49	0.48	0.33	0.11	0.11	0.11	0.11	0.11	0.11
Venezuela (Bolivarian Republic of)	1.16	1.17	1.19	1.19	1.19	1.19	1.19	1.19	1.19
Viet Nam	2.03	2.24	2.39	3.40	3.40	3.72	3.92	4.22	4.28
Yemen	0.54	0.82	0.44	0.95	0.40	0.58	0.79	1.04	1.04
Zambia	0.76	1.02	1.01	1.09	1.13	1.09	1.09	1.09	1.09
Zimbabwe	0.80	0.78	0.81	0.53	0.53	0.53	0.53	0.53	0.53

Source: FAO. 2023. Pesticides Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RP

TABLE 15.
INORGANIC FERTILIZER USE BY NUTRIENT (THOUSAND TONNES)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
World	81 025.1	108 688.2	32 450.6	46 269.7	21 744.6	40 128.2	135 220.4	195 086.1
Africa	2 464.6	4 788.4	927.6	1 784.1	469.6	1 045.2	3 861.8	7 617.6
Americas	17 433.6	26 909.3	8 152.6	14 272.5	8 247.4	15 355.2	33 833.5	56 537.0
Asia	46 723.3	60 285.5	17 698.1	24 849.8	7 864.5	18 685.9	72 285.9	103 821.2
Europe	13 213.9	14 897.7	4 092.8	4 134.9	4 814.2	4 560.7	22 120.9	23 593.3
Oceania	1 189.7	1 807.3	1 579.5	1 228.5	349.0	481.2	3 118.3	3 516.9
Afghanistan	5.0	33.3		7.3		0.1		40.7
Albania	12.1		4.9		1.7		18.7	
Algeria	44.3	70.2	25.0	58.8	23.0	26.7	92.3	155.7
Andorra								
Angola	1.4	17.2		5.7		7.2		30.1
Antigua and Barbuda		0.0		0.0		0.0		0.0
Argentina	498.2	1 658.0	333.8	885.4	31.0	81.0	863.0	2 624.5
Armenia	7.0	90.1		0.0		0.2		90.3
Australia	951.0	1 337.6	1 116.3	957.5	217.0	288.0	2 284.3	2 583.1
Austria	121.6	106.5	48.5	26.5	55.2	36.7	225.4	169.7
Azerbaijan	2.1	212.4		0.5	2.0	7.7		220.6
Bahamas	0.1	0.5	0.1	0.2	0.1	0.2	0.3	0.8
Bahrain	0.1	0.2	0.1	0.1	0.1	2.7	0.3	2.9
Bangladesh	995.9	1 528.3	250.3	1 113.7	74.0	474.0	1 320.2	3 115.9
Barbados	1.8	0.1	0.2	0.1	1.0	0.0	3.0	0.3
Belarus	280.0	428.0	75.0	96.9	450.0	427.7	805.0	952.5
Belgium		155.8		13.0		61.2		230.0
Belize	2.8	17.0	1.9	12.4	1.4	8.4	6.1	37.8
Benin	14.3	57.5	11.4	28.2	9.5	28.2	35.2	114.0
Bhutan		0.8		0.3		0.2		1.3
Bolivia (Plurinational State of)	3.2	26.7	3.6	18.1	0.7	5.7	7.5	50.4
Bosnia and Herzegovina	27.8	47.0	7.0	6.7	7.0	8.8	41.8	62.5
Botswana	4.1	13.1	0.3	1.3	0.2	1.1	4.6	15.4
Brazil	1 668.0	6 700.5	2 338.0	6 623.6	2 562.0	8 198.4	6 568.0	21 522.5
Brunei Darussalam		0.2		0.2		0.2		0.7
Bulgaria	144.9	342.9	4.0	73.0	2.6	42.9	151.5	458.8
Burkina Faso	9.9	42.6	15.1	16.2	9.0	13.8	33.9	72.7
Burundi	1.5	6.9	1.0	13.6	1.0	3.7	3.5	24.2
Cabo Verde	0.1	0.2		0.0	0.0	0.0		0.3
Cambodia		121.7		67.9		14.7		204.3
Cameroon	21.9	42.0	7.7	17.3	16.6	23.7	46.1	83.0
Canada	1 564.3	2 830.0	570.5	1 094.0	310.5	899.0	2 445.4	4 823.0
Central African Republic	0.2	0.2	0.2	0.0	0.2	0.2	0.6	0.4
Chad	11.0	2.1	2.0	2.9	4.5	6.8	17.5	11.9
Chile	235.0	233.3	172.0	151.1	75.0	87.3	482.0	471.8
China	22 139.2	21 405.3	8 609.7	10 196.8	3 469.0	9 530.4	34 217.9	41 132.6
Colombia	334.3	489.4	131.8	235.5	192.1	501.4	658.2	1 226.3

TABLE 15.
INORGANIC FERTILIZER USE BY NUTRIENT (THOUSAND TONNES) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Comoros	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.1
Congo	2.0	2.2	1.0	1.1	2.0	2.1	5.0	5.4
Costa Rica	68.0	81.4	29.0	17.7	70.0	45.8	167.0	144.8
Côte d'Ivoire	40.0	52.6	11.1	48.1	16.0	59.9	67.1	160.6
Croatia	116.0	102.2	49.0	34.4	58.0	41.7	223.0	178.3
Cuba	78.0	40.0	24.3	7.7	28.1	26.7	130.4	74.4
Cyprus	7.8	6.7	4.9	4.3	1.7	3.8	14.4	14.8
Czechia	262.8	309.6	43.3	36.1	24.5	22.1	330.7	367.9
Democratic People's Republic of Korea	165.0	19.4	52.0	11.9	39.0	12.0	256.0	43.3
Democratic Republic of the Congo	0.3	23.7	0.3	1.8	0.2	3.1	0.8	28.6
Denmark	234.0	202.2	36.0	34.5	79.0	75.9	349.0	312.6
Djibouti		0.0		0.0		0.0		0.1
Dominica	1.0	0.1	1.0	0.2	1.0	0.2	3.0	0.4
Dominican Republic	48.5	104.8	15.4	15.4	27.8	22.0	91.7	142.2
Ecuador	71.6	208.2	35.4	54.7	57.4	113.7	164.4	376.7
Egypt	1 073.4	1 331.9	153.8	258.7	32.5	78.9	1 259.7	1 669.5
El Salvador	48.5	52.1	13.3	10.5	16.0	3.9	77.8	66.5
Equatorial Guinea		0.6		0.2		0.2		1.0
Eritrea	5.4	2.1	5.5	0.0		0.0		2.1
Estonia	22.4	46.8	6.4	11.4	6.2	14.3	35.0	72.4
Eswatini	2.0	5.6	1.9	2.7	1.9	1.9	5.8	10.2
Ethiopia	76.5	475.9	81.0	208.2		2.3		686.4
Fiji	2.5	3.0	2.0	1.7	3.0	1.1	7.5	5.8
Finland	167.0	145.8	52.0	29.3	80.0	44.9	299.0	220.0
France	2 316.3	1 839.2	795.0	405.9	1 033.5	508.0	4 144.8	2 753.2
Gabon	0.1	3.7	0.1	2.8	0.1	2.7	0.3	9.2
Gambia	0.6	0.5	0.1	0.4	0.1	0.1	0.8	1.0
Georgia	40.0				2.0			
Germany	1 847.5	1 096.8	351.3	114.6	544.0	305.8	2 742.8	1 517.2
Ghana	7.0	76.8	2.7	49.4	2.1	49.8	11.9	176.0
Greece	285.0	202.9	113.0	64.9	58.0	51.9	456.0	319.7
Grenada		0.1		0.1		0.0		0.2
Guatemala	124.5	189.8	46.1	62.4	41.0	88.7	211.6	340.9
Guinea	1.0	7.1	1.4	8.0	0.8	6.2	3.2	21.3
Guinea-Bissau	1.0	5.2	0.7	2.3	0.7	2.0	2.4	9.5
Guyana	10.7	20.2	1.2	3.4	0.6	2.0	12.6	25.6
Haiti	8.9	0.4	2.7	3.5	2.9	3.6	14.4	7.5
Honduras	135.9	104.9	21.6	33.3	23.0	56.4	180.5	194.6
Hungary	320.0	450.2	45.0	112.3	52.0	107.4	417.0	669.8
Iceland	13.0	12.2	4.0	1.8	4.2	2.9	21.2	16.9
India	10 920.2	19 488.3	4 214.6	7 828.5	1 567.5	2 529.5	16 702.3	29 846.3
Indonesia	1 964.4	3 669.3	263.1	1 197.6	266.0	2 476.6	2 493.5	7 343.6
Iran (Islamic Republic of)	862.6	903.2	412.7	109.9	118.3	59.0	1 393.6	1 072.1

TABLE 15.
INORGANIC FERTILIZER USE BY NUTRIENT (THOUSAND TONNES) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Iraq	250.5	173.0	117.2	95.9	3.5	5.2	371.2	274.2
Ireland	368.4	399.2	96.0	143.2	135.0	171.4	599.4	713.8
Israel	49.0	46.3	15.0	7.0	30.0	46.8	94.0	100.0
Italy	828.0	572.1	504.0	247.2	400.0	138.9	1 732.0	958.2
Jamaica	9.9	3.9	5.2	2.7	7.3	1.3	22.4	7.8
Japan	487.4	354.9	583.0	322.0	381.9	209.6	1 452.3	886.5
Jordan	9.4	24.5	4.5	1.1	6.8	2.1	20.6	27.7
Kazakhstan	30.0	81.0	4.9	47.7	2.1	3.2	37.0	131.9
Kenya	69.9	171.8	71.2	152.6	4.5	27.5	145.7	351.8
Kiribati		0.0		0.0		0.0		0.0
Kuwait	0.6	3.2		2.6		3.9		9.7
Kyrgyzstan	27.7	25.9	1.4	2.8	0.1	0.5	29.2	29.2
Lao People's Democratic Republic	3.2	37.3	2.4	25.0	0.4	0.0	6.0	62.3
Latvia	28.5	84.6	10.2	32.8	11.6	34.9	50.3	152.3
Lebanon	24.3	9.4	18.4	5.9	9.6	5.1	52.3	20.4
Lesotho	3.4	3.0	2.4	0.4	2.1	0.2	8.0	3.6
Liberia		1.1		0.8		0.8		2.8
Libya	31.7	13.7	18.0	10.3	5.3	1.4	55.0	25.3
Lithuania	98.0	187.5	20.0	55.2	35.0	75.6	153.0	318.3
Luxembourg		12.7		0.9		0.6		14.2
Madagascar	3.8		3.0	5.4	2.4	4.6	9.1	
Malawi	34.6	270.4	11.4	60.7	3.8	55.9	49.8	386.9
Malaysia	348.6	458.9	199.7	179.6	640.0	1 134.3	1 188.3	1 772.8
Maldives		0.3		0.1		0.1		0.4
Mali	12.7	157.2	13.6	47.3	13.6	34.2	39.8	238.7
Malta	0.8	0.6	0.2	0.4	0.2	0.2	1.1	1.2
Marshall Islands								
Mauritania		3.9		1.7		1.5		7.1
Mauritius	13.3	6.2	6.1	3.2	18.1	4.6	37.5	14.0
Mexico	1 342.0	1 315.5	315.0	633.3	175.0	245.5	1 832.0	2 194.2
Micronesia (Federated States of)		0.0		0.0		0.0		0.0
Mongolia	3.4	40.2		0.7		0.7		41.7
Montenegro		1.3		0.7		0.7		2.8
Morocco	207.6	228.5	108.8	100.4	51.0	86.5	367.4	415.4
Mozambique	9.7	56.9	3.4	11.2	1.2	1.2	14.3	69.3
Myanmar	165.0	315.3	34.7	49.1	6.0	60.5	205.7	424.9
Namibia	0.1	2.7	0.2	0.1		0.2		3.0
Nauru		0.0		0.0		0.0		0.0
Nepal	51.8	129.0	18.2	64.9	3.1	13.0	73.0	206.8
Netherlands (Kingdom of the)	300.0	207.1	54.0	12.2	64.0	56.0	418.0	275.2
New Zealand	230.7	441.0	456.6	267.0	125.4	182.1	812.7	890.1
Nicaragua	14.2	62.2	10.7	15.5	4.0	25.6	28.9	103.3
Niger	2.5	6.1	1.2	0.6	0.8	3.7	4.5	10.4

TABLE 15.
INORGANIC FERTILIZER USE BY NUTRIENT (THOUSAND TONNES) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Nigeria	105.6	436.4	44.0	136.1	37.9	113.7	187.5	686.2
North Macedonia	19.2	14.6	11.7	3.6	9.0	2.9	39.9	21.1
Norway	102.0	105.9	30.0	20.6	61.0	41.2	193.0	167.7
Oman	4.0	10.3	1.0	2.9	0.8	14.0	5.8	27.2
Pakistan	2 264.6	3 533.8	675.1	1 204.1	22.8	61.0	2 962.5	4 798.8
Palau		0.0		0.0		0.0		0.0
Panama	15.3	38.4	5.5	12.6	10.4	19.0	31.2	70.0
Papua New Guinea	4.7	24.9	4.0	1.8	3.0	9.0	11.7	35.7
Paraguay	18.3	156.9	25.9	252.6	21.0	252.8	65.2	662.3
Peru	190.1	331.2	45.0	58.6	19.1	90.0	254.3	479.8
Philippines	488.2	715.9	124.1	258.0	122.3	323.1	734.6	1 297.0
Poland	895.5	912.0	317.9	322.0	401.7	495.0	1 615.1	1 729.0
Portugal	113.0	91.3	63.0	39.0	43.0	39.3	219.0	169.7
Qatar	0.5	1.6		1.1		2.4		5.0
Republic of Korea	411.5	212.2	161.7	84.2	210.1	81.6	783.3	378.0
Republic of Moldova	5.0	55.3	0.1	19.4		11.8		86.5
Romania	239.3	538.6	56.0	265.7	9.0	118.2	304.3	922.5
Russian Federation	960.0	1 916.4	280.0	686.5	180.0	478.2	1 420.0	3 081.1
Rwanda	0.1	10.6	0.1	15.3	0.1	4.5	0.3	30.3
Saint Kitts and Nevis	0.8	0.0	0.5	0.0	0.4	0.0	1.7	0.0
Saint Lucia	0.9	0.3	0.6	0.1	0.6	0.1	2.1	0.5
Saint Vincent and the Grenadines	1.3	0.2	1.3	0.2	1.3	0.2	3.9	0.6
Samoa		0.0		0.0		0.0		0.0
San Marino	0.2		0.2		0.0		0.3	
Sao Tome and Principe		0.0		0.0		0.1		0.2
Saudi Arabia	228.0	175.6	137.2	73.5	21.0	55.0	386.2	304.1
Senegal	16.2	17.2	11.0	7.4	11.0	9.3	38.2	33.9
Serbia		102.8		37.9		55.4		196.1
Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Sierra Leone	0.1	2.5	0.1	0.9	0.1	0.9	0.2	4.2
Singapore	1.6	0.0	0.7	0.0	0.7	0.0	3.0	0.1
Slovakia	82.1	127.5	19.2	29.9	16.8	21.0	118.1	178.3
Slovenia	34.8	29.1	18.4	7.3	22.3	8.1	75.6	44.6
Solomon Islands		0.0		0.0		0.2		0.2
Somalia	0.5	0.9		0.2		0.0		1.2
South Africa	415.9	618.7	187.0	348.8	137.4	288.2	740.3	1 255.7
South Sudan		0.1		0.0		0.0		0.1
Spain	1 113.7	1 011.3	568.1	479.8	467.6	369.1	2 149.4	1 860.2
Sri Lanka	157.5	119.2	30.4	13.8	59.1	78.2	247.0	211.2
Sudan		120.5		27.0		1.7		149.1
Suriname	5.3	8.5		0.9	0.5	0.7		10.2
Sweden	196.7	215.2	39.0	38.1	46.7	43.7	282.5	296.9

TABLE 15.
INORGANIC FERTILIZER USE BY NUTRIENT (THOUSAND TONNES) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Switzerland	48.4	43.6	12.2	9.7	28.3	16.9	88.9	70.1
Syrian Arab Republic	236.0	12.9	121.4	3.2	8.1	1.8	365.5	18.0
Tajikistan	8.9	71.0		3.7		1.1		75.7
Thailand	924.0	1 418.2	383.8	296.8	253.1	675.0	1 560.9	2 390.0
Timor-Leste		0.0		0.0		0.0		0.1
Togo	9.0	1.1	5.4	0.9	5.4	3.5	19.8	5.5
Tonga		0.1		0.1		0.1		0.2
Trinidad and Tobago	7.3	6.8	0.7	0.9	1.2	1.2	9.2	8.9
Tunisia	62.1	104.4	45.0	25.5	4.2	6.2	111.3	136.0
Türkiye	1 378.2	1 787.3	628.6	633.6	82.0	154.2	2 088.8	2 575.1
Turkmenistan	86.6	429.6		38.5	14.0	1.2		469.3
Tuvalu		0.0		0.0		0.0		0.0
Uganda	3.4	7.7	1.7	4.0	1.5	5.1	6.6	16.9
Ukraine	350.0	1 769.9	62.0	450.8	28.0	363.5	440.0	2 584.1
United Arab Emirates	23.8	15.1	5.0	4.2	6.3	12.2	35.1	31.5
United Kingdom of Great Britain and Northern Ireland	1 115.0	1 011.0	279.0	171.0	370.0	266.0	1 764.0	1 448.0
United Republic of Tanzania	14.1	88.9	6.0	13.7	2.3	22.3	22.4	124.9
United States of America	10 703.4	11 884.7	3 882.6	3 930.5	4 485.4	4 492.0	19 071.5	20 307.2
Uruguay	36.2	228.2	56.3	126.6	11.6	73.9	104.1	428.7
Uzbekistan	607.0	1 008.4	116.2	135.5	8.0	48.2	731.2	1 192.1
Vanuatu		0.0		0.0		0.0		0.0
Venezuela (Bolivarian Republic of)	175.0	115.0	53.0	8.7	54.0	8.6	282.0	132.3
Viet Nam	1 328.0	1 572.8	506.0	750.3	433.0	578.9	2 267.0	2 902.1
Yemen	14.9	9.2		1.6	0.3	1.5		12.3
Zambia	8.0	178.6	13.4	34.0	10.0	30.2	31.4	242.8
Zimbabwe	87.4	39.3	43.4	47.9	34.5	16.7	165.3	103.9

Source: FAO. 2023. Fertilizers by Nutrient. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RFN

TABLE 16.
INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT (KG PER HA)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
World	51.3	65.5	21.0	28.8	13.7	24.4	85.9	118.6
Africa	10.4	16.1	3.9	6.0	2.0	3.5	16.3	25.6
Americas	40.3	62.5	21.9	37.8	20.6	38.4	82.8	138.7
Asia	82.9	102.3	31.5	42.2	13.9	31.7	128.3	176.3
Europe	38.5	47.3	12.4	13.5	14.3	14.5	65.1	75.2
Oceania	34.4	37.4	31.6	20.3	7.6	7.8	73.5	65.5
Afghanistan	0.6	4.1		0.9		0.0		5.0
Albania	17.3		7.0		2.4		26.8	
Algeria	5.4	8.3	3.1	6.9	2.8	3.1	11.3	18.3
Andorra								
Angola	0.4	3.6		1.2		1.5		6.3
Antigua and Barbuda		0.9		2.3		3.4		6.7
Argentina	17.4	47.7	11.7	25.5	1.1	2.3	30.1	75.5
Armenia	14.3	178.9		0.1		0.4		179.4
Australia	36.0	38.0	32.9	21.2	7.3	7.3	76.2	66.5
Austria	74.5	69.1	29.7	17.2	33.8	23.8	138.0	110.1
Azerbaijan	1.0	89.9		0.2	1.0	3.3		93.4
Bahamas	11.1	41.1	11.1	16.2	11.1	17.1	33.3	74.4
Bahrain	19.3	37.8	20.0	18.5	19.3	127.2	58.6	183.6
Bangladesh	113.2	161.4	28.5	117.6	8.4	50.1	150.0	329.1
Barbados	112.5	13.5	12.5	15.3	62.5	3.8	187.5	32.6
Belarus	44.8	74.8	12.0	16.9	71.9	74.8	128.7	166.6
Belgium		175.2		14.6		68.8		258.6
Belize	28.7	128.7	19.2	94.2	14.1	63.6	62.0	286.5
Benin	5.4	16.9	4.3	8.3	3.6	8.3	13.3	33.5
Bhutan		8.0		3.3		2.2		13.5
Bolivia (Plurinational State of)	1.0	5.2	1.1	3.5	0.2	1.1	2.3	9.9
Bosnia and Herzegovina	25.3	42.1	6.4	6.0	6.4	7.9	38.0	56.0
Botswana	11.7	49.9	0.9	4.8	0.6	4.1	13.1	58.8
Brazil	27.4	88.0	42.6	96.7	44.4	113.7	114.3	298.4
Brunei Darussalam		24.3		23.2		23.4		70.9
Bulgaria	38.4	94.0	1.1	20.0	0.7	11.8	40.1	125.7
Burkina Faso	2.4	6.3	3.6	2.4	2.2	2.1	8.2	10.8
Burundi	1.1	4.3	0.8	8.4	0.8	2.3	2.7	15.0
Cabo Verde	2.6	3.5		0.7	0.2	0.8		5.0
Cambodia		26.5		14.8		3.2		44.4
Cameroon	3.1	5.4	1.1	2.2	2.3	3.1	6.4	10.7
Canada	34.2	66.3	13.9	28.5	7.2	22.2	55.3	117.0
Central African Republic	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.2
Chad	3.0	0.4	0.6	0.6	1.2	1.3	4.8	2.2
Chile	89.1	103.0	57.1	58.4	26.7	36.1	172.8	197.5
China	169.1	166.4	65.8	79.3	26.5	74.1	261.4	319.7
Colombia	73.6	52.9	29.0	25.4	42.3	54.2	144.8	132.5

TABLE 16.
INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT (KG PER HA) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Comoros	0.9	0.4	0.9	0.3	0.9	0.3	2.6	1.1
Congo	3.7	3.2	1.9	1.6	3.7	3.1	9.3	7.9
Costa Rica	138.8	133.2	59.2	28.9	142.9	74.9	340.8	237.0
Côte d'Ivoire	6.1	5.1	1.7	4.7	2.4	5.8	10.2	15.6
Croatia	127.3	109.2	53.8	36.8	63.7	44.6	244.8	190.5
Cuba	19.2	11.2	6.0	2.2	6.9	7.5	32.2	20.9
Cyprus	55.8	55.4	34.9	35.6	12.0	31.2	102.7	122.3
Czechia	79.2	122.7	13.1	14.3	7.4	8.8	99.6	145.7
Democratic People's Republic of Korea	66.0	7.6	20.8	4.7	15.6	4.7	102.4	17.0
Democratic Republic of the Congo	0.0	1.5	0.0	0.1	0.0	0.2	0.1	1.8
Denmark	102.2	84.8	15.7	14.5	34.5	31.8	152.5	131.1
Djibouti		8.2		3.7		1.3		13.2
Dominica	52.6	3.2	52.6	8.4	52.6	7.5	157.9	19.1
Dominican Republic	36.8	85.1	11.7	12.5	21.1	17.8	69.6	115.5
Ecuador	24.0	85.1	11.9	22.4	19.3	46.5	55.2	153.9
Egypt	326.2	330.4	46.8	64.2	9.9	19.6	382.8	414.2
El Salvador	55.2	59.2	15.2	11.9	18.2	4.4	88.7	75.5
Equatorial Guinea		5.6		1.8		2.4		9.8
Eritrea	9.6	3.0	9.8	0.0		0.0		3.0
Estonia	26.2	66.3	7.5	16.1	7.2	20.3	41.0	102.8
Eswatini	10.5	29.6	10.0	14.3	10.0	9.9	30.4	53.8
Ethiopia	7.3	25.6	7.7	11.2		0.1		36.9
Fiji	12.6	21.8	10.1	12.3	15.1	8.1	37.7	42.2
Finland	53.3	45.4	23.7	13.0	31.0	17.0	108.1	75.4
France	106.9	87.3	36.7	19.3	47.7	24.1	191.3	130.6
Gabon	0.2	7.5	0.2	5.7	0.2	5.4	0.6	18.6
Gambia	2.5	1.1	0.4	1.0	0.4	0.1	3.4	2.2
Georgia	37.7				1.9			
Germany	123.0	74.0	26.3	8.7	38.5	21.9	187.7	104.6
Ghana	1.2	10.4	0.5	6.7	0.4	6.7	2.0	23.7
Greece	74.0	63.0	29.3	20.2	15.1	16.1	118.3	99.3
Grenada		9.0		12.7		6.0		27.7
Guatemala	54.5	69.3	20.2	22.8	18.0	32.4	92.7	124.5
Guinea	0.3	1.8	0.4	2.0	0.2	1.6	1.0	5.4
Guinea-Bissau	1.8	9.5	1.3	4.1	1.3	3.6	4.4	17.3
Guyana	24.6	45.0	2.9	7.6	1.4	4.4	28.8	57.0
Haiti	7.4	0.3	2.2	2.7	2.4	2.7	12.0	5.7
Honduras	95.2	64.8	15.1	20.6	16.1	34.9	126.5	120.3
Hungary	66.6	105.0	9.4	26.2	10.8	25.0	86.8	156.2
Iceland	100.8	101.2	31.0	14.9	32.6	23.8	164.4	139.9
India	64.2	116.0	24.8	46.6	9.2	15.1	98.2	177.6
Indonesia	54.6	68.5	7.3	22.3	7.4	46.2	69.3	137.0
Iran (Islamic Republic of)	53.0	51.4	25.4	6.3	7.3	3.4	85.6	61.0

TABLE 16.
INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT (KG PER HA) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Iraq	55.7	31.8	26.0	17.6	0.8	1.0	82.5	50.4
Ireland	162.9	210.1	40.6	72.1	96.0	145.1	299.5	427.3
Israel	115.6	96.6	35.4	14.5	70.8	97.6	221.7	208.7
Italy	73.4	61.1	44.7	26.4	35.5	14.8	153.5	102.4
Jamaica	39.6	20.7	20.8	14.2	29.2	6.8	89.6	41.7
Japan	80.7	65.3	120.7	74.0	71.2	43.4	272.6	182.7
Jordan	33.8	87.0	16.0	3.9	24.3	7.6	74.2	98.5
Kazakhstan	1.0	2.7	0.2	1.6	0.1	0.1	1.2	4.4
Kenya	13.0	26.8	13.3	23.8	0.9	4.3	27.1	54.9
Kiribati		0.0		0.0		0.0		0.0
Kuwait	52.4	227.1		138.7		113.3		479.0
Kyrgyzstan	19.4	19.0	1.0	2.0	0.1	0.3	20.5	21.4
Lao People's Democratic Republic	3.2	27.5	2.4	18.5	0.4	0.0	6.0	46.0
Latvia	29.0	61.7	10.4	23.9	11.8	25.4	51.2	111.1
Lebanon	90.0	33.6	68.2	21.1	35.4	18.3	193.6	73.0
Lesotho	10.2	12.4	7.3	1.5	6.4	0.8	23.9	14.6
Liberia		1.6		1.2		1.2		4.0
Libya	14.7	6.7	8.4	5.0	2.5	0.7	25.6	12.4
Lithuania	33.6	81.0	6.9	23.9	12.0	32.7	52.4	137.5
Luxembourg		79.4		9.5		5.2		94.1
Madagascar	1.1		0.9	1.5	0.7	1.3	2.6	
Malawi	12.0	64.4	4.0	14.5	1.3	13.3	17.3	92.1
Malaysia	52.4	55.4	30.0	21.7	96.2	136.9	178.6	214.0
Maldives		52.2		18.7		16.7		87.6
Mali	2.7	18.5	2.9	5.6	2.9	4.0	8.5	28.1
Malta	83.9	67.0	16.7	46.6	16.7	18.9	117.2	132.5
Marshall Islands								
Mauritania		8.5		3.7		3.2		15.5
Mauritius	141.5	78.2	64.9	40.6	171.8	58.3	378.2	177.1
Mexico	52.9	57.5	12.4	27.7	6.9	10.7	72.2	95.8
Micronesia (Federated States of)		0.2		0.2		0.2		0.5
Mongolia	2.9	30.1		0.5		0.5		31.1
Montenegro		92.8		49.6		50.5		192.8
Morocco	19.4	22.1	11.3	10.8	5.0	8.8	35.7	41.8
Mozambique	2.3	9.6	0.8	1.9	0.3	0.2	3.5	11.6
Myanmar	15.7	22.7	3.3	3.5	0.6	4.4	19.6	30.6
Namibia	0.1	3.4	0.2	0.1		0.2		3.7
Nauru		1.1		1.1		1.1		3.4
Nepal	21.0	55.5	7.4	27.9	1.3	5.6	29.6	88.9
Netherlands (Kingdom of the)	129.5	99.6	42.0	10.5	38.7	37.7	210.1	147.7
New Zealand	34.6	51.1	42.8	19.4	28.2	31.7	105.5	102.2
Nicaragua	6.6	34.6	5.0	8.6	1.9	14.2	13.4	57.4
Niger	0.2	0.3	0.1	0.0	0.1	0.2	0.3	0.6

TABLE 16.
INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT (KG PER HA) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Nigeria	2.6	10.0	1.1	3.1	0.9	2.6	4.6	15.8
North Macedonia	32.1	31.8	19.5	7.8	15.0	6.4	66.6	46.0
Norway	115.4	131.2	33.9	25.6	69.0	51.0	218.3	207.8
Oman	54.1	88.5	13.8	25.1	11.0	120.2	78.9	233.7
Pakistan	71.4	112.9	21.3	38.5	0.7	2.0	93.5	153.3
Palau		3.5		0.1		0.1		3.7
Panama	22.0	57.1	7.9	18.7	14.9	28.3	44.9	104.1
Papua New Guinea	5.7	24.9	4.9	1.8	3.6	9.0	14.2	35.7
Paraguay	5.9	32.5	8.3	52.4	6.8	52.4	21.0	137.3
Peru	35.0	49.3	8.3	8.7	3.5	13.4	46.8	71.4
Philippines	50.2	64.0	12.8	23.1	12.6	28.9	75.5	116.0
Poland	50.0	63.7	20.0	25.3	23.8	36.7	93.8	125.7
Portugal	44.5	49.9	24.8	21.3	16.9	21.5	86.2	92.6
Qatar	31.3	64.9		44.5		100.9		210.2
Republic of Korea	214.6	137.2	84.3	54.4	109.5	52.8	408.4	244.4
Republic of Moldova	2.3	28.6	0.1	10.0		6.1		44.7
Romania	24.2	59.9	5.7	29.6	0.9	13.2	30.7	102.6
Russian Federation	7.6	15.5	2.2	5.6	1.4	3.9	11.3	25.0
Rwanda	0.1	7.0	0.1	10.1	0.1	2.9	0.3	20.0
Saint Kitts and Nevis	106.7	2.5	66.7	1.9	53.3	0.7	226.7	5.1
Saint Lucia	71.2	32.5	46.7	12.1	46.7	11.2	164.6	55.7
Saint Vincent and the Grenadines	260.0	40.6	69.5	40.0	72.6	40.0	402.1	120.7
Samoa		0.3		0.4		0.4		1.0
San Marino	160.0		161.0		22.0		343.0	
Sao Tome and Principe		1.1		0.2		3.2		4.4
Saudi Arabia	60.2	48.3	36.3	20.2	5.6	15.1	102.0	83.6
Senegal	4.8	4.4	3.3	1.9	3.3	2.4	11.3	8.7
Serbia		36.5		13.4		19.7		69.6
Seychelles	3.8	29.7	2.8	10.2	4.0	12.7	10.5	52.5
Sierra Leone	0.1	1.4	0.1	0.5	0.1	0.5	0.2	2.4
Singapore	84.4	59.7	47.2	23.9	42.8	36.0	174.4	119.6
Slovakia	52.1	94.9	12.2	22.2	10.7	15.6	75.0	132.7
Slovenia	102.5	74.9	63.1	21.9	71.2	22.7	236.7	119.5
Solomon Islands		0.2		0.1		1.8		2.1
Somalia	0.5	0.8		0.2		0.0		1.0
South Africa	26.4	44.9	11.9	25.3	8.7	20.9	46.9	91.0
South Sudan		0.0		0.0		0.0		0.0
Spain	60.8	60.9	31.0	28.9	25.6	22.2	117.4	112.0
Sri Lanka	82.5	50.3	15.9	5.8	30.9	33.0	129.3	89.1
Sudan		5.7		1.3		0.1		7.0
Suriname	79.1	137.6		15.0	7.5	11.6		164.2
Sweden	75.6	84.8	15.0	15.0	18.0	17.2	108.6	117.0
Switzerland	78.4	72.5	19.9	16.1	45.9	28.0	144.1	116.6

TABLE 16.
INORGANIC FERTILIZER USE PER CROPLAND AREA BY NUTRIENT (KG PER HA) (CONTINUED)

COUNTRY	NITROGEN, AS N		PHOSPHORUS, AS P_2O_5		POTASSIUM, AS K_2O		TOTAL	
	2000	2021	2000	2021	2000	2021	2000	2021
Syrian Arab Republic	44.1	2.3	22.7	0.6	1.5	0.3	68.3	3.1
Tajikistan	10.1	68.1		3.5		1.0		72.7
Thailand	47.5	62.5	19.7	13.1	13.0	29.7	80.2	105.3
Timor-Leste		0.2		0.0		0.0		0.3
Togo	3.7	0.4	2.3	0.3	2.3	1.2	8.3	1.9
Tonga		3.1		2.1		2.1		7.3
Trinidad and Tobago	121.3	144.7	11.4	18.3	20.7	25.6	153.4	188.5
Tunisia	12.4	21.1	9.0	5.2	0.8	1.3	22.3	27.5
Türkiye	52.3	76.1	23.8	27.0	3.1	6.6	79.2	109.7
Turkmenistan	43.3	214.8		19.3	7.0	0.6		234.7
Tuvalu		4.2		2.7		2.7		9.5
Uganda	0.5	0.9	0.2	0.4	0.2	0.6	0.9	1.9
Ukraine	10.5	52.4	1.9	13.4	0.8	10.8	13.1	76.5
United Arab Emirates	96.4	165.4	20.2	45.3	25.5	133.6	142.1	344.3
United Kingdom of Great Britain and Northern Ireland	150.5	133.6	33.0	19.8	46.8	32.9	230.2	186.3
United Republic of Tanzania	1.4	5.7	0.6	0.9	0.2	1.4	2.2	8.1
United States of America	48.1	59.3	21.8	24.5	22.7	25.2	92.6	109.0
Uruguay	23.1	99.2	35.8	55.1	7.4	32.1	66.2	186.4
Uzbekistan	125.7	227.3	24.1	30.5	1.7	10.9	151.5	268.7
Vanuatu		0.0		0.0		0.0		0.0
Venezuela (Bolivarian Republic of)	51.6	34.9	15.6	2.6	15.9	2.6	83.1	40.1
Viet Nam	163.2	134.2	62.2	64.0	53.2	49.4	278.6	247.7
Yemen	8.9	6.4		1.1	0.2	1.0		8.5
Zambia	2.8	46.5	4.7	8.9	3.5	7.9	10.9	63.3
Zimbabwe	23.6	9.6	11.7	11.7	9.3	4.1	44.7	25.3

Source: FAO. 2023. Fertilizers by Nutrient. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RFN

CHAPTER 2: PRODUCTION, TRADE AND PRICES OF COMMODITIES

TABLE 17.
PRODUCTION OF PRIMARY CROPS BY GROUP, 2021 (THOUSAND TONNES)

COUNTRY	CEREALS	SUGAR CROPS	VEGETABLES	OIL CROPS	FRUIT	ROOTS AND TUBERS	OTHER	TOTAL
World	3 070 645	2 130 396	1 154 598	1 150 714	909 644	876 006	197 896	9 489 900
Africa	216 017	111 779	85 597	64 670	126 166	346 483	37 972	988 684
Americas	777 433	997 443	73 143	399 261	159 829	78 698	28 564	2 514 371
Asia	1 475 402	807 681	903 193	576 284	533 264	344 029	113 568	4 753 420
Europe	549 679	180 585	89 267	98 148	81 880	102 516	13 506	1 115 582
Oceania	52 115	32 908	3 398	12 351	8 505	4 279	4 287	117 843
Afghanistan	4 664	41	1 606	153	3 645	865	123	11 096
Albania	691	24	1 007	112	868	259	44	3 006
Algeria	2 784	0	7 652	743	6 838	4 361	178	22 556
Andorra								
Angola	3 053	951	762	566	5 494	12 140	358	23 324
Antigua and Barbuda	0	0	1	0	8	0	0	10
Argentina	87 692	18 627	3 629	52 335	7 042	3 274	2 403	175 002
Armenia	155	55	725	0	709	464	10	2 118
Australia	51 078	31 133	1 801	6 195	4 096	1 345	4 115	99 763
Austria	5 316	3 017	612	435	628	770	59	10 836
Azerbaijan	3 258	177	1 817	335	1 748	1 062	113	8 511
Bahamas	1	62	34	3	48	3	0	150
Bahrain	0	0	21	0	22	0	0	44
Bangladesh	62 156	3 526	7 318	1 063	5 360	10 167	3 767	93 357
Barbados	0	92	9	2	5	2	2	112
Belarus	7 596	3 871	1 821	724	546	4 808	443	19 808
Belgium	2 453	4 550	2 404	28	665	3 871	112	14 084
Belize	137	1 894	13	19	178	3	11	2 254
Benin	2 309	83	790	1 916	594	7 478	477	13 647
Bhutan	78	0	32	0	26	73	36	246
Bolivia (Plurinational State of)	3 704	10 090	464	3 554	1 529	1 541	274	21 156
Bosnia and Herzegovina	1 401	1	780	30	358	340	58	2 968
Botswana	122	0	77	2	22	107	8	339
Brazil	112 220	715 659	8 572	147 063	39 819	23 029	8 226	1 054 587
Brunei Darussalam	3	0	9	0	8	4	0	25
Bulgaria	11 639	0	350	2 386	541	196	56	15 167
Burkina Faso	4 710	507	1 303	1 492	1 272	211	1 141	10 635
Burundi	458	201	485	102	1 644	3 709	576	7 174
Cabo Verde	0	23	33	6	8	9	8	86
Cambodia	12 330	2 995	637	877	562	7 804	491	25 695
Cameroon	3 795	1 231	2 840	3 660	6 786	8 235	1 137	27 683
Canada	46 739	1 402	2 277	20 536	889	6 372	4 394	82 610
Central African Republic	143	130	100	281	310	1 444	62	2 469
Chad	2 620	410	108	1 193	127	1 016	196	5 671
Chile	3 036	746	2 237	276	6 606	1 010	310	14 222
China	633 847	115 110	602 344	73 445	256 465	149 123	26 178	1 856 511
Colombia	4 943	24 062	2 441	8 195	11 147	4 134	839	55 761

TABLE 17.
PRODUCTION OF PRIMARY CROPS BY GROUP, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	CEREALS	SUGAR CROPS	VEGETABLES	OIL CROPS	FRUIT	ROOTS AND TUBERS	OTHER	TOTAL
Comoros	37	0	5	104	51	90	23	310
Congo	31	717	144	187	273	1 718	35	3 105
Costa Rica	157	4 297	194	1 196	6 489	237	107	12 678
Côte d'Ivoire	2 955	2 102	778	3 233	3 181	15 006	4 172	31 428
Croatia	3 645	707	132	453	263	128	14	5 341
Cuba	468	11 205	1 664	35	1 432	1 252	105	16 161
Cyprus	53	0	52	17	124	89	1	335
Czechia	8 227	4 145	218	1 176	231	672	120	14 790
Democratic People's Republic of Korea	4 482	0	3 297	278	1 829	1 210	460	11 555
Democratic Republic of the Congo	3 882	2 180	592	2 774	6 726	47 445	554	64 153
Denmark	8 640	2 573	252	651	48	2 375	115	14 653
Djibouti	0	0	36	0	5	0	20	61
Dominica	0	5	7	8	51	38	2	111
Dominican Republic	1 061	5 506	757	745	5 433	385	180	14 068
Ecuador	3 245	11 377	437	2 482	8 491	371	410	26 813
Egypt	22 301	27 187	15 571	1 380	14 127	7 549	397	88 513
El Salvador	1 015	7 508	121	81	291	80	135	9 231
Equatorial Guinea	0	0	0	52	71	212	5	341
Eritrea	305	0	55	23	5	55	36	479
Estonia	1 286	0	24	218	4	66	79	1 677
Eswatini	103	5 715	13	4	143	75	4	6 057
Ethiopia	30 109	1 170	1 652	1 065	1 430	4 997	4 346	44 769
Fiji	12	1 417	57	20	41	161	16	1 725
Finland	2 649	403	254	42	28	559	55	3 989
France	66 881	34 365	5 436	5 775	7 952	8 987	1 877	131 273
Gabon	47	289	50	62	391	633	26	1 497
Gambia	105	0	13	73	10	12	5	218
Georgia	437	0	153	5	589	235	67	1 486
Germany	42 359	31 945	3 783	3 711	2 452	11 312	636	96 200
Ghana	5 301	154	789	3 576	6 427	32 241	1 586	50 073
Greece	3 093	29	1 893	238	3 993	382	354	9 981
Grenada	0	6	6	7	21	3	2	45
Guatemala	2 035	27 755	1 457	3 129	6 595	612	642	42 226
Guinea	4 038	317	567	1 888	1 413	3 879	173	12 275
Guinea-Bissau	281	7	40	247	111	178	126	991
Guyana	563	1 281	193	19	326	119	39	2 540
Haiti	373	1 465	153	52	1 319	827	183	4 372
Honduras	744	4 762	374	2 162	1 281	89	540	9 951
Hungary	13 981	678	705	2 667	1 268	240	44	19 582
Iceland	7	0	5	0	0	6	0	19
India	356 345	405 399	137 988	67 450	107 853	62 292	45 511	1 182 838
Indonesia	74 425	32 405	13 010	275 055	23 608	21 140	6 771	446 413
Iran (Islamic Republic of)	14 836	13 405	9 331	784	16 649	2 599	1 300	58 905

TABLE 17.
PRODUCTION OF PRIMARY CROPS BY GROUP, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	CEREALS	SUGAR CROPS	VEGETABLES	OIL CROPS	FRUIT	ROOTS AND TUBERS	OTHER	TOTAL
Iraq	5 302	32	1 608	42	2 156	466	22	9 629
Ireland	2 364	0	196	51	23	408	51	3 092
Israel	268	0	1 282	102	1 411	549	19	3 631
Italy	16 568	1 511	11 441	3 532	17 194	1 362	471	52 079
Jamaica	2	499	293	104	388	311	35	1 631
Japan	11 899	5 368	10 177	265	2 971	3 163	203	34 044
Jordan	93	0	1 490	172	523	178	6	2 461
Kazakhstan	16 567	332	4 590	2 745	3 218	4 032	322	31 806
Kenya	3 969	7 783	3 342	170	4 359	3 623	3 590	26 837
Kiribati	0	0	6	181	9	2	0	198
Kuwait	17	0	375	1	120	47	0	561
Kyrgyzstan	1 376	366	1 087	85	414	1 289	190	4 807
Lao People's Democratic Republic	4 920	1 885	1 661	84	1 621	6 918	464	17 553
Latvia	2 995	0	56	429	14	115	87	3 694
Lebanon	134	5	692	154	1 024	660	57	2 726
Lesotho	122	0	33	0	15	127	5	302
Liberia	256	276	121	206	211	700	113	1 882
Libya	209	0	691	190	684	329	43	2 146
Lithuania	5 341	856	179	920	52	200	283	7 830
Luxembourg	147	0	4	5	15	16	1	188
Madagascar	4 627	3 123	465	158	1 270	4 069	273	13 985
Malawi	4 893	3 157	1 900	673	3 525	14 866	1 135	30 150
Malaysia	2 493	25	1 201	92 189	1 158	88	566	97 720
Maldives	0	0	3	0	3	2	2	11
Mali	8 819	656	2 431	1 362	2 553	956	537	17 315
Malta	0	0	38	0	11	7	0	57
Marshall Islands	0	0	0	23	0	0	0	23
Mauritania	499	0	5	3	28	11	52	598
Mauritius	1	2 670	65	1	23	17	4	2 781
Mexico	36 582	55 486	14 747	4 075	23 658	2 338	2 429	139 316
Micronesia (Federated States of)	0	0	4	72	3	12	0	91
Mongolia	614	0	126	64	2	183	7	995
Montenegro	7	0	21	0	59	25	3	115
Morocco	10 448	3 187	4 218	1 657	6 503	1 651	629	28 293
Mozambique	2 489	2 987	1 016	813	1 160	6 412	957	15 834
Myanmar	27 813	12 101	4 934	4 100	2 858	923	4 180	56 909
Namibia	199	0	66	0	63	385	23	735
Nauru	0	0	0	2	0	0	0	3
Nepal	11 119	3 184	4 180	322	1 648	3 490	924	24 867
Netherlands (Kingdom of the)	1 336	6 556	5 622	4	711	6 676	25	20 930
New Zealand	996	0	897	5	1 703	565	32	4 197
Nicaragua	924	7 106	238	690	610	432	406	10 406

TABLE 17.
PRODUCTION OF PRIMARY CROPS BY GROUP, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	CEREALS	SUGAR CROPS	VEGETABLES	OIL CROPS	FRUIT	ROOTS AND TUBERS	OTHER	TOTAL
Niger	3 392	445	3 455	658	626	1 242	2 769	12 587
Nigeria	29 911	1 498	15 795	17 493	11 855	121 785	5 268	203 604
North Macedonia	562	4	700	18	556	180	57	2 078
Norway	1 184	0	207	8	32	369	4	1 803
Oman	130	2	783	0	514	12	1	1 443
Pakistan	52 415	88 675	7 074	5 453	11 125	6 104	973	171 819
Palau								
Panama	547	2 415	50	155	719	53	20	3 959
Papua New Guinea	18	354	571	4 829	2 514	1 867	107	10 261
Paraguay	6 304	7 221	158	10 932	781	3 440	214	29 051
Peru	5 616	9 828	3 121	1 383	7 793	7 524	904	36 169
Philippines	28 261	26 277	6 659	15 283	16 665	3 340	991	97 477
Poland	33 996	15 274	4 933	3 147	5 054	7 081	703	70 189
Portugal	1 126	0	2 687	1 385	2 386	413	102	8 099
Qatar	3	0	92	0	30	0	0	126
Republic of Korea	5 432	0	9 769	167	2 945	904	156	19 372
Republic of Moldova	4 648	758	208	1 103	1 434	218	61	8 430
Romania	27 791	784	1 939	4 594	3 004	1 398	233	39 743
Russian Federation	117 574	41 202	13 544	24 850	6 603	18 296	4 038	226 107
Rwanda	812	98	683	44	3 197	3 852	686	9 371
Saint Kitts and Nevis	0	0	1	4	2	1	0	7
Saint Lucia	0	0	3	9	18	5	0	36
Saint Vincent and the Grenadines	1	0	5	3	76	14	4	103
Samoa	0	0	1	60	45	29	1	137
San Marino								
Sao Tome and Principe	1	0	4	19	50	13	3	90
Saudi Arabia	1 187	0	1 597	388	3 008	578	15	6 773
Senegal	3 536	1 386	1 048	1 868	1 949	1 678	257	11 722
Serbia	10 261	2 048	742	1 226	1 725	623	87	16 712
Seychelles	0	0	3	4	3	0	0	10
Sierra Leone	2 095	81	397	475	274	3 315	122	6 760
Singapore	0	0	25	0	0	0	0	25
Slovakia	4 289	1 364	130	797	87	151	29	6 847
Slovenia	701	8	111	17	114	64	5	1 019
Solomon Islands	3	0	6	433	30	199	12	683
Somalia	178	213	107	64	219	105	27	912
South Africa	19 765	17 991	2 698	2 925	7 968	2 677	187	54 211
South Sudan	840	0	502	499	566	1 552	46	4 004
Spain	25 511	2 506	13 536	9 309	19 031	2 081	1 069	73 043
Sri Lanka	5 623	826	1 509	2 549	1 155	434	2 272	14 366
Sudan	5 678	5 331	3 995	4 032	3 440	943	555	23 974
Suriname	264	87	13	10	51	7	0	433
Sweden	4 980	2 047	354	349	52	826	105	8 712

TABLE 17.
PRODUCTION OF PRIMARY CROPS BY GROUP, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	CEREALS	SUGAR CROPS	VEGETABLES	OIL CROPS	FRUIT	ROOTS AND TUBERS	OTHER	TOTAL
Switzerland	726	1 084	409	94	346	373	13	3 046
Syrian Arab Republic	2 515	0	2 627	690	2 258	595	430	9 114
Tajikistan	1 358	0	2 402	571	1 375	903	96	6 704
Thailand	39 383	66 279	2 781	17 255	10 554	30 618	5 701	172 570
Timor-Leste	102	0	34	33	19	52	24	263
Togo	1 387	0	150	768	67	2 097	293	4 763
Tonga	0	0	27	59	8	24	0	120
Trinidad and Tobago	5	0	17	16	73	13	4	128
Tunisia	1 679	86	3 138	715	2 479	450	236	8 783
Türkiye	31 864	18 250	26 646	7 015	25 043	5 100	4 605	118 523
Turkmenistan	1 478	219	681	1 096	763	573	23	4 833
Tuvalu	0	0	1	2	1	0	0	4
Uganda	3 407	5 369	1 359	917	9 268	4 194	1 679	26 193
Ukraine	85 339	10 854	9 959	22 905	2 889	21 356	810	154 112
United Arab Emirates	24	0	332	0	388	1	1	746
United Kingdom of Great Britain and Northern Ireland	22 369	7 420	2 575	1 052	647	5 307	1 057	40 427
United Republic of Tanzania	11 319	3 515	2 774	3 271	5 875	12 205	2 414	41 372
United States of America	452 628	63 304	27 917	137 201	22 866	19 892	5 551	729 361
Uruguay	4 049	457	180	1 924	507	173	10	7 299
Uzbekistan	7 196	2	10 348	3 501	5 923	3 286	213	30 468
Vanuatu	1	0	14	358	23	55	2	451
Venezuela (Bolivarian Republic of)	2 377	3 239	1 320	857	3 073	1 108	175	12 150
Viet Nam	48 301	10 741	17 224	2 392	11 941	12 121	5 864	108 583
Yemen	390	0	433	33	1 113	229	397	2 595
Zambia	3 954	5 102	446	698	125	4 076	134	14 535
Zimbabwe	2 043	3 450	235	356	353	354	288	7 079

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 18.
PRODUCTION VALUE OF PRIMARY CROPS BY GROUP, 2021 (USD MILLION, 2014–2016 PRICES)

COUNTRY	CEREALS	VEGETABLES	FRUIT	OIL CROPS	ROOTS AND TUBERS	SUGAR CROPS	OTHER	TOTAL
World	859 896	542 187	474 789	361 189	204 695	109 220	282 625	2 834 602
Africa	61 390	32 022	45 186	14 092	78 423	5 325	26 464	262 903
Americas	129 039	43 748	70 963	132 275	19 818	29 167	53 339	478 349
Asia	565 197	411 962	297 669	163 038	84 710	66 181	192 143	1 780 902
Europe	92 218	52 405	55 030	48 118	20 811	7 529	6 222	282 332
Oceania	12 053	2 050	5 941	3 665	933	1 018	4 457	30 117
Afghanistan								
Albania	220	470	380	170	77	1	84	1 400
Algeria	1 182	4 189	9 223	307	1 736		69	16 706
Andorra								
Angola	1 014	212	1 571	195	2 594		440	6 027
Antigua and Barbuda	0	1	4		1		0	6
Argentina	13 512	1 778	1 547	16 055	1 101	768	1 435	36 196
Armenia	37	130	272		135		23	596
Australia	11 766	1 647	3 955	3 542	579	971	4 411	26 871
Austria	767	354	528	289	137	93	19	2 187
Azerbaijan	851	922	894	96	414	9	257	3 445
Bahamas								
Bahrain								
Bangladesh	14 080	1 826	977	429	1 859	137	2 930	22 237
Barbados		20	2		6	3	0	30
Belarus	1 255	804	333	229	741	138	44	3 544
Belgium	344	1 704	464	7	472	142	31	3 164
Belize	47	17	68	11	3	63	15	223
Benin	856	321		192	3 016		211	4 596
Bhutan	44	21	23	0	36	0	50	175
Bolivia (Plurinational State of)	939	109	344	1 107	411	2 202	185	5 297
Bosnia and Herzegovina	259	133	239	11	87		43	771
Botswana	39		1	0			9	50
Brazil	20 597	4 431	12 374	53 435	4 027	15 857	15 306	126 027
Brunei Darussalam	3	13	5	0	3		1	25
Bulgaria	2 064	161	188	946	46		36	3 440
Burkina Faso	1 314	68	1	461	54		394	2 292
Burundi	160	190	337	25	996	9	260	1 976
Cabo Verde	0	65	9		19		19	112
Cambodia	3 193	419	341	306	1 352	11 056	146	16 812
Cameroon	1 334	661	1 560	479	2 546		1 238	7 818
Canada	7 955	1 158	765	7 636	1 461		1 887	20 863
Central African Republic	68		20		695		0	783
Chad	1 092	92	87	822	222		157	2 472
Chile	590	1 430	7 581	55	453	21	63	10 194
China	266 601	298 026	167 718	69 771	47 022	36 158	102 105	987 402
Colombia	1 945	850	4 507	1 349	1 225	732	1 756	12 365

TABLE 18.
PRODUCTION VALUE OF PRIMARY CROPS BY GROUP, 2021 (USD MILLION, 2014–2016 PRICES) (CONTINUED)

COUNTRY	CEREALS	VEGETABLES	FRUIT	ROOTS AND TUBERS	SUGAR CROPS	OIL CROPS	OTHER	TOTAL
Comoros								
Congo	20	103	282	48	2 298	123	22	2 896
Costa Rica	86	108	3 471	2	114	185	290	4 255
Côte d'Ivoire	1 704	149	1 382	497	2 540	89	5 106	11 468
Croatia	554	66	136	172	25	24	20	997
Cuba								
Cyprus	16	41	57	18	36		2	170
Czechia	1 524	117	122	484	162	150	97	2 657
Democratic People's Republic of Korea								
Democratic Republic of the Congo								
Denmark	1 521	155	56	279	679	112	8	2 807
Djibouti								
Dominica								
Dominican Republic	389	349	1 159	182	167	2 177	342	4 766
Ecuador	1 180	170	1 971	370	110	319	870	4 989
Egypt	6 933	2 579	4 140	629	1 252	1 391	236	17 161
El Salvador	383	37	78	18	9	202	267	995
Equatorial Guinea							9	9
Eritrea	412		4	22	98		56	593
Estonia	208	12	6	90	29		0	346
Eswatini								
Ethiopia	8 704	652	320	668	421	145	2 576	13 484
Fiji	7	120	25	8	103	46	16	326
Finland	432	268	114	18	114	17	16	979
France	11 878	3 914	13 277	2 496	2 903	1 104	306	35 878
Gabon								
Gambia	48			18	7		0	73
Georgia	103	37	191	3	71		147	552
Germany	7 531	2 634	1 240	1 508	2 142	1 696	204	16 955
Ghana	2 260	631	2 329	519	8 798		879	15 416
Greece	745	1 384	2 298	6 772	214	1	699	12 114
Grenada	0	13	20	11	5	3	5	57
Guatemala								
Guinea	661	7	67	396	250		54	1 435
Guinea-Bissau	210		30		53		1	293
Guyana		130	191	5	38		77	442
Haiti								
Honduras	237	93	256	299	22	85	1 158	2 150
Hungary	2 299	286	535	1 065	64	22	37	4 307
Iceland	2	16			6		0	24
India	128 749	41 657	53 386	27 217	10 404	8 633	40 112	310 157
Indonesia	43 937	12 487	9 751	32 584	4 897		5 856	109 512
Iran (Islamic Republic of)	6 618	1 528	9 562	660	552	809	5 499	25 229

TABLE 18.
PRODUCTION VALUE OF PRIMARY CROPS BY GROUP, 2021 (USD MILLION, 2014–2016 PRICES) (CONTINUED)

COUNTRY	CEREALS	VEGETABLES	FRUIT	ROOTS AND TUBERS	SUGAR CROPS	OIL CROPS	OTHER	TOTAL
Iraq	2 468	1 013	1 043	25	254		10	4 812
Ireland	542	218	10				0	770
Israel	125	1 026	1 951	114	358		85	3 658
Italy	4 275	9 415	7 940	5 549	613	80	994	28 867
Jamaica	7	293	394	18	331	18	101	1 160
Japan	19 270	12 757	8 468	442	4 417	666	1 618	47 638
Jordan	40	546	336	201	74		6	1 202
Kazakhstan	2 233	1 607	759	723	886	13	63	6 284
Kenya	1 399	1 017	1 204	31	1 210	260	6 938	12 060
Kiribati								
Kuwait	13	128	127	1	21		0	291
Kyrgyzstan	347	395	13		343	18	155	1 271
Lao People's Democratic Republic	1 509	1 370	802	105	502	370	289	4 949
Latvia	500	31	7	164	20		7	730
Lebanon	42	442	973	182	291	3	159	2 092
Lesotho								
Liberia								
Libya								
Lithuania	946	98	40	356	37	32	35	1 544
Luxembourg	24	3	21	2	5		0	55
Madagascar	999	17	166	76	492	249	276	2 276
Malawi	1 415	617	818	421	5 212		733	9 216
Malaysia	789	361	439	12 918	28	6	921	15 462
Maldives		1	1	0	0		0	2
Mali	1 983	1 597	1 318	470	434		230	6 033
Malta		18	9	0	3		0	30
Marshall Islands								
Mauritania								
Mauritius	0	46	6	1	12	110	5	181
Mexico	7 740	5 427	7 990	895	922	1 750	2 549	27 274
Micronesia (Federated States of)								
Mongolia	153	91			95		0	338
Montenegro								
Morocco	2 792	1 212	3 493	927	338	112	249	9 123
Mozambique	759	774	435	181	1 570	21	646	4 385
Myanmar								
Namibia	65		29	0			0	94
Nauru								
Nepal	2 961	1 660	455	304	998	151	583	7 113
Netherlands (Kingdom of the)	241	3 250	714	2	1 007	302	0	5 516
New Zealand	274	245	1 858		186		22	2 585
Nicaragua	340	76	149	179	98	106	740	1 688
Niger	1 483	1 957	127	481	556	56	66	4 727

TABLE 18.
PRODUCTION VALUE OF PRIMARY CROPS BY GROUP, 2021 (USD MILLION, 2014–2016 PRICES) (CONTINUED)

COUNTRY	CEREALS	VEGETABLES	FRUIT	ROOTS AND TUBERS	SUGAR CROPS	OIL CROPS	OTHER	TOTAL
Nigeria	10 703	11 300	5 759	2 397	31 722	174	1 931	63 985
North Macedonia	115	305	141	2	51	0	102	718
Norway	412	329	97	6	135		2	979
Oman	25	246	82		5	0	0	358
Pakistan	15 931	725	3 063	2 097	1 414	3 227	1 112	27 568
Palau								
Panama	297	59	196	11	52	58	28	702
Papua New Guinea								
Paraguay	990	84	262	3 991	212	171	129	5 841
Peru	2 461	1 414	1 993	295	1 981	357	1 378	9 878
Philippines	10 378	2 440	4 465	2 368	621	1 681	840	22 795
Poland	5 261	1 501	1 269	1 251	770	517	122	10 691
Portugal	254	1 684	2 406	578	115		162	5 200
Qatar	2	51	26		1		0	80
Republic of Korea	9 063	12 339	3 992	549	283		496	26 722
Republic of Moldova	617	48	246	361	29	28	34	1 363
Romania	5 459	1 297	2 080	1 748	507	31	389	11 511
Russian Federation	17 105	7 620	4 273	8 004	4 302	1 962	972	44 237
Rwanda	373	258	1 708	41	1 045	6	342	3 774
Saint Kitts and Nevis		1	0	7	2		0	10
Saint Lucia		5	17	14	8		0	45
Saint Vincent and the Grenadines	1	3	50	3	17		24	98
Samoa			51	15	23		0	88
San Marino								
Sao Tome and Principe								
Saudi Arabia	280	1 426	5 514		390		19	7 630
Senegal	971	245	835	601	491	19	153	3 316
Serbia	1 561	288	828	414	139	72	58	3 360
Seychelles		1	3	7	0		0	13
Sierra Leone	1 384	591	142	107	1 561		31	3 816
Singapore		26					0	26
Slovakia	724	68	58	314	46	53	8	1 270
Slovenia	114	62	72	5	16	0	20	288
Solomon Islands								
Somalia								
South Africa	4 020	996	4 831	1 157	643	685	1 073	13 405
South Sudan								
Spain	5 347	7 744	12 204	6 414	581	109	1 332	33 733
Sri Lanka	1 608	1 008	342	955	149	26	1 708	5 797
Sudan								
Suriname	44	17	45	7	5		0	118
Sweden	822	196	78	134	269	64	0	1 563
Switzerland	299	656	682	70	190	70	28	1 994

TABLE 18.
PRODUCTION VALUE OF PRIMARY CROPS BY GROUP, 2021 (USD MILLION, 2014–2016 PRICES) (CONTINUED)

COUNTRY	CEREALS	VEGETABLES	FRUIT	ROOTS AND TUBERS	SUGAR CROPS	OIL CROPS	OTHER	TOTAL
Syrian Arab Republic								
Tajikistan	336	552	586	121	216		76	1 887
Thailand	9 368	818	3 372	2 845	1 953	1 591	7 962	27 909
Timor-Leste	142	8	8	1	15		49	223
Togo	427	205	26	100	604		252	1 614
Tonga								
Trinidad and Tobago	2	46	53	13	13		7	134
Tunisia	459	659	1 275	376	110	2	215	3 096
Türkiye	9 188	12 407	11 565	6 521	1 972	1 146	10 170	52 968
Turkmenistan	73	148	136		248		19	624
Tuvalu								
Uganda								
Ukraine	11 776	2 213	784	7 782	2 829	401	172	25 958
United Arab Emirates								
United Kingdom of Great Britain and Northern Ireland	4 221	2 883	1 155	428	1 249	307	139	10 382
United Republic of Tanzania	2 699	288	1 444	1 211	2 054		1 046	8 743
United States of America	66 496	21 440	17 869	44 940	4 289	2 657	23 721	181 412
Uruguay	857	216	392	664	134		0	2 264
Uzbekistan								
Vanuatu	1	20	17	84	21		9	152
Venezuela (Bolivarian Republic of)	1 941	3 936	7 061	703	2 592	1 434	983	18 649
Viet Nam	14 290	593	4 826	1 325	2 221	481	8 317	32 053
Yemen	297	327	1 037	42	143		295	2 140
Zambia	692	64	5	112	2 740		22	3 635
Zimbabwe	754	259	197	118	31	1 873	519	3 751

Source: FAO. 2023. Value of Agricultural Production. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QV

TABLE 19.
PRODUCTION OF PRIMARY CROPS MAIN COMMODITIES, 2021 (THOUSAND TONNES)

COUNTRY	SUGAR CANE	MAIZE	RICE, PADDY	WHEAT	OIL PALM FRUIT	POTATOES	OTHER CROPS	TOTAL
World	1 859 390	1 210 235	787 294	770 877	416 397	376 120	4 069 588	9 489 900
Africa	94 282	96 637	37 189	29 219	23 137	28 099	680 120	988 684
Americas	961 894	592 356	37 735	99 666	23 974	46 151	752 594	2 514 371
Asia	770 306	378 856	708 148	340 462	365 965	197 536	1 992 147	4 753 420
Europe		141 848	3 784	269 184		102 508	598 259	1 115 582
Oceania	32 908	537	437	32 345	3 321	1 826	46 468	117 843
Afghanistan	38	180	459	3 900		865	5 655	11 096
Albania		414	0	225		259	2 108	3 006
Algeria		18	0	2 168		4 361	16 008	22 556
Andorra								
Angola	951	2 970	11	3	281	485	18 623	23 324
Antigua and Barbuda	0	0					10	10
Argentina	18 627	60 526	1 453	17 644		2 955	73 796	175 002
Armenia		6	0	97		464	1 551	2 118
Australia	31 133	306	423	31 923		1 268	34 710	99 763
Austria		2 435		1 548		770	6 084	10 836
Azerbaijan		279	10	1 837		1 062	5 322	8 511
Bahamas	62	1				0	88	150
Bahrain						0	44	44
Bangladesh	3 333	4 116	56 945	1 085		9 887	17 991	93 357
Barbados	92	0					20	112
Belarus		1 148		2 441		4 808	11 411	19 808
Belgium		450	0	1 629		3 871	8 133	14 084
Belize	1 894	109	15			1	235	2 254
Benin	83	1 628	520		591	0	10 825	13 647
Bhutan	0	31	41	1		39	134	246
Bolivia (Plurinational State of)	10 090	1 225	550	336		1 273	7 682	21 156
Bosnia and Herzegovina		893		314		340	1 420	2 968
Botswana		67		1		2	268	339
Brazil	715 659	88 462	11 661	7 875	2 888	3 853	224 190	1 054 587
Brunei Darussalam			3				22	25
Bulgaria		3 427	58	7 343		196	4 143	15 167
Burkina Faso	507	1 913	451			24	7 741	10 635
Burundi	201	280	120	9	89	340	6 136	7 174
Cabo Verde	23	0				2	60	86
Cambodia	2 995	920	11 410		556		9 814	25 695
Cameroon	1 231	2 100	362	1	2 621	366	21 003	27 683
Canada		13 984		22 296		6 372	39 958	82 610
Central African Republic	130	90	13		4	1	2 230	2 469
Chad	410	365	243	2		39	4 613	5 671
Chile		794	146	1 354		995	10 933	14 222
China	107 259	272 762	214 404	136 952	666	94 362	1 030 106	1 856 511
Colombia	24 032	1 591	3 327	7	7 882	2 621	16 300	55 761

TABLE 19.
PRODUCTION OF PRIMARY CROPS MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	SUGAR CANE	MAIZE	RICE, PADDY	WHEAT	OIL PALM FRUIT	POTATOES	OTHER CROPS	TOTAL
Comoros		6	31			1	271	310
Congo	717	13	1		154	7	2 213	3 105
Costa Rica	4 297	6	151		1 162	83	6 978	12 678
Côte d'Ivoire	2 102	1 140	1 659		2 334	0	24 193	31 428
Croatia		2 242	0	987		128	1 985	5 341
Cuba	11 205	239	226			97	4 393	16 161
Cyprus			0	26		89	221	335
Czechia		988	0	4 961		672	8 169	14 790
Democratic People's Republic of Korea		2 300	1 855	87		653	6 660	11 555
Democratic Republic of the Congo	2 180	2 243	1 581	9	2 120	105	55 914	64 153
Denmark		45	0	4 047		2 375	8 186	14 653
Djibouti	0	0					61	61
Dominica	5	0				0	106	111
Dominican Republic	5 506	55	1 006		305	91	7 105	14 068
Ecuador	11 373	1 699	1 504	11	2 419	245	9 563	26 813
Egypt	12 361	7 500	4 841	9 000		6 903	47 908	88 513
El Salvador	7 508	881	24			11	808	9 231
Equatorial Guinea					43		298	341
Eritrea		20		25		0	434	479
Estonia		0	0	736		66	875	1 677
Eswatini	5 715	100	1	1		8	231	6 057
Ethiopia	1 170	10 722	200	5 214		1 142	26 322	44 769
Fiji	1 417	1	10			0	296	1 725
Finland		0	0	687		559	2 743	3 989
France		15 358	62	36 559		8 987	70 306	131 273
Gabon	289	45	2		20		1 142	1 497
Gambia		20	42		35		121	218
Georgia		233		136		235	883	1 486
Germany		4 462	0	21 459		11 312	58 966	96 200
Ghana	154	3 500	1 231		2 462		42 726	50 073
Greece		1 323	242	1 058		382	6 976	9 981
Grenada	6	0					39	45
Guatemala	27 755	1 960	33	0	3 031	609	8 838	42 226
Guinea	317	798	2 475		880	350	7 456	12 275
Guinea-Bissau	7	17	214		81		673	991
Guyana	1 281	4	559				696	2 540
Haiti	1 465	200	155			35	2 517	4 372
Honduras	4 762	674	54	1	2 142	27	2 293	9 951
Hungary		6 425	10	5 290		240	7 618	19 582
Iceland						6	13	19
India	405 399	31 650	195 425	109 590		54 230	386 544	1 182 838
Indonesia	32 200	20 010	54 415		256 591	1 361	81 836	446 413

TABLE 19.
PRODUCTION OF PRIMARY CROPS MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	SUGAR CANE	MAIZE	RICE, PADDY	WHEAT	OIL PALM FRUIT	POTATOES	OTHER CROPS	TOTAL
Iran (Islamic Republic of)	8 258	320	1 595	10 094		2 599	36 039	58 905
Iraq	0	374	422	4 234		466	4 132	9 629
Ireland		0	0	628		408	2 057	3 092
Israel		68		150		509	2 903	3 631
Italy		6 080	1 459	7 295		1 362	35 883	52 079
Jamaica	499	2	0			17	1 113	1 631
Japan	1 307	0	10 525	1 097		2 131	18 984	34 044
Jordan		25		30		178	2 229	2 461
Kazakhstan		1 130	504	11 814		4 032	14 327	31 806
Kenya	7 783	3 303	186	245		2 108	13 212	26 837
Kiribati							198	198
Kuwait		13		0		47	501	561
Kyrgyzstan		691	46	363		1 289	2 418	4 807
Lao People's Democratic Republic	1 885	1 050	3 870			3	10 745	17 553
Latvia		0	0	2 408		115	1 172	3 694
Lebanon	0	3		100		659	1 964	2 726
Lesotho		90		6		127	79	302
Liberia	276		256		188		1 163	1 882
Libya		3		130		329	1 684	2 146
Lithuania		105	0	4 249		200	3 276	7 830
Luxembourg		0	0	76		16	95	188
Madagascar	3 123	232	4 391	2	21	251	5 965	13 985
Malawi	3 157	4 581	147	1		1 429	20 835	30 150
Malaysia	25	75	2 418		91 394		3 808	97 720
Maldives		0					10	11
Mali	646	3 603	2 420	21		218	10 407	17 315
Malta		0	0	0		7	50	57
Marshall Islands							23	23
Mauritania		12	428	7		2	148	598
Mauritius	2 670	1	0			13	98	2 781
Mexico	55 485	27 503	257	3 284	1 601	1 948	49 239	139 316
Micronesia (Federated States of)		0	0				91	91
Mongolia				566		183	246	995
Montenegro		3		2		25	85	115
Morocco	613	49	51	7 544		1 642	18 395	28 293
Mozambique	2 987	2 100	189	15		327	10 216	15 834
Myanmar	11 649	2 300	24 910	100		466	17 484	56 909
Namibia		92		18		14	611	735
Nauru							3	3
Nepal	3 184	2 998	5 622	2 127		3 325	7 611	24 867
Netherlands (Kingdom of the)		171	0	947		6 676	13 135	20 930
New Zealand		209	0	423		554	3 011	4 197

TABLE 19.
PRODUCTION OF PRIMARY CROPS MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	SUGAR CANE	MAIZE	RICE, PADDY	WHEAT	OIL PALM FRUIT	POTATOES	OTHER CROPS	TOTAL
Nicaragua	7 106	376	492		458	78	1 897	10 406
Niger	445	6	22	5		258	11 851	12 587
Nigeria	1 498	12 745	8 342	90	10 063	1 217	169 649	203 604
North Macedonia		134	19	244		180	1 501	2 078
Norway				267		369	1 168	1 803
Oman	2	16		4		12	1 409	1 443
Pakistan	88 651	10 635	13 984	27 464		5 873	25 213	171 819
Palau								
Panama	2 415	135	406		135	26	841	3 959
Papua New Guinea	354	13	1		3 014	1	6 878	10 261
Paraguay	7 221	4 088	1 181	928	150	4	15 479	29 051
Peru	9 828	1 582	3 474	203	1 173	5 661	14 248	36 169
Philippines	26 277	8 300	19 960		523	103	42 313	97 477
Poland		7 322	0	11 894		7 081	43 892	70 189
Portugal		752	176	69		413	6 688	8 099
Qatar		3		0		0	123	126
Republic of Korea		78	5 211	30		555	13 499	19 372
Republic of Moldova		2 793	0	1 565		218	3 853	8 430
Romania		14 821	15	10 434		1 398	13 075	39 743
Russian Federation	0	15 240	1 076	76 057		18 296	115 438	226 107
Rwanda	98	483	132	14		938	7 706	9 371
Saint Kitts and Nevis	0					0	7	7
Saint Lucia	0	0					36	36
Saint Vincent and the Grenadines		1	0				102	103
Samoa	0						137	137
San Marino								
Sao Tome and Principe		1			17		72	90
Saudi Arabia		59	1	613		578	5 523	6 773
Senegal	1 386	755	1 382		125	144	7 931	11 722
Serbia		6 027		3 442		614	6 628	16 712
Seychelles							10	10
Sierra Leone	81	23	1 979		343		4 334	6 760
Singapore	0						25	25
Slovakia		1 579	0	2 002		151	3 114	6 847
Slovenia		389	0	154		64	412	1 019
Solomon Islands			3		308		373	683
Somalia	213	75	2	1			621	912
South Africa	17 991	16 871	3	2 257		2 595	14 494	54 211
South Sudan	0	175	26	0		0	3 802	4 004
Spain		4 598	617	8 565		2 081	57 182	73 043
Sri Lanka	826	472	5 150			76	7 843	14 366
Sudan	5 331	23	25	600		504	17 490	23 974
Suriname	87	0	264		1		81	433

TABLE 19.
PRODUCTION OF PRIMARY CROPS MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	SUGAR CANE	MAIZE	RICE, PADDY	WHEAT	OIL PALM FRUIT	POTATOES	OTHER CROPS	TOTAL
Sweden		15	0	3 028		826	4 844	8 712
Switzerland		98		401		373	2 173	3 046
Syrian Arab Republic	0	310	0	1 952		595	6 257	9 114
Tajikistan		240	67	852		903	4 642	6 704
Thailand	66 279	5 300	33 582	1	16 234	134	51 040	172 570
Timor-Leste		56	45			1	161	263
Togo		929	150		589		3 095	4 763
Tonga							120	120
Trinidad and Tobago	0	5	0				122	128
Tunisia				1 193		450	7 140	8 783
Türkiye		6 750	1 000	17 650		5 100	88 023	118 523
Turkmenistan		8	83	1 367		573	2 802	4 833
Tuvalu							4	4
Uganda	5 369	2 800	303	25		246	17 449	26 193
Ukraine	0	42 110	49	32 183		21 356	58 413	154 112
United Arab Emirates		24		0		1	721	746
United Kingdom of Great Britain and Northern Ireland				13 988		5 307	21 132	40 427
United Republic of Tanzania	3 515	7 039	2 688	70	77	1 075	26 907	41 372
United States of America	29 964	383 943	8 700	44 790		18 582	243 381	729 361
Uruguay	457	770	1 309	936		93	3 734	7 299
Uzbekistan		590	334	5 985		3 286	20 274	30 468
Vanuatu		1					451	451
Venezuela (Bolivarian Republic of)	3 215	1 542	788	1	629	474	5 502	12 150
Viet Nam	10 741	4 446	43 853			324	49 220	108 583
Yemen	0	35		125		228	2 206	2 595
Zambia	5 102	3 620	66	206		62	5 478	14 535
Zimbabwe	3 450	1 470	3	337		12	1 807	7 079

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 20.
PRODUCTION OF VEGETABLE OILS MAIN COMMODITIES (THOUSAND TONNES)

COUNTRY	2020					TOTAL VEGETABLE OILS		
	OIL, PALM	OIL, SOYBEAN	OIL, RAPESEED	OIL, SUNFLOWER	OTHER	2000	2010	2020
World	75 876	58 573	25 182	20 577	27 507	92 236	147 981	207 714
Africa	3 046	1 381	59	763	3 293	4 812	5 872	8 541
Americas	5 242	30 785	5 958	1 580	3 341	25 424	34 585	46 906
Asia	66 928	22 035	8 005	2 090	17 733	45 949	83 004	116 791
Europe	0	4 369	10 766	16 134	2 972	15 235	23 476	34 241
Oceania	660	4	394	9	168	815	1 045	1 235
Afghanistan				3	28	17	6	30
Albania		0		0	12	2	9	12
Algeria		102	8	2	144	41	62	255
Andorra								
Angola	57			4	40	63	87	100
Antigua and Barbuda					0	0	0	0
Argentina		7 160	0	1 068	179	5 419	8 272	8 407
Armenia				0	0		1	0
Australia		4	394	9	28	319	393	435
Austria		30	145	71	2	130	198	247
Azerbaijan		1		37	16	10	46	53
Bahamas								
Bahrain								
Bangladesh		413	233		57	232	215	703
Barbados		5			0	4	4	5
Belarus		96	321	17	0	17	160	435
Belgium		38	615	35	192	647	699	879
Belize		3			0		0	3
Benin	80	15			78	62	75	173
Bhutan								
Bolivia (Plurinational State of)		549		70	1	215	387	620
Bosnia and Herzegovina		7	3	31	0	2	37	41
Botswana					0	2	0	0
Brazil	577	9 557	16	165	627	4 510	7 722	10 942
Brunei Darussalam								
Bulgaria		1	18	603	9	162	193	630
Burkina Faso					43	23	62	43
Burundi	17				4	4	16	21
Cabo Verde								
Cambodia	85	25			18	13	60	128
Cameroon	290				131	191	413	421
Canada		319	4 495	23	78	1 694	2 828	4 915
Central African Republic	0				30	36	42	30
Chad					84	40	44	84
Chile		15	70	0	23	33	36	108
China	113	16 819	2 970	258	4 268	11 038	19 445	24 428
Colombia	1 558	140			122	661	905	1 820

TABLE 20.
PRODUCTION OF VEGETABLE OILS MAIN COMMODITIES (THOUSAND TONNES) (CONTINUED)

COUNTRY	2020					TOTAL VEGETABLE OILS		
	OIL, PALM	OIL, SOYBEAN	OIL, RAPESEED	OIL, SUNFLOWER	OTHER	2000	2010	2020
Comoros					5	5	5	5
Congo	27				3	19	28	30
Costa Rica	260	48			37	184	286	346
Côte d'Ivoire	493				101	334	436	593
Croatia		9	20	23	16	43	57	68
Cuba		32			1	6	29	33
Cyprus					5	4	2	5
Czechia		6	466	83	3	225	334	557
Democratic People's Republic of Korea		28			36	62	72	64
Democratic Republic of the Congo	300		0		17	218	208	317
Denmark		1	248	0	4	158	212	253
Djibouti								
Dominica					1	1	1	1
Dominican Republic	51	4			17	37	54	72
Ecuador	465	5			39	245	426	508
Egypt		697		9	77	142	345	783
El Salvador					3	6	3	3
Equatorial Guinea	5				1	6	5	7
Eritrea					1	0	1	1
Estonia			59	1	1	6	19	61
Eswatini					0	0	0	0
Ethiopia		5	13		43	21	48	61
Fiji					4	8	5	4
Finland		5	46	5	0	95	125	56
France		140	1 716	472	85	1 268	2 603	2 414
Gabon	2	1			0	7	3	4
Gambia	4				3	33	23	7
Georgia		0		0	0	2	8	0
Germany		666	3 781	75	79	2 827	3 660	4 601
Ghana	265				128	156	242	393
Greece		52	5	84	346	565	458	487
Grenada					0	0	0	0
Guatemala	805	7		0	80	78	211	893
Guinea	50				142	102	124	192
Guinea-Bissau	6				17	18	23	23
Guyana						2	1	
Haiti					0	0	0	0
Honduras	700	0			89	110	391	789
Hungary		25	87	653	39	197	287	805
Iceland			0		0			0
India		1 378	2 520	63	2 288	5 483	7 865	6 248
Indonesia	44 759	393		7	5 077	8 873	25 615	50 237
Iran (Islamic Republic of)		432	167	28	31	171	127	657

TABLE 20.
PRODUCTION OF VEGETABLE OILS MAIN COMMODITIES (THOUSAND TONNES) (CONTINUED)

COUNTRY	2020					TOTAL VEGETABLE OILS		
	OIL, PALM	OIL, SOYBEAN	OIL, RAPESEED	OIL, SUNFLOWER	OTHER	2000	2010	2020
Iraq		0		26	6	17	14	33
Ireland		1	7		0	10	10	8
Israel		66	24	5	20	129	108	115
Italy		436	27	142	450	1 123	1 137	1 055
Jamaica		0			10	6	6	10
Japan		452	976		133	1 822	1 599	1 562
Jordan					32	30	25	32
Kazakhstan		23	55	351	45	55	226	475
Kenya				2	22	24	25	23
Kiribati					4	0	2	4
Kuwait		0			1	0	1	1
Kyrgyzstan			0	0	7	9	18	7
Lao People's Democratic Republic		1			6	4	8	8
Latvia		0	64	1	0	1	54	65
Lebanon		38		5	32	21	44	75
Lesotho								
Liberia	45				2	47	46	47
Libya					17	10	15	17
Lithuania		0	104		0	4	14	104
Luxembourg		0	0	0	0	3	1	0
Madagascar	4				9	19	18	13
Malawi		18		7	60	18	52	85
Malaysia	19 141	116	20	2	2 261	12 408	19 143	21 539
Maldives					0	1	0	0
Mali					83	68	48	83
Malta					0	0	0	0
Marshall Islands								
Mauritania					0	1	0	0
Mauritius					0	0	0	0
Mexico	299	882	535	9	309	945	1 208	2 034
Micronesia (Federated States of)						3	3	
Mongolia			0		0			0
Montenegro					0		0	0
Morocco		13	1	17	181	134	235	211
Mozambique		4		5	107	86	80	116
Myanmar		17		33	378	283	741	428
Namibia				0	0	1	1	0
Nauru					0			0
Nepal		25	42		8	27	26	75
Netherlands (Kingdom of the)		671	27	255	55	1 209	1 248	1 008
New Zealand					2	2	1	2
Nicaragua	134	2			161	17	33	296
Niger					36	18	29	36

TABLE 20.
PRODUCTION OF VEGETABLE OILS MAIN COMMODITIES (THOUSAND TONNES) (CONTINUED)

COUNTRY	2020					TOTAL VEGETABLE OILS		
	OIL, PALM	OIL, SOYBEAN	OIL, RAPESEED	OIL, SUNFLOWER	OTHER	2000	2010	2020
Nigeria	1 280	120			575	1 608	1 437	1 975
North Macedonia		0	0	3	2	2	5	4
Norway		80	4		2	76	81	86
Oman					12	2	4	12
Pakistan		403	474	56	314	713	1 080	1 246
Palau								
Panama	62	5			0	12	25	67
Papua New Guinea	630				99	425	582	729
Paraguay	4	696	15	12	27	193	455	754
Peru	215	2			23	41	84	240
Philippines	140	25			1 000	1 463	1 876	1 165
Poland		7	1 153	7	39	348	962	1 205
Portugal		220	65	99	116	238	358	500
Qatar								
Republic of Korea		198	1		102	247	230	301
Republic of Moldova		5	2	166	9	22	100	182
Romania		65	141	497	2	325	425	705
Russian Federation		740	627	6 024	47	1 416	3 005	7 439
Rwanda					4	1	3	4
Saint Kitts and Nevis					1	0	0	1
Saint Lucia					0	2	0	0
Saint Vincent and the Grenadines		0			0	0	1	1
Samoa					3	6	5	3
San Marino								
Sao Tome and Principe	4				0	2	4	4
Saudi Arabia		115			42	15	82	157
Senegal	14				146	171	181	160
Serbia		65	4	212	4		231	286
Seychelles					0	0	0	0
Sierra Leone	75				23	46	73	98
Singapore		3			10	12	8	14
Slovakia		5	85	18	2	59	100	110
Slovenia					3	0	4	3
Solomon Islands	30				12	44	34	42
Somalia					1	9	2	1
South Africa		235	37	285	100	409	460	656
South Sudan					37			37
Spain		594	71	460	1 396	1 977	2 475	2 521
Sri Lanka		2			55	46	67	57
Sudan				38	195			233
Suriname	0				1	1	1	1
Sweden		4	125	7	1	104	139	138
Switzerland		3	34	8	3	51	44	47

TABLE 20.
PRODUCTION OF VEGETABLE OILS MAIN COMMODITIES (THOUSAND TONNES) (CONTINUED)

COUNTRY	2020					TOTAL VEGETABLE OILS		
	OIL, PALM	OIL, SOYBEAN	OIL, RAPESEED	OIL, SUNFLOWER	OTHER	2000	2010	2020
Syrian Arab Republic		1		1	145	260	366	147
Tajikistan				9	15	23	15	24
Thailand	2 690	531		13	299	860	1 713	3 532
Timor-Leste					0	0	0	0
Togo	22				27	27	89	49
Tonga					7	1	3	7
Trinidad and Tobago		0			1	14	3	1
Tunisia		113		2	374	119	247	489
Türkiye		306	59	1 147	521	1 034	1 268	2 034
Turkmenistan				0	40	31	60	40
Tuvalu					0	0	0	0
Uganda		10		84	52	72	147	146
Ukraine	0	264	115	6 084	14	1 012	3 096	6 477
United Arab Emirates		2	464		0		314	467
United Kingdom of Great Britain and Northern Ireland		134	581		39	806	936	754
United Republic of Tanzania	5			289	111	112	179	405
United States of America		11 331	809	228	1 428	10 806	11 040	13 796
Uruguay		17	18	0	8	19	19	43
Uzbekistan		1	0	47	191	316	286	239
Vanuatu					3	2	11	3
Venezuela (Bolivarian Republic of)	112	6		4	74	160	153	195
Viet Nam		221			209	180	186	430
Yemen					8	11	11	8
Zambia		40		15	8	14	23	63
Zimbabwe		9		4	31	80	56	45

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 21.
PRODUCTION OF RAW SUGAR (THOUSAND TONNES)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
World	132 551	141 781	153 878	174 640	178 364	177 987	180 485	177 868	172 812
Africa	9 438	10 148	10 238	10 782	10 681	11 333	11 550	11 495	11 485
Americas	45 815	56 168	65 559	64 899	70 837	67 215	57 896	56 860	66 787
Asia	45 738	43 078	52 115	70 214	65 325	62 635	77 407	76 375	65 063
Europe	25 723	26 818	21 272	23 673	26 225	31 656	28 828	28 645	24 958
Oceania	5 837	5 570	4 694	5 071	5 295	5 148	4 804	4 494	4 519
Afghanistan	1	1	2	1	0	0	1	1	1
Albania	3	3	4	3	3	3	3	3	3
Algeria			0	0	0	0	0		
Andorra									
Angola	30	30	50	40	56	68	75	100	115
Antigua and Barbuda			0	0	0	0	0		
Argentina	1 558	2 139	2 038	2 106	2 151	1 857	1 850	1 922	1 805
Armenia		2	4	8	8	8	7	7	7
Australia	5 448	5 234	4 519	4 816	5 058	4 939	4 605	4 283	4 335
Austria	447	489	465	426	521	516	336	340	327
Azerbaijan		4	9	18	21	28	26	53	54
Bahamas									
Bahrain									
Bangladesh	134	115	66	84	63	127	87	100	100
Barbados	58	38	26	11	7	10	12	8	7
Belarus	201	434	458	491	592	600	637	639	572
Belgium	1 023	999	747	732	696	1 052	945	914	870
Belize	122	106	88	142	146	178	178	198	144
Benin	5	6	12	13	12	10	10	10	10
Bhutan									
Bolivia (Plurinational State of)	345	403	456	390	396	522	560	548	544
Bosnia and Herzegovina	0	0	0	0	0	0	0		
Botswana									
Brazil	17 100	29 500	39 872	35 194	40 534	36 745	28 001	27 732	38 440
Brunei Darussalam									
Bulgaria	2	5	0	0	0	0	0		
Burkina Faso	30	40	40	42	30	25	25	28	25
Burundi	26	23	14	25	24	26	26	24	22
Cabo Verde									
Cambodia	9	7	10	135	155	155	150	120	100
Cameroon	82	115	116	127	125	130	130	128	116
Canada	121	103	94	102	130	136	136	140	113
Central African Republic	14	12	11	12	12	11	11	12	12
Chad	32	35	38	35	34	33	33	21	31
Chile	482	397	280	259	222	267	262	175	163
China	7 021	9 666	11 423	11 758	9 664	10 245	10 353	10 811	10 449
Colombia	2 391	2 683	2 078	2 355	2 091	2 234	2 335	2 204	2 217
Comoros									

TABLE 21.
PRODUCTION OF RAW SUGAR (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Congo	42	63	73	75	70	70	70	70	70
Costa Rica	366	383	361	435	446	452	431	442	440
Côte d'Ivoire	152	180	154	203	196	201	214	225	225
Croatia	57	204	262	130	250	275	275	150	151
Cuba	4 057	1 298	1 161	1 740	1 694	1 582	1 233	1 211	1 110
Cyprus									
Czechia	472	607	499	496	644	691	623	625	581
Democratic People's Republic of Korea									
Democratic Republic of the Congo	72	74	102	88	89	92	93	90	81
Denmark	595	495	372	337	435	431	382	400	403
Djibouti	0	0	0	0	0	0	0	0	0
Dominica									
Dominican Republic	461	470	525	496	408	561	625	506	604
Ecuador	516	581	497	576	653	590	575	561	556
Egypt	1 476	1 628	2 084	2 485	2 500	2 550	2 600	2 600	2 900
El Salvador	524	587	567	823	679	800	788	823	780
Equatorial Guinea									
Eritrea									
Estonia									
Eswatini	528	653	647	716	651	735	760	788	673
Ethiopia	255	358	352	256	380	450	289	308	363
Fiji	335	292	135	222	203	179	165	176	152
Finland	144	189	80	65	77	70	58	80	69
France	4 590	4 550	3 953	4 692	4 310	5 648	5 801	4 897	3 800
Gabon	20	21	26	28	28	28	29	26	26
Gambia									
Georgia	3	0	0	0					
Germany	4 765	4 049	3 640	3 206	3 745	5 356	4 195	4 615	4 489
Ghana			0	0	0	0	0		
Greece	400	326	84	27	38	40	15	8	9
Grenada			0	0	0	0	0	0	
Guatemala	1 632	2 015	2 336	2 877	2 703	2 740	2 693	2 963	2 655
Guinea	25	25	25	24	25	25	26	23	20
Guinea-Bissau									
Guyana	273	246	221	231	184	137	105	92	89
Haiti	10	10	10	13	13	13	14	13	13
Honduras	328	381	433	515	581	533	546	539	490
Hungary	291	521	121	122	144	157	117	117	140
Iceland							0	0	0
India	20 219	14 170	20 637	30 460	27 385	22 200	34 309	34 300	28 900
Indonesia	1 780	2 050	1 770	2 535	2 363	2 191	2 172	2 227	2 123
Iran (Islamic Republic of)	801	1 346	1 124	1 657	1 786	1 875	1 525	1 250	1 567
Iraq	2	0	1	2	1	1	0	0	0
Ireland	238	217	0	10	9	10	10	0	0

TABLE 21.
PRODUCTION OF RAW SUGAR (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Israel	0	0	0	0	0	0	0		
Italy	1 687	1 287	476	313	277	337	275	300	270
Jamaica	203	127	117	129	79	81	77	59	44
Japan	784	904	646	805	678	784	734	777	772
Jordan									
Kazakhstan	21	42	13	18	41	53	75	62	51
Kenya	402	488	524	636	640	473	491	441	604
Kiribati									
Kuwait									
Kyrgyzstan	63	31	15	25	68	100	122	100	51
Lao People's Democratic Republic		1	8	195	195	163	173	142	130
Latvia	63	77	0	0	0	0	0		
Lebanon	34	8	0	0	0	0	0	0	0
Lesotho									
Liberia	4	4	5	5	5	5	5	5	5
Libya									
Lithuania	138	136	113	104	146	140	147	160	155
Luxembourg									
Madagascar	70	27	74	87	87	90	90	83	83
Malawi	207	272	281	290	269	240	250	252	270
Malaysia	108	62	45	2	2	2	2	1	2
Maldives									
Mali	29	35	34	95	95	100	100	114	100
Malta									
Marshall Islands									
Mauritania									
Mauritius	569	520	452	366	386	355	323	331	271
Mexico	4 985	5 619	4 826	5 985	6 945	7 043	6 226	6 710	6 189
Micronesia (Federated States of)									
Mongolia									
Montenegro									
Morocco	523	517	482	660	560	604	642	591	526
Mozambique	39	265	325	349	294	363	346	314	305
Myanmar	93	38	21	23	24	24	26	27	26
Namibia									
Nauru									
Nepal	84	124	76	147	140	125	178	180	100
Netherlands (Kingdom of the)	1 153	1 093	949	859	1 015	1 445	1 300	1 248	1 265
New Zealand			0	0	0	0	0		
Nicaragua	391	427	489	694	622	734	776	758	776
Niger	21	22	22	31	21	24	25	30	42
Nigeria	36	35	38	16	23	25	30	21	18
North Macedonia	13	11	1	1	1	1	0	0	0
Norway									

TABLE 21.
PRODUCTION OF RAW SUGAR (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Oman									
Pakistan	2 894	3 188	3 410	5 115	7 048	6 621	5 462	4 881	5 631
Palau									
Panama	156	164	154	176	174	167	176	162	155
Papua New Guinea	54	44	40	33	34	30	34	35	32
Paraguay	135	207	254	136	143	147	140	129	149
Peru	747	695	1 038	1 119	1 148	1 081	1 183	1 196	1 197
Philippines	1 676	2 238	1 717	2 239	2 208	2 504	2 115	2 037	2 126
Poland	2 188	2 010	1 593	1 592	2 266	2 539	2 555	2 295	2 342
Portugal	60	83	2	1	2	2	0	0	0
Qatar									
Republic of Korea									
Republic of Moldova	111	145	103	92	100	129	129	90	50
Romania	54	74	108	151	150	191	108	150	104
Russian Federation	1 667	2 718	2 782	5 743	6 045	6 665	6 273	7 310	5 794
Rwanda	4	7	10	5	9	10	11	10	10
Saint Kitts and Nevis	18	11	0	0	0	0	0		
Saint Lucia			0	0	0	0	0		
Saint Vincent and the Grenadines	2	2	2	2	2	2			
Samoa									
San Marino									
Sao Tome and Principe									
Saudi Arabia									
Senegal	90	90	102	133	139	157	160	160	160
Serbia			536	358	529	548	510	450	383
Seychelles									
Sierra Leone	7	6	8	6	6	6	8	8	6
Singapore									
Slovakia	140	264	153	190	223	195	209	215	170
Slovenia	50	63	0	0	0	0	0		
Solomon Islands									
Somalia	22	15	23	23	22	22	22	22	20
South Africa	2 729	2 507	2 188	1 684	1 607	2 064	2 258	2 295	2 106
South Sudan				0	0	0	0		
Spain	1 243	1 093	560	623	517	583	460	361	386
Sri Lanka	64	54	31	62	65	70	65	65	55
Sudan				591	601	644	586	542	501
Suriname	10	5	6	7	6	6	7	1	1
Sweden	448	439	342	211	371	350	345	362	361
Switzerland	238	247	241	261	225	276	219	237	188
Syrian Arab Republic	109	148	233	5	2	3	1	3	
Tajikistan									
Thailand	5 833	5 425	6 929	10 998	9 258	10 782	15 435	14 867	8 294
Timor-Leste									

TABLE 21.
PRODUCTION OF RAW SUGAR (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Togo									
Tonga									
Trinidad and Tobago	111	33	0	0	0	0	0		
Tunisia	3	0	0	12	14	15	15	15	15
Türkiye	2 755	2 250	2 473	2 046	2 420	2 791	2 468	2 494	2 797
Turkmenistan	30	30	30	35	36	35	20	15	15
Tuvalu									
Uganda	137	211	269	498	497	510	525	514	500
Ukraine	1 687	2 054	1 546	1 459	1 997	2 043	1 754	1 490	1 170
United Arab Emirates									
United Kingdom of Great Britain and Northern Ireland	1 440	1 458	1 082	978	897	1 364	1 148	1 189	906
United Republic of Tanzania	117	278	300	315	329	352	371	360	370
United States of America	7 955	6 712	7 194	7 711	8 289	8 172	8 505	7 374	7 683
Uruguay	8	8	9	25	22	25	25	25	25
Uzbekistan	11		0	0	0	0	0		
Vanuatu									
Venezuela (Bolivarian Republic of)	673	740	429	650	370	400	437	369	397
Viet Nam	1 209	1 175	1 423	1 842	1 695	1 748	1 903	1 854	1 711
Yemen									
Zambia	189	232	402	399	391	429	448	450	458
Zimbabwe	585	430	335	412	453	392	453	483	427

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 22.
PRODUCTION OF MEAT (THOUSAND TONNES)

COUNTRY	2021				TOTAL MEAT			
	MEAT, CHICKEN	MEAT, PIG	MEAT, CATTLE	OTHER	2000	2010	2015	2021
World	121 588	120 372	72 446	42 985	233 188	295 789	328 547	357 392
Africa	7 251	2 015	6 874	5 943	11 994	16 951	19 290	22 083
Americas	50 176	23 917	32 948	4 676	73 646	92 287	99 577	111 716
Asia	43 127	63 071	19 462	26 340	90 857	124 122	141 737	152 001
Europe	19 479	30 789	10 463	4 393	51 289	56 554	60 989	65 124
Oceania	1 555	580	2 698	1 634	5 401	5 875	6 955	6 468
Afghanistan	28		115	169	321	328	303	312
Albania	13	9	32	24	67	91	90	79
Algeria	258	0	146	377	561	613	752	782
Andorra								
Angola	40	136	109	35	149	217	287	320
Antigua and Barbuda	0	0	0	0	1	0	0	0
Argentina	2 294	696	2 982	181	4 101	4 722	5 485	6 153
Armenia	8	19	57	11	51	69	100	96
Australia	1 292	432	1 933	726	3 707	4 048	4 967	4 383
Austria	129	502	214	7	835	920	910	853
Azerbaijan	124	0	145	88	132	252	299	358
Bahamas	6	0	0	0	7	7	7	7
Bahrain	8		1	25	14	24	29	34
Bangladesh	216		199	319	449	607	663	734
Barbados	13	3	0	0	14	17	19	16
Belarus	503	396	349	6	598	971	1 148	1 254
Belgium	448	1 140	247	3	1 736	1 816	1 851	1 838
Belize	19	2	2	0	11	17	22	23
Benin	16	9	34	26	55	65	75	85
Bhutan	2	1	1	1	2	2	3	4
Bolivia (Plurinational State of)	506	115	284	61	400	703	837	967
Bosnia and Herzegovina	64	8	12	2	31	76	82	86
Botswana	4	0	34	35	53	83	71	74
Brazil	14 636	4 365	9 750	746	15 425	23 630	26 637	29 497
Brunei Darussalam	31	0	3	1	15	22	25	36
Bulgaria	91	81	18	30	484	221	210	220
Burkina Faso	204	337	110	84	401	648	645	736
Burundi	8	11	14	10	19	22	32	43
Cabo Verde	1	2	1	1	8	6	6	5
Cambodia	17	107	52	18	200	206	202	195
Cameroon	85	29	85	113	215	291	308	312
Canada	1 333	2 405	1 386	212	4 000	4 441	4 441	5 335
Central African Republic	7	19	103	62	116	158	174	191
Chad	7	3	492	361	269	478	634	861
Chile	680	590	210	95	946	1 327	1 483	1 575
China	15 421	53 907	6 990	16 298	62 058	80 899	88 727	92 616
Colombia	1 694	461	759	18	1 377	2 041	2 595	2 932

TABLE 22.
PRODUCTION OF MEAT (THOUSAND TONNES) (CONTINUED)

COUNTRY	2021				TOTAL MEAT			
	MEAT, CHICKEN	MEAT, PIG	MEAT, CATTLE	OTHER	2000	2010	2015	2021
Comoros	1		1	0	2	2	2	2
Congo	7	2	6	50	27	51	62	64
Costa Rica	148	66	93	0	186	260	264	307
Côte d'Ivoire	70	12	38	207	196	251	271	327
Croatia	59	123	43	6	127	216	206	230
Cuba	24	124	62	25	236	282	326	235
Cyprus	27	44	6	5	101	96	79	82
Czechia	168	226	75	5	785	603	505	474
Democratic People's Republic of Korea	33	108	21	159	256	324	345	320
Democratic Republic of the Congo	11	30	21	193	218	227	242	255
Denmark	163	1 724	123	1	1 985	1 993	1 872	2 012
Djibouti			6	5	11	11	11	11
Dominica	0	0	1	0	1	1	1	1
Dominican Republic	347	76	62	2	342	461	488	487
Ecuador	437	224	229	20	497	848	1 058	910
Egypt	2 232	1	352	422	1 384	1 908	2 221	3 008
El Salvador	134	6	17	0	122	146	153	157
Equatorial Guinea	0	0	0	0	1	1	1	1
Eritrea	1		24	16	32	40	39	42
Estonia	23	44	10	0	53	75	83	78
Eswatini	6	1	17	2	25	25	26	26
Ethiopia	70	2	441	420	476	749	758	933
Fiji	26	4	4	1	16	22	32	35
Finland	139	176	86	10	337	387	400	411
France	1 143	2 204	1 424	587	6 324	5 810	5 654	5 358
Gabon	4	4	1	32	33	36	39	41
Gambia	2	1	4	3	6	9	9	9
Georgia	25	22	21	5	108	56	67	73
Germany	1 080	4 971	1 080	497	6 218	8 185	8 334	7 628
Ghana	74	29	26	176	171	225	270	306
Greece	236	75	33	89	467	451	459	432
Grenada	1	0	0	0	1	1	1	1
Guatemala	361	38	215	5	228	328	520	619
Guinea	14	8	103	34	53	92	120	159
Guinea-Bissau	3	14	7	2	18	24	26	27
Guyana	49	1	2	1	15	28	34	53
Haiti	9	32	49	18	93	104	105	108
Honduras	228	10	66	1	141	206	252	305
Hungary	368	474	30	164	1 176	870	989	1 036
Iceland	9	7	5	14	24	30	33	34
India	3 670	320	4 195	2 703	4 987	8 216	10 278	10 888
Indonesia	3 844	324	438	185	1 445	2 366	3 050	4 791
Iran (Islamic Republic of)	1 983	0	336	301	1 555	2 423	2 862	2 621

TABLE 22.
PRODUCTION OF MEAT (THOUSAND TONNES) (CONTINUED)

COUNTRY	2021				TOTAL MEAT			
	MEAT, CHICKEN	MEAT, PIG	MEAT, CATTLE	OTHER	2000	2010	2015	2021
Iraq	122		35	67	153	166	175	224
Ireland	148	335	595	79	1 016	938	1 024	1 156
Israel	541	13	140	134	499	694	786	828
Italy	1 069	1 352	748	332	3 911	4 066	3 692	3 501
Jamaica	125	7	7	1	99	115	126	139
Japan	2 436	1 318	478	6	2 991	3 233	3 875	4 238
Jordan	205		49	35	139	218	232	289
Kazakhstan	264	84	540	344	575	835	922	1 231
Kenya	89	23	251	197	383	686	752	560
Kiribati	1	1			1	2	2	2
Kuwait	65		2	55	69	79	103	122
Kyrgyzstan	11	11	111	108	196	188	218	241
Lao People's Democratic Republic	38	102	39	30	73	130	158	209
Latvia	35	38	17	1	62	80	85	91
Lebanon	114	1	46	8	174	140	167	168
Lesotho	1	1	1	6	11	9	12	9
Liberia	15	11	1	11	20	31	34	38
Libya	128		6	47	141	183	175	181
Lithuania	85	79	46	3	189	197	242	213
Luxembourg	0	13	11	0	22	20	22	23
Madagascar	53	19	34	49	126	150	160	155
Malawi	108	280	61	66	63	112	310	514
Malaysia	1 559	219	35	76	893	1 547	1 911	1 889
Maldives				1	1	1	1	1
Mali	60	1	56	54	113	117	130	170
Malta	4	5	1	0	17	14	11	10
Marshall Islands								
Mauritania	4	0	31	83	81	100	117	119
Mauritius	49	1	2	1	26	51	50	52
Mexico	3 669	1 693	2 131	200	4 444	5 808	6 331	7 692
Micronesia (Federated States of)	0	1	0	0	1	1	1	2
Mongolia	0	0	114	326	288	203	374	441
Montenegro	4	4	4	1		11	11	13
Morocco	525	1	282	402	541	930	1 115	1 210
Mozambique	136	127	18	7	171	150	205	287
Myanmar	620	285	110	101	468	1 991	3 002	1 116
Namibia	10	7	33	23	97	77	75	73
Nauru	0	0		0	0	0	0	0
Nepal	227	31		262	189	249	303	521
Netherlands (Kingdom of the)	869	1 719	430	18	2 880	2 553	2 914	3 037
New Zealand	226	45	751	481	1 303	1 332	1 431	1 503
Nicaragua	143	14	167	2	108	234	257	327
Niger	20	2	70	109	116	159	175	200

TABLE 22.
PRODUCTION OF MEAT (THOUSAND TONNES) (CONTINUED)

COUNTRY	2021				TOTAL MEAT			
	MEAT, CHICKEN	MEAT, PIG	MEAT, CATTLE	OTHER	2000	2010	2015	2021
Nigeria	241	310	334	588	1 053	1 399	1 424	1 473
North Macedonia	2	16	4	3	25	23	21	25
Norway	106	134	88	43	270	341	341	371
Oman	7		16	67	32	63	76	90
Pakistan	1 809		1 223	1 951	1 701	2 654	3 342	4 983
Palau								
Panama	230	47	76	0	172	235	297	353
Papua New Guinea	7	83	3	425	346	443	493	518
Paraguay	75	69	523	7	312	418	548	674
Peru	1 752	176	190	80	801	1 386	1 749	2 198
Philippines	1 343	1 187	118	139	2 079	2 906	3 376	2 788
Poland	2 097	1 986	555	422	2 888	3 584	4 167	5 060
Portugal	300	380	103	76	760	839	842	859
Qatar	35		2	11	13	20	26	48
Republic of Korea	935	1 407	310	81	1 649	2 017	2 416	2 733
Republic of Moldova	50	52	8	3	88	111	131	112
Romania	452	391	83	57	984	1 007	1 084	983
Russian Federation	4 617	4 304	1 674	751	4 453	7 167	9 565	11 346
Rwanda	20	12	36	35	37	85	113	104
Saint Kitts and Nevis	0	0	0	0	1	0	0	0
Saint Lucia	1	1	0	0	2	3	3	3
Saint Vincent and the Grenadines	0	0	0	0	1	1	1	1
Samoa	0	2	1		5	5	5	3
San Marino								
Sao Tome and Principe	1	0	0	0	1	1	1	1
Saudi Arabia	910		40	252	643	761	809	1 202
Senegal	133	19	89	77	114	167	230	318
Serbia	111	312	70	32		474	463	524
Seychelles	0	0	0	0	2	1	1	1
Sierra Leone	21	1	11	18	17	39	44	51
Singapore	81	31	0	4	113	113	104	116
Slovakia		70	12	1	279	177	127	83
Slovenia	67	30	38	7	147	143	121	142
Solomon Islands	0	3	1		3	3	4	4
Somalia	4	0	44	132	172	189	194	180
South Africa	1 915	320	1 051	222	1 644	2 784	3 276	3 508
South Sudan	20		131	103			180	254
Spain	1 331	5 180	718	360	4 913	5 444	6 057	7 590
Sri Lanka	231	2	20	9	105	144	199	262
Sudan	80		389	535			938	1 004
Suriname	12	2	2	1	7	16	13	17
Sweden	180	254	137	10	543	539	550	581
Switzerland	107	230	144	11	413	472	479	492

TABLE 22.
PRODUCTION OF MEAT (THOUSAND TONNES) (CONTINUED)

COUNTRY	2021				TOTAL MEAT			
	MEAT, CHICKEN	MEAT, PIG	MEAT, CATTLE	OTHER	2000	2010	2015	2021
Syrian Arab Republic	112		63	174	347	421	343	349
Tajikistan	31	0	214	82	28	71	158	327
Thailand	1 784	928	139	78	2 044	2 396	2 809	2 929
Timor-Leste	1	7	1	15	23	32	35	24
Togo	25	14	6	20	37	50	49	64
Tonga	0	2	0	0	2	2	2	2
Trinidad and Tobago	47	2	1	0	42	70	52	51
Tunisia	150	0	54	166	242	286	347	370
Türkiye	2 246	0	1 461	549	1 163	2 362	3 154	4 256
Turkmenistan	18	0	183	326	150	281	306	528
Tuvalu	0	0			0	0	0	0
Uganda	68	128	194	71	265	422	456	460
Ukraine	1 314	724	311	91	1 726	2 103	2 381	2 439
United Arab Emirates	56		19	106	94	131	155	182
United Kingdom of Great Britain and Northern Ireland	1 843	1 022	888	429	3 511	3 533	3 831	4 182
United Republic of Tanzania	86	41	508	130	286	447	588	766
United States of America	20 653	12 560	12 734	2 930	37 565	41 953	43 313	48 877
Uruguay	77	13	573	39	592	641	660	702
Uzbekistan	124	3	1 003	180	504	818	1 141	1 310
Vanuatu	1	3	2	0	7	8	7	6
Venezuela (Bolivarian Republic of)	440	110	371	30	1 257	1 761	1 447	951
Viet Nam	1 520	2 590	256	323	1 495	2 982	3 591	4 690
Yemen	206		96	132	168	323	379	435
Zambia	52	36	200	57	137	266	284	344
Zimbabwe	113	11	806	68	729	793	774	998

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 23.
PRODUCTION OF BOVINE MILK (THOUSAND TONNES)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	556 151.1	623 910.6	689 579.3	782 893.4	811 321.8	833 737.7	851 908.4	879 803.1	883 818.2
Africa	23 883.8	33 256.4	38 498.6	39 710.6	40 642.6	41 137.7	41 926.9	43 915.3	44 076.9
Americas	142 438.3	152 874.8	170 980.7	185 628.2	187 594.2	190 395.1	191 480.8	196 341.4	197 644.1
Asia	158 915.8	205 295.2	247 147.6	306 719.6	331 268.7	347 127.1	362 708.0	381 028.2	384 479.6
Europe	207 764.8	207 652.5	206 895.5	219 384.7	221 316.9	223 820.3	225 191.7	227 828.4	226 852.7
Oceania	23 148.4	24 831.6	26 056.9	31 450.3	30 499.4	31 257.5	30 601.0	30 689.9	30 765.0
Afghanistan	1 320.0	1 458.0	1 401.0	1 855.1	1 765.6	1 820.6	1 811.6	1 801.8	1 813.9
Albania	807.0	930.0	930.0	964.0	982.5	973.5	946.6	897.4	859.4
Algeria	1 583.6	2 092.0	2 632.9	2 932.0	2 666.0	2 422.1	2 478.1	2 414.6	2 409.3
Andorra									
Angola	195.0	202.2	198.6	215.0	214.5	216.9	218.7	220.2	221.5
Antigua and Barbuda	5.7	6.1	2.9	2.9	3.1	2.6	3.1	3.1	3.0
Argentina	10 121.3	9 908.9	10 626.3	12 060.9	10 097.5	10 526.6	10 339.9	11 113.2	11 553.3
Armenia	440.3	557.3	557.3	663.8	693.8	645.7	615.9	605.4	622.3
Australia	10 847.0	10 127.0	9 023.0	9 489.0	9 015.8	9 289.0	8 795.0	8 797.0	8 858.1
Austria	3 233.2	3 113.7	3 257.7	3 537.8	3 712.7	3 821.2	3 781.3	3 815.5	3 830.1
Azerbaijan	1 013.8	1 226.0	1 507.0	1 889.8	1 985.1	2 042.8	2 114.4	2 156.9	2 187.8
Bahamas	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Bahrain	19.0	14.8	14.0	12.7	11.2	10.6	11.6	10.0	10.0
Bangladesh	802.0	836.0	865.6	875.1	864.8	869.2	872.4	878.1	882.7
Barbados	7.9	6.3	6.7	5.2	4.9	4.8	4.7	4.0	4.3
Belarus	4 477.5	5 650.1	6 594.5	7 030.2	7 304.0	7 328.6	7 378.5	7 751.8	7 830.0
Belgium	3 689.0	3 025.0	3 066.6	3 988.1	4 025.4	4 195.0	4 293.0	4 449.0	4 434.0
Belize	1.4	3.8	3.3	5.7	4.8	5.0	4.6	4.5	7.5
Benin	76.3	87.2	99.3	113.0	118.9	122.0	125.1	128.4	92.5
Bhutan			25.7	39.8	50.3	52.5	57.5	57.9	54.7
Bolivia (Plurinational State of)	309.9	358.0	415.5	556.4	543.5	544.4	537.9	542.5	543.8
Bosnia and Herzegovina	543.5	648.9	715.6	695.6	679.7	676.7	640.7	629.1	539.5
Botswana	471.3	416.0	472.1	339.5	230.0	294.2	279.1	267.7	280.3
Brazil	20 380.0	25 384.1	31 636.9	35 647.9	34 311.5	34 925.1	35 966.2	36 508.4	36 364.2
Brunei Darussalam	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
Bulgaria	1 419.9	1 293.9	1 132.3	1 037.5	978.6	910.5	835.5	897.7	852.4
Burkina Faso	74.2	117.6	129.9	200.0	212.2	210.0	220.0	206.1	211.2
Burundi	18.6	16.2	30.4	59.9	66.0	74.0	55.0	65.0	64.7
Cabo Verde	5.1	6.6	3.9	3.9	4.5	4.4	4.5	4.4	4.5
Cambodia	24.0	25.2	27.3	24.1	24.5	24.4	24.2	23.9	23.6
Cameroon	155.7	161.4	175.0	179.2	178.8	181.5	181.6	182.4	183.1
Canada	8 161.0	7 806.0	7 666.0	8 160.1	8 968.6	9 218.8	9 210.5	9 331.1	9 466.3
Central African Republic	63.3	66.5	75.0	78.4	78.4	79.4	80.4	81.3	82.2
Chad	129.5	142.7	171.3	200.8	216.1	223.5	231.2	239.2	244.3
Chile	1 990.0	2 300.0	2 530.0	2 028.8	1 990.5	2 153.9	2 144.6	2 275.4	2 268.5
China	11 282.3	30 637.3	33 775.1	35 067.7	33 626.6	34 072.9	35 372.8	37 760.1	40 182.1
Colombia	6 148.1	6 319.9	6 285.1	6 773.8	7 481.4	7 362.3	6 825.5	7 071.4	6 789.0
Comoros	12.6	12.4	13.2	13.3	13.4	13.4	13.4	13.4	13.5

TABLE 23.
PRODUCTION OF BOVINE MILK (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	2.9	3.5	3.7	3.8	4.2	4.0	4.1	4.1	4.1
Costa Rica	721.9	779.5	951.7	1 101.7	1 144.4	1 161.5	1 189.0	1 201.4	1 202.4
Côte d'Ivoire	25.9	28.7	31.3	31.9	33.0	33.6	34.1	34.8	31.8
Croatia	606.8	790.8	769.0	694.4	648.4	618.0	599.0	596.0	558.0
Cuba	614.1	353.2	629.5	493.9	536.4	576.9	512.0	455.3	381.5
Cyprus	146.6	147.3	151.0	163.3	216.4	228.1	238.8	275.2	298.1
Czechia	2 781.2	2 812.7	2 683.0	3 025.9	3 079.2	3 161.5	3 155.8	3 267.7	3 309.9
Democratic People's Republic of Korea	90.0	82.2	93.2	83.1	83.7	83.8	84.0	84.4	84.5
Democratic Republic of the Congo	6.4	6.1	7.5	7.2	7.5	7.7	8.0	8.4	8.9
Denmark	4 719.8	4 584.0	4 909.4	5 356.3	5 557.2	5 615.2	5 615.0	5 666.0	5 644.0
Djibouti	8.1	8.8	8.8	8.9	9.0	8.9	8.9	8.9	8.9
Dominica	6.7	6.7	7.5	7.0	7.0	7.0	7.1	7.1	7.1
Dominican Republic	400.0	461.4	529.6	672.2	858.2	894.8	916.5	891.5	861.6
Ecuador	1 806.0	1 719.7	2 148.6	1 850.0	1 850.0	1 866.7	1 852.2	1 788.0	1 867.3
Egypt	3 675.3	5 102.3	5 648.6	5 123.4	5 312.6	5 093.1	5 193.0	5 546.0	5 277.4
El Salvador	386.8	447.6	457.7	539.3	461.8	403.9	368.3	410.4	394.2
Equatorial Guinea									
Eritrea	50.0	95.0	105.3	105.0	120.0	120.0	120.0	120.0	120.0
Estonia	628.9	670.0	675.3	782.7	790.0	796.9	820.8	848.3	838.7
Eswatini	37.5	38.7	39.9	39.7	39.3	39.5	39.8	39.9	39.9
Ethiopia	900.0	2 139.0	4 058.0	3 200.3	3 317.8	3 284.5	3 895.3	4 693.0	3 957.6
Fiji	56.0	57.0	13.8	12.6	13.0	11.8	10.8	12.4	11.4
Finland	2 450.1	2 433.2	2 336.3	2 435.8	2 405.8	2 397.9	2 374.4	2 406.5	
France	23 165.5	23 128.9	23 301.2	25 068.2	25 539.5	25 055.1	25 062.0	25 234.8	24 778.8
Gabon	10.4	10.2	13.3	14.2	14.0	14.0	14.0	14.0	14.0
Gambia	60.3	68.2	70.3	78.9	71.3	75.5	76.0	74.8	75.4
Georgia	604.5	737.0	587.0	556.5	518.1	545.3	552.0	558.7	577.3
Germany	28 331.2	28 453.0	29 616.3	32 684.6	32 598.2	33 086.8	33 080.2	33 165.9	32 506.9
Ghana	36.8	38.8	37.9	42.7	45.3	45.7	46.0	45.7	45.8
Greece	748.3	790.9	799.8	692.2	665.3	654.8	659.4	683.6	710.9
Grenada	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Guatemala	267.4	411.5	463.1	518.7	543.2	556.5	547.3	558.7	516.6
Guinea	71.6	90.3	143.7	182.0	202.5	180.5	198.3	209.2	220.7
Guinea-Bissau	13.5	14.4	17.3	17.0	18.0	18.0	18.9	19.0	19.2
Guyana	30.1	27.3	28.0	55.3	55.0	55.0	55.0	55.0	55.0
Haiti	41.3	44.8	48.1	48.8	49.4	49.6	49.5	49.6	49.8
Honduras	571.1	663.1	714.2	671.9	676.8	684.9	689.3	693.3	697.4
Hungary	2 142.9	1 928.7	1 684.9	1 941.3	1 967.5	1 948.8	1 962.8	2 014.3	2 080.2
Iceland	104.0	109.4	123.2	146.0	155.6	157.0	156.4	155.5	153.3
India	76 395.0	91 829.0	117 253.0	150 104.4	169 895.3	181 650.7	192 589.5	203 698.0	202 683.7
Indonesia	647.2	673.0	1 040.9	933.9	1 026.4	1 025.4	1 032.8	1 036.3	1 054.1
Iran (Islamic Republic of)	4 976.2	6 474.8	7 028.8	5 832.5	6 939.5	6 928.0	6 928.0	7 637.0	7 164.3
Iraq	446.0	259.4	205.5	236.3	243.2	249.4	254.7	260.8	258.1

TABLE 23.
PRODUCTION OF BOVINE MILK (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Ireland	5 159.8	5 061.3	5 327.0	6 585.1	7 478.2	7 831.3	8 244.9	8 561.5	9 040.0
Israel	1 185.2	1 178.7	1 292.1	1 389.9	1 513.5	1 592.5	1 542.1	1 563.1	1 528.3
Italy	12 444.5	11 228.2	10 677.5	11 354.5	11 589.1	12 584.5	12 743.9	12 966.3	13 459.9
Jamaica	26.2	14.6	12.5	11.9	13.2	13.2	11.9	12.2	11.8
Japan	8 497.0	8 285.2	7 720.5	7 379.2	7 276.5	7 289.2	7 313.5	7 438.2	7 592.1
Jordan	129.0	196.7	215.0	270.4	292.6	320.2	346.9	299.8	309.1
Kazakhstan	3 692.7	4 714.6	5 347.6	5 141.6	5 460.5	5 642.3	5 819.3	6 004.4	6 198.8
Kenya	2 224.0	3 752.2	3 638.6	3 444.2	3 560.7	3 778.2	3 983.3	4 048.1	4 640.9
Kiribati									
Kuwait	30.8	40.3	55.2	57.1	65.6	66.4	70.1	67.4	68.0
Kyrgyzstan	1 078.7	1 151.4	1 321.8	1 450.7	1 527.0	1 569.2	1 627.8	1 668.0	1 699.0
Lao People's Democratic Republic	6.0	6.4	7.0	7.3	7.3	7.3	7.3	7.3	7.3
Latvia	823.0	806.8	830.9	975.4	998.0	980.2	978.9	988.2	990.3
Lebanon	158.4	189.8	219.9	340.0	276.3	340.0	350.0	322.1	337.4
Lesotho	174.4	181.5	163.6	180.0	170.0	170.0	180.0	173.3	174.4
Liberia	7.8	7.9	8.7	9.2	9.0	9.1	9.2	9.3	9.4
Libya	92.7	105.1	141.0	136.4	138.0	134.6	135.2	135.5	135.8
Lithuania	1 713.0	1 853.6	1 732.5	1 734.7	1 566.7	1 568.0	1 547.4	1 488.0	1 473.3
Luxembourg	264.5	269.7	295.3	346.3	387.2	407.6	421.3	447.3	443.3
Madagascar	535.0	510.0	555.0	543.3	545.7	477.7	481.9	478.1	488.2
Malawi	35.0	42.5	46.7	52.1	62.9	58.2	63.1	64.9	67.0
Malaysia	37.7	50.4	76.2	84.3	44.7	46.3	48.1	47.4	49.4
Maldives									
Mali	172.8	310.1	298.2	293.4	315.3	268.6	276.6	284.9	293.5
Malta	48.0	41.5	42.1	41.6	41.1	40.4	41.3	42.1	39.5
Marshall Islands									
Mauritania	115.5	124.3	126.0	135.0	155.0	155.0	146.8	148.1	148.4
Mauritius	4.7	4.0	3.6	4.5	3.6	2.5	2.5	1.8	1.3
Mexico	9 311.4	9 868.3	10 676.7	11 394.7	11 767.6	12 005.7	12 275.9	12 563.7	12 851.7
Micronesia (Federated States of)									
Mongolia	375.6	259.5	271.8	597.6	634.2	637.3	597.0	608.2	585.8
Montenegro			135.8	170.7	169.4	168.2	165.8	165.6	154.9
Morocco	1 184.5	1 400.0	1 900.0	2 450.0	2 550.0	2 550.0	2 550.0	2 500.0	2 500.0
Mozambique	780.0	1 250.0	2 081.6	2 227.8	2 532.0	2 706.9	2 749.1	2 771.0	2 742.3
Myanmar	727.4	967.0	1 577.7	2 338.5	2 521.6	2 393.8	1 989.5	2 038.3	2 140.6
Namibia	88.5	117.5	115.0	106.9	111.7	110.3	113.3	111.9	112.0
Nauru									
Nepal	1 097.0	1 274.2	1 495.9	1 724.8	1 911.2	2 092.4	2 168.4	2 301.0	2 479.9
Netherlands (Kingdom of the)	11 155.0	10 847.0	11 626.1	13 330.9	14 297.4	14 091.2	14 557.8	14 525.0	14 220.0
New Zealand	12 235.4	14 637.9	17 010.5	21 938.8	21 461.6	21 947.5	21 786.2	21 871.3	21 886.4
Nicaragua	560.0	614.1	753.3	1 041.0	1 230.0	1 311.5	1 317.8	1 399.8	1 343.0
Niger	271.4	363.1	486.0	614.9	690.9	732.3	776.3	822.8	676.9
Nigeria	389.0	438.5	444.7	513.1	510.6	514.7	522.4	527.4	531.6
North Macedonia	220.2	197.5	357.9	361.1	394.1	404.2	390.9	405.2	326.5

TABLE 23.
PRODUCTION OF BOVINE MILK (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Norway	1 616.4	1 565.7	1 558.5	1 586.6	1 544.1	1 571.9	1 529.8	1 547.0	1 575.5
Oman	28.5	46.0	69.6	92.3	96.1	98.0	100.0	215.3	219.6
Pakistan	24 949.0	28 732.0	34 716.0	50 207.0	51 552.0	52 994.0	54 977.0	56 775.8	58 634.0
Palau									
Panama	170.6	181.1	198.0	211.2	212.4	208.9	188.8	213.8	181.5
Papua New Guinea	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Paraguay	329.8	372.4	490.4	515.0	459.8	473.9	480.1	541.0	536.8
Peru	903.2	1 236.8	1 678.4	1 903.2	2 013.7	2 067.1	2 121.4	2 138.0	2 184.9
Philippines	10.2	12.3	15.9	20.4	22.8	14.6	14.9	17.2	16.1
Poland	11 889.3	11 922.8	12 278.7	13 236.2	13 304.6	14 171.2	14 502.8	14 821.8	14 881.1
Portugal	2 060.2	2 061.2	1 918.3	2 049.8	1 959.4	1 939.7	1 975.5	1 993.6	1 995.6
Qatar	11.2	4.5	7.0	7.5	7.5	7.5	7.5	7.5	7.5
Republic of Korea	2 252.8	2 228.8	2 073.0	2 168.2	2 058.2	2 040.8	2 049.4	2 088.8	2 034.4
Republic of Moldova	536.3	595.7	554.1	439.4	400.2	333.8	296.0	252.5	224.9
Romania	4 301.3	5 007.8	3 964.9	4 006.0	3 814.1	3 813.8	3 677.7	3 695.7	3 652.2
Russian Federation	31 959.2	30 892.6	31 585.2	30 521.7	29 921.1	30 344.8	31 100.6	31 959.8	32 078.6
Rwanda	107.9	120.0	172.3	174.4	155.5	168.3	181.9	198.8	205.4
Saint Kitts and Nevis									
Saint Lucia	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Saint Vincent and the Grenadines	1.4	1.1	1.3	1.0	0.9	0.9	0.9	0.9	0.9
Samoa	1.5	1.4	1.5	2.0	1.8	1.7	1.6	1.8	1.7
San Marino									
Sao Tome and Principe	1.1	1.2	0.5	0.5	0.6	0.6	0.6	0.6	0.6
Saudi Arabia	710.0	1 008.0	1 603.9	2 117.0	2 159.0	2 074.6	2 393.8	2 593.8	2 600.0
Senegal	100.6	100.2	155.8	210.0	216.0	221.0	225.0	220.7	222.2
Serbia			1 485.0	1 501.0	1 506.0	1 493.0	1 509.0	1 495.0	1 473.0
Seychelles	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sierra Leone	55.2	73.3	148.5	155.4	139.1	142.7	146.5	154.2	175.5
Singapore									
Slovakia	1 067.0	1 100.0	918.0	948.7	933.3	904.6	904.3	917.7	902.6
Slovenia	648.6	659.0	625.5	630.6	648.0	628.9	623.0	630.7	639.9
Solomon Islands	2.8	2.8	3.0	3.1	3.1	3.1	3.1	3.1	3.1
Somalia	430.0	449.8	460.0	459.5	430.0	453.7	454.7	455.9	428.9
South Africa	2 306.0	3 044.0	3 123.0	3 538.4	3 642.8	3 752.6	3 873.0	3 852.0	3 837.0
South Sudan				2 616.0	2 622.0	2 369.1	2 416.5	2 452.7	3 057.3
Spain	6 106.6	6 370.2	6 357.1	6 825.0	7 018.8	7 335.6	7 460.4	7 606.1	7 623.1
Sri Lanka	153.3	162.8	209.1	300.0	396.2	471.6	447.6	491.5	513.3
Sudan				2 858.0	2 937.0	2 965.0	2 988.0	3 011.2	3 004.0
Suriname	8.0	7.7	6.5	5.0	4.3	3.5	3.0	3.0	2.5
Sweden	3 348.0	3 208.0	2 902.1	2 933.0	2 816.7	2 760.2	2 704.4	2 772.7	2 782.2
Switzerland	3 827.8	3 871.2	4 079.4	4 042.5	3 892.5	3 913.0	3 792.2	3 780.5	3 811.5
Syrian Arab Republic	1 157.3	1 510.5	1 459.0	1 389.4	1 184.0	1 078.5	1 087.3	1 316.7	1 242.6
Tajikistan	285.5	488.0	602.0	889.0	950.0	983.1	1 000.6	1 020.9	1 042.6
Thailand	520.1	888.2	911.0	1 200.0	1 200.0	1 200.0	1 200.0	1 200.0	1 200.0

TABLE 23.
PRODUCTION OF BOVINE MILK (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Timor-Leste									
Togo	11.0	12.0	7.1	11.2	11.4	11.5	11.6	11.5	11.5
Tonga	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Trinidad and Tobago	10.5	7.8	4.3	3.7	3.3	3.5	2.9	2.2	1.7
Tunisia	870.0	900.0	1 030.0	1 353.0	1 426.0	1 310.0	1 348.0	1 379.0	1 405.0
Türkiye	8 799.4	10 064.3	12 454.0	16 996.3	18 831.7	20 112.6	20 861.7	21 813.1	21 433.8
Turkmenistan	989.0	1 869.0	2 093.0	2 106.0	2 105.0	2 100.0	2 103.0	1 926.0	1 959.2
Tuvalu									
Uganda	686.0	1 317.8	1 377.0	1 569.0	1 614.0	2 040.0	1 683.7	1 660.7	1 671.6
Ukraine	12 436.0	13 423.8	10 977.2	10 359.4	10 280.5	9 825.6	9 447.8	9 057.9	8 516.5
United Arab Emirates	9.8	16.3	31.7	40.8	52.7	51.0	50.9	55.9	52.6
United Kingdom of Great Britain and Northern Ireland	14 488.0	14 473.0	14 071.0	15 324.0	15 267.0	15 311.0	15 215.0	15 229.0	15 221.0
United Republic of Tanzania	710.0	1 386.4	1 649.9	2 058.7	2 087.0	2 400.1	2 278.5	3 002.6	3 101.4
United States of America	75 928.2	80 254.6	87 487.6	94 619.0	97 761.5	98 687.3	99 083.3	101 291.4	102 629.0
Uruguay	1 421.7	1 619.0	1 820.7	2 182.0	2 049.0	2 173.0	2 168.0	2 205.0	2 182.0
Uzbekistan	3 487.2	4 447.2	6 133.8	8 994.8	10 005.5	10 415.7	10 662.3	10 930.1	11 242.7
Vanuatu	3.0	3.1	3.2	3.0	2.4	2.6	2.5	2.4	2.3
Venezuela (Bolivarian Republic of)	1 414.6	1 347.7	2 436.0	2 291.6	2 244.3	2 204.0	2 366.5	2 762.1	2 444.2
Viet Nam	81.9	229.3	338.3	751.4	909.4	963.7	1 013.6	1 076.3	1 097.4
Yemen	179.8	216.6	203.9	225.7	203.5	204.0	234.5	224.6	224.5
Zambia	346.8	388.8	410.0	382.5	396.7	453.5	385.7	389.1	386.6
Zimbabwe	478.8	386.3	395.6	423.4	415.9	415.2	400.3	408.6	417.6

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 24.
PRODUCTION OF HEN EGGS (THOUSAND TONNES)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	51 132.6	56 678.6	64 217.2	72 132.9	78 923.6	80 410.0	84 201.0	87 074.5	86 387.8
Africa	1 962.1	2 311.7	2 746.1	3 305.8	3 361.9	3 397.7	3 698.4	3 607.7	3 471.3
Americas	10 491.7	11 700.0	13 118.1	14 659.4	16 276.2	16 855.6	17 261.2	17 660.2	17 784.0
Asia	29 045.5	32 593.8	37 637.1	43 071.8	48 079.9	48 740.8	51 636.9	54 190.9	53 655.1
Europe	9 434.0	9 868.4	10 470.5	10 788.0	10 873.4	11 071.8	11 260.6	11 283.5	11 117.5
Oceania	199.3	204.8	245.5	307.9	332.3	344.1	343.9	332.1	359.8
Afghanistan	15.0	21.8	16.3	19.8	20.0	19.9	22.0	22.0	22.2
Albania	21.0	27.3	31.3	52.3	51.1	52.1	54.5	54.2	56.6
Algeria	101.0	175.0	260.5	385.4	328.5	314.0	322.1	308.5	305.2
Andorra									
Angola	4.3	5.2	5.0	5.2	5.3	5.1	5.1	5.2	5.1
Antigua and Barbuda	0.2	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6
Argentina	326.9	388.8	554.0	765.0	813.0	829.0	830.0	873.0	885.0
Armenia	21.4	28.8	38.2	36.3	34.2	36.3	36.0	37.7	36.7
Australia	143.0	138.6	174.0	229.3	247.6	258.9	255.5	241.3	269.1
Austria	86.1	89.3	94.6	111.3	124.7	127.6	129.4	134.3	
Azerbaijan	32.6	52.5	70.7	93.2	102.8	100.6	109.6	114.4	110.3
Bahamas	0.8	1.0	0.8	0.9	0.8	0.9	0.9	0.9	0.9
Bahrain	2.7	2.0	2.8	3.0	3.4	4.1	4.4	4.1	3.9
Bangladesh	125.0	185.0	188.0	354.0	480.8	499.7	381.6	559.0	559.0
Barbados	1.3	1.4	2.2	2.4	3.4	2.9	3.7	3.5	2.6
Belarus	182.3	172.4	196.0	211.4	199.3	199.6	201.6	208.0	197.5
Belgium	194.2	179.8	168.9	148.0	138.3	96.5	113.1	115.4	
Belize	1.7	1.5	2.5	2.5	2.9	3.1	3.0	2.9	2.9
Benin	4.5	10.6	9.9	14.7	15.1	15.4	15.8	16.9	9.4
Bhutan	0.4	0.2	1.1	2.8	4.8	4.0	5.8	7.1	5.5
Bolivia (Plurinational State of)	38.9	56.1	69.8	87.7	113.9	112.1	113.8	114.0	115.2
Bosnia and Herzegovina	18.2	17.6	20.8	21.7	22.2	22.0	24.1	24.8	19.5
Botswana	3.2	4.2	4.5	3.2	2.9	3.7	3.7	3.4	3.6
Brazil	1 509.5	1 674.9	1 948.0	2 260.9	2 882.7	3 030.3	3 150.1	3 260.9	3 317.2
Brunei Darussalam	4.8	5.7	7.0	7.4	8.6	8.8	9.1	9.8	9.8
Bulgaria	82.1	97.0	89.3	76.6	79.4	77.9	84.9	64.3	
Burkina Faso	39.3	45.0	55.0	61.0	65.0	67.0	69.0	68.0	62.6
Burundi	3.0	3.1	3.0	2.2	2.8	2.2	2.2	2.4	2.2
Cabo Verde	1.9	1.8	2.2	2.2	2.4	2.1	2.4	2.6	2.6
Cambodia	11.7	13.3	17.6	19.0	19.5	18.7	18.7	19.0	18.8
Cameroon	13.0	13.4	15.0	15.6	15.7	15.6	15.6	15.6	15.6
Canada	372.4	399.3	451.5	497.3	551.7	576.3	591.9	604.3	610.7
Central African Republic	2.1	2.2	3.1	2.5	2.8	2.0	2.4	2.7	2.7
Chad	6.6	6.8	7.2	4.1	4.1	4.1	4.1	4.1	4.1
Chile	109.8	126.4	190.8	225.7	227.7	247.1	220.0	228.0	229.0
China	18 911.9	21 040.6	23 820.1	26 271.6	26 954.5	27 228.2	28 853.0	30 248.6	29 747.6
Colombia	386.4	492.0	585.0	728.6	829.7	876.4	863.0	982.9	1 021.7
Comoros	1.0	1.1	1.1	1.0	1.1	1.0	1.0	1.1	1.1

TABLE 24.
PRODUCTION OF HEN EGGS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	1.1	1.3	1.6	1.5	1.6	1.5	1.5	1.5	1.5
Costa Rica	41.0	48.2	53.5	61.1	67.3	67.5	68.5	75.4	82.1
Côte d'Ivoire	33.0	28.7	32.0	57.2	56.8	66.5	66.0	66.0	66.2
Croatia	46.5	49.4	42.3	33.3	39.2	32.4	33.4	37.4	
Cuba	75.8	90.9	106.9	102.1	111.6	122.3	111.3	112.7	94.1
Cyprus	10.6	9.5	8.6	9.2	9.6	9.4	10.5	9.1	
Czechia	188.0	89.5	71.1	71.6	84.4	84.7	88.4	106.8	
Democratic People's Republic of Korea	110.0	130.0	114.0	127.0	128.0	128.0	121.6	127.4	131.6
Democratic Republic of the Congo	7.0	6.9	8.9	9.2	8.8	8.9	8.8	8.9	7.7
Denmark	74.3	79.8	76.4	84.1	87.9	77.0	82.0	89.0	93.0
Djibouti									
Dominica	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Dominican Republic	58.7	80.2	105.7	126.7	131.9	150.2	180.4	199.8	204.4
Ecuador	72.2	75.0	110.0	164.8	168.5	168.0	168.0	168.0	168.0
Egypt	176.7	235.0	291.2	355.7	406.0	403.8	540.2	450.0	413.0
El Salvador	61.3	67.4	64.7	72.0	66.9	67.8	67.0	61.3	65.4
Equatorial Guinea	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.2
Eritrea	1.7	2.0	2.2	2.6	2.5	2.2	2.2	2.2	2.1
Estonia	15.8	13.1	11.4	12.4	12.6	12.6	9.4	10.0	10.5
Eswatini	1.1	1.3	1.2	1.3	1.4	1.3	1.3	1.3	1.3
Ethiopia	28.6	35.0	39.0	54.4	55.0	51.1	53.2	50.0	51.3
Fiji	3.2	3.8	5.7	6.7	8.1	9.1	11.3	8.2	8.9
Finland	58.5	58.2	61.5	71.5	73.6	74.9	75.6	75.8	77.5
France	987.9	930.1	946.5	970.0	877.9	994.0	926.4	984.6	
Gabon	2.6	2.6	2.4	2.5	2.5	2.2	2.5	2.5	2.5
Gambia	0.7	0.8	0.8	1.0	1.0	1.0	1.0	1.1	1.0
Georgia	20.1	28.0	24.6	39.4	39.3	41.6	43.3	44.2	42.9
Germany	901.0	795.0	662.4	801.1	826.2	846.0	938.1	966.7	977.2
Ghana	22.8	25.7	36.7	46.6	46.5	51.3	48.4	48.7	49.5
Greece	116.6	110.1	99.8	105.9	87.4	74.3	80.9		
Grenada	1.0	1.1	1.4	1.4	1.4	2.1	2.8	3.0	3.0
Guatemala	81.0	191.6	219.7	259.6	273.4	275.0	211.4	268.2	268.2
Guinea	13.3	19.9	25.1	19.8	26.2	28.9	32.0	29.1	30.2
Guinea-Bissau	1.0	1.1	1.3	1.4	1.4	1.3	1.3	1.3	1.3
Guyana	1.5	1.2	0.7	1.3	1.4	1.6	2.3	3.1	2.9
Haiti	4.1	4.4	4.4	4.5	4.5	4.6	4.6	4.6	4.6
Honduras	41.2	40.9	44.2	51.5	51.6	51.6	51.6	51.6	51.6
Hungary	176.4	164.6	151.8	141.9	135.6	139.7	141.8	139.7	139.3
Iceland	2.6	2.8	2.7	3.8	4.2	4.8	5.1	4.3	4.2
India	2 035.0	2 568.0	3 378.1	4 316.6	4 847.5	5 236.9	6 291.1	6 712.7	6 710.0
Indonesia	642.0	856.6	1 121.1	1 372.8	4 632.8	4 688.1	4 753.4	5 141.6	5 156.0
Iran (Islamic Republic of)	580.0	759.0	767.0	777.1	673.7	723.6	869.4	755.6	782.9
Iraq	29.6	51.7	46.3	28.3	36.5	42.8	48.5	55.9	49.0
Ireland	32.4	37.5	45.0	49.5	54.1				

TABLE 24.
PRODUCTION OF HEN EGGS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	87.9	92.4	102.5	122.3	149.5	138.7	148.2	148.6	166.0
Italy	686.1	722.2	737.0	706.8	727.7	736.4	717.4	692.8	
Jamaica	5.8	5.1	6.0	8.1	9.9	10.4	9.0	11.2	11.9
Japan	2 535.4	2 481.0	2 515.3	2 520.9	2 601.2	2 627.8	2 639.7	2 632.9	2 574.3
Jordan	45.8	40.6	69.3	53.2	49.6	86.3	78.9	73.7	47.6
Kazakhstan	93.8	139.4	207.3	264.3	284.8	278.8	275.7	252.4	240.7
Kenya	60.7	57.9	92.6	77.4	79.4	91.1	98.5	110.4	89.6
Kiribati	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2
Kuwait	21.3	26.0	40.0	72.0	88.0	79.7	72.9	80.2	77.6
Kyrgyzstan	11.4	17.7	20.8	24.2	28.6	29.3	30.9	30.9	31.0
Lao People's Democratic Republic	10.0	13.0	15.0	16.1	15.0	15.9	16.8	17.5	16.7
Latvia	24.4	33.4	45.0	43.5	48.1	44.4	46.5	47.1	
Lebanon	43.2	45.5	42.5	51.0	44.2	42.6	39.8	42.2	41.6
Lesotho	1.5	1.6	1.7	1.1	1.4	1.4	1.4	1.4	1.4
Liberia	4.2	4.6	5.2	6.6	6.2	6.1	6.1	6.2	6.3
Libya	60.0	73.1	72.7	68.2	73.0	72.7	70.1	71.0	71.9
Lithuania	41.5	50.9	46.4	45.6	41.7	51.1	48.2	40.6	
Luxembourg	0.9	1.4	1.7	2.0	2.1	2.1	2.2	2.2	2.3
Madagascar	14.9	15.1	16.3	17.4	17.7	17.7	17.6	17.7	17.6
Malawi	19.5	20.2	20.7	22.4	23.1	23.2	23.0	23.3	23.6
Malaysia	390.6	442.0	586.6	779.2	845.2	804.8	654.5	774.2	812.9
Maldives									
Mali	20.6	20.4	23.9	25.9	15.8	14.9	22.4	18.7	13.2
Malta	5.4	5.9	5.1	4.9	5.6	5.8	5.5	5.3	
Marshall Islands									
Mauritania	4.9	5.1	5.4	5.4	5.6	5.5	5.5	5.6	5.6
Mauritius	12.5	13.0	10.2	12.0	12.4	12.8	13.5	12.0	12.2
Mexico	1 787.9	2 024.7	2 381.4	2 652.5	2 771.2	2 871.9	2 949.8	3 016.0	3 046.9
Micronesia (Federated States of)	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
Mongolia	0.4	1.2	3.0	5.6	4.8	7.6	8.9	8.5	10.4
Montenegro			3.2	5.7	6.1	6.4	5.5	5.9	5.9
Morocco	235.0	232.0	244.0	324.5	390.6	396.0	414.0	415.0	415.0
Mozambique	1.7	9.8	27.1	46.0	53.0	46.0	48.9	49.3	48.0
Myanmar	112.0	186.6	342.1	509.6	555.4	76.2	94.6	111.6	111.4
Namibia	1.6	3.0	3.4	2.5	2.9	2.6	2.6	2.6	2.6
Nauru	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nepal	22.2	28.8	31.5	43.3	66.9	74.9	76.7	80.2	73.8
Netherlands (Kingdom of the)	668.0	607.0	670.0	660.6	643.0				
New Zealand	43.0	50.9	53.1	57.5	62.5	61.9	62.8	68.2	68.0
Nicaragua	19.7	20.4	24.5	33.4	37.2	35.1	35.7	37.0	35.6
Niger	7.8	8.3	7.5	9.7	10.0	10.3	10.4	10.6	10.4
Nigeria	400.0	500.4	609.1	660.0	660.0	640.0	640.0	576.0	577.1
North Macedonia	25.5	19.0	18.8	10.0	11.0	8.9	6.9	9.0	6.4
Norway	47.8	50.7	59.6	67.4	69.8	71.1	73.5	73.1	73.5

TABLE 24.
PRODUCTION OF HEN EGGS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	6.8	9.5	9.3	18.8	21.8	22.3	25.1	26.2	28.7
Pakistan	344.1	400.9	556.4	721.3	802.9	847.7	895.4	946.3	1 000.3
Palau									
Panama	12.4	28.1	24.6	35.7	37.4	38.3	35.3	37.5	37.2
Papua New Guinea	4.5	4.8	5.0	5.2	5.5	5.5	5.5	5.5	5.2
Paraguay	67.6	107.0	128.0	103.3	137.5	130.4	124.8	130.9	128.7
Peru	162.3	182.3	285.1	386.3	415.3	452.2	488.5	497.5	504.1
Philippines	243.4	320.3	387.3	444.6	492.4	533.9	583.2	605.8	661.4
Poland	423.7	536.0	618.5	582.3	594.6	645.1	657.3	642.4	
Portugal	117.4	118.1	131.1	144.8	141.2	142.8	141.6	146.2	141.9
Qatar	2.7	4.1	4.5	4.5	5.8	8.4	7.9	9.1	9.4
Republic of Korea	478.8	514.9	590.0	724.1	715.0	756.8	735.5	734.8	735.7
Republic of Moldova	32.0	42.5	40.2	35.2	35.6	37.9	37.8	34.5	31.8
Romania	262.9	355.4	297.5	319.2	294.0	285.7	278.2	260.5	
Russian Federation	1 894.6	2 049.9	2 260.6	2 357.2	2 483.7	2 486.3	2 491.5	2 492.2	2 496.4
Rwanda	2.2	2.7	2.9	7.3	7.5	7.8	7.8	7.7	7.8
Saint Kitts and Nevis	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2
Saint Lucia	0.5	1.1	0.7	0.8	0.7	1.0	1.0	0.6	1.1
Saint Vincent and the Grenadines	0.5	0.8	0.6	0.6	0.7	0.6	0.6	0.6	0.7
Samoa	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4
San Marino									
Sao Tome and Principe	0.4	0.5	0.6	0.4	0.2	0.2	0.2	0.2	0.2
Saudi Arabia	128.5	169.5	219.3	275.0	283.0	344.8	348.9	351.0	348.2
Senegal	10.4	20.2	23.6	28.2	36.0	36.8	41.5	59.6	38.4
Serbia			69.5	103.0	87.9	89.8	88.7	85.3	85.5
Seychelles	2.2	1.2	1.1	1.4	0.9	1.3	1.3	1.2	1.3
Sierra Leone	5.2	4.3	11.3	11.4	11.8	11.5	11.6	11.6	11.6
Singapore	16.0	20.6	20.4	25.3	31.3	29.3	31.7	37.0	28.4
Slovakia	60.8	62.9	70.6	66.9	74.5	74.9	71.5	46.2	46.0
Slovenia	22.7	14.3	21.6	20.4	23.2	23.8	24.8	23.9	23.7
Solomon Islands	0.5	0.5	0.7	0.6	0.7	0.6	0.6	0.6	0.6
Somalia	2.5	2.7	2.5	2.5	2.6	2.6	2.6	2.7	2.7
South Africa	329.0	375.0	413.0	523.1	445.1	475.6	565.0	594.0	549.0
South Sudan				0.0					
Spain	657.6	708.4	812.5	805.1	850.7	839.3	864.2	912.5	
Sri Lanka	52.3	49.0	64.7	110.0	116.1	110.4	116.7	104.7	109.4
Sudan				55.0	63.0	65.0	70.0	75.4	60.7
Suriname	3.0	2.7	2.3	3.6	4.6	3.7	4.6	3.8	5.0
Sweden	102.0	102.0	111.0	127.5	137.8	141.1	149.8	149.1	128.1
Switzerland	39.8	41.1	47.0	55.2	58.7	60.6	62.3	66.3	71.5
Syrian Arab Republic	127.3	155.2	163.3	112.0	112.0	112.0	122.9	121.5	104.9
Tajikistan	1.5	5.5	13.1	20.0	18.8	24.8	30.0	42.0	42.0
Thailand	514.6	468.7	612.5	690.0	695.0	710.0	703.7	713.0	722.3
Timor-Leste	1.1	0.9	1.1	1.1	1.1	1.5	1.4	1.4	1.5

TABLE 24.
PRODUCTION OF HEN EGGS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	6.3	8.0	9.3	12.8	22.4	24.3	24.3	23.7	24.1
Tonga	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
Trinidad and Tobago	3.4	3.8	5.3	3.2	3.3	3.6	5.3	4.8	4.2
Tunisia	82.0	84.0	92.0	124.8	108.0	101.5	102.0	103.8	102.2
Türkiye	844.3	753.3	740.0	1 045.5	1 205.1	1 227.7	1 243.6	1 236.8	1 206.1
Turkmenistan	21.0	45.1	49.5	50.0	50.0	50.0	80.5	84.1	71.5
Tuvalu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uganda	20.4	22.0	43.4	28.3	44.0	45.0	45.0	44.7	44.9
Ukraine	496.6	748.1	973.9	959.5	886.5	922.3	953.5	924.3	804.5
United Arab Emirates	14.6	17.2	28.0	47.8	46.6	57.9	56.6	53.7	56.0
United Kingdom of Great Britain and Northern Ireland	568.6	609.0	658.0	699.0	752.0	777.0	791.0	774.0	806.0
United Republic of Tanzania	85.9	93.7	83.4	101.8	124.1	142.1	160.9	182.3	203.0
United States of America	5 017.0	5 350.0	5 437.0	5 756.6	6 350.8	6 518.5	6 706.8	6 658.8	6 643.7
Uruguay	37.0	41.6	52.5	44.5	49.1	48.9	56.2	58.0	56.2
Uzbekistan	68.3	109.0	169.6	308.8	352.8	415.8	432.5	433.6	434.0
Vanuatu	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Venezuela (Bolivarian Republic of)	174.6	173.6	241.6	199.7	141.9	137.3	184.2	170.8	164.1
Viet Nam	185.4	197.4	321.1	443.7	310.5	349.4	410.0	473.7	411.0
Yemen	31.1	48.4	60.6	66.7	65.5	59.6	70.4	70.4	59.7
Zambia	39.2	42.3	49.5	63.0	66.0	67.0	65.7	66.2	66.3
Zimbabwe	22.0	25.9	29.8	16.0	24.0	24.5	24.5	22.0	22.7

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 25.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 2021 (THOUSAND TONNES)

COUNTRY	MARINE FISHES	FRESHWATER FISHES	MOLLUSCS	CRUSTACEANS	DIADROMOUS FISHES	MISCELLANEOUS AQUATIC ANIMALS	TOTAL
World	69 777.3	59 879.3	24 800.0	17 937.9	8 094.6	1 563.5	182 052.5
Africa	7 114.5	5 047.1	250.1	241.1	25.8	1.8	12 680.4
Americas	15 173.4	1 563.6	2 477.2	2 681.7	1 668.1	101.3	23 665.3
Asia	34 381.1	52 659.3	20 858.5	14 335.0	3 233.9	1 426.3	126 894.0
Europe	11 690.1	595.8	1 043.2	636.2	3 055.2	31.2	17 051.8
Oceania	1 381.7	13.5	171.0	43.9	111.5	2.9	1 724.5
Afghanistan		12.6			0.0		12.6
Albania	10.6	3.0	1.0	1.6	2.0	0.0	18.3
Algeria	78.7	2.1	1.1	2.1	0.0		84.0
Andorra		0.0					0.0
Angola	502.0	27.0	1.3	1.5	0.0		531.8
Antigua and Barbuda	1.3	0.0	1.6	0.3			3.2
Argentina	431.5	18.7	178.0	225.9	2.2	0.0	856.3
Armenia		2.5		0.7	16.5		19.7
Australia	137.7	0.7	26.8	36.2	93.1	0.6	295.1
Austria		1.6		0.0	3.6		5.3
Azerbaijan	0.1	0.8		0.0	1.1		2.0
Bahamas	0.3	0.0	1.5	6.6		0.0	8.4
Bahrain	7.6	0.0	0.2	7.6	0.3	0.0	15.7
Bangladesh	468.3	3 323.5		264.3	565.2	0.0	4 621.2
Barbados	0.8	0.0	0.0	0.0			0.9
Belarus		8.9		0.0	0.2		9.1
Belgium	14.5	0.4	1.7	1.4	0.1	0.0	18.2
Belize	186.8	0.1	4.0	1.4		0.0	192.2
Benin	45.7	27.4	0.0	3.4	2.3	0.0	78.8
Bhutan		0.2			0.0		0.2
Bolivia (Plurinational State of)	0.0	10.0			1.5		11.5
Bosnia and Herzegovina	0.1	0.7	0.0		3.3		4.1
Botswana		0.2					0.2
Brazil	472.7	776.8	22.8	135.2	2.1	0.2	1 409.8
Brunei Darussalam	13.1	0.0	0.0	6.8	0.1	0.0	20.1
Bulgaria	5.9	6.8	5.6	0.0	5.9	0.0	24.2
Burkina Faso		30.4		0.1			30.5
Burundi		21.0					21.0
Cabo Verde	11.6	0.0	0.0	0.0		0.0	11.7
Cambodia	99.8	712.3	25.7	16.5	0.9	0.2	855.4
Cameroon	215.6	41.4	0.0	42.7	0.5		300.1
Canada	310.5	15.9	166.3	263.5	161.2	16.0	933.4
Central African Republic		28.2					28.2
Chad		103.1					103.1
Chile	1 829.1	0.0	520.1	48.4	995.2	29.0	3 421.7
China	10 641.5	26 941.9	17 370.5	8 497.1	569.7	1 234.5	65 255.1
Colombia	108.2	176.5	0.4	6.1	30.2		321.4
Comoros	19.4	0.0	0.0	0.0	0.0		19.4

TABLE 25.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	MARINE FISHES	FRESHWATER FISHES	MOLLUSCS	CRUSTACEANS	DIADROMOUS FISHES	MISCELLANEOUS AQUATIC ANIMALS	TOTAL
Congo	29.2	40.0	0.1	0.7	0.3		70.3
Costa Rica	29.7	13.0	0.0	2.8	0.9	0.0	46.4
Côte d'Ivoire	73.9	32.0	0.6	1.6	2.9	0.0	111.0
Croatia	81.7	4.1	1.7	1.0	0.4	0.4	89.2
Cuba	11.7	18.4	1.6	9.0	0.0	0.0	40.7
Cyprus	9.1	0.0	0.0	0.0	0.1		9.3
Czechia		23.1			1.2		24.3
Democratic People's Republic of Korea	178.3	19.8	71.7	15.5	0.1	0.3	285.6
Democratic Republic of the Congo	8.2	225.7					233.9
Denmark	415.3	0.3	44.8	13.5	32.0	1.2	507.1
Djibouti	3.1	0.0	0.0	0.0			3.1
Dominica	0.3	0.0		0.0			0.3
Dominican Republic	12.8	4.0	1.6	1.9	0.0	0.0	20.4
Ecuador	846.8	2.2	2.8	904.2	4.0	0.2	1 760.0
Egypt	582.9	1 374.8	7.6	36.0	0.7	0.0	2 002.0
El Salvador	56.5	12.7	0.1	2.5			71.8
Equatorial Guinea	5.2	1.0	0.0	0.0	0.0	0.0	6.3
Eritrea	4.0	0.0	0.1	0.5	0.0		4.6
Estonia	58.0	4.2	0.0	8.8	1.9		72.9
Eswatini		0.2		0.0			0.2
Ethiopia	0.0	61.3	0.0	0.0	0.1		61.4
Fiji	29.0	0.1	2.9	0.7	0.0	0.2	32.9
Finland	91.9	24.3		0.1	23.0		139.4
France	361.5	3.1	229.6	15.3	41.0	0.3	650.8
Gabon	18.1	11.1	0.4	0.3		0.0	29.9
Gambia	47.2	1.6	2.3	1.7			52.7
Georgia	217.5	1.3	0.0		1.5		220.4
Germany	158.9	24.1	15.6	9.5	12.2	0.0	220.3
Ghana	302.5	170.4	3.4	1.4	4.4		482.1
Greece	173.9	1.0	19.7	6.6	2.3	0.0	203.5
Grenada	1.0	0.0	0.0	0.0		0.0	1.0
Guatemala	8.5	18.4	0.0	16.7	0.1		43.7
Guinea	278.3	43.2	2.3	0.7	1.9		326.3
Guinea-Bissau	63.0	0.2	0.0	0.0			63.2
Guyana	23.2	0.1		11.1			34.4
Haiti	15.0	2.2	0.1	0.6		0.0	17.8
Honduras	12.4	30.3	0.4	35.4		1.0	79.5
Hungary		22.3		0.0	0.1		22.4
Iceland	1 034.0	0.0	0.3	4.2	52.9	1.8	1 093.2
India	2 641.5	9 948.6	280.2	1 499.6	24.6	0.0	14 394.6
Indonesia	5 803.9	4 121.6	407.2	1 418.6	864.3	49.2	12 664.7
Iran (Islamic Republic of)	661.6	303.4	3.9	70.5	218.9	0.0	1 258.2
Iraq	12.6	52.2		1.3	0.3		66.4
Ireland	179.7	0.0	38.8	16.2	13.5	0.0	248.0

TABLE 25.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	MARINE FISHES	FRESHWATER FISHES	MOLLUSCS	CRUSTACEANS	DIADROMOUS FISHES	MISCELLANEOUS AQUATIC ANIMALS	TOTAL
Israel	6.5	9.7	0.2	0.1	0.5		16.9
Italy	107.5	3.7	122.7	16.7	44.4	0.0	295.2
Jamaica	9.4	1.7	0.4	0.3			11.8
Japan	2 677.4	3.4	810.1	40.7	150.1	28.8	3 710.6
Jordan	0.3	2.6					2.8
Kazakhstan	3.9	41.8			1.3		46.9
Kenya	24.2	123.4	1.6	1.6	0.7	0.2	151.7
Kiribati	191.1	0.0	0.0	0.0	0.0	0.0	191.2
Kuwait	2.3	0.5		1.2	0.1		4.0
Kyrgyzstan		8.1			2.2		10.3
Lao People's Democratic Republic		205.9				0.1	206.0
Latvia	58.6	1.9	0.0	0.0	2.0		62.6
Lebanon	2.5	0.0	0.0	0.0	0.8		3.4
Lesotho		0.1			1.5		1.6
Liberia	24.0	0.8	0.1	0.0	0.5	0.0	25.4
Libya	29.6	0.0	1.8	0.5			32.0
Lithuania	90.2	5.8	0.0	4.9	0.5		101.3
Luxembourg		0.0					0.0
Madagascar	72.8	9.9	12.4	21.1	0.0	1.5	117.9
Malawi		180.5		0.0	0.0		180.5
Malaysia	1 089.5	111.6	83.1	189.9	72.7	24.5	1 571.2
Maldives	145.0	0.0	0.0	0.0		0.0	145.0
Mali		115.6					115.6
Malta	18.8	0.0	0.1	0.1	0.0	0.0	18.9
Marshall Islands	95.9	0.0	0.0	0.0			95.9
Mauritania	807.6	15.0	35.5	2.2		0.0	860.2
Mauritius	32.3	0.0	0.7	0.0		0.0	33.0
Mexico	1 135.4	202.2	155.1	320.6	12.4	41.7	1 867.5
Micronesia (Federated States of)	166.1	0.0	0.0	0.0	0.0	0.0	166.2
Mongolia		0.0					0.0
Montenegro	0.7	0.1	0.3	0.0	0.6		1.7
Morocco	1 260.7	15.7	125.5	11.1	0.6		1 413.7
Mozambique	246.6	103.2	3.0	24.0		0.0	376.8
Myanmar	857.0	1 686.3	0.8	48.0	1.5	1.4	2 595.0
Namibia	404.5	2.8	0.7	3.1		0.0	411.2
Nauru	120.4				0.0		120.4
Nepal		121.2			0.7		121.9
Netherlands (Kingdom of the)	261.0	3.5	57.2	15.6	2.8	0.1	340.1
New Zealand	303.2	0.0	133.7	3.9	17.3	1.1	459.2
Nicaragua	26.3	0.5	16.4	36.8		6.2	86.3
Niger		47.7					47.7
Nigeria	382.7	638.3	4.8	55.0			1 080.9
North Macedonia		0.7			3.0		3.7
Norway	2 119.4	0.0	2.6	277.7	1 660.9	0.0	4 060.6

TABLE 25.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	MARINE FISHES	FRESHWATER FISHES	MOLLUSCS	CRUSTACEANS	DIADROMOUS FISHES	MISCELLANEOUS AQUATIC ANIMALS	TOTAL
Oman	907.3	0.4	13.9	2.3			923.8
Pakistan	301.1	314.1	13.2	27.8	1.6	2.8	660.6
Palau	0.8	0.0	0.0	0.0	0.0	0.0	0.8
Panama	175.3	1.5	0.0	7.0	0.0	0.0	183.8
Papua New Guinea	175.6	12.5	0.0	1.1	1.0	0.0	190.2
Paraguay		31.7		0.0			31.7
Peru	5 887.7	25.6	636.9	74.6	51.6	1.0	6 677.5
Philippines	1 557.5	442.0	146.3	170.3	450.9	1.0	2 768.0
Poland	181.8	42.3	0.1	0.0	22.0		246.2
Portugal	165.4	0.0	28.7	2.1	1.0	0.0	197.3
Qatar	15.5	0.0	0.2	0.9	0.0		16.7
Republic of Korea	1 085.6	12.5	605.8	125.4	31.3	28.9	1 889.4
Republic of Moldova		12.9		0.0	0.1		12.9
Romania	0.3	11.5	2.9	0.0	3.4	0.0	18.1
Russian Federation	4 108.4	326.8	132.0	125.6	736.8	26.2	5 455.7
Rwanda		42.4					42.4
Saint Kitts and Nevis	0.2	0.0	0.0	0.1			0.4
Saint Lucia	1.4	0.0	0.0	0.0			1.4
Saint Vincent and the Grenadines	1.1	0.0	0.4	0.1		0.0	1.6
Samoa	6.8	0.0	1.4	0.3		0.7	9.2
San Marino		0.0					0.0
Sao Tome and Principe	5.9	0.0	0.1	0.0			6.0
Saudi Arabia	64.9	29.5	1.5	71.9	14.1	0.0	181.9
Senegal	460.0	27.1	19.0	9.0	0.0		515.1
Serbia		8.1			1.6		9.7
Seychelles	139.2	0.0	0.0	0.0		0.0	139.2
Sierra Leone	193.1	2.1	0.6	1.5	7.8		205.0
Singapore	2.0	0.5	0.4	0.2	2.1	0.4	5.5
Slovakia		3.3			0.9		4.1
Slovenia	0.2	0.4	0.4	0.0	1.0		2.0
Solomon Islands	49.8	0.0	0.0	0.0		0.0	49.8
Somalia	28.7	0.2	0.6	0.5			30.0
South Africa	477.9	1.2	9.2	3.2	1.1	0.0	492.6
South Sudan		32.5					32.5
Spain	797.9	1.3	245.5	19.7	20.6	0.7	1 085.8
Sri Lanka	286.1	97.1	8.5	34.6	0.5	3.9	430.7
Sudan	2.6	41.9					44.5
Suriname	24.2	0.9		7.1			32.2
Sweden	147.7	5.6	3.5	4.0	14.4		175.2
Switzerland		1.6		0.0	2.2		3.8
Syrian Arab Republic	1.7	4.9	0.0	0.1			6.7
Tajikistan		4.2			0.2		4.4
Thailand	1 057.4	515.6	209.0	535.5	50.2	34.2	2 402.0

TABLE 25.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	MARINE FISHES	FRESHWATER FISHES	MOLLUSCS	CRUSTACEANS	DIADROMOUS FISHES	MISCELLANEOUS AQUATIC ANIMALS	TOTAL
Timor-Leste	4.9	0.4	0.0	0.0	0.0	0.0	5.3
Togo	11.6	7.2	0.0	0.0	0.1		18.9
Tonga	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Trinidad and Tobago	12.2	0.0	0.0	0.8			13.1
Tunisia	128.4	1.3	11.1	9.1	0.3	0.0	150.2
Türkiye	566.0	23.7	32.0	6.6	170.9	0.7	799.8
Turkmenistan	0.0	0.5		0.0	14.7		15.2
Tuvalu	31.1	0.0			0.0		31.1
Uganda		760.5		0.0			760.5
Ukraine	6.5	38.1	5.2	22.4	6.8	0.4	79.4
United Arab Emirates	62.3	0.1	0.3	0.7	0.5		63.9
United Kingdom of Great Britain and Northern Ireland	507.1	0.5	74.6	63.3	219.1	0.0	864.7
United Republic of Tanzania	89.3	439.4	4.4	5.5	0.0	0.0	538.6
United States of America	3 113.0	163.0	638.6	398.4	406.4	4.2	4 723.7
Uruguay	48.6	10.9	6.2	0.7	0.1	0.0	66.4
Uzbekistan		171.0			0.9		171.9
Vanuatu	49.9	0.0	6.0	0.0	0.0	0.0	55.9
Venezuela (Bolivarian Republic of)	172.4	26.2	21.6	51.8	0.2	0.0	272.2
Viet Nam	2 804.1	3 411.4	764.3	1 278.6	2.7	15.3	8 276.4
Yemen	120.9	0.0	9.0	1.3		0.0	131.3
Zambia		168.5		0.0			168.5
Zimbabwe		27.8		0.0	0.0		27.8

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity

TABLE 26.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MODE (THOUSAND TONNES)

COUNTRY	CAPTURE PRODUCTION				AQUACULTURE PRODUCTION			
	2000	2010	2015	2021	2000	2010	2015	2021
World	93 563.8	87 188.8	91 573.5	91 190.7	32 420.3	57 759.1	72 893.5	90 861.8
Africa	6 772.4	7 793.3	8 885.7	10 358.4	399.6	1 288.9	1 789.0	2 322.0
Americas	25 754.5	17 571.2	17 549.2	19 199.9	1 423.4	2 514.6	3 279.2	4 465.4
Asia	43 563.8	46 711.4	49 554.7	46 634.2	28 422.5	51 233.0	64 680.1	80 259.8
Europe	16 180.0	13 876.9	14 164.9	13 484.0	2 052.9	2 533.0	2 967.5	3 567.8
Oceania	1 088.6	1 217.2	1 361.6	1 477.7	121.8	189.7	177.8	246.8
Afghanistan	1.0	1.0	1.8	1.5	0.3	2.3	5.5	11.1
Albania	3.3	5.1	7.9	9.6	0.3	2.5	3.5	8.6
Algeria	113.2	93.5	95.8	79.2	0.4	1.8	1.3	4.8
Andorra	0.0	0.0	0.0	0.0				
Angola	239.4	310.0	495.2	529.0	0.0	0.3	0.9	2.8
Antigua and Barbuda	1.7	2.2	3.2	3.2	0.0	0.0	0.0	0.0
Argentina	921.8	811.7	814.3	852.6	1.8	2.7	3.7	3.7
Armenia	1.1	0.6	8.1	0.8	0.9	5.0	15.1	18.9
Australia	192.5	179.0	149.7	168.9	32.1	75.7	83.1	126.2
Austria	0.4	0.4	0.4	0.4	2.8	2.2	3.5	4.9
Azerbaijan	18.8	1.1	0.6	1.5	0.1	1.0	0.6	0.5
Bahamas	15.4	16.2	11.3	8.4	0.0	0.0	0.0	0.0
Bahrain	11.7	13.5	15.5	15.7	0.0	0.0	0.0	0.0
Bangladesh	1 004.3	1 726.6	1 623.8	1 982.5	657.1	1 308.5	2 060.4	2 638.7
Barbados	3.2	3.3	1.5	0.8	0.0	0.0	0.0	0.0
Belarus	0.6	0.9	0.9	0.6	6.7	16.3	9.1	8.5
Belgium	29.8	22.4	24.7	17.9	1.9	0.5	0.1	0.2
Belize	30.3	399.9	97.5	191.6	3.6	7.4	4.2	0.6
Benin	32.3	39.8	36.5	74.6	0.0	0.5	4.6	4.2
Bhutan	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Bolivia (Plurinational State of)	6.1	6.9	7.0	7.6	0.4	0.9	3.2	3.9
Bosnia and Herzegovina	0.3	0.3	0.3	0.3	0.0	7.6	4.5	3.8
Botswana	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.2
Brazil	666.8	785.4	710.4	760.6	172.5	411.0	577.6	649.2
Brunei Darussalam	2.5	2.4	3.4	15.3	0.1	0.5	1.0	4.8
Bulgaria	8.7	10.8	8.8	9.0	3.7	7.9	13.5	15.2
Burkina Faso	8.5	14.5	20.8	29.7	0.0	0.2	0.2	0.8
Burundi	17.3	17.3	20.1	19.6	0.1	0.0	1.3	1.5
Cabo Verde	10.6	21.4	39.4	11.6	0.0	0.0	0.0	0.0
Cambodia	281.6	490.0	608.4	508.1	14.4	60.0	143.0	347.4
Cameroon	112.1	181.0	224.0	290.3	0.1	0.6	2.0	9.8
Canada	998.2	933.5	856.2	742.0	127.7	162.3	187.4	191.4
Central African Republic	15.0	35.0	28.0	28.0	0.1	0.1	0.2	0.2
Chad	83.2	91.0	100.0	103.0	0.0	0.0	0.2	0.1
Chile	4 300.2	2 679.7	1 785.9	1 995.2	391.6	701.1	1 045.8	1 426.5
China	15 901.0	15 829.9	17 522.3	13 756.1	21 770.9	35 828.1	44 065.0	51 499.1
Colombia	137.1	81.2	81.9	128.9	61.8	80.4	95.9	192.5

TABLE 26.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MODE (THOUSAND TONNES) (CONTINUED)

COUNTRY	CAPTURE PRODUCTION				AQUACULTURE PRODUCTION			
	2000	2010	2015	2021	2000	2010	2015	2021
Comoros	12.0	63.4	11.8	19.4				
Congo	46.0	65.2	69.3	69.4	0.1	0.3	0.6	0.9
Costa Rica	35.2	17.9	14.8	29.1	9.7	26.8	23.6	17.3
Côte d'Ivoire	80.3	48.0	98.5	105.3	1.2	1.7	4.0	5.7
Croatia	21.1	52.8	73.9	62.4	6.9	15.7	16.9	26.8
Cuba	68.4	24.0	25.6	18.1	32.8	31.4	32.1	22.7
Cyprus	68.3	1.4	1.5	1.4	1.9	4.2	5.5	7.9
Czechia	4.7	4.0	3.8	3.3	19.5	20.4	20.2	21.0
Democratic People's Republic of Korea	212.9	217.5	220.0	208.1	66.7	64.5	65.8	77.6
Democratic Republic of the Congo	244.6	224.5	230.7	228.7	2.1	3.0	3.0	5.2
Denmark	1 534.1	828.1	869.3	466.5	43.6	35.2	35.8	40.6
Djibouti	0.8	1.6	2.0	3.1				
Dominica	1.2	0.7	1.0	0.3	0.0	0.0	0.0	0.0
Dominican Republic	11.0	14.5	11.9	17.7	2.1	1.3	2.3	2.7
Ecuador	596.5	399.9	632.6	863.6	61.3	272.7	426.7	896.3
Egypt	384.3	385.2	344.1	425.8	340.1	919.6	1 174.8	1 576.2
El Salvador	9.6	39.6	54.5	59.0	0.3	4.5	6.7	12.7
Equatorial Guinea	3.6	7.4	6.4	6.3	0.0	0.0	0.0	0.0
Eritrea	12.6	3.6	6.2	4.6	0.0	0.0	0.0	0.0
Estonia	113.1	95.4	72.8	72.1	0.2	0.6	0.8	0.8
Eswatini	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
Ethiopia	15.7	18.1	45.5	60.7	0.0	0.0	0.1	0.7
Fiji	40.7	41.8	41.0	32.8	1.8	0.2	0.1	0.1
Finland	156.4	156.1	182.9	125.0	15.4	11.8	14.9	14.4
France	626.1	428.9	495.6	452.3	266.8	203.0	163.3	198.5
Gabon	47.8	32.7	33.0	29.9	0.6	0.1	0.0	0.1
Gambia	29.0	46.6	56.0	52.7	0.0	0.0	0.0	0.0
Georgia	1.8	46.0	22.5	217.6	0.1	0.9	1.7	2.8
Germany	204.1	243.1	261.7	187.7	65.9	40.7	29.9	32.6
Ghana	454.3	351.5	344.3	392.8	5.0	10.2	44.6	89.4
Greece	99.3	70.2	65.4	59.6	95.4	121.2	107.0	143.9
Grenada	1.7	2.2	2.5	1.0	0.0	0.0	0.0	0.0
Guatemala	39.2	22.3	15.2	11.1	4.0	22.8	22.2	32.6
Guinea	91.5	113.5	184.7	325.1	0.0	0.2	0.4	1.2
Guinea-Bissau	6.3	6.6	21.2	63.2	0.0	0.0	0.0	0.0
Guyana	48.9	45.2	36.6	34.2	0.6	0.5	0.4	0.1
Haiti	7.4	13.7	16.5	16.2	0.0	0.4	1.2	1.6
Honduras	17.9	12.1	10.8	16.3	10.1	27.5	55.1	63.3
Hungary	7.1	6.2	5.9	4.6	12.9	14.2	17.3	17.8
Iceland	1 982.5	1 060.6	1 319.6	1 040.0	3.6	5.1	8.4	53.1
India	3 666.4	4 689.3	4 843.4	4 991.6	1 942.5	3 785.8	5 341.0	9 403.0
Indonesia	4 115.1	5 386.3	6 685.7	7 149.5	788.5	2 304.8	4 342.5	5 515.2
Iran (Islamic Republic of)	384.0	443.7	631.1	779.5	40.6	220.0	346.1	478.7

TABLE 26.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MODE (THOUSAND TONNES) (CONTINUED)

COUNTRY	CAPTURE PRODUCTION				AQUACULTURE PRODUCTION			
	2000	2010	2015	2021	2000	2010	2015	2021
Iraq	20.8	19.3	27.3	43.7	1.7	20.3	24.8	22.7
Ireland	276.3	318.9	234.9	206.2	51.2	46.5	39.6	41.9
Israel	5.8	2.6	2.1	2.0	20.1	19.9	19.6	14.9
Italy	302.2	233.6	197.6	149.3	213.5	153.5	148.8	145.9
Jamaica	5.5	15.4	17.0	11.0	4.5	4.0	0.6	0.9
Japan	5 072.5	4 091.1	3 406.3	3 089.0	762.8	718.3	705.5	621.6
Jordan	0.6	0.5	0.6	0.7	0.6	0.5	1.0	2.1
Kazakhstan	36.6	46.8	40.5	41.5	0.8	0.2	0.7	5.4
Kenya	215.5	140.4	165.0	130.8	0.5	12.2	18.7	21.0
Kiribati	35.4	43.1	146.0	191.2	0.0	0.0	0.0	0.0
Kuwait	7.0	6.4	3.9	3.5	0.4	0.3	0.3	0.5
Kyrgyzstan	0.1	0.0	0.0	0.0	0.1	0.4	1.1	10.3
Lao People's Democratic Republic	29.3	30.9	62.6	71.0	42.1	82.1	96.0	135.0
Latvia	136.4	164.8	81.3	61.7	0.3	0.5	0.9	0.9
Lebanon	3.7	3.4	3.6	2.6	0.4	1.2	1.0	0.8
Lesotho	0.0	0.0	0.1	0.1	0.0	0.3	1.0	1.5
Liberia	11.5	11.7	14.0	25.2	0.0	0.1	0.2	0.3
Libya	50.0	50.0	25.7	32.0	0.0	0.1	0.0	0.0
Lithuania	79.0	149.9	85.1	96.2	2.0	3.2	4.5	5.1
Luxembourg	0.0	0.0	0.0	0.0				
Madagascar	120.1	128.8	114.0	113.1	7.3	6.9	7.3	4.7
Malawi	50.0	98.3	141.6	170.6	0.5	2.6	5.0	9.9
Malaysia	1 289.3	1 433.4	1 492.0	1 333.2	151.8	373.4	246.2	238.1
Maldives	119.4	122.8	127.3	145.0				
Mali	109.9	100.0	92.5	107.1	0.0	2.1	2.4	8.5
Malta	1.1	1.8	2.6	2.5	1.7	6.9	10.8	16.4
Marshall Islands	8.3	59.8	89.7	95.9	0.0	0.0	0.0	0.0
Mauritania	114.5	276.2	403.8	860.2				
Mauritius	9.6	7.4	15.8	30.6	0.1	0.6	0.8	2.3
Mexico	1 315.7	1 526.5	1 467.3	1 620.6	53.9	126.2	211.6	246.9
Micronesia (Federated States of)	23.3	31.4	71.4	166.2	0.0	0.0	0.0	0.0
Mongolia	0.4	0.1	0.1	0.0				
Montenegro	0.0	1.3	1.5	0.8	0.0	0.7	0.8	0.9
Morocco	902.8	1 136.2	1 364.9	1 411.8	1.9	0.7	1.1	1.9
Mozambique	41.5	162.6	286.7	373.6	0.0	0.9	1.1	3.2
Myanmar	1 093.2	1 961.2	1 970.5	1 665.7	98.9	850.7	997.3	929.2
Namibia	589.8	381.9	509.9	410.8	0.1	0.6	0.5	0.3
Nauru	0.4	0.6	0.3	120.4	0.0	0.0	0.0	0.0
Nepal	16.7	21.5	21.5	21.0	15.0	28.2	48.0	100.9
Netherlands (Kingdom of the)	495.8	434.4	384.5	299.5	75.2	67.0	62.8	40.6
New Zealand	553.4	436.2	433.2	342.4	85.6	110.6	91.3	116.8
Nicaragua	22.5	41.0	41.5	55.3	5.4	17.0	24.5	31.0
Niger	16.3	40.0	27.0	47.2	0.0	0.1	0.3	0.5

TABLE 26.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MODE (THOUSAND TONNES) (CONTINUED)

COUNTRY	CAPTURE PRODUCTION				AQUACULTURE PRODUCTION			
	2000	2010	2015	2021	2000	2010	2015	2021
Nigeria	441.4	617.0	710.3	805.2	25.7	200.5	316.7	275.6
North Macedonia	0.2	0.2	0.4	0.5	1.2	1.5	1.0	3.2
Norway	2 699.4	2 680.0	2 304.8	2 395.7	491.3	1 019.8	1 380.8	1 664.9
Oman	120.4	163.9	257.0	922.1	0.0	0.1	0.2	1.7
Pakistan	598.7	455.5	509.5	496.1	12.5	140.1	151.2	164.5
Palau	1.1	1.0	0.8	0.8	0.0	0.0	0.0	0.0
Panama	227.6	182.1	145.0	177.1	1.8	6.6	9.6	6.7
Papua New Guinea	109.9	226.1	234.7	188.4	0.2	1.6	1.7	1.8
Paraguay	28.0	17.8	17.0	17.6	0.1	3.0	8.5	14.2
Peru	10 657.3	4 301.6	4 824.1	6 526.7	6.6	89.0	91.0	150.8
Philippines	1 917.2	2 498.8	2 150.5	1 839.2	393.9	744.7	781.8	928.8
Poland	217.7	189.7	205.4	201.4	35.8	30.8	37.0	44.8
Portugal	190.9	223.0	188.5	177.8	7.5	8.2	9.6	19.5
Qatar	7.1	13.8	15.2	16.6	0.0	0.0	0.0	0.1
Republic of Korea	1 825.2	1 722.0	1 650.2	1 307.5	293.4	475.6	479.4	582.0
Republic of Moldova	0.0	0.0	0.1	0.0	1.7	8.8	11.2	12.9
Romania	7.4	2.7	9.3	6.4	9.7	9.0	11.0	11.7
Russian Federation	3 973.5	4 069.9	4 457.4	5 160.2	74.1	120.4	152.0	295.5
Rwanda	6.7	13.0	29.3	32.1	0.3	0.1	1.6	10.3
Saint Kitts and Nevis	1.0	21.8	100.4	0.4	0.0	0.0	0.0	0.0
Saint Lucia	2.0	2.0	2.0	1.4	0.0	0.0	0.0	0.0
Saint Vincent and the Grenadines	22.8	66.4	26.1	1.6				
Samoa	8.6	12.8	8.7	9.2	0.0	0.0	0.0	0.0
San Marino	0.0	0.0	0.0	0.0				
Sao Tome and Principe	3.7	4.8	11.4	6.0				
Saudi Arabia	49.1	65.1	68.1	67.5	6.0	26.4	30.0	114.5
Senegal	435.8	409.7	425.4	514.0	0.1	0.1	1.2	1.2
Serbia	0.0	4.8	3.2	2.4	0.0	8.2	7.4	7.3
Seychelles	32.8	87.1	105.4	139.2	0.4	0.0	0.0	0.0
Sierra Leone	74.7	200.0	202.1	204.9	0.0	0.1	0.1	0.1
Singapore	5.4	1.7	1.3	0.3	5.1	3.5	6.9	5.2
Slovakia	1.4	1.6	2.0	1.8	0.9	0.7	1.3	2.3
Slovenia	1.9	0.9	0.3	0.3	1.2	0.8	1.6	1.7
Solomon Islands	19.5	37.4	67.8	49.8	0.0	0.0	0.0	0.0
Somalia	24.2	30.0	30.0	30.0				
South Africa	643.8	628.8	565.2	485.0	2.8	3.1	5.4	7.6
South Sudan	0.0	0.0	37.0	32.5	0.0	0.0	0.0	0.0
Spain	1 056.2	975.3	975.7	805.9	311.4	256.8	296.6	279.9
Sri Lanka	296.1	389.1	467.5	380.0	4.4	8.1	31.3	50.8
Sudan	0.0	0.0	33.0	34.6	0.0	0.0	7.0	9.9
Suriname	24.2	35.1	39.5	32.1	0.3	0.1	0.1	0.0
Sweden	338.5	212.0	212.0	160.0	4.8	10.6	12.0	15.3
Switzerland	1.7	2.1	2.0	1.5	1.1	1.3	1.6	2.4

TABLE 26.
CAPTURE FISHERIES AND AQUACULTURE PRODUCTION BY MODE (THOUSAND TONNES) (CONTINUED)

COUNTRY	CAPTURE PRODUCTION				AQUACULTURE PRODUCTION			
	2000	2010	2015	2021	2000	2010	2015	2021
Syrian Arab Republic	6.6	6.6	3.8	4.3	6.8	8.6	2.5	2.4
Tajikistan	0.2	0.7	1.2	2.4	0.1	0.5	0.5	2.0
Thailand	2 997.1	1 810.6	1 506.4	1 412.1	738.2	1 286.1	921.0	989.9
Timor-Leste	3.6	3.2	3.2	4.9	0.0	0.1	0.2	0.4
Togo	22.3	27.5	21.5	18.0	0.0	0.1	0.1	0.9
Tonga	3.8	2.1	1.8	1.2	0.0	0.0	0.0	0.0
Trinidad and Tobago	14.2	13.9	12.1	13.1	0.0	0.0	0.0	0.0
Tunisia	94.7	93.2	117.0	124.2	1.6	5.4	14.6	26.0
Türkiye	503.3	485.9	431.9	328.2	79.0	167.7	240.3	471.7
Turkmenistan	12.2	15.0	15.0	15.0	0.1	0.0	0.1	0.2
Tuvalu	0.5	11.5	6.1	31.1	0.0	0.0	0.0	0.0
Uganda	219.4	413.8	396.2	622.0	0.8	95.0	117.6	138.6
Ukraine	391.8	209.8	120.5	62.5	31.0	22.9	22.2	16.9
United Arab Emirates	105.5	70.6	63.3	61.2	0.0	0.2	0.8	2.7
United Kingdom of Great Britain and Northern Ireland	754.5	612.6	706.1	634.4	152.5	201.4	223.0	230.3
United Republic of Tanzania	339.9	376.5	408.0	513.2	0.2	0.5	4.0	25.4
United States of America	4 746.3	4 391.7	4 993.1	4 275.4	456.8	496.7	426.0	448.2
Uruguay	113.3	74.2	59.5	66.3	0.1	0.1	0.2	0.1
Uzbekistan	3.3	4.1	23.0	53.0	5.7	6.7	36.9	118.9
Vanuatu	70.5	101.2	81.7	55.9	0.0	0.1	0.0	0.0
Venezuela (Bolivarian Republic of)	359.6	218.9	240.6	223.1	13.4	18.2	18.9	49.1
Viet Nam	1 629.6	2 249.7	2 860.6	3 540.3	498.5	2 683.1	3 462.4	4 736.1
Yemen	114.8	163.9	177.4	131.3	0.0	0.2	0.0	0.0
Zambia	66.7	76.4	90.1	105.1	4.2	10.3	22.8	63.4
Zimbabwe	13.1	14.6	24.8	22.7	2.2	5.5	21.2	5.1

Source: FAO. 2023. Fisheries and Aquaculture: Global production by production source Quantity (1950 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/global_production/global_production_quantity

TABLE 27.
PRODUCTION OF ROUNDWOOD BY TYPE (THOUSAND M³)

COUNTRY	WOOD FUEL		INDUSTRIAL ROUNDWOOD, CONIFEROUS		INDUSTRIAL ROUNDWOOD, NON-CONIFEROUS		ROUNDWOOD	
	2000	2021	2000	2021	2000	2021	2000	2021
World	1 795 245	1 954 150	1 043 599	1 192 126	646 068	856 568	3 484 911	4 002 844
Africa	551 284	719 714	13 357	12 578	57 955	65 175	622 596	797 467
Americas	314 350	345 173	518 504	521 257	260 867	267 221	1 093 722	1 133 651
Asia	807 816	702 117	93 136	85 933	179 647	380 201	1 080 599	1 168 251
Europe	109 130	177 338	386 501	519 297	132 613	125 827	628 243	822 461
Oceania	12 665	9 808	32 101	53 060	14 985	18 144	59 751	81 013
Afghanistan	1 279	1 995	999	999	761	761	3 039	3 755
Albania	324	885	68	80	55	57	447	1 022
Algeria	7 074	8 844	81	116	81	23	7 236	8 982
Andorra		0						0
Angola	3 163	5 077			1 096	1 250	4 259	6 327
Antigua and Barbuda								
Argentina	2 993	4 079	4 140	7 362	3 570	5 536	10 704	16 977
Armenia	57	725	0	0	0	1	57	726
Australia	6 774	3 915	12 474	16 766	11 933	10 331	31 181	31 012
Austria	2 860	4 900	9 607	12 671	809	850	13 276	18 420
Azerbaijan	32	422	0	0	32	3	64	425
Bahamas	31	34	15	15	2	2	48	51
Bahrain	6	7					6	7
Bangladesh	27 836	25 024			623	405	28 459	25 429
Barbados	5	5			5	6	10	11
Belarus	928	10 297	3 011	13 434	2 197	3 558	6 136	27 290
Belgium	550	893	2 780	3 315	1 180	1 004	4 510	5 212
Belize	126	126	18	8	44	33	188	167
Benin	5 910	6 668			332	385	6 242	7 053
Bhutan	4 221	5 358	46	33	88	92	4 355	5 483
Bolivia (Plurinational State of)	2 142	2 516	0	40	468	1 486	2 610	4 042
Bosnia and Herzegovina	950	1 488	2 191	2 009	1 141	728	4 282	4 225
Botswana	635	700			105	105	740	805
Brazil	132 408	128 712	39 666	48 688	63 328	114 607	235 402	292 007
Brunei Darussalam	12	12	0	0	115	71	126	82
Bulgaria	2 107	2 357	1 294	2 228	1 383	944	4 784	5 529
Burkina Faso	7 402	14 700			594	1 171	7 996	15 871
Burundi	5 420	5 999	220	138	547	487	6 187	6 624
Cabo Verde	147	186					147	186
Cambodia	10 119	6 998	0	13	179	309	10 298	7 320
Cameroon	9 111	10 801			1 894	3 370	11 005	14 172
Canada	2 927	1 486	163 473	116 459	35 445	27 353	201 845	145 297
Central African Republic	2 000	2 000			955	845	2 955	2 845
Chad	5 885	8 319			761	761	6 646	9 080
Chile	12 131	15 924	18 806	29 809	5 631	14 063	36 568	59 795
China	227 627	155 816	61 814	29 458	34 205	152 245	323 646	337 519
Colombia	10 893	6 207	373	628	1 791	1 239	13 057	8 075

TABLE 27.
PRODUCTION OF ROUNDWOOD BY TYPE (THOUSAND M³) (CONTINUED)

COUNTRY	WOOD FUEL		INDUSTRIAL ROUNDWOOD, CONIFEROUS		INDUSTRIAL ROUNDWOOD, NON-CONIFEROUS		ROUNDWOOD	
	2000	2021	2000	2021	2000	2021	2000	2021
Comoros	201	343			25	25	226	367
Congo	1 153	1 573		0	1 362	1 933	2 515	3 507
Costa Rica	3 486	3 232	0	100	987	1 118	4 473	4 450
Côte d'Ivoire	8 529	9 281			3 416	2 400	11 945	11 681
Croatia	976	2 130	464	741	2 229	2 115	3 669	4 986
Cuba	963	1 141	220	190	636	421	1 819	1 752
Cyprus	5	7	15	3	1	0	21	10
Czechia	940	6 726	12 191	25 856	1 310	765	14 441	33 347
Democratic People's Republic of Korea	5 503	6 315	1 100	1 100	400	400	7 003	7 815
Democratic Republic of the Congo	64 903	88 930			3 564	4 611	68 467	93 541
Denmark	699	2 061	3 578	1 556	384	225	4 661	3 842
Djibouti	293	415			0	0	293	415
Dominica	8	7					8	7
Dominican Republic	556	980	0	75	6	36	562	1 091
Ecuador	5 363	5 060	0	373	546	2 067	5 909	7 500
Egypt	16 182	17 926		9	268	259	16 450	18 194
El Salvador	4 518	4 080	0	0	682	682	5 200	4 762
Equatorial Guinea	447	447			689	1 300	1 136	1 747
Eritrea	2 244	1 001			2	22	2 247	1 023
Estonia	1 640	3 888	4 980	3 849	2 290	2 346	8 910	10 083
Eswatini	885	1 330	864	864	70	70	1 819	2 264
Ethiopia	87 471	115 640	8	13	2 451	2 922	89 930	118 575
Fiji	37	37	342	560	107	240	486	837
Finland	4 115	8 911	44 369	48 629	5 778	9 174	54 262	66 714
France	31 046	26 950	26 305	18 271	13 171	7 918	70 522	53 139
Gabon	515	1 070			2 584	2 919	3 099	3 989
Gambia	603	783		1	113	117	715	900
Georgia	280	353	11	146	84	45	375	544
Germany	8 804	22 799	41 227	55 495	7 995	3 884	58 026	82 178
Ghana	26 725	51 453		50	998	1 987	27 723	53 490
Greece	1 601	947	411	189	232	223	2 245	1 359
Grenada								
Guatemala	14 540	21 982	371	189	96	465	15 007	22 635
Guinea	11 444	12 464			651	651	12 095	13 115
Guinea-Bissau	2 230	2 998			135	132	2 364	3 130
Guyana	880	817	0	0	289	317	1 169	1 134
Haiti	1 964	2 151	100	100	139	139	2 203	2 390
Honduras	8 732	8 095	744	840	12	5	9 488	8 940
Hungary	2 597	2 516	609	858	2 696	1 598	5 902	4 972
Iceland	0	1	0	1	0	0	0	2
India	277 380	300 059	5 570	6 148	35 603	43 369	318 553	349 576
Indonesia	88 981	36 878	206	7	48 643	88 569	137 830	125 453
Iran (Islamic Republic of)	54	30			1 060	416	1 114	446

TABLE 27.
PRODUCTION OF ROUNDWOOD BY TYPE (THOUSAND M³) (CONTINUED)

COUNTRY	WOOD FUEL		INDUSTRIAL ROUNDWOOD, CONIFEROUS		INDUSTRIAL ROUNDWOOD, NON-CONIFEROUS		ROUNDWOOD	
	2000	2021	2000	2021	2000	2021	2000	2021
Iraq	118	118			59	59	177	177
Ireland	73	285	2 581	3 616	19	11	2 673	3 912
Israel	8	2	61	23	12	2	81	27
Italy	9 187	10 839	1 098	4 125	2 551	877	12 836	15 841
Jamaica	599	493	6	1	277	151	882	645
Japan	134	9 350	14 520	21 485	3 467	2 224	18 121	33 059
Jordan	222	388			4	4	226	392
Kazakhstan	474	226	140	39	32	228	645	493
Kenya	19 658	24 948	706	530	1 271	439	21 635	25 917
Kiribati	2	3					2	3
Kuwait	15	21					15	21
Kyrgyzstan	33	37	4	32	9	7	46	75
Lao People's Democratic Republic	5 872	5 658	0	0	567	1 432	6 439	7 090
Latvia	1 680	2 940	8 676	8 661	3 948	4 342	14 304	15 943
Lebanon	19	19	7	7	0	0	26	26
Lesotho	2 022	2 148		14			2 022	2 162
Liberia	4 725	10 091			1 114	463	5 839	10 554
Libya	823	1 072			116	116	939	1 188
Lithuania	1 450	1 885	2 430	3 115	1 620	1 614	5 500	6 614
Luxembourg	28	46	106	174	120	61	254	281
Madagascar	9 637	15 473	92	100	34	74	9 763	15 647
Malawi	4 964	6 116	150	100	1 250	1 330	6 364	7 546
Malaysia	3 346	2 347	0	22	24 380	14 768	27 726	17 138
Maldives	13	17					13	17
Mali	4 731	5 889			413	817	5 143	6 706
Malta	0	0	0	0	0	0	0	0
Marshall Islands								
Mauritania	1 428	2 293			6	32	1 434	2 325
Mauritius	10	4	5	1	3	0	18	5
Mexico	37 561	38 353	7 291	6 094	814	1 557	45 666	46 004
Micronesia (Federated States of)	2	3					2	3
Mongolia	553	733	87	160	4	2	644	895
Montenegro		317		660		135		1 113
Morocco	6 969	6 558	207	93	362	146	7 538	6 797
Mozambique	16 724	16 724	57	10	1 262	1 974	18 043	18 708
Myanmar	34 471	39 141		360	3 612	4 000	38 083	43 501
Namibia	921	2 136					921	2 136
Nauru								
Nepal	12 763	11 536	0	0	1 260	1 300	14 023	12 836
Netherlands (Kingdom of the)	160	2 362	645	452	234	196	1 039	3 010
New Zealand	0	0	19 225	35 669	54	300	19 279	35 969
Nicaragua	5 756	6 173	173	89	55	24	5 984	6 285
Niger	7 805	12 336			579	701	8 384	13 037

TABLE 27.
PRODUCTION OF ROUNDWOOD BY TYPE (THOUSAND M³) (CONTINUED)

COUNTRY	WOOD FUEL		INDUSTRIAL ROUNDWOOD, CONIFEROUS		INDUSTRIAL ROUNDWOOD, NON-CONIFEROUS		ROUNDWOOD	
	2000	2021	2000	2021	2000	2021	2000	2021
Nigeria	59 349	67 240			9 418	10 022	68 767	77 262
North Macedonia	875	580	68	53	109	67	1 052	700
Norway	678	1 705	7 417	11 153	61	299	8 156	13 157
Oman	26	51					26	51
Pakistan	30 880	29 533	1 510	1 542	1 170	2 518	33 560	33 593
Palau								
Panama	1 280	963	3	7	44	400	1 327	1 370
Papua New Guinea	5 533	5 533	50	40	2 259	4 032	7 842	9 605
Paraguay	5 551	7 819			4 044	4 044	9 595	11 863
Peru	7 777	6 581	10	7	1 501	1 320	9 288	7 908
Philippines	13 615	11 167	0	40	3 079	3 813	16 694	15 019
Poland	2 464	4 519	19 164	31 131	6 031	7 456	27 659	43 106
Portugal	600	2 297	4 982	3 216	5 249	8 985	10 831	14 498
Qatar	4	5					4	5
Republic of Korea	2 449	190	1 095	2 081	497	1 581	4 041	3 852
Republic of Moldova	241	434	0	1	81	36	321	471
Romania	3 032	6 461	4 587	5 760	5 530	5 576	13 148	17 796
Russian Federation	12 526	15 109	97 221	161 011	48 354	40 880	158 101	217 000
Rwanda	5 000	5 000	50	98	350	1 114	5 400	6 212
Saint Kitts and Nevis								
Saint Lucia	9	9					9	9
Saint Vincent and the Grenadines	8	7					8	7
Samoa	70	70			18	6	88	76
San Marino								
Sao Tome and Principe	96	116	3	3	10	24	109	143
Saudi Arabia	179	321					179	321
Senegal	5 114	5 643			794	816	5 908	6 459
Serbia		6 251		319		1 327		7 897
Seychelles	4	3		0	8	10	12	13
Sierra Leone	5 358	6 078			124	330	5 481	6 408
Singapore	38	27					38	27
Slovakia	277	495	3 062	3 678	2 824	3 492	6 163	7 665
Slovenia	532	1 043	1 209	1 790	512	883	2 253	3 716
Solomon Islands	138	136	0	0	566	3 200	704	3 336
Somalia	9 228	16 869			110	110	9 338	16 979
South Africa	12 000	12 600	8 853	6 754	10 106	9 453	30 959	28 807
South Sudan		4 750						4 750
Spain	1 600	3 678	7 794	7 326	4 927	6 774	14 321	17 778
Sri Lanka	5 907	4 374	0	0	689	693	6 596	5 067
Sudan		15 583		0		1 157		16 740
Suriname	43	88	1	0	180	617	224	705
Sweden	5 900	5 900	54 060	66 134	3 340	5 266	63 300	77 300
Switzerland	1 626	1 805	6 793	2 575	819	389	9 238	4 770

TABLE 27.
PRODUCTION OF ROUNDWOOD BY TYPE (THOUSAND M³) (CONTINUED)

COUNTRY	WOOD FUEL		INDUSTRIAL ROUNDWOOD, CONIFEROUS		INDUSTRIAL ROUNDWOOD, NON-CONIFEROUS		ROUNDWOOD	
	2000	2021	2000	2021	2000	2021	2000	2021
Syrian Arab Republic	16	36	12	12	23	28	50	76
Tajikistan	0	3 674	0	0	0	0	0	3 674
Thailand	20 553	18 287			6 262	14 600	26 815	32 887
Timor-Leste	179	74					179	74
Togo	5 499	4 424			306	188	5 805	4 612
Tonga	2	2	1	1	1	1	4	4
Trinidad and Tobago	37	30	10	5	62	162	109	196
Tunisia	2 094	3 610	54	177	160	127	2 308	3 914
Türkiye	5 510	4 116	5 755	20 922	4 674	10 214	15 939	35 252
Turkmenistan	3	10	0	0	0	0	3	10
Tuvalu								
Uganda	34 090	45 076	269	935	2 906	4 395	37 265	50 406
Ukraine	4 058	8 452	4 038	6 553	1 763	1 662	9 859	16 667
United Arab Emirates	16	19					16	19
United Kingdom of Great Britain and Northern Ireland	229	2 184	7 114	8 608	442	108	7 785	10 899
United Republic of Tanzania	20 787	25 340	514	1 074	1 800	1 764	23 101	28 178
United States of America	45 930	71 111	282 340	305 851	138 279	76 569	466 549	453 530
Uruguay	1 423	2 333	263	3 904	1 248	11 843	2 934	18 079
Uzbekistan	24	11	0	0	5	6	29	17
Vanuatu	91	91	0	10	40	28	131	129
Venezuela (Bolivarian Republic of)	3 605	4 377	481	425	622	892	4 708	5 694
Viet Nam	26 686	20 000	184	1 300	8 050	36 035	34 920	57 335
Yemen	302	630				3	302	632
Zambia	16 749	23 033	300	892	528	1 800	17 577	25 725
Zimbabwe	8 115	9 488	910	597	68	26	9 094	10 111

Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO

TABLE 28.
PRODUCTION OF SELECTED FOREST PRODUCTS, 2021

COUNTRY	PAPER AND PAPERBOARD	RECOVERED PAPER	WOOD PULP	WOOD CHARCOAL	WOOD PELLETS AND OTHER AGGLOMERATES	SAWNWOOD	WOOD-BASED PANELS
	MILLION TONNES					MILLION M^3	
World	417 343	244 421	193 665	54 765	51 386	496 214	402 439
Africa	3 257	2 139	2 184	36 098	100	11 640	3 046
Americas	99 374	60 467	96 329	10 091	15 905	153 127	66 586
Asia	206 115	114 716	43 986	8 043	6 683	150 632	235 611
Europe	104 983	64 021	48 651	495	28 523	171 659	94 206
Oceania	3 614	3 078	2 515	39	175	9 156	2 991
Afghanistan				153		230	0
Albania	7	3	0	0	40	104	0
Algeria	47	77		776		13	46
Andorra						0	0
Angola	0		0	418		46	10
Antigua and Barbuda						0	0
Argentina	1 746	997	609	397	90	3 127	1 157
Armenia	25	0	0	0	0	26	2
Australia	2 951	2 802	1 275	24	100	4 529	1 731
Austria	5 065	1 694	2 004	1	1 675	10 764	3 424
Azerbaijan	46	0	0	5	0	0	2
Bahamas		1		1		1	0
Bahrain	12	80		1		0	0
Bangladesh	58		47	342		388	8
Barbados	2	1		0		2	0
Belarus	357	294	291	5	665	4 593	4 733
Belgium	1 837	3 940	181	0	517	1 190	2 183
Belize		0		1		15	1
Benin		1		49		154	2
Bhutan	10			9		22	41
Bolivia (Plurinational State of)	0			48	5	407	36
Bosnia and Herzegovina	136	50	80	32	225	1 650	48
Botswana		10		75		0	0
Brazil	10 666	4 890	23 095	7 299	2 906	10 840	13 375
Brunei Darussalam		13		0	0	29	0
Bulgaria	394	90	210	2	226	716	1 137
Burkina Faso	1			780		5	0
Burundi				264		34	0
Cabo Verde				1		0	0
Cambodia	0	20		39		100	202
Cameroon	0		0	532		1 222	18
Canada	9 195	2 754	14 880		3 980	41 086	11 935
Central African Republic				231		41	2
Chad				528		3	0
Chile	922	226	4 965	238	261	8 683	3 289
China	125 150	68 531	19 547	1 596	893	84 041	178 716
Colombia	1 232	833	219	102		247	214

TABLE 28.
PRODUCTION OF SELECTED FOREST PRODUCTS, 2021 (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	RECOVERED PAPER	WOOD PULP	WOOD CHARCOAL	WOOD PELLETS AND OTHER AGGLOMERATES	SAWNWOOD	WOOD-BASED PANELS
	MILLION TONNES					MILLION M³	
Comoros				52		1	0
Congo	3			6		322	7
Costa Rica	250	110		14	22	426	84
Côte d'Ivoire		6		559		853	192
Croatia	374	45	48	13	398	1 298	232
Cuba	16	28		120		130	149
Cyprus	0	48	0	1	0	2	0
Czechia	829	992	852	6	620	4 891	1 613
Democratic People's Republic of Korea	80		56	171		279	0
Democratic Republic of the Congo	3			2 884		101	1
Denmark	152	590	5	0	180	387	349
Djibouti				56		0	0
Dominica				0		0	0
Dominican Republic	130	130		19		26	0
Ecuador	245	183		105		559	821
Egypt	670	380	41	1 489	25	12	52
El Salvador	115	5		24		16	0
Equatorial Guinea				12		45	3
Eritrea				142		0	0
Estonia	73	106	253	0	1 678	1 850	494
Eswatini	49	6	0	55		330	53
Ethiopia	78	3		4 838		18	46
Fiji		3		3		130	11
Finland	8 660	460	11 360	0	365	11 966	1 233
France	7 359	6 885	1 724	50	1 937	8 581	5 279
Gabon				24		1 033	74
Gambia				73		46	0
Georgia	47	11	0	0		58	10
Germany	23 127	14 487	2 327	30	4 333	26 438	13 525
Ghana		3		2 226		525	145
Greece	321	310	0	0	59	66	373
Grenada						0	0
Guatemala	31	115		14	59	307	16
Guinea				436		31	21
Guinea-Bissau				82		16	0
Guyana				25		71	15
Haiti		1		38		6	0
Honduras	40	60	0	21	17	187	49
Hungary	864	500	51	0	16	400	1 153
Iceland	0	24	0	0	0	0	0
India	17 284	3 700	3 362	1 891		23 975	12 576

TABLE 28.
PRODUCTION OF SELECTED FOREST PRODUCTS, 2021 (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	RECOVERED PAPER	WOOD PULP	WOOD CHARCOAL	WOOD PELLETS AND OTHER AGGLOMERATES	SAWNWOOD	WOOD-BASED PANELS
	MILLION TONNES					MILLION M^3	
Indonesia	11 953	3 233	10 075	664	340	2 577	5 650
Iran (Islamic Republic of)	766	80	212	0		21	2 908
Iraq	13	205		23		12	5
Ireland	60	369	0	0	38	1 014	808
Israel	403	305	0	0		0	123
Italy	9 489	6 060	223	10	425	900	3 863
Jamaica	0	12		11		66	0
Japan	23 751	18 409	7 789	12	149	9 091	4 898
Jordan	54	100		52		0	0
Kazakhstan	234	38	0	3	0	215	263
Kenya	0	38	0	1 208		279	82
Kiribati				0		0	0
Kuwait	37	170		3		0	0
Kyrgyzstan	1	0	0	0	0	153	0
Lao People's Democratic Republic		216	401	93		355	51
Latvia	28	100	14	8	2 189	4 438	1 429
Lebanon	103	26		3		9	46
Lesotho		3		116		7	0
Liberia				345		133	0
Libya	6	37		118		31	0
Lithuania	154	189	0	0	607	1 293	1 190
Luxembourg	0	65	0	0	63	78	485
Madagascar	33	1		1 544		76	5
Malawi		1		632		103	53
Malaysia	1 750	1 200	131	16	795	1 935	3 439
Maldives				1		0	0
Mali		20		476		100	50
Malta	0	17	0	0	0	0	0
Marshall Islands						0	0
Mauritania	1			242		14	1
Mauritius	0	10	0	0	0	1	0
Mexico	6 295	4 629	87	124	4	3 077	1 025
Micronesia (Federated States of)				0		0	0
Mongolia				18	20	19	1
Montenegro	0	10	0	2	63	109	1
Morocco	156	140	70	121	5	55	103
Mozambique	2	5		263		562	1
Myanmar	356	484		438		1 670	160
Namibia		20		277		1	1
Nauru						0	0
Nepal	13	38		93		630	30
Netherlands (Kingdom of the)	2 942	2 656	37	0	328	148	29

TABLE 28.
PRODUCTION OF SELECTED FOREST PRODUCTS, 2021 (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	RECOVERED PAPER	WOOD PULP	WOOD CHARCOAL	WOOD PELLETS AND OTHER AGGLOMERATES	SAWNWOOD	WOOD-BASED PANELS
	MILLION TONNES					MILLION M^3	
New Zealand	663	268	1 240	0	75	4 082	1 185
Nicaragua		35		16		60	10
Niger				818		4	0
Nigeria	19	20	23	4 829		2 002	96
North Macedonia	32	23	0	0	0	7	0
Norway	1 010	533	1 054	0	188	2 809	499
Oman	4	80		8		0	0
Pakistan	730	163	82	92		1 381	334
Palau						0	0
Panama	0	26		5		26	4
Papua New Guinea		0		7		340	64
Paraguay	67	30		430		560	81
Peru	538	72	0	22		625	0
Philippines	755	912	0	247		400	283
Poland	5 324	3 450	1 749	121	1 607	5 069	13 453
Portugal	2 169	939	2 809	9	731	1 006	1 408
Qatar	3	15		1		0	0
Republic of Korea	10 977	9 265	479	8	658	1 954	2 711
Republic of Moldova	9	0	0	1	22	19	5
Romania	602	600	0	2	686	5 545	4 457
Russian Federation	9 527	3 450	8 765	55	3 570	41 797	15 937
Rwanda				48		135	0
Saint Kitts and Nevis						0	0
Saint Lucia		1		0		0	0
Saint Vincent and the Grenadines				0		0	0
Samoa				1		1	0
San Marino						0	0
Sao Tome and Principe				10		12	0
Saudi Arabia	1 186	1 000		53		0	0
Senegal	0	0		300		31	0
Serbia	535	178	0	22	481	452	308
Seychelles	0	0	0	0		0	0
Sierra Leone				494		32	0
Singapore	87	1 136		4		1	12
Slovakia	1 019	330	769	4	355	1 652	1 025
Slovenia	825	203	86	1	154	1 044	238
Solomon Islands				2		54	0
Somalia				1 465		14	0
South Africa	1 996	1 241	1 994	62	15	2 105	1 513
South Sudan				289		20	0
Spain	6 773	4 385	1 749	60	650	2 214	4 926
Sri Lanka	25	170	3	2		61	156

TABLE 28.
PRODUCTION OF SELECTED FOREST PRODUCTS, 2021 (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	RECOVERED PAPER	WOOD PULP	WOOD CHARCOAL	WOOD PELLETS AND OTHER AGGLOMERATES	SAWNWOOD	WOOD-BASED PANELS
	MILLION TONNES					MILLION M^3	
Sudan	4	6		588		11	0
Suriname		1		9		171	2
Sweden	8 924	992	11 697	2	1 755	19 140	726
Switzerland	1 168	1 176	94	0	324	1 248	567
Syrian Arab Republic	75			3		9	17
Tajikistan	0		0			0	0
Thailand	5 263	2 912	1 192	1 554	61	4 300	8 151
Timor-Leste				0		0	0
Togo		1		295		67	1
Tonga				0		1	0
Trinidad and Tobago	15	7		2		31	0
Tunisia	148	40		204	9	24	113
Türkiye	2 800	1 534	70	1	26	11 193	11 200
Turkmenistan	0	0	0	0	0	0	0
Tuvalu						0	0
Uganda	0			1 232		440	150
Ukraine	1 198	725	0	54	1 048	3 173	3 590
United Arab Emirates	246	500		3		0	0
United Kingdom of Great Britain and Northern Ireland	3 642	7 102	220	5	304	3 611	3 486
United Republic of Tanzania	40	2	56	2 211		140	129
United States of America	67 475	45 037	49 685	852	8 560	80 705	33 738
Uruguay	57	77	2 771	118	0	685	278
Uzbekistan	76	1	1	0	0	23	297
Vanuatu				1		14	0
Venezuela (Bolivarian Republic of)	336	201	18	20		950	310
Viet Nam	1 742	120	540	414	3 740	5 471	3 320
Yemen	0	1		25		0	0
Zambia	1			1 296	46	190	21
Zimbabwe	0	70		12		198	55

Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO

TABLE 29.
FOOD EXPORTS, 2021 (USD MILLION)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
World	308 406	243 605	179 448	134 953	128 272	103 878	52 123	344 980	167 700	1 663 365
Africa	19 567	3 367	773	3 773	1 864	753	2 682	20 248	7 340	60 367
Americas	86 742	74 861	65 511	22 080	20 715	9 418	17 210	128 387	33 483	458 405
Asia	85 790	42 876	13 809	62 135	14 809	6 561	13 760	63 889	61 227	364 856
Europe	108 134	108 755	77 771	44 858	86 186	65 011	16 019	124 995	62 515	694 245
Oceania	8 173	13 746	21 584	2 107	4 699	22 135	2 452	7 461	3 135	85 492
Afghanistan	717	1	0	0	1	0	0	83	0	802
Albania	105	7	0	1	8	1	0	12	152	286
Algeria	147	10	0	109	9	0	230	11	21	535
Andorra									0	
Angola	8	2	0	0	23	0	3	2	46	84
Antigua and Barbuda	1	5	0	0	1	0	0	0	3	11
Argentina	2 581	12 716	3 301	5 911	857	838	344	2 643	1 875	31 067
Armenia	165	3	5	0	291	17	5	55	68	609
Australia	3 389	11 210	11 189	868	1 886	2 200	1 624	4 890	899	38 154
Austria	1 613	1 978	2 103	409	4 034	1 563	280	2 593	108	14 680
Azerbaijan	655	13	1	32	15	9	33	23	2	782
Bahamas	0	0		0	1		0	0	93	95
Bahrain	10	104	1	1	6	199	3	63	50	438
Bangladesh	83	105	2	216	37	7	14	72	439	975
Barbados	2	14	1	14	56	0	1	4	1	94
Belarus	698	169	1 164	507	180	2 714	140	283	434	6 288
Belgium	10 005	6 009	4 674	2 297	4 563	4 447	1 468	9 894	1 134	44 491
Belize	73	3	0	1	20	0	77	7	26	207
Benin	93	2	0	22	2	0	4	19	0	142
Bhutan	14	2		4	7	0	0	7	0	34
Bolivia (Plurinational State of)	242	98	103	691	1	34	61	156	0	1 384
Bosnia and Herzegovina	127	75	57	51	42	56	2	56	21	487
Botswana	12	7	15	1	3	0	1	82	3	123
Brazil	3 767	5 305	19 520	2 437	216	161	9 539	46 725	360	88 029
Brunei Darussalam	1	1	0	0	0	1	0	1	28	33
Bulgaria	490	2 355	239	813	178	210	187	1 522	93	6 087
Burkina Faso	197	5	0	33	4	0	1	76	0	316
Burundi	1	5		0	7	0	1	52	0	66
Cabo Verde	0	0		0	1	0	0	0	52	54
Cambodia	289	439	0	58	1	1	51	33	89	960
Cameroon	194	11	0	10	2	0	1	751	3	973
Canada	8 590	14 585	7 964	5 114	1 293	361	1 168	14 725	7 035	60 836
Central African Republic	1	0		0	0	0		16	0	17
Chad	2	0		0	0	0	0	166	0	169
Chile	7 558	405	1 433	158	1 991	118	41	333	6 204	18 241

TABLE 29.
FOOD EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
China	29 275	3 732	3 000	861	3 503	795	2 430	16 566	23 189	83 350
Colombia	1 558	232	251	744	36	29	500	3 925	149	7 425
Comoros			0	0				19	0	19
Congo	0	1	0	0	3	0	3	2	4	14
Costa Rica	2 926	160	184	300	82	130	120	1 146	123	5 172
Côte d'Ivoire	1 339	49	0	367	11	2	10	5 736	102	7 617
Croatia	246	709	237	130	186	89	74	1 008	326	3 003
Cuba	1	0		0	74		138	10	76	299
Cyprus	106	9	12	4	22	313	0	13	34	514
Czechia	585	1 856	453	445	770	1 036	402	2 315	213	8 076
Democratic People's Republic of Korea	47	0	0	0	0		0	7	0	55
Democratic Republic of the Congo	4	2	0	5	0	0	0	74	1	86
Denmark	614	1 777	4 965	722	1 200	2 758	331	2 866	4 549	19 781
Djibouti	10	2	0	165	0	0	177	32	0	387
Dominica	2	0		0	0	0	0	0	0	3
Dominican Republic	570	139	8	63	178	4	143	320	9	1 433
Ecuador	4 244	41	0	204	6	2	43	1 046	7 034	12 619
Egypt	3 257	464	10	428	14	227	315	750	45	5 511
El Salvador	81	232	8	28	134	53	320	241	96	1 194
Equatorial Guinea	0	0	0	0	0	0		1	0	2
Eritrea	0	0		0	0			0	0	1
Estonia	94	328	123	85	153	264	9	326	205	1 588
Eswatini	55	29	5	0	20	1	469	8	0	588
Ethiopia	662	25	94	2	3	1	0	1 626	0	2 414
Fiji	28	55	10	8	108	6	44	18	79	355
Finland	75	298	199	25	203	503	55	264	211	1 833
France	6 434	14 158	4 918	2 109	21 293	7 821	1 961	11 448	2 138	72 279
Gabon	0	0	0	40	0			0	2	43
Gambia	4	4	0	0	0	0	0	1	1	11
Georgia	279	5	30	7	599	6	2	96	3	1 026
Germany	7 089	11 892	9 725	3 889	6 497	11 225	3 355	19 610	2 556	75 839
Ghana	425	27	0	181	10	10	0	2 479	148	3 280
Greece	2 960	743	203	879	328	1 031	99	680	951	7 875
Grenada	2	4	0	0	5	0	0	9	3	22
Guatemala	1 836	262	76	890	231	4	659	1 985	133	6 076
Guinea	73	0	0	21	0	1	0	89	16	200
Guinea-Bissau	131			0				2	19	151
Guyana	11	209	0	1	60	0	20	1	41	344
Haiti	19	1	0	1	7	0	0	6	15	49
Honduras	477	110	20	306	12	31	61	1 322	411	2 750
Hungary	1 140	2 214	1 585	937	445	449	356	2 393	16	9 535

TABLE 29.
FOOD EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
Iceland	2	1	22	8	32	9	1	37	2 418	2 530
India	4 492	13 225	3 386	1 618	266	362	4 447	5 877	7 446	41 120
Indonesia	1 745	995	18	32 036	106	59	528	5 283	5 219	45 989
Iran (Islamic Republic of)	1 823	143	5	1	1	82	140	290	206	2 691
Iraq	122	1	1	5	2	0	2	3	0	137
Ireland	466	2 244	4 699	120	1 976	3 724	140	1 608	711	15 687
Israel	1 331	128	35	40	87	10	28	345	15	2 019
Italy	11 059	7 671	3 897	2 873	12 106	4 828	473	9 873	942	53 724
Jamaica	88	29	7	1	146	8	5	78	21	383
Japan	557	923	539	130	1 426	105	166	2 574	2 385	8 805
Jordan	528	116	87	7	28	83	43	313	1	1 206
Kazakhstan	165	1 799	82	186	59	76	37	582	68	3 053
Kenya	696	65	80	215	40	3	67	1 629	32	2 827
Kiribati	0		0	2	0	0		2	144	148
Kuwait	79	70	42	0	34	58	8	38	1	330
Kyrgyzstan	164	26	2	0	7	46	2	25	17	290
Lao People's Democratic Republic	685	69	4	0	231	0	101	374	0	1 464
Latvia	311	918	156	25	918	381	28	558	253	3 548
Lebanon	352	59	11	33	95	3	15	175	1	744
Lesotho	3	15	0	0	0	0	0	1	5	24
Liberia	5	0	0	33	0	0	0	41	2	80
Libya	3	0	0	0	0	0	0	1	23	28
Lithuania	508	1 268	336	73	511	715	159	1 087	703	5 358
Luxembourg	216	142	54	3	173	529	2	199	16	1 334
Madagascar	119	1	0	2	1	0	2	781	129	1 035
Malawi	89	8	0	1	0	0	65	142	0	305
Malaysia	767	1 522	218	18 896	552	406	319	3 979	862	27 522
Maldives	0	0	0	0	0	0	0	0	140	141
Mali	27	2	0	0	1	0	0	174	1	205
Malta	1	24	0	0	8	1	0	70	200	304
Marshall Islands									70	
Mauritania	0		0		0			19	703	722
Mauritius	6	11	0	0	14	2	169	14	288	504
Mexico	18 456	2 867	3 210	315	9 311	145	1 582	2 764	1 154	39 805
Micronesia (Federated States of)									173	
Mongolia	86	1	58	1	1	0	0	6	0	153
Montenegro	11	1	21	1	20	0	0	4	0	59
Morocco	3 715	42	2	188	28	50	357	241	2 562	7 185
Mozambique	277	15	0	37	3	0	91	132	57	613
Myanmar	2 070	1 324	3	1	9	0	95	475	731	4 707
Namibia	101	32	54	2	63	1	0	95	749	1 096

TABLE 29.
FOOD EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
Nauru	0	0			0		0	0		
Nepal	50	12	0	891	2	0	0	88	0	1 044
Netherlands (Kingdom of the)	25 186	6 847	12 383	5 788	6 721	10 419	1 968	18 193	6 273	93 778
New Zealand	4 721	2 480	10 385	317	2 702	19 929	783	2 233	1 230	44 781
Nicaragua	306	18	767	132	84	197	183	571	304	2 562
Niger	44	1		123	0	0	5	26	1	200
Nigeria	191	5	0	35	10	1	0	1 114	49	1 406
North Macedonia	199	74	25	2	63	5	7	56	8	438
Norway	26	62	31	101	128	55	6	339	13 460	14 207
Oman	159	353	70	206	34	306	38	322	337	1 825
Pakistan	867	2 362	343	87	3	25	161	440	421	4 709
Palau									0	
Panama	199	1	49	52	23	13	25	36	93	492
Papua New Guinea	1	0	0	858	0	0	0	290	293	1 443
Paraguay	60	787	1 654	702	2	28	64	3 131	0	6 426
Peru	7 355	367	6	153	46	31	73	1 418	1 454	10 902
Philippines	2 806	250	21	1 467	38	44	128	285	895	5 934
Poland	5 009	6 036	7 858	776	1 387	3 065	1 018	6 712	2 871	34 732
Portugal	1 965	621	362	1 138	1 503	458	178	879	1 273	8 377
Qatar	1	1	1	0	0	0	0	29	0	33
Republic of Korea	1 333	872	124	85	891	61	341	2 478	1 947	8 132
Republic of Moldova	315	389	8	121	197	7	33	284	0	1 353
Romania	352	4 555	491	372	227	200	103	2 758	35	9 091
Russian Federation	1 419	10 382	1 346	5 256	766	375	570	3 517	5 949	29 580
Rwanda	69	150	2	61	11	7	34	214	33	582
Saint Kitts and Nevis	0	0		0	5		0	0	0	5
Saint Lucia	2	1	0	0	13	0	0	2	0	18
Saint Vincent and the Grenadines	3	9	0	0	2	0	0	1	5	20
Samoa	5	0	0	4	2	0	0	1	10	24
San Marino										
Sao Tome and Principe	0			6	0			12	0	18
Saudi Arabia	739	656	227	305	199	1 035	392	293	142	3 989
Senegal	554	107	1	30	17	10	6	192	564	1 481
Serbia	1 280	1 151	108	310	331	104	136	690	18	4 129
Seychelles	2	0	0	0	1			0	490	494
Sierra Leone	1	0		21	0	2	0	44	5	73
Singapore	282	1 092	161	326	3 023	224	95	7 767	243	13 212
Slovakia	240	923	237	166	253	342	291	1 458	20	3 930
Slovenia	421	432	381	89	229	232	51	669	59	2 564
Solomon Islands	15	0		42	0			12	45	114
Somalia	9	1	2	0	0	0	0	247	12	271

TABLE 29.
FOOD EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
South Africa	5 363	1 486	374	681	1 257	257	392	905	594	11 309
South Sudan	2	0	2	0	0	0	0	1	0	6
Spain	24 446	3 120	11 066	5 989	5 519	1 843	969	5 204	5 440	63 596
Sri Lanka	507	79	4	142	36	6	7	1 960	322	3 063
Sudan	539	4	76	44	1	3	25	701	3	1 396
Suriname	3	33	3	2	19	0	0	4	60	124
Sweden	431	1 216	262	780	933	464	218	1 765	4 814	10 883
Switzerland	111	789	110	64	2 145	887	155	5 654	5	9 919
Syrian Arab Republic	313	32	0	112	2	19	10	158	0	646
Tajikistan	37	2	0	0	3	0	0	0	0	42
Thailand	11 830	4 954	3 648	1 272	1 882	330	2 016	3 685	5 203	34 820
Timor-Leste	0			0	0		0	16	0	17
Togo	10	16	0	69	55	27	22	54	1	255
Tonga	5	0		0	0			0	3	8
Trinidad and Tobago	45	101	9	11	106	2	11	95	14	394
Tunisia	440	88	5	722	29	27	24	129	251	1 717
Türkiye	9 895	3 835	987	2 056	426	827	943	2 495	1 371	22 835
Turkmenistan	54	10	0	10	3		0	2	0	79
Tuvalu	0			0				0	13	13
Uganda	75	74	2	87	19	73	60	714	121	1 225
Ukraine	716	12 294	845	6 874	283	193	386	2 588	66	24 244
United Arab Emirates	2 474	881	578	857	655	936	865	2 061	397	9 705
United Kingdom of Great Britain and Northern Ireland	1 167	3 029	2 430	628	9 676	2 007	410	5 524	2 542	27 415
United Republic of Tanzania	518	426	29	13	54	1	3	534	164	1 742
United States of America	25 575	35 270	24 086	3 644	5 670	6 489	1 988	44 271	5 246	152 240
Uruguay	86	850	2 848	198	23	735	37	1 244	89	6 109
Uzbekistan	959	299	1	6	18	15	6	39	1	1 343
Vanuatu	0	0	0	1	0			11	122	135
Venezuela (Bolivarian Republic of)	23	7	5	4	4	1	7	170	178	398
Viet Nam	6 645	2 352	96	151	207	83	270	4 366	8 757	22 927
Yemen	169	10	0	4	0	8	15	37	196	441
Zambia	45	156	17	14	142	41	127	73	7	622
Zimbabwe	49	16	0	1	2	3	17	23	1	113

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/trade/trade_value

TABLE 30.
FOOD NET TRADE (USD MILLION)

COUNTRY	FOOD EXCLUDING FISH			FISH			ALL FOOD		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
World									
Africa	-7 264	-26 507	-41 422	1 791	1 308	2 038	-5 473	-25 199	-39 385
Americas	23 968	102 909	140 042	-936	-3 062	-4 340	23 032	99 847	135 701
Asia	-46 276	-106 378	-267 536	-2 995	8 670	9 617	-49 271	-97 708	-257 919
Europe	-75	-14 200	58 507	-2 855	-7 495	-4 347	-2 930	-21 695	54 160
Oceania	13 321	25 539	61 912	1 282	1 054	1 335	14 603	26 594	63 246
Afghanistan	-212	-947	-1 293	0	0	-6	-212	-947	-1 299
Albania	-202	-655	-844	1	8	29	-201	-648	-815
Algeria	-2 374	-5 328	-9 295	-8	-44	-84	-2 382	-5 372	-9 379
Andorra				-12	-19	-20			
Angola	-398	-2 156	-1 977	-6	-85	18	-404	-2 241	-1 959
Antigua and Barbuda	-30	-68	-81	-4	-6	-4	-34	-74	-85
Argentina	6 881	21 874	24 828	718	1 189	1 665	7 599	23 063	26 493
Armenia	-148	-400	-220	-1	3	54	-149	-398	-166
Australia	9 324	13 516	23 653	501	-231	-510	9 825	13 285	23 142
Austria	-328	107	938	-144	-384	-522	-472	-276	416
Azerbaijan	-174	-475	-1 162	1	-10	-39	-174	-486	-1 201
Bahamas	-325	-389	-455	94	55	73	-232	-334	-382
Bahrain	-346	-827	-1 257	5	-1	-3	-341	-828	-1 260
Bangladesh	-1 306	-4 500	-11 953	339	524	319	-967	-3 976	-11 634
Barbados	-59	-174	-231	-10	-17	-25	-68	-192	-256
Belarus	-312	1 075	2 599	-52	-149	-87	-365	927	2 512
Belgium	2 492	4 105	5 344	-535	-859	-1 130	1 956	3 246	4 214
Belize	93	55	25	30	30	25	123	85	50
Benin	-72	40	-933	-7	-26	-117	-79	14	-1 050
Bhutan	-10	-61	-164	0	-3	-8	-10	-65	-173
Bolivia (Plurinational State of)	-20	287	729	-9	-10	-19	-30	277	710
Bosnia and Herzegovina	-368	-1 112	-1 324	-9	-22	-25	-378	-1 134	-1 349
Botswana	-238	-374	-751	-10	-13	-11	-248	-387	-762
Brazil	6 353	46 949	76 902	-85	-837	-867	6 268	46 112	76 035
Brunei Darussalam	-148	-296	-494	-14	-25	-31	-162	-321	-525
Bulgaria	49	760	1 878	-3	-32	-44	46	728	1 834
Burkina Faso	-114	-130	-133	-1	-8	-27	-116	-138	-160
Burundi	13	29	-66	0	0	-4	13	28	-69
Cabo Verde	-70	-196	-217	1	35	47	-69	-161	-169
Cambodia	-70	-391	-124	29	37	58	-41	-354	-65
Cameroon	50	239	-266	-26	-183	-235	24	56	-501
Canada	4 133	7 834	17 799	1 482	1 708	3 688	5 615	9 542	21 487
Central African Republic	2	-34	-60	0	-4	-7	2	-38	-67
Chad	17	-96	-24	0	-1	-1	17	-97	-25
Chile	1 550	4 847	3 326	1 530	2 705	5 866	3 080	7 551	9 192
China	-4 565	-41 048	-157 703	2 415	7 446	3 925	-2 150	-33 602	-153 777
Colombia	1 292	1 124	780	128	-62	-378	1 420	1 062	403

TABLE 30.
FOOD NET TRADE (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH			FISH			ALL FOOD		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Comoros	-8	-55	-97	0	-1	-4	-8	-56	-101
Congo	-128	-237	-619	-19	-16	-92	-146	-253	-711
Costa Rica	1 092	1 868	2 977	99	56	16	1 192	1 924	2 993
Côte d'Ivoire	1 333	3 446	5 599	-3	-155	-651	1 329	3 291	4 948
Croatia	-277	-704	-849	11	33	92	-266	-671	-756
Cuba	-49	-1 061	-1 735	47	35	61	-2	-1 026	-1 674
Cyprus	-202	-693	-655	-19	-51	-50	-221	-745	-705
Czechia	-233	-1 535	-1 655	-51	-119	-213	-284	-1 654	-1 868
Democratic People's Republic of Korea	-410	-290	-665	75	19	-1	-334	-271	-666
Democratic Republic of the Congo	-173	-867	-794	-26	-112	-56	-199	-979	-849
Denmark	4 054	5 625	5 229	838	961	752	4 892	6 586	5 980
Djibouti	-79	-375	-1 484	-2	-1	-8	-81	-377	-1 492
Dominica	-6	-30	-38	-2	-2	-2	-8	-32	-39
Dominican Republic	-159	-445	-1 988	-50	-128	-251	-209	-572	-2 239
Ecuador	879	2 130	3 704	567	1 456	6 881	1 446	3 586	10 585
Egypt	-2 532	-7 908	-8 577	-134	-476	-700	-2 666	-8 384	-9 277
El Salvador	-2	-363	-1 265	18	33	62	16	-330	-1 203
Equatorial Guinea	-4	-130	-263	-1	-19	-24	-5	-149	-287
Eritrea	-68	-89	-162	2	0	0	-66	-90	-162
Estonia	-192	-227	-156	47	80	27	-145	-147	-128
Eswatini	114	80	229	-5	-3	-6	108	77	223
Ethiopia	22	417	-1 778	0	-1	-2	22	416	-1 780
Fiji	44	-70	-86	25	77	37	69	7	-49
Finland	-763	-2 248	-3 092	-85	-320	-325	-849	-2 568	-3 417
France	12 361	16 247	16 136	-1 859	-4 305	-5 438	10 502	11 942	10 698
Gabon	-152	-397	-497	3	-20	-58	-149	-417	-555
Gambia	-55	-146	-151	3	5	1	-52	-141	-150
Georgia	-119	-468	-41	-1	-28	-35	-120	-497	-76
Germany	-8 895	-9 832	-14 972	-1 116	-2 230	-3 163	-10 011	-12 061	-18 134
Ghana	223	-6	-157	-5	-78	-15	219	-84	-172
Greece	-897	-2 461	0	-28	205	311	-925	-2 256	311
Grenada	-11	-56	-83	1	3	-2	-10	-53	-85
Guatemala	874	1 736	2 398	28	31	-7	902	1 767	2 391
Guinea	-102	-325	-966	4	5	8	-98	-319	-958
Guinea-Bissau	8	-29	-24	3	3	13	11	-26	-11
Guyana	109	162	-50	50	48	36	159	210	-14
Haiti	-295	-873	-1 400	-3	-14	-35	-298	-887	-1 435
Honduras	241	585	432	183	156	392	424	741	824
Hungary	1 313	2 998	3 372	-17	-59	-107	1 296	2 940	3 264
Iceland	-140	-208	-482	1 021	1 575	2 332	881	1 367	1 850
India	1 345	2 195	7 261	1 405	2 452	7 293	2 750	4 647	14 554
Indonesia	850	12 377	23 271	1 531	2 302	4 854	2 381	14 680	28 125
Iran (Islamic Republic of)	-1 619	-2 423	-9 879	44	123	179	-1 575	-2 299	-9 700

TABLE 30.
FOOD NET TRADE (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH			FISH			ALL FOOD		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Iraq	-1 860	-5 912	-9 777	0	-45	-63	-1 859	-5 957	-9 839
Ireland	3 792	3 214	6 407	209	271	402	4 002	3 486	6 809
Israel	-818	-1 835	-4 791	-118	-287	-738	-937	-2 122	-5 530
Italy	-1 166	-267	12 611	-2 106	-4 578	-6 439	-3 272	-4 845	6 172
Jamaica	-104	-466	-672	-41	-80	-110	-146	-546	-782
Japan	-26 736	-38 703	-42 794	-14 413	-12 269	-11 309	-41 149	-50 972	-54 103
Jordan	-535	-1 219	-2 895	-19	-73	-116	-554	-1 292	-3 011
Kazakhstan	192	-844	-2 022	-7	39	-94	185	-805	-2 115
Kenya	385	822	-132	35	56	8	420	878	-124
Kiribati	-9	-23	-42	5	28	141	-4	5	98
Kuwait	-1 100	-2 074	-4 528	-20	-87	-265	-1 120	-2 160	-4 793
Kyrgyzstan	-46	-341	-435	-2	-9	11	-48	-350	-424
Lao People's Democratic Republic	-25	-181	670	-1	-1	-12	-26	-182	658
Latvia	-416	-117	259	13	34	12	-404	-82	272
Lebanon	-809	-1 881	-1 313	-41	-110	-57	-850	-1 991	-1 370
Lesotho	-115	-166	-401	-8	-3	-1	-122	-169	-402
Liberia	-80	-242	-370	-3	-4	-23	-83	-246	-393
Libya	-1 002	-2 009	-3 744	3	-64	-120	-999	-2 074	-3 864
Lithuania	-74	404	978	-20	33	87	-95	437	1 066
Luxembourg	-385	-926	-1 140	-43	-81	-123	-428	-1 007	-1 263
Madagascar	-5	-160	62	31	87	95	26	-72	158
Malawi	44	42	44	0	-1	-6	43	40	38
Malaysia	1 538	8 054	9 881	47	38	-399	1 585	8 092	9 482
Maldives	-72	-220	-542	40	59	114	-33	-161	-428
Mali	23	-247	-599	-1	-12	-67	22	-259	-666
Malta	-187	-359	-465	-8	51	63	-195	-308	-402
Marshall Islands				2	50	64			
Mauritania	-135	-300	-905	87	199	700	-48	-101	-206
Mauritius	-2	-243	-562	-4	96	86	-6	-147	-476
Mexico	-754	-935	11 295	597	188	136	-157	-748	11 431
Micronesia (Federated States of)				25	23	167			
Mongolia	-69	-262	-712	0	-3	-9	-69	-264	-721
Montenegro		-415	-558	0	-12	-22		-427	-580
Morocco	-788	-1 668	-1 787	934	1 209	2 281	146	-458	494
Mozambique	-177	-484	-1 091	91	21	-43	-86	-463	-1 134
Myanmar	84	406	2 132	183	475	722	267	881	2 853
Namibia	-97	22	-427	256	713	689	159	734	262
Nauru	-2	-2	-14						
Nepal	-162	-357	-1 989	0	-2	-16	-163	-359	-2 005
Netherlands (Kingdom of the)	6 337	17 529	22 253	217	440	1 321	6 554	17 968	23 575
New Zealand	4 097	12 666	39 266	596	917	1 015	4 693	13 583	40 280
Nicaragua	152	667	1 171	124	129	285	276	795	1 456
Niger	-26	-144	-585	1	-1	-4	-24	-145	-589

TABLE 30.
FOOD NET TRADE (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH			FISH			ALL FOOD		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Nigeria	-815	-4 503	-6 756	-168	-768	-821	-983	-5 272	-7 576
North Macedonia	-80	-194	-534	-7	-17	-24	-87	-211	-559
Norway	-1 237	-4 036	-6 090	3 017	8 175	12 840	1 781	4 139	6 750
Oman	-401	-1 462	-3 083	46	92	248	-355	-1 370	-2 835
Pakistan	-751	-444	-4 840	149	258	412	-602	-186	-4 429
Palau				0	-1	-2			
Panama	-56	-610	-1 612	231	150	-8	175	-460	-1 620
Papua New Guinea	154	319	277	47	101	232	200	420	509
Paraguay	229	2 961	5 573	-2	-6	-11	228	2 955	5 562
Peru	-166	513	4 345	153	475	1 184	-13	987	5 528
Philippines	-713	-2 019	-7 480	328	511	276	-385	-1 509	-7 204
Poland	-22	3 874	11 973	-59	-129	-39	-80	3 745	11 934
Portugal	-1 800	-3 766	-2 990	-572	-888	-1 132	-2 373	-4 654	-4 122
Qatar	-338	-1 720	-2 729	-4	-53	-111	-341	-1 773	-2 841
Republic of Korea	-4 249	-10 697	-21 862	46	-1 466	-3 734	-4 203	-12 163	-25 595
Republic of Moldova	183	266	592	-3	-41	-77	180	224	515
Romania	-399	-643	-490	-17	-161	-382	-416	-804	-872
Russian Federation	-4 835	-23 346	-3 128	1 341	502	3 353	-3 495	-22 844	225
Rwanda	-13	-58	-134	0	-4	-17	-13	-62	-151
Saint Kitts and Nevis	-24	-39	-35	-2	-3	-3	-26	-43	-38
Saint Lucia	-46	-74	-375	-5	-7	-9	-51	-81	-384
Saint Vincent and the Grenadines	6	-52	-84	0	-1	2	6	-53	-81
Samoa	-17	-60	-95	-1	7	0	-18	-53	-96
San Marino									
Sao Tome and Principe	-5	-26	-36	0	0	0	-5	-26	-36
Saudi Arabia	-4 389	-12 191	-16 663	-96	-227	-432	-4 485	-12 418	-17 094
Senegal	-241	-915	-1 072	258	232	501	17	-683	-571
Serbia		1 214	1 932	0	-62	-100		1 152	1 832
Seychelles	-47	-75	-147	103	178	362	55	103	214
Sierra Leone	-104	-137	-378	10	4	-4	-94	-133	-382
Singapore	-1 310	-2 479	630	-86	-623	-825	-1 396	-3 103	-196
Slovakia	-223	-1 054	-1 371	-24	-68	-139	-247	-1 122	-1 510
Slovenia	-300	-867	-513	-18	-55	-98	-318	-922	-611
Solomon Islands	23	-42	-24	12	15	42	35	-27	18
Somalia	-25	-157	-1 865	2	-1	1	-23	-159	-1 864
South Africa	810	1 598	5 139	216	256	184	1 025	1 854	5 324
South Sudan			-379	0	0	-1			-380
Spain	4 726	10 120	26 286	-1 707	-3 177	-3 196	3 020	6 943	23 090
Sri Lanka	224	300	374	59	33	190	283	333	565
Sudan			-1 115	0	0	1			-1 114
Suriname	-33	-84	-133	35	58	56	2	-26	-77
Sweden	-1 636	-4 534	-5 737	-245	-612	-774	-1 881	-5 146	-6 511
Switzerland	-2 152	-2 166	-2 405	-343	-631	-900	-2 495	-2 797	-3 306

TABLE 30.
FOOD NET TRADE (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH			FISH			ALL FOOD		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Syrian Arab Republic	-351	-827	-1 093	-33	-58	-22	-384	-885	-1 115
Tajikistan	-99	-375	-817	0	-3	-8	-99	-378	-825
Thailand	4 028	12 846	18 413	3 639	4 861	1 552	7 666	17 707	19 965
Timor-Leste	-30	-43	-171	0	-3	-7	-30	-46	-178
Togo	-9	63	-114	-9	-20	-44	-17	43	-158
Tonga	-15	-36	-88	3	3	-2	-13	-33	-90
Trinidad and Tobago	-64	-415	-532	4	-17	-28	-60	-432	-560
Tunisia	-183	-732	-866	75	85	130	-108	-647	-736
Türkiye	1 398	4 575	7 275	52	206	1 149	1 450	4 781	8 424
Turkmenistan	-89	-289	-280	0	-4	-4	-89	-292	-284
Tuvalu	-1	-4	-7	0	12	13	-1	8	7
Uganda	68	95	222	29	122	112	97	217	334
Ukraine	696	3 845	18 831	-69	-400	-941	627	3 445	17 889
United Arab Emirates	-1 719	-6 932	-6 651	-18	-256	-372	-1 736	-7 188	-7 023
United Kingdom of Great Britain and Northern Ireland	-8 516	-23 828	-30 167	-784	-1 135	-1 761	-9 300	-24 962	-31 929
United Republic of Tanzania	10	-204	742	94	146	159	104	-58	900
United States of America	2 988	18 099	-7 698	-7 420	-10 857	-24 309	-4 431	7 242	-32 007
Uruguay	553	3 199	4 796	97	124	49	650	3 323	4 845
Uzbekistan	-225	-412	-1 489	-1	1	-19	-227	-410	-1 507
Vanuatu	-1	-22	-67	57	57	115	57	35	49
Venezuela (Bolivarian Republic of)	-1 254	-5 843	-2 571	113	-218	141	-1 141	-6 061	-2 430
Viet Nam	1 338	2 227	-7 656	1 451	4 677	6 915	2 789	6 904	-740
Yemen	-667	-2 351	-4 549	16	220	161	-651	-2 131	-4 388
Zambia	-17	76	142	-1	-8	-119	-18	68	23
Zimbabwe	177	-908	-850	-3	-15	-17	173	-924	-867

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/trade/trade_value

TABLE 31.
FOOD IMPORTS, 2021 (USD MILLION)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
World	319 761	266 451	173 918	141 272	128 715	98 456	55 010	360 579	163 398	1 707 562
Africa	7 665	35 906	5 132	15 830	3 242	5 943	8 051	12 680	5 302	99 752
Americas	69 567	47 794	29 178	19 340	40 771	9 284	9 950	58 995	37 823	322 704
Asia	95 092	111 060	77 232	64 230	26 183	31 210	20 678	145 480	51 610	622 775
Europe	144 143	68 736	60 724	40 769	55 610	50 502	15 448	137 291	66 862	640 085
Oceania	3 293	2 954	1 653	1 103	2 909	1 519	882	6 133	1 800	22 246
Afghanistan	380	724	70	463	18	68	205	166	6	2 101
Albania	142	219	121	62	132	63	42	197	124	1 101
Algeria	780	3 922	31	1 271	37	1 598	916	1 254	104	9 914
Andorra									20	
Angola	73	834	423	317	59	106	121	83	28	2 043
Antigua and Barbuda	11	12	24	4	19	8	2	8	8	96
Argentina	596	114	150	110	91	22	37	3 245	210	4 574
Armenia	142	137	87	74	55	57	58	150	14	775
Australia	2 381	1 679	761	640	2 200	1 053	390	4 497	1 409	15 012
Austria	3 407	2 072	1 304	719	1 392	1 063	421	3 257	630	14 264
Azerbaijan	278	522	94	225	75	157	197	395	41	1 983
Bahamas	73	56	127	15	76	38	9	62	20	477
Bahrain	353	247	287	88	62	320	54	233	52	1 697
Bangladesh	1 892	3 940	45	2 716	9	702	1 026	2 159	120	12 610
Barbados	59	54	39	10	36	32	22	71	26	349
Belarus	887	385	191	248	303	70	77	1 093	520	3 775
Belgium	8 374	5 458	2 714	3 080	3 399	4 358	1 065	9 565	2 264	40 277
Belize	8	27	9	23	29	23	1	36	1	157
Benin	26	766	113	80	16	10	34	30	117	1 192
Bhutan	25	52	22	29	13	25	8	23	8	206
Bolivia (Plurinational State of)	65	224	7	20	53	20	28	237	19	674
Bosnia and Herzegovina	250	306	241	100	226	108	72	486	46	1 836
Botswana	144	208	21	60	149	61	87	141	14	885
Brazil	1 582	4 263	357	1 636	867	519	92	1 451	1 227	11 994
Brunei Darussalam	118	116	24	20	49	47	9	115	60	558
Bulgaria	745	399	521	253	395	334	172	1 297	137	4 253
Burkina Faso	22	247	0	22	24	26	28	81	27	477
Burundi	7	59	5	10	8	1	21	21	4	135
Cabo Verde	38	42	32	23	23	34	8	17	5	223
Cambodia	37	315	39	17	272	59	64	191	31	1 026
Cameroon	48	790	9	59	75	70	68	117	238	1 474
Canada	11 685	4 652	3 280	1 125	4 785	761	1 322	8 392	3 346	39 348
Central African Republic	8	20	12	7	3	4	4	19	7	85
Chad	6	53	6	4	5	16	68	33	1	193
Chile	942	1 745	2 497	778	713	451	378	1 206	337	9 049

TABLE 31.
FOOD IMPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
China	31 829	30 497	38 732	15 969	11 248	11 235	3 927	74 427	19 264	237 128
Colombia	671	2 849	508	764	337	186	184	996	527	7 023
Comoros	7	43	38	4	6	8	5	3	4	119
Congo	22	219	263	62	13	23	4	24	96	725
Costa Rica	356	665	174	84	171	66	54	502	107	2 179
Côte d'Ivoire	156	1 031	135	62	156	146	37	192	754	2 669
Croatia	687	497	536	190	310	336	101	870	233	3 760
Cuba	110	808	513	65	56	171	4	230	15	1 972
Cyprus	187	299	115	38	177	95	27	198	84	1 219
Czechia	2 220	1 063	1 495	386	821	855	282	2 395	426	9 945
Democratic People's Republic of Korea	65	376	17	137	16	8	51	50	1	721
Democratic Republic of the Congo	72	318	188	122	16	47	39	75	56	935
Denmark	2 136	968	1 620	739	1 442	929	336	1 834	3 798	13 801
Djibouti	237	461	11	722	26	43	295	75	9	1 879
Dominica	4	8	13	3	5	3	1	4	2	42
Dominican Republic	404	960	381	359	417	314	67	510	260	3 671
Ecuador	270	735	25	253	107	13	76	404	153	2 035
Egypt	1 242	5 106	1 209	1 901	26	619	229	3 710	746	14 788
El Salvador	369	544	328	242	154	304	36	386	34	2 398
Equatorial Guinea	16	44	71	23	75	15	9	12	24	289
Eritrea	8	97	0	14	0	0	22	20	0	162
Estonia	349	152	184	53	275	109	52	364	178	1 716
Eswatini	49	123	14	21	52	31	18	51	6	365
Ethiopia	183	1 835	2	1 386	20	26	593	149	2	4 194
Fiji	63	103	36	41	13	50	11	45	42	404
Finland	1 277	570	330	199	584	392	194	1 168	536	5 250
France	15 045	5 507	6 672	2 728	4 606	4 778	1 194	13 476	7 576	61 582
Gabon	38	172	192	20	38	37	6	35	60	598
Gambia	9	66	12	23	6	15	20	9	1	161
Georgia	145	228	136	101	69	81	83	222	38	1 103
Germany	26 094	8 420	8 285	4 116	7 589	9 364	2 078	22 308	5 719	93 973
Ghana	184	957	636	462	211	163	272	404	163	3 452
Greece	1 078	1 101	1 352	398	379	1 034	258	1 323	640	7 563
Grenada	12	25	20	4	10	11	4	16	5	107
Guatemala	353	1 089	421	345	288	256	95	700	140	3 686
Guinea	59	601	89	90	36	22	106	147	8	1 158
Guinea-Bissau	12	65	6	8	35	9	3	19	6	162
Guyana	39	95	12	20	50	53	21	64	5	357
Haiti	77	591	178	250	65	72	124	76	50	1 484
Honduras	235	596	210	118	212	86	54	397	19	1 926
Hungary	1 069	889	834	350	402	507	229	1 866	123	6 270

TABLE 31.
FOOD IMPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
Iceland	148	110	33	21	105	10	21	147	86	680
India	5 924	193	6	17 347	489	28	317	2 108	153	26 566
Indonesia	3 106	4 616	992	308	133	1 317	2 777	4 249	365	17 864
Iran (Islamic Republic of)	771	7 691	379	1 332	55	94	343	1 700	28	12 391
Iraq	2 229	3 236	899	978	202	773	487	1 110	63	9 976
Ireland	1 453	1 527	1 031	487	1 098	817	403	1 753	309	8 878
Israel	1 106	1 629	869	353	577	191	312	1 759	754	7 549
Italy	7 867	6 058	5 241	4 967	2 210	4 025	1 245	8 555	7 382	47 552
Jamaica	137	325	123	61	72	109	74	133	131	1 165
Japan	9 834	9 103	14 185	1 547	2 902	1 643	1 027	8 973	13 693	62 908
Jordan	545	1 170	412	252	153	307	214	1 048	117	4 216
Kazakhstan	1 088	853	509	316	416	401	348	1 075	162	5 168
Kenya	117	1 088	6	1 054	104	84	263	210	24	2 950
Kiribati	3	12	13	1	3	3	5	7	3	50
Kuwait	968	883	782	237	202	615	142	1 028	266	5 123
Kyrgyzstan	194	132	56	62	70	19	39	136	6	714
Lao People's Democratic Republic	81	73	11	10	250	8	63	298	12	806
Latvia	539	406	266	143	859	240	76	506	241	3 277
Lebanon	231	585	112	197	51	139	141	600	58	2 115
Lesotho	44	134	78	28	50	23	20	41	6	426
Liberia	20	193	85	37	21	24	15	53	25	473
Libya	516	1 204	354	303	92	567	127	585	143	3 891
Lithuania	806	338	400	269	645	423	85	710	616	4 292
Luxembourg	489	269	275	28	549	439	28	382	139	2 598
Madagascar	15	443	1	199	4	25	94	62	33	878
Malawi	20	79	2	67	27	10	12	44	6	267
Malaysia	2 581	3 126	1 021	2 913	488	1 134	1 102	4 414	1 261	18 039
Maldives	156	70	78	23	48	79	13	76	27	569
Mali	72	348	14	26	58	48	49	186	68	871
Malta	108	102	106	17	76	53	18	90	137	706
Marshall Islands									6	
Mauritania	134	272	34	187	3	87	169	39	3	928
Mauritius	106	198	78	63	40	103	58	132	202	980
Mexico	2 953	8 321	5 261	1 476	759	2 078	715	5 793	1 018	28 374
Micronesia (Federated States of)									7	
Mongolia	111	185	61	50	77	58	67	255	9	874
Montenegro	85	92	120	26	80	56	14	143	22	639
Morocco	770	2 617	44	887	135	314	711	932	280	6 691
Mozambique	95	790	76	426	63	59	12	125	100	1 746
Myanmar	38	423	3	913	201	71	55	141	9	1 854

TABLE 31.
FOOD IMPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
Namibia	101	150	64	63	149	48	82	118	59	834
Nauru	2	1	6	0	2	2	0	2		
Nepal	594	766	1	1 118	28	15	87	426	16	3 049
Netherlands (Kingdom of the)	17 672	7 524	6 048	6 684	4 697	5 085	1 179	16 363	4 952	70 204
New Zealand	683	643	294	298	564	198	378	1 227	216	4 500
Nicaragua	73	443	80	125	82	41	29	213	19	1 106
Niger	35	414	9	105	19	23	68	112	5	789
Nigeria	284	2 946	20	2 473	383	584	797	626	870	8 983
North Macedonia	138	143	182	88	62	81	42	228	32	997
Norway	1 661	870	267	969	1 088	197	244	1 542	619	7 458
Oman	921	1 164	360	343	86	769	131	798	89	4 661
Pakistan	1 211	1 076	5	3 593	6	85	245	2 908	9	9 138
Palau									2	
Panama	312	531	197	127	260	148	34	402	101	2 112
Papua New Guinea	30	295	195	80	21	40	49	163	61	934
Paraguay	96	212	17	28	257	33	24	188	11	865
Peru	332	2 181	265	851	178	328	168	802	270	5 374
Philippines	1 377	4 068	1 883	962	320	1 068	426	2 414	619	13 138
Poland	5 118	2 004	1 998	1 786	1 343	1 342	622	5 676	2 909	22 798
Portugal	2 064	1 829	1 482	788	560	675	283	2 413	2 405	12 499
Qatar	650	461	500	115	79	248	58	652	112	2 873
Republic of Korea	4 104	6 024	6 308	2 223	1 248	1 347	1 351	5 444	5 680	33 727
Republic of Moldova	167	117	63	28	78	84	19	205	77	838
Romania	2 036	1 617	1 358	300	628	862	401	2 346	417	9 963
Russian Federation	8 582	1 257	1 674	2 092	3 349	2 943	391	6 471	2 596	29 355
Rwanda	50	225	3	181	30	15	121	59	50	733
Saint Kitts and Nevis	4	7	11	3	6	4	1	4	4	43
Saint Lucia	19	23	46	10	14	11	4	265	9	402
Saint Vincent and the Grenadines	9	23	21	3	13	8	4	18	3	102
Samoa	9	23	34	4	4	19	7	9	11	120
San Marino										
Sao Tome and Principe	6	17	6	4	13	4	2	2	0	55
Saudi Arabia	3 540	5 926	2 226	1 237	171	1 980	1 057	4 371	574	21 083
Senegal	171	1 113	27	215	56	94	93	220	63	2 052
Serbia	646	229	197	119	158	135	70	624	118	2 296
Seychelles	27	22	24	17	19	19	2	21	128	280
Sierra Leone	31	216	56	10	23	18	23	70	9	455
Singapore	1 869	981	1 235	1 213	3 108	1 075	353	2 506	1 068	13 407
Slovakia	1 044	615	871	224	486	543	131	1 366	159	5 440
Slovenia	767	585	329	143	227	223	117	627	157	3 175
Solomon Islands	3	26	23	6	3	6	10	15	3	96

TABLE 31.
FOOD IMPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	FOOD EXCLUDING FISH								FISH	ALL FOOD
	FRUIT AND VEGETABLES	CEREALS AND PREPARATIONS	MEAT AND MEAT PREPARATIONS	FATS AND OILS (EXCLUDING BUTTER)	BEVERAGES	DAIRY PRODUCTS AND EGGS	SUGAR AND HONEY	OTHER FOOD		
Somalia	502	602	22	252	9	198	411	128	11	2 135
South Africa	608	1 307	531	861	592	190	447	1 041	409	5 985
South Sudan	57	120	10	39	32	11	57	60	1	386
Spain	7 235	5 666	1 902	4 011	1 997	2 212	1 050	7 795	8 636	40 506
Sri Lanka	491	611	4	306	24	340	307	284	131	2 498
Sudan	120	768	4	288	5	114	1 008	202	2	2 510
Suriname	25	34	21	24	33	17	13	30	4	201
Sweden	2 783	1 078	1 335	1 087	1 606	1 113	356	2 447	5 588	17 394
Switzerland	3 091	1 455	939	405	2 348	720	324	3 038	905	13 225
Syrian Arab Republic	334	414	28	298	38	129	185	313	22	1 761
Tajikistan	53	363	22	147	43	18	104	109	8	867
Thailand	2 687	2 217	227	300	277	792	384	4 321	3 652	14 856
Timor-Leste	10	64	16	17	20	17	15	28	7	195
Togo	20	99	15	78	28	30	46	53	46	413
Tonga	8	13	34	3	8	14	3	10	5	98
Trinidad and Tobago	161	195	107	69	54	129	58	140	42	954
Tunisia	145	1 271	4	236	13	38	97	526	122	2 453
Türkiye	1 846	4 630	78	2 381	364	109	138	4 643	222	14 411
Turkmenistan	52	27	49	79	10	14	61	68	4	364
Tuvalu	1	1	2	0	1	0	0	2	0	7
Uganda	52	410	6	252	35	6	49	72	9	891
Ukraine	1 271	488	225	446	707	365	167	1 678	1 007	6 355
United Arab Emirates	3 906	2 283	2 149	717	958	1 693	887	3 367	769	16 728
United Kingdom of Great Britain and Northern Ireland	14 591	6 327	7 950	1 998	8 386	3 544	1 587	10 658	4 303	59 344
United Republic of Tanzania	18	294	5	245	48	9	168	49	6	841
United States of America	47 043	14 090	13 389	9 805	30 373	2 591	5 888	31 513	29 555	184 247
Uruguay	167	217	269	139	74	30	70	258	40	1 265
Uzbekistan	200	889	188	519	54	62	366	553	20	2 851
Vanuatu	6	25	19	4	4	7	4	9	7	86
Venezuela (Bolivarian Republic of)	317	1 081	101	392	55	349	257	240	38	2 828
Viet Nam	6 052	5 231	1 558	1 472	870	1 200	1 045	4 399	1 841	23 667
Yemen	603	2 230	264	432	82	431	287	464	35	4 829
Zambia	39	82	28	179	46	25	15	60	126	600
Zimbabwe	42	408	7	280	28	44	22	131	17	979

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL and FAO. 2023. Fisheries and Aquaculture: Global aquatic trade - All partners aggregated Value (1976 - 2021). In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/fishery/statistics-query/en/trade/trade_value

TABLE 32.
CEREALS EXPORTS (THOUSAND TONNES)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	261 088.1	277 513.8	326 384.0	420 809.6	458 269.3	459 294.3	464 441.1	491 717.0	508 365.2
Africa	1 612.5	3 683.2	3 300.4	3 053.7	4 927.5	4 272.6	2 721.3	4 431.2	5 643.6
Americas	134 199.7	130 176.8	152 293.1	170 886.9	194 130.7	197 759.7	204 776.0	212 604.7	211 785.0
Asia	36 236.1	35 272.0	37 169.5	44 415.3	46 327.5	50 124.0	45 032.1	48 242.4	60 500.0
Europe	66 684.7	90 130.6	113 192.8	178 256.0	181 455.4	187 872.8	199 129.4	211 365.0	193 951.0
Oceania	22 355.1	18 251.2	20 428.1	24 197.8	31 428.2	19 265.1	12 782.4	15 073.6	36 485.6
Afghanistan			0.0	0.2	1.3	2.4	12.1	9.0	6.5
Albania	0.0	0.0	0.0	0.0					0.0
Algeria	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	2.7
Andorra									
Angola	0.0	0.0	0.0	0.0	2.6	0.6	2.0	0.6	0.0
Antigua and Barbuda	0.0	0.0	0.0		0.0		0.0	5.1	40.7
Argentina	23 194.4	26 085.4	24 259.8	23 955.9	40 250.2	38 118.5	49 811.9	50 128.7	51 113.6
Armenia	0.0	0.0	0.0	0.9	0.1	0.0	0.0	0.1	2.4
Australia	22 331.1	18 248.7	20 413.7	24 189.9	31 423.2	19 259.1	12 774.9	15 070.6	36 462.7
Austria	944.4	1 265.0	1 163.1	1 246.5	1 332.5	1 112.7	1 179.7	1 297.4	1 414.8
Azerbaijan	2.5	0.6	0.3	0.0	19.4	42.8	17.7	0.0	48.1
Bahamas	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Bahrain	0.1	0.3	0.3	1.0	0.3	0.6	0.7	16.3	0.0
Bangladesh	0.7	4.5	3.9	3.6	7.0	8.3	69.7	33.4	32.8
Barbados	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Belarus	3.7	4.0	23.7	47.7	39.3	65.4	12.1	73.1	133.0
Belgium	1 644.2	1 515.3	1 471.4	1 589.6	1 533.5	1 653.3	1 416.1	1 427.0	1 411.4
Belize	0.6	0.9	10.7	10.9	9.9	17.3	7.8	6.1	9.2
Benin	2.0	5.0	580.5	0.6	0.3	1.2	2.2	0.9	1.0
Bhutan	0.3	0.1	0.4	0.1	0.0	0.0	0.0	0.0	7.0
Bolivia (Plurinational State of)	5.1	10.6	33.9	150.6	44.0	61.3	56.3	53.1	112.8
Bosnia and Herzegovina	51.0	1.5	67.8	77.9	59.6	69.3	24.5	43.5	48.8
Botswana	2.9	3.7	0.9	0.4	1.2	3.0	2.9	6.6	9.3
Brazil	35.0	1 523.7	12 565.3	31 655.2	30 477.3	25 005.0	44 324.0	36 227.7	22 334.0
Brunei Darussalam	0.0	0.0	0.3	0.0	0.2	2.1	0.2	0.1	0.6
Bulgaria	797.1	1 881.4	3 481.6	4 881.5	5 527.4	5 899.8	7 834.8	6 239.7	7 400.9
Burkina Faso	59.2	13.6	33.0	62.6	61.7	10.1	51.6	203.4	53.2
Burundi	0.0	0.0	0.8	0.2		0.6	0.1	0.0	0.0
Cabo Verde	0.0	0.1	0.0	0.0	0.0				
Cambodia	6.4	25.1	277.7	468.1	580.6	639.4	556.8	654.2	636.6
Cameroon	0.2	0.0	4.1	9.3	19.4	37.6	7.7	14.7	15.0
Canada	22 645.1	17 857.5	22 493.5	27 592.6	26 953.8	29 392.0	28 334.3	32 420.8	28 731.5
Central African Republic	0.0	0.0	0.0	0.6					
Chad	0.0	0.0	0.0	0.0			0.0	0.0	0.1
Chile	49.9	82.3	119.7	99.7	58.3	71.0	49.9	36.8	34.7
China	13 682.4	9 743.4	908.9	410.7	1 377.4	2 254.1	2 956.4	2 564.2	2 655.0
Colombia	0.2	1.6	1.3	3.5	3.5	2.2	1.3	3.0	3.1
Comoros	0.0	0.0	0.0						

TABLE 32.
CEREALS EXPORTS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	0.0	4.5	0.5		0.2	0.2	0.2	1.1	0.0
Costa Rica	6.0	4.8	3.6	6.3	10.3	8.1	13.1	23.6	19.5
Côte d'Ivoire	1.5	12.1	15.8	30.7	103.7	36.0	36.5	107.5	58.9
Croatia	353.4	68.4	480.7	817.3	906.8	1 079.2	1 290.4	1 929.1	1 654.2
Cuba						0.0			
Cyprus	0.0	0.0	0.2	0.1	0.2	0.1	0.1	0.1	2.6
Czechia	1 074.3	2 129.6	1 935.2	3 322.7	3 521.9	2 541.5	2 254.7	3 282.9	3 451.0
Democratic People's Republic of Korea	0.0	0.0	0.0	0.0	0.1	1.0	16.5		0.0
Democratic Republic of the Congo	0.1	0.1	93.8	3.1	1.7	0.2	1.2	0.3	3.7
Denmark	1 908.0	799.9	2 450.9	2 268.6	2 002.2	1 333.2	1 364.5	1 648.3	1 603.9
Djibouti	0.0	0.6	0.0	5.8	0.1	0.0		0.2	1.6
Dominica		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dominican Republic	0.0	9.5	20.1	17.8	15.7	14.0	18.3	5.5	1.6
Ecuador	93.8	64.8	26.4	2.9	2.6	33.4	36.8	45.9	27.1
Egypt	394.8	1 118.8	633.5	180.2	37.9	54.4	62.2	41.5	41.4
El Salvador	26.6	1.1	5.5	27.0	3.6	5.6	6.7	10.7	14.1
Equatorial Guinea					0.0	0.0	0.3	0.2	0.5
Eritrea	0.0	0.5	0.0					0.0	
Estonia	21.3	103.4	216.1	806.4	905.5	503.8	1 070.8	1 121.2	722.4
Eswatini	2.0	4.2	0.6	0.5	0.5	0.5	0.6	0.2	0.4
Ethiopia	1.7	16.3	57.9	18.3	32.8	2.0	0.7	11.7	17.6
Fiji	0.1	0.5	0.9	1.5	0.4	0.4	0.5	0.5	1.7
Finland	264.1	374.1	708.9	867.6	634.1	426.7	573.0	736.8	483.8
France	31 164.7	29 198.7	33 795.8	35 102.5	25 525.9	30 611.6	31 296.4	31 589.1	27 400.0
Gabon	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gambia	0.2	0.1	0.0	0.2	0.0	0.1		0.3	5.3
Georgia	7.9	61.1	47.9	18.7	22.0	19.6	9.8	1.3	6.8
Germany	13 427.3	10 045.6	11 844.3	14 547.9	11 293.1	7 866.6	7 912.7	12 550.4	11 545.6
Ghana	2.3	0.0	8.7	1.5	4.2	2.9	0.4	15.3	5.1
Greece	170.8	703.6	644.7	301.1	387.9	462.0	400.5	420.3	675.0
Grenada		0.0	0.0						0.2
Guatemala	8.4	11.0	10.0	8.8	4.0	4.6	2.1	1.8	7.4
Guinea	0.1	3.1	10.0	2.2	1.7	0.1	0.0	0.1	0.1
Guinea-Bissau	0.0	0.0	0.0				0.0		
Guyana	200.5	209.3	149.2	188.6	156.5	135.7	285.3	579.4	421.9
Haiti	0.0			0.1	0.6	0.2	0.4	1.0	0.2
Honduras	1.6	8.4	4.1	5.5	8.4	7.3	6.2	6.8	8.1
Hungary	1 712.8	3 838.5	6 368.9	6 944.7	7 754.9	5 049.9	5 811.1	7 950.5	6 637.3
Iceland	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
India	2 390.6	5 375.9	4 839.5	12 792.4	12 956.2	12 977.7	10 451.2	17 296.8	30 911.9
Indonesia	29.3	109.7	70.8	235.1	4.4	277.0	3.8	64.6	5.8
Iran (Islamic Republic of)	2.7	1.8	520.6	79.6	89.9	47.9	3.1	36.4	90.4
Iraq	0.0	0.3	0.0		0.5	0.1	1.0	0.9	0.7

TABLE 32.
CEREALS EXPORTS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Ireland	181.2	189.2	98.0	186.2	82.4	76.1	172.3	166.1	215.4
Israel	0.2	0.2	37.0	57.2	18.8	10.4	3.8	1.4	0.6
Italy	1 045.7	935.0	1 369.3	1 320.2	1 416.9	944.0	784.2	903.9	967.4
Jamaica	0.0	0.2	0.1	0.0	0.0	1.0	0.3	0.6	0.0
Japan	41.4	12.7	38.3	51.8	34.0	44.1	48.2	40.7	42.5
Jordan	3.2	0.7	5.2	96.5	64.9	448.9	9.2	17.7	101.1
Kazakhstan	5 679.4	2 035.8	5 301.3	4 372.7	5 312.4	8 120.2	7 223.2	6 370.4	5 481.1
Kenya	3.6	14.9	73.0	11.5	108.0	161.5	96.4	110.9	102.1
Kiribati				0.2					
Kuwait	1.3	0.1	0.2	1.3	1.1	1.2	0.6	0.5	0.0
Kyrgyzstan	1.7	0.0	5.0	0.1	1.2	0.8	1.2	5.0	6.8
Lao People's Democratic Republic	0.9	47.1	225.5	259.2	320.7	220.0	219.7	320.6	203.5
Latvia	3.5	480.4	1 285.9	2 257.4	2 376.6	2 079.0	2 960.3	3 478.8	2 707.3
Lebanon	1.9	2.9	35.4	46.6	10.9	10.0	18.2	44.5	59.6
Lesotho				0.3	0.3	0.9	0.5	0.4	0.1
Liberia	0.0	3.4	0.1	25.6	0.0	0.8	0.3	0.0	0.0
Libya	0.1	0.1	0.0	1.9	23.4	2.8	3.7	0.0	
Lithuania	139.0	1 075.0	1 379.4	3 159.9	3 424.2	2 142.2	3 828.8	4 937.6	3 580.4
Luxembourg	15.4	54.2	63.6	69.8	56.1	73.3	73.2	68.1	55.7
Madagascar	3.1	0.2	1.6	4.6	0.8	0.1	0.2	0.2	0.1
Malawi	11.0	0.5	16.8	2.1	7.5	11.8	2.3	1.0	24.6
Malaysia	19.8	10.8	10.3	86.9	52.3	34.4	32.1	72.4	108.6
Maldives								0.0	0.0
Mali	12.8	14.6	1.5	2.3	2.1	1.3	0.7	13.3	19.2
Malta	0.0	0.0	0.0	0.1	11.1	0.6	0.4	0.0	0.0
Marshall Islands									
Mauritania				0.0					
Mauritius	0.1	0.4	0.9	0.0	0.4	0.3	0.1	0.0	0.1
Mexico	554.4	450.4	1 001.5	1 658.9	2 237.6	1 802.7	1 488.6	570.5	413.8
Micronesia (Federated States of)									
Mongolia		0.0	0.0	1.4	0.0	1.4	3.2	0.9	1.8
Montenegro			0.1	0.1	0.0	0.0	0.0	0.4	0.1
Morocco	0.0	0.1	1.5	1.9	0.3	0.3	0.6	0.6	3.5
Mozambique	0.0	1.9	16.2	7.4	9.2	21.6	15.0	12.1	12.9
Myanmar	399.3	364.4	640.6	3 543.8	2 272.5	1 752.4	3 111.3	3 048.7	2 873.5
Namibia	1.3	9.4	0.3	0.5	0.0	0.0	0.1	2.8	4.2
Nauru									
Nepal	0.0	1.0	1.7	0.4	0.8	0.8	0.9	0.1	0.1
Netherlands (Kingdom of the)	504.4	1 132.3	1 176.5	1 274.5	1 488.0	1 640.7	1 776.3	1 505.2	1 036.0
New Zealand	22.9	2.1	13.5	6.3	3.0	3.6	4.1	2.1	4.7
Nicaragua	0.3	2.9	9.6	14.1	9.6	13.0	9.8	6.2	6.2
Niger	0.1	1.1	38.0	35.1	420.1	273.0	6.5	0.1	0.0
Nigeria	25.7	11.9	0.2	21.6	7.2	30.7	43.7	10.4	4.5

TABLE 32.
CEREALS EXPORTS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
North Macedonia	2.8	5.9	6.7	13.6	26.6	44.9	36.8	29.4	48.8
Norway	0.4	0.5	0.5	0.3	1.1	1.6	1.6	1.3	0.8
Oman	36.3	11.7	42.5	29.4	14.3	21.5	11.9	2.6	87.0
Pakistan	2 047.0	2 919.3	4 414.2	4 122.1	3 987.8	5 571.7	4 973.5	4 051.3	4 492.7
Palau									
Panama	0.5	0.0	0.0	0.0	2.7	1.1	0.1	0.3	0.0
Papua New Guinea	1.0	0.0	0.0	0.0	0.0	2.1	2.4	0.2	1.0
Paraguay	297.4	1 130.3	2 656.3	4 558.0	2 776.1	2 508.2	4 087.9	3 193.6	2 884.9
Peru	8.5	8.0	11.7	50.6	62.2	63.4	98.9	108.0	65.6
Philippines	2.6	0.6	0.2	0.9	1.0	0.5	0.8	2.1	1.3
Poland	13.7	1 352.5	1 920.5	6 139.0	4 931.0	4 167.5	4 271.2	9 050.9	8 503.0
Portugal	96.8	258.3	136.6	125.9	243.3	387.9	297.9	244.1	192.5
Qatar	2.2	0.5	0.0	1.1	0.2	0.1			0.1
Republic of Korea	1.6	0.2	4.0	2.1	7.0	67.6	53.1	55.4	52.7
Republic of Moldova	57.0	409.8	341.9	655.0	1 119.9	1 177.7	1 339.0	617.8	1 515.0
Romania	349.8	1 009.9	5 360.3	10 492.3	11 035.1	11 873.3	13 950.6	11 310.5	15 944.9
Russian Federation	1 030.4	12 183.7	13 788.4	30 686.1	43 218.7	54 796.0	39 380.2	44 851.5	34 856.3
Rwanda	0.0	0.2	1.9	33.7	59.5	55.4	58.0	37.3	65.2
Saint Kitts and Nevis		0.0	0.0				0.0	20.5	
Saint Lucia		0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1
Saint Vincent and the Grenadines	2.9	4.2	3.3	2.8	2.4	1.6	0.6	0.1	0.3
Samoa	0.0	0.0	0.0		0.0	0.0	0.1	0.0	15.4
San Marino									
Sao Tome and Principe			0.0	0.0					
Saudi Arabia	7.2	16.9	29.7	13.4	24.0	12.5	0.0	4.3	3.6
Senegal	0.4	7.9	55.8	111.7	85.2	118.2	135.7	64.8	104.3
Serbia			2 110.6	2 622.7	2 051.0	2 497.2	3 508.3	4 219.1	3 501.5
Seychelles	0.0	0.0	0.0	0.0	0.0	0.0			1.0
Sierra Leone				0.0		0.0		0.0	0.0
Singapore	8.8	86.0	46.0	137.7	71.5	42.3	80.8	100.6	152.6
Slovakia	275.7	528.4	682.4	1 870.8	1 895.1	1 382.4	1 415.5	2 060.7	1 937.4
Slovenia	74.6	32.0	214.9	292.1	529.2	689.5	903.0	988.8	1 120.6
Solomon Islands	0.0	0.0	0.0		1.6				
Somalia				0.0	0.1	0.1	0.1	0.0	2.9
South Africa	753.2	2 180.6	1 291.4	1 127.7	2 405.0	2 387.5	1 440.7	2 904.1	3 726.2
South Sudan				0.0	0.0	0.0	0.7	0.1	0.9
Spain	1 017.3	681.2	1 137.9	993.1	916.4	1 129.0	1 177.1	1 155.6	1 036.5
Sri Lanka	2.0	14.1	15.5	17.1	8.3	6.2	6.9	12.3	15.5
Sudan				6.3	566.0	41.8	131.4	1.7	9.0
Suriname	37.3	29.9	76.7	27.4	66.6	46.8	63.6	56.4	59.0
Sweden	1 453.8	965.3	991.4	1 983.3	1 432.7	954.7	1 083.2	1 778.5	1 242.0
Switzerland	0.4	0.8	1.6	4.2	3.4	4.3	7.2	5.3	3.3
Syrian Arab Republic	1.7	458.8	31.0	28.8	0.5	0.0	52.7	524.6	42.4
Tajikistan		3.7	1.6	9.7	0.7	0.3	0.4	0.1	0.7

TABLE 32.
CEREALS EXPORTS (THOUSAND TONNES) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Thailand	6 153.2	7 581.0	9 404.6	9 899.4	12 208.9	11 315.7	7 875.1	5 698.5	6 193.6
Timor-Leste					0.0	0.1			
Togo	2.5	0.1	5.6	1.8	2.9	2.6	0.8	2.4	1.7
Tonga			0.0		0.0	0.0		0.0	0.0
Trinidad and Tobago	1.9	22.5	7.0	2.1	3.0	1.6	0.6	1.3	5.4
Tunisia	39.3	12.0	0.0	11.1	0.6	5.3	0.4	0.1	1.6
Türkiye	1 980.3	745.8	1 737.0	172.0	224.9	195.2	1 079.9	793.5	989.2
Turkmenistan				12.8	26.0	30.0	37.6	39.0	35.1
Tuvalu								0.0	
Uganda	6.9	73.8	186.5	448.2	584.6	666.5	300.9	335.9	61.9
Ukraine	1 283.8	12 488.7	11 974.7	37 426.3	41 826.7	41 678.3	56 710.4	51 316.0	49 640.0
United Arab Emirates	227.2	261.1	1 401.6	563.3	399.1	408.9	327.2	230.5	243.7
United Kingdom of Great Britain and Northern Ireland	5 300.7	3 417.4	4 498.4	3 861.6	1 945.4	1 457.5	3 010.7	2 365.6	1 263.8
United Republic of Tanzania	75.4	115.7	99.4	150.4	25.9	271.5	261.0	455.9	1 162.1
United States of America	86 237.3	81 835.6	86 434.6	79 463.8	89 636.6	99 581.4	74 841.3	87 701.5	103 976.8
Uruguay	726.9	808.7	2 384.8	1 383.8	1 335.4	862.8	1 230.0	1 389.4	1 493.3
Uzbekistan	2.8	57.3	134.1	200.0	277.9	107.1	113.7	57.6	26.8
Vanuatu	0.0	0.0	0.0			0.0		0.2	
Venezuela (Bolivarian Republic of)	65.0	12.8	4.4	0.0	0.0				0.0
Viet Nam	3 486.1	5 252.5	6 920.9	6 640.5	5 896.5	5 392.2	5 631.5	6 052.6	4 860.0
Yemen	3.7	56.9	15.2	19.9	16.3	23.6	12.4	13.1	12.8
Zambia	14.6	47.3	64.0	728.9	330.8	63.3	43.7	65.0	117.3
Zimbabwe	142.5	1.3	0.2	2.5	19.6	5.9	9.0	6.7	2.5

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL

TABLE 33.
CEREALS IMPORTS AND EXPORTS BY MAIN COMMODITIES, 2021 (THOUSAND TONNES)

COUNTRY	IMPORTS				EXPORTS			
	WHEAT	MAIZE	RICE	OTHER	WHEAT	MAIZE	RICE	OTHER
World	201 010.2	199 321.1	50 919.1	63 185.9	198 139.3	196 075.4	50 654.8	63 495.6
Africa	44 919.7	17 554.7	17 628.7	4 043.7	289.3	4 071.4	1 038.7	244.2
Americas	23 048.7	44 653.2	5 496.1	3 725.0	57 402.5	131 210.7	5 800.6	17 371.1
Asia	96 385.2	101 256.1	22 565.9	40 666.1	10 463.4	6 576.1	41 448.3	2 012.2
Europe	35 707.5	35 740.5	4 510.7	14 649.0	104 419.1	54 127.7	2 276.4	33 127.8
Oceania	949.0	116.6	717.8	102.0	25 565.1	89.5	90.8	10 740.2
Afghanistan	450.0	8.9	325.4	40.6		0.1	0.0	6.4
Albania	217.8	72.2	21.9	3.9			0.0	0.0
Algeria	8 025.2	3 669.7	135.7	786.0	2.5		0.0	0.2
Andorra								
Angola	554.6	49.8	483.8	0.2	0.0	0.0	0.0	0.0
Antigua and Barbuda		0.0	2.5	0.0	33.5	2.8	4.4	0.0
Argentina	0.1	5.5	2.2	14.4	9 485.2	36 912.0	274.6	4 441.8
Armenia	272.5	66.7	8.9	35.9	2.4	0.0	0.0	0.0
Australia	1.1	2.5	203.7	4.4	25 563.0	86.9	73.3	10 739.5
Austria	1 189.7	1 085.4	38.5	242.4	742.7	515.1	3.8	153.2
Azerbaijan	1 148.1	30.9	46.7	24.8	0.0	11.7	0.0	36.4
Bahamas	0.1	2.8	9.9	0.1			0.0	
Bahrain	91.9	19.0	63.9	6.1		0.0	0.0	0.0
Bangladesh	6 982.4	1 774.9	2 579.1	14.7	0.0	20.2	12.5	0.1
Barbados	12.2	28.5	4.4	0.1		0.1	0.0	0.0
Belarus	193.3	57.4	27.6	101.2	49.8	50.8	0.1	32.2
Belgium	4 394.7	1 919.1	617.9	2 392.0	581.7	204.6	428.9	196.2
Belize	24.3	0.7	0.4	0.2		8.7	0.3	0.1
Benin	55.1	4.7	1 394.4	0.0		0.8	0.2	0.0
Bhutan	2.0	26.4	93.7	0.6		7.0	0.0	0.0
Bolivia (Plurinational State of)	54.4	29.1	7.7	3.0		57.7	0.0	55.1
Bosnia and Herzegovina	274.9	132.8	7.3	27.6	40.4	7.9	0.0	0.4
Botswana	105.2	264.6	34.3	1.7	0.3	1.4	0.8	6.7
Brazil	6 225.1	3 205.6	686.8	523.6	1 129.3	20 429.6	770.9	4.2
Brunei Darussalam	0.0	24.4	28.4	0.1		0.6	0.0	0.0
Bulgaria	49.7	88.1	51.6	8.2	5 119.2	1 759.3	73.9	448.4
Burkina Faso	199.0	0.9	264.7	12.0		40.1	0.9	12.3
Burundi	73.8	10.8	21.9	10.2	0.0	0.0	0.0	0.0
Cabo Verde	4.6	32.3	26.0	0.2			0.0	
Cambodia	17.1	261.9	10.0	7.8		1.0	635.6	0.0
Cameroon	894.6	22.4	867.1	4.9	0.0	0.0	15.0	0.0
Canada	217.8	2 844.3	410.8	354.3	21 546.5	1 688.2	17.5	5 479.3
Central African Republic	0.0	0.0	15.0	0.0			0.0	
Chad	30.0	10.0	2.1	25.0			0.0	0.1
Chile	1 399.3	2 400.8	188.7	140.6	0.0	30.8	0.1	3.8
China	10 987.2	32 705.8	5 339.8	22 350.0	4.4	6.8	2 615.7	28.1
Colombia	1 990.3	6 039.6	28.6	348.3	0.0	1.8	1.3	0.1

TABLE 33.
CEREALS IMPORTS AND EXPORTS BY MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	IMPORTS				EXPORTS			
	WHEAT	MAIZE	RICE	OTHER	WHEAT	MAIZE	RICE	OTHER
Comoros	0.0	0.0	58.8	0.0			0.0	
Congo	261.9	6.6	88.2	0.1			0.0	0.0
Costa Rica	275.9	1 065.5	125.7	1.7		0.1	19.4	0.0
Côte d'Ivoire	516.8	10.2	1 420.3	24.1	2.2	37.0	19.6	0.1
Croatia	111.2	49.2	11.8	56.0	548.5	937.0	0.1	168.6
Cuba	501.6	509.4	630.6	1.0			0.0	
Cyprus	72.5	270.3	7.5	231.8	0.0	2.6	0.1	0.0
Czechia	59.7	173.6	102.8	65.7	2 270.6	495.4	21.6	663.4
Democratic People's Republic of Korea	230.0	300.0	120.0				0.0	0.0
Democratic Republic of the Congo	404.6	58.0	167.1	0.5		0.5	0.0	3.2
Denmark	126.5	147.2	43.0	90.3	561.7	27.2	6.4	1 008.6
Djibouti	326.1	2.3	523.0	13.9		0.3	1.3	0.0
Dominica	0.0	0.1	1.3	0.0			0.0	0.0
Dominican Republic	572.5	1 363.1	37.0	13.1	0.0	0.7	0.7	0.1
Ecuador	1 505.3	71.9	0.7	58.0	0.0	4.7	20.9	1.5
Egypt	5 773.7	6 982.0	153.7	8.8	0.0	4.8	31.5	5.0
El Salvador	305.7	606.8	66.4	0.7	1.3	8.6	3.9	0.3
Equatorial Guinea	0.0	0.1	22.4	0.1			0.5	
Eritrea	60.2	0.0	0.4	62.2			0.0	
Estonia	10.1	24.2	4.0	17.5	433.9	0.1	0.3	288.1
Eswatini	51.4	163.2	39.0	3.7		0.2	0.2	0.0
Ethiopia	1 836.4	4.6	1 400.4	105.7		0.0	0.0	17.6
Fiji	112.3	0.1	49.2	0.2		0.0	1.7	0.0
Finland	10.0	32.2	29.7	41.9	35.9	0.0	0.1	447.8
France	263.8	568.2	572.8	153.8	16 090.5	4 303.0	45.3	6 961.2
Gabon	124.0	0.4	58.4	0.3			0.0	0.0
Gambia	33.5	0.5	191.8	0.0			0.0	5.3
Georgia	366.8	79.8	10.0	9.5	1.6	2.4	0.4	2.4
Germany	3 921.5	2 976.7	394.9	3 304.0	7 100.1	755.3	46.6	3 643.6
Ghana	816.4	87.0	734.8	1.0	0.0	3.7	1.0	0.3
Greece	1 105.0	667.7	17.9	192.9	537.6	11.9	122.7	2.8
Grenada	13.8	21.9	1.7	0.0	0.2	0.0	0.0	
Guatemala	624.2	1 415.1	84.3	2.7	0.0	6.8	0.5	0.0
Guinea	386.2	2.3	937.9	0.0	0.0	0.0	0.0	0.1
Guinea-Bissau	0.0	0.0	112.3	0.0			0.0	
Guyana	48.5	49.3	0.1	0.1		0.0	421.9	0.0
Haiti	267.2	7.2	436.5	1.9	0.0	0.0	0.1	0.0
Honduras	264.4	751.9	116.3	0.2	0.5	3.6	3.8	0.2
Hungary	173.0	439.4	36.8	77.8	2 482.5	3 270.5	5.0	879.4
Iceland	31.3	18.7	1.5	13.3		0.0	0.0	0.0
India	0.1	24.4	3.6	62.0	6 090.6	3 615.8	21 034.7	170.9
Indonesia	11 481.4	996.0	407.7	89.3		2.5	3.2	0.0
Iran (Islamic Republic of)	7 075.2	9 778.8	883.2	3 342.4		81.9	2.6	6.0

TABLE 33.
CEREALS IMPORTS AND EXPORTS BY MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	IMPORTS				EXPORTS			
	WHEAT	MAIZE	RICE	OTHER	WHEAT	MAIZE	RICE	OTHER
Iraq	1 261.9	1 063.3	1 255.4	392.6	0.6		0.1	0.0
Ireland	203.4	1 220.0	22.2	178.2	49.9	129.1	0.5	35.8
Israel	1 632.8	1 230.8	162.5	536.7	0.1	0.0	0.1	0.4
Italy	7 298.5	5 210.5	206.3	778.0	206.9	43.1	704.3	13.2
Jamaica	190.9	298.3	97.3	1.5		0.0	0.0	0.0
Japan	5 126.1	15 239.7	662.3	1 558.1		0.0	42.4	0.1
Jordan	853.1	778.2	177.9	745.0	42.5	57.3	1.3	0.0
Kazakhstan	1 048.2	8.2	184.7	99.7	3 814.5	57.5	122.1	1 486.9
Kenya	1 889.9	483.4	618.6	195.8	1.0	8.4	0.4	92.3
Kiribati		0.0	9.3	0.0			0.0	
Kuwait	484.9	118.6	199.9	527.8		0.0	0.0	0.0
Kyrgyzstan	204.3	1.2	7.6	20.3	0.0	5.7	1.1	0.0
Lao People's Democratic Republic	0.9	4.0	84.5	4.8		116.3	83.4	3.7
Latvia	629.7	87.1	7.1	149.3	2 267.8	37.0	2.0	400.5
Lebanon	754.2	439.8	60.8	52.3	8.4	14.3	32.3	4.6
Lesotho	33.5	75.5	10.5	0.2	0.0	0.0	0.0	0.0
Liberia	16.6	1.1	378.3	0.0			0.0	
Libya	1 267.7	605.6	143.4	958.4			0.0	
Lithuania	71.1	135.7	20.2	74.0	3 061.4	99.4	8.3	411.4
Luxembourg	137.4	14.9	3.6	5.3	23.0	11.5	0.1	21.1
Madagascar	156.3	0.6	631.6	21.5	0.0	0.1	0.0	0.0
Malawi	162.5	2.7	0.7	0.0	0.0	22.8	0.6	1.1
Malaysia	1 318.1	3 555.9	1 142.0	48.3	0.5	11.1	96.7	0.3
Maldives	0.0	0.2	28.8	0.8			0.0	0.0
Mali	278.8	0.2	158.7	0.0		6.2	0.0	13.0
Malta	18.6	48.3	3.2	11.9			0.0	0.0
Marshall Islands								
Mauritania	651.1	23.0	44.2	0.8			0.0	
Mauritius	162.7	96.8	53.6	0.7		0.0	0.1	0.0
Mexico	4 093.7	17 396.1	661.0	145.1	313.9	97.1	2.8	0.0
Micronesia (Federated States of)								
Mongolia	227.1	8.2	49.1	29.1	0.0		0.0	1.8
Montenegro	9.2	22.1	1.8	2.4		0.1	0.1	0.0
Morocco	4 668.5	2 171.9	50.5	322.2	0.0	0.0	3.5	0.0
Mozambique	747.3	188.4	1 541.1	0.2	7.8	3.5	1.5	0.0
Myanmar	452.0	13.6	0.8	3.6		1 268.4	1 598.3	6.8
Namibia	49.4	167.2	21.5	1.8	0.0	4.2	0.0	0.0
Nauru		0.0	0.1	0.0			0.0	
Nepal	265.3	584.5	1 098.3	22.8	0.0	0.0	0.0	0.1
Netherlands (Kingdom of the)	4 963.0	5 152.9	427.7	3 434.8	205.3	416.1	257.1	157.4
New Zealand	539.4	109.9	52.9	62.2	1.0	2.6	0.3	0.7
Nicaragua	124.9	507.4	96.8	0.4	0.0	0.1	6.0	0.1
Niger		40.6	529.6	12.8			0.0	0.0

TABLE 33.
CEREALS IMPORTS AND EXPORTS BY MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	IMPORTS				EXPORTS			
	WHEAT	MAIZE	RICE	OTHER	WHEAT	MAIZE	RICE	OTHER
Nigeria	6 369.7	300.0	16.2	14.1	0.0	0.2	0.2	4.1
North Macedonia	77.2	58.2	0.8	1.5	19.3	16.6	3.9	8.9
Norway	325.2	89.5	25.1	26.6	0.0	0.0	0.2	0.6
Oman	2 803.6	335.3	215.2	89.5	2.2	72.3	12.1	0.5
Pakistan	2 486.2	29.0	7.7	18.0		556.7	3 933.0	3.0
Palau								
Panama	164.4	713.2	26.6	1.0			0.0	
Papua New Guinea	252.6	0.1	304.6	31.1	1.0		0.0	
Paraguay	0.1	71.8	0.4	0.5	337.5	1 902.9	643.7	0.8
Peru	1 983.5	3 654.0	237.2	163.5	0.1	12.0	0.9	52.5
Philippines	6 029.3	459.7	2 966.5	398.7		0.9	0.4	0.0
Poland	594.9	222.0	212.8	290.4	3 591.5	2 286.0	38.4	2 587.0
Portugal	1 119.0	2 115.0	140.1	514.7	3.9	89.9	92.0	6.8
Qatar	188.9	72.2	160.9	182.9		0.1	0.0	
Republic of Korea	4 422.1	11 653.5	449.5	114.9		0.0	52.4	0.3
Republic of Moldova	1.8	7.3	9.1	1.3	871.5	490.0	0.0	153.5
Romania	953.1	961.4	63.5	414.2	6 907.7	6 904.4	18.8	2 114.0
Russian Federation	123.2	35.0	190.7	13.1	27 366.4	2 936.4	117.4	4 436.2
Rwanda	171.9	67.7	159.8	33.8		0.4	64.7	0.0
Saint Kitts and Nevis		0.2	1.1	0.1			0.0	
Saint Lucia	6.9	3.0	3.1	0.1		0.1	0.0	0.0
Saint Vincent and the Grenadines	23.1	14.0	2.0	0.0	0.0	0.1	0.2	0.0
Samoa	0.0	0.0	34.4	0.0			15.4	
San Marino								
Sao Tome and Principe		0.0	11.5	0.0			0.0	
Saudi Arabia	2 277.2	2 935.1	1 172.5	5 395.7	0.0	0.1	3.4	0.0
Senegal	753.8	398.5	1 193.7	0.0	7.5	0.2	96.2	0.4
Serbia	1.4	4.9	12.4	7.2	1 070.9	2 300.6	0.8	129.2
Seychelles	0.1	7.9	6.2	0.3	1.0		0.0	
Sierra Leone	10.0	0.4	397.1	0.3			0.0	0.0
Singapore	198.4	7.5	380.7	1.8	0.0	0.1	152.2	0.3
Slovakia	15.6	151.3	29.8	73.5	1 163.1	584.5	3.8	185.9
Slovenia	446.5	616.4	17.0	32.6	422.4	658.8	11.1	28.3
Solomon Islands	13.2	0.2	27.0	0.0			0.0	
Somalia	73.3	2.3	496.6	77.0	0.0	2.9	0.0	0.0
South Africa	1 710.6	20.2	1 003.0	36.3	264.1	3 327.2	120.6	14.2
South Sudan		33.3	20.0	64.9		0.5	0.0	0.4
Spain	4 017.7	8 293.5	265.3	1 426.9	298.8	126.8	223.0	387.9
Sri Lanka	1 306.6	8.2	147.1	17.7	8.6	0.0	6.8	0.2
Sudan	1 857.3	31.7	91.1	90.2		3.7	0.0	5.3
Suriname	19.4	9.7	0.4	0.1		0.0	58.9	0.0
Sweden	47.3	45.7	64.7	49.2	604.5	0.4	1.6	635.6
Switzerland	427.8	158.3	110.0	112.0	0.3	0.1	2.1	0.9

TABLE 33.
CEREALS IMPORTS AND EXPORTS BY MAIN COMMODITIES, 2021 (THOUSAND TONNES) (CONTINUED)

COUNTRY	IMPORTS				EXPORTS			
	WHEAT	MAIZE	RICE	OTHER	WHEAT	MAIZE	RICE	OTHER
Syrian Arab Republic	31.7	124.3	180.9	103.2	38.3	0.4	0.1	3.6
Tajikistan	1 028.3	29.0	30.4	35.4	0.7		0.0	
Thailand	2 675.3	1 846.9	25.2	770.7	0.0	122.5	6 065.1	6.0
Timor-Leste	0.0	0.2	111.8	0.0			0.0	
Togo	164.2	1.2	227.7	0.0		0.0	1.3	0.3
Tonga		0.0	0.5	0.0		0.0	0.0	
Trinidad and Tobago	116.6	83.4	41.6	0.6	3.9	0.9	0.5	0.0
Tunisia	1 890.7	994.1	15.6	1 015.5		1.0	0.6	0.0
Türkiye	8 877.3	2 303.9	328.6	2 449.3	264.5	312.4	241.4	170.9
Turkmenistan	12.1	0.1	0.4	0.1	35.0		0.0	0.1
Tuvalu			0.6				0.0	
Uganda	377.8	86.1	435.1	84.8	0.0	2.7	46.0	13.2
Ukraine	17.7	18.6	76.2	64.9	19 394.9	24 539.5	8.9	5 696.7
United Arab Emirates	1 410.2	656.8	561.5	540.5	87.3	35.7	58.8	61.9
United Kingdom of Great Britain and Northern Ireland	2 059.9	2 619.7	620.8	198.9	294.5	119.4	27.2	822.7
United Republic of Tanzania	681.1	14.9	0.0	31.6	1.6	480.5	631.5	48.4
United States of America	1 450.8	651.5	953.9	1 942.7	24 014.2	70 041.4	2 837.6	7 083.7
Uruguay	2.6	102.1	0.5	4.8	536.5	0.0	709.5	247.4
Uzbekistan	2 173.3	57.2	27.6	60.3	24.9	0.0	0.1	1.9
Vanuatu	0.0	0.0	19.1	0.0			0.0	
Venezuela (Bolivarian Republic of)	569.5	729.5	531.4	0.4		0.0	0.0	0.0
Viet Nam	4 538.7	10 603.5	81.2	175.4	35.5	181.1	4 636.1	7.2
Yemen	3 065.1	660.8	640.3	5.9	0.8	10.6	0.0	1.4
Zambia	60.6	4.5	18.3	0.4	0.9	115.8	0.3	0.3
Zimbabwe	180.7	352.5	200.8	19.4		2.3	0.0	0.2

Source: FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL

TABLE 34.
FOREST PRODUCTS EXPORTS, 2021 (USD MILLION)

COUNTRY	PAPER AND PAPERBOARD	SAWNWOOD	WOOD-BASED PANELS	PULP FOR PAPER	ROUNDWOOD	RECOVERED PAPER	OTHER	TOTAL
World	101 136.9	54 520.5	44 774.2	37 217.5	17 076.1	9 645.8	21 175.8	285 546.8
Africa	641.7	1 383.2	240.4	35.9	1 523.6	58.3	1 508.6	5 391.7
Americas	17 011.6	19 825.8	8 857.7	21 427.5	3 762.3	3 686.4	5 015.8	79 587.1
Asia	22 268.1	2 736.5	15 517.5	3 625.5	693.8	1 130.2	6 176.5	52 147.9
Europe	60 274.6	29 778.9	19 879.5	11 277.1	7 080.9	4 514.0	7 523.2	140 328.4
Oceania	940.9	796.2	279.1	851.5	4 015.5	257.0	951.8	8 091.8
Afghanistan	1.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3
Albania	0.3	0.0	0.9	0.0	2.2	0.8	1.9	6.1
Algeria	7.5	0.0	0.0	0.0	0.0	6.3	0.0	13.8
Andorra	1.9	0.0	0.0		0.1	0.1	0.1	2.2
Angola	0.1	20.9	0.0	0.6	28.0	0.1	0.2	49.8
Antigua and Barbuda	0.1	0.0	0.0		0.0	0.0	0.0	0.2
Argentina	158.1	115.8	74.4	141.4	69.1	0.0	22.1	581.0
Armenia	0.3	0.3	0.1	0.0	0.0	0.2	0.0	0.9
Australia	625.0	52.9	29.6	0.3	252.8	205.0	801.7	1 967.3
Austria	3 340.9	2 348.9	1 711.6	202.8	116.3	56.9	371.0	8 148.4
Azerbaijan	1.9	0.0	0.9	0.0	0.0	0.0	0.0	2.9
Bahamas	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.5
Bahrain	0.7	0.3	0.0	0.3	0.0	8.3	1.0	10.7
Bangladesh	11.7	0.1	1.0	0.0	0.0	0.0	2.9	15.7
Barbados	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.7
Belarus	73.7	503.2	585.2	96.0	29.3	9.8	162.9	1 460.1
Belgium	1 511.4	692.0	1 199.7	113.4	326.6	252.0	196.5	4 291.6
Belize	0.4	1.9	0.4	0.2	28.5	0.0	0.2	31.7
Benin	0.5	29.1	0.0	0.0	16.3	0.0	0.6	46.6
Bhutan	1.0	0.1	1.2	0.1	0.0	0.0	0.2	2.6
Bolivia (Plurinational State of)	3.6	42.9	3.2	0.0	14.1	0.0	3.6	67.3
Bosnia and Herzegovina	132.7	283.9	22.0	0.0	70.2	8.1	50.1	567.0
Botswana	0.6	0.0	0.0	0.0	0.0	1.6	0.0	2.2
Brazil	1 576.4	1 351.6	1 678.3	6 454.8	222.5	2.8	585.9	11 872.3
Brunei Darussalam	0.6	0.1	0.0	0.0	0.0	0.4	0.0	1.1
Bulgaria	206.5	41.0	216.7	60.2	13.9	23.4	49.8	611.6
Burkina Faso	0.2	0.0	0.0	0.1	1.2	0.0	0.9	2.3
Burundi	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Cabo Verde	0.1	0.0	0.0		0.0	0.0	0.0	0.1
Cambodia	0.7	12.4	273.5	0.0	34.7	0.1	3.3	324.6
Cameroon	0.1	405.7	2.3		248.3	0.0	47.2	703.7
Canada	4 887.9	13 446.0	5 069.6	5 488.6	524.0	263.1	1 273.2	30 952.5
Central African Republic	0.1	9.9	0.0	0.0	42.4	0.0	0.0	52.4
Chad	0.1	0.0	0.0	0.0	0.0		0.0	0.1
Chile	430.8	927.8	679.3	2 495.1	32.1	5.7	277.3	4 848.1
China	6 981.5	207.7	7 516.2	281.4	12.8	121.4	945.6	16 066.7
Colombia	84.4	7.9	2.0	1.1	40.7	0.7	5.9	142.7

TABLE 34.
FOREST PRODUCTS EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	SAWNWOOD	WOOD-BASED PANELS	PULP FOR PAPER	ROUNDWOOD	RECOVERED PAPER	OTHER	TOTAL
Comoros	0.0	0.6	0.0	0.0	0.0		0.0	0.6
Congo	0.0	176.7	0.1	0.0	237.2	0.0	12.3	426.3
Costa Rica	23.7	7.8	0.4	0.0	39.2	13.1	0.3	84.5
Côte d'Ivoire	0.1	54.0	17.6	0.0	16.8	0.6	44.0	133.2
Croatia	146.9	500.9	93.8	19.7	121.2	37.5	196.2	1 116.1
Cuba	1.3	0.0	0.0		0.0	0.0	37.2	38.5
Cyprus	0.1	0.0	0.0	0.0	0.0	5.0	0.0	5.1
Czechia	973.3	437.2	494.2	48.4	899.6	84.3	345.3	3 282.3
Democratic People's Republic of Korea	0.6	0.0	0.0	0.3	0.0	0.0	0.7	1.7
Democratic Republic of the Congo	0.1	44.3	0.0	0.0	106.8	0.0	0.8	152.0
Denmark	222.4	56.3	53.2	7.2	66.9	55.8	252.3	714.1
Djibouti	1.7	0.0	0.0	0.0	0.0	0.0	1.6	3.3
Dominica	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Dominican Republic	25.4	0.2	0.7	0.0	0.0	22.3	0.2	48.8
Ecuador	30.1	58.4	289.9	0.6	125.0	0.7	0.8	505.5
Egypt	128.2	1.0	2.4	0.6	0.2	0.0	6.2	138.5
El Salvador	33.2	0.1	0.1	0.0	1.6	9.2	0.9	45.2
Equatorial Guinea	0.2	5.6	0.0		83.2		12.6	101.6
Eritrea	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Estonia	85.5	534.5	248.8	134.9	140.2	15.2	364.2	1 523.3
Eswatini	1.9	84.5	8.1	0.7	41.0	1.0	1.3	138.5
Ethiopia	0.7	1.4	0.0	0.0	0.1	0.0	0.1	2.3
Fiji	1.2	16.0	0.3	0.0	1.1	0.2	36.4	55.1
Finland	7 408.1	3 043.2	687.8	2 800.3	113.1	24.5	332.2	14 409.1
France	4 061.0	964.9	935.5	274.5	578.6	504.9	408.7	7 728.0
Gabon	0.4	328.4	35.5	0.0	0.6	0.0	242.2	607.0
Gambia	0.1	18.1	0.0		17.2	0.0	0.5	35.8
Georgia	7.2	14.2	10.4	0.0	0.0	2.2	0.4	34.4
Germany	13 436.2	4 391.7	3 511.4	892.9	1 199.2	362.3	573.8	24 367.3
Ghana	0.3	74.1	12.0	0.0	91.8	0.0	17.4	195.6
Greece	98.8	6.0	54.7	0.7	1.8	9.4	6.0	177.5
Grenada	0.0	0.0	0.0		0.0		0.0	0.0
Guatemala	18.7	14.1	27.0	0.1	12.1	25.3	1.4	98.7
Guinea	0.3	0.5	0.4		0.1	0.0	0.6	1.9
Guinea-Bissau	0.2	0.0	0.1	0.1	0.0	0.0	0.1	0.5
Guyana	0.5	28.1	0.9	0.5	19.9	0.0	0.3	50.2
Haiti	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Honduras	23.1	30.5	5.4	0.0	4.9	8.1	0.9	72.9
Hungary	472.1	89.2	238.5	8.1	68.5	29.4	27.9	933.8
Iceland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
India	1 898.2	9.8	104.9	3.2	33.4	1.5	77.6	2 128.6
Indonesia	3 734.8	192.5	2 627.4	2 596.5	19.6	2.5	1 271.3	10 444.6
Iran (Islamic Republic of)	1.1	0.2	4.6	0.4	0.0	0.0	0.1	6.4

TABLE 34.
FOREST PRODUCTS EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	SAWNWOOD	WOOD-BASED PANELS	PULP FOR PAPER	ROUNDWOOD	RECOVERED PAPER	OTHER	TOTAL
Iraq	0.1	0.0	0.0	0.0	0.0	10.8	0.1	11.1
Ireland	35.6	271.9	404.3	0.1	34.5	97.9	16.4	860.8
Israel	91.7	0.0	0.9	0.0	0.0	10.2	0.0	102.9
Italy	3 803.9	354.2	891.8	96.2	50.5	321.8	191.8	5 710.4
Jamaica	0.6	0.1	0.6	0.0	0.0	0.5	0.3	2.0
Japan	2 168.9	88.8	80.3	162.5	191.5	512.5	106.7	3 311.2
Jordan	52.7	0.4	5.1	1.1	0.2	3.5	0.5	63.4
Kazakhstan	22.3	3.7	4.1	2.7	4.1	2.6	0.3	39.8
Kenya	23.4	1.0	5.0	0.2	8.2	1.4	0.0	39.2
Kiribati		0.0	0.0		0.0		0.0	0.0
Kuwait	38.0	0.0	0.3	0.6	0.0	6.7	0.2	45.9
Kyrgyzstan	0.6	5.6	1.8	0.0	2.0	0.0	0.0	10.2
Lao People's Democratic Republic	0.2	175.5	2.2	16.8	110.0	1.0	320.4	626.0
Latvia	42.1	1 465.5	668.8	6.4	316.8	23.0	554.3	3 076.9
Lebanon	15.1	0.8	2.6	0.0	0.0	0.2	0.3	19.0
Lesotho	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1
Liberia	0.4	1.2	0.0		22.9	0.0	0.0	24.5
Libya	0.4	0.0	0.0	0.0	0.0	1.2	0.0	1.6
Lithuania	120.8	489.1	79.5	7.3	193.2	19.6	169.2	1 078.8
Luxembourg	24.2	17.2	318.1	0.0	29.9	13.6	9.2	412.1
Madagascar	2.5	5.9	0.2	0.0	7.0	0.5	0.4	16.5
Malawi	0.3	0.7	3.8	0.0	0.0	0.0	0.0	4.8
Malaysia	617.3	610.5	1 106.2	4.0	178.4	2.2	359.8	2 878.4
Maldives	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Mali	0.3	0.0	0.0	0.0	28.9	0.0	0.1	29.3
Malta	3.2	0.0	0.0	0.0	0.0	1.9	0.0	5.1
Marshall Islands	0.0	0.0	0.0		0.0		0.1	0.1
Mauritania	0.3	0.0	0.0		0.1	0.0	0.0	0.4
Mauritius	0.7	0.5	0.3	0.0	2.5	1.7	0.0	5.7
Mexico	432.7	13.1	55.2	0.1	74.4	15.0	69.0	659.5
Micronesia (Federated States of)		0.0	0.0		0.0		0.0	0.0
Mongolia	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Montenegro	0.1	23.4	0.3	0.0	0.1	0.9	10.8	35.6
Morocco	13.2	0.3	21.1	0.5	0.2	7.7	0.2	43.2
Mozambique	2.2	23.2	0.0	0.1	194.0	1.0	0.1	220.7
Myanmar	3.8	104.0	3.5	0.0	17.7	2.5	81.4	212.8
Namibia	0.7	0.5	0.2	0.0	8.6	1.7	52.7	64.4
Nauru	0.0	0.0	0.0		0.0		0.0	0.0
Nepal	6.3	0.0	0.5	0.6	0.0	0.1	0.0	7.6
Netherlands (Kingdom of the)	2 294.5	261.4	227.1	922.8	35.5	461.9	153.9	4 357.0
New Zealand	313.4	665.2	242.8	851.0	2 829.0	51.2	99.6	5 052.3
Nicaragua	0.4	7.4	0.6	0.0	8.4	6.5	0.7	23.8
Niger	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.3

TABLE 34.
FOREST PRODUCTS EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	SAWNWOOD	WOOD-BASED PANELS	PULP FOR PAPER	ROUNDWOOD	RECOVERED PAPER	OTHER	TOTAL
Nigeria	3.6	8.1	0.1	0.0	54.2	0.0	43.6	109.7
North Macedonia	12.7	1.8	0.7	0.1	0.1	5.2	0.8	21.5
Norway	605.2	235.4	168.8	108.9	278.3	72.8	259.3	1 728.7
Oman	10.8	0.0	2.3	3.3	1.5	2.3	0.5	20.6
Pakistan	52.1	0.3	27.9	0.5	0.1	0.3	0.3	81.4
Palau	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Panama	13.6	1.6	2.5	0.0	49.0	2.4	0.1	69.2
Papua New Guinea	0.1	49.1	6.2	0.1	568.0	0.0	1.6	625.2
Paraguay	51.3	4.9	16.8	0.1	3.0	1.4	48.6	126.1
Peru	48.5	54.0	3.7	1.6	8.5	1.4	0.7	118.3
Philippines	45.3	60.2	58.7	156.1	0.3	17.1	83.6	421.4
Poland	2 597.2	515.5	1 614.5	156.1	435.1	308.9	312.7	5 939.9
Portugal	1 748.7	80.9	299.2	741.8	41.7	82.2	254.9	3 249.4
Qatar	0.3	0.0	0.0	0.0	0.0	1.5	0.2	2.1
Republic of Korea	2 021.4	7.7	15.0	33.6	0.4	101.9	3.8	2 183.8
Republic of Moldova	1.4	0.1	1.7	0.0	0.1	2.1	0.1	5.5
Romania	252.9	772.5	971.1	7.2	15.0	42.5	197.7	2 258.9
Russian Federation	1 948.3	4 227.5	1 806.8	1 062.9	1 031.3	50.3	631.6	10 758.7
Rwanda	2.8	0.0	0.0	0.0	0.0	0.1	0.0	2.9
Saint Kitts and Nevis		0.0	0.1		0.0		0.0	0.1
Saint Lucia	0.6	0.0	0.0		0.0	0.1	0.0	0.7
Saint Vincent and the Grenadines	0.6	0.0	0.0		0.0	0.0	0.0	0.6
Samoa	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.6
San Marino	0.1	0.0	0.0		0.0		0.0	0.1
Sao Tome and Principe	0.3	0.0	0.0		0.0	0.0	0.0	0.4
Saudi Arabia	301.7	0.1	22.0	0.1	0.0	24.4	0.2	348.6
Senegal	6.0	0.2	1.0	0.0	0.0	0.1	0.5	7.9
Serbia	336.4	103.4	38.5	1.1	33.2	19.8	24.5	556.9
Seychelles	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.3
Sierra Leone	0.4	11.5	0.1	0.3	147.3	0.0	0.1	159.7
Singapore	1 148.1	8.1	12.3	145.6	31.1	118.4	39.1	1 502.8
Slovakia	729.8	400.3	287.6	143.5	212.0	82.5	104.5	1 960.3
Slovenia	537.5	307.0	153.8	1.4	162.7	35.1	143.6	1 341.1
Solomon Islands	0.0	12.8	0.0		358.9	0.0	12.6	384.3
Somalia	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
South Africa	352.4	25.2	58.3	30.9	76.5	30.3	1 008.0	1 581.6
South Sudan		0.5	0.0		0.7		0.0	1.2
Spain	2 792.9	111.2	1 081.6	654.1	157.7	184.0	201.2	5 182.6
Sri Lanka	8.0	1.4	5.9	0.1	0.0	38.4	7.9	61.6
Sudan	1.4	0.1	0.0		0.3	0.1	0.3	2.1
Suriname	0.0	11.3	0.0		91.3	0.1	0.2	103.0
Sweden	8 094.8	5 347.0	168.2	2 703.4	179.7	108.6	472.2	17 074.0
Switzerland	689.6	71.7	275.4	1.5	49.0	95.6	7.5	1 190.4
Syrian Arab Republic	1.1	0.0	0.0	0.0	0.0	0.1	0.0	1.3

TABLE 34.
FOREST PRODUCTS EXPORTS, 2021 (USD MILLION) (CONTINUED)

COUNTRY	PAPER AND PAPERBOARD	SAWNWOOD	WOOD-BASED PANELS	PULP FOR PAPER	ROUNDWOOD	RECOVERED PAPER	OTHER	TOTAL
Tajikistan	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Thailand	928.7	1 039.9	1 418.2	60.2	19.0	16.4	356.5	3 838.9
Timor-Leste	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Togo	0.3	0.7	0.2	0.0	10.1	0.1	0.0	11.5
Tonga	0.1	0.0	0.0		0.0	0.0	0.0	0.1
Trinidad and Tobago	19.1	0.6	0.1	0.0	0.0	0.9	0.0	20.7
Tunisia	48.3	0.0	6.0	1.3	0.0	1.2	0.9	57.7
Türkiye	765.9	83.6	1 038.2	60.0	10.2	18.1	58.5	2 034.4
Turkmenistan	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.5
Tuvalu	0.0	0.0	0.0		0.0		0.0	0.0
Uganda	4.3	0.1	32.5	0.0	0.1	0.0	0.6	37.7
Ukraine	138.3	696.2	155.5	0.4	32.0	3.3	447.0	1 472.7
United Arab Emirates	591.4	47.9	84.8	64.2	16.7	96.8	15.9	917.6
United Kingdom of Great Britain and Northern Ireland	1 292.8	132.3	212.2	3.0	44.7	1 006.0	21.1	2 712.0
United Republic of Tanzania	28.5	33.6	27.8	0.0	5.3	0.4	11.9	107.5
United States of America	9 137.9	3 559.3	830.4	5 240.5	2 149.5	3 302.6	2 604.5	26 824.8
Uruguay	6.0	128.0	114.6	1 602.7	230.1	3.5	75.6	2 160.4
Uzbekistan	7.7	0.4	6.8	28.7	0.0	0.2	0.0	43.8
Vanuatu	0.1	0.1	0.1		2.3	0.0	0.0	2.5
Venezuela (Bolivarian Republic of)	0.5	8.1	1.2	0.0	9.9	0.0	6.0	25.8
Viet Nam	725.6	59.6	1 066.7	2.3	9.5	0.1	2 436.1	4 299.9
Yemen	0.1	0.3	0.1		0.0	0.0	0.0	0.5
Zambia	0.4	14.6	0.4	0.1	20.9	0.1	0.0	36.6
Zimbabwe	4.6	0.2	4.4	0.0	4.2	1.0	0.2	14.7

Source: FAO. 2023. Forestry Production and Trade. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FO

TABLE 35.
FAO FOOD PRICE INDICES (2014–2016=100)

TIME	FAO FOOD PRICE INDEX AND SUB-INDICES						FISH
	FOOD PRICE INDEX	SUGAR	OILS	CEREALS	MEAT	DAIRY	
January 2020	102.5	87.5	108.7	100.7	103.6	103.8	106.3
February 2020	99.4	91.4	97.6	99.6	100.5	102.9	101.2
March 2020	95.2	73.9	85.4	98.0	99.4	101.5	94.7
April 2020	92.5	63.2	81.2	99.6	96.9	95.8	89.9
May 2020	91.1	67.8	77.8	98.0	95.4	94.4	91.3
June 2020	93.3	74.9	86.6	97.3	94.8	98.3	97.4
July 2020	94.0	76.0	93.2	97.3	92.2	101.8	94.3
August 2020	95.9	81.1	98.7	99.2	92.2	102.1	94.3
September 2020	98.0	79.0	104.6	104.3	91.5	102.3	92.1
October 2020	101.4	84.7	106.5	112.1	91.8	104.5	92.1
November 2020	105.6	87.5	121.9	114.8	93.3	105.4	91.1
December 2020	108.6	87.1	131.2	116.4	94.8	109.2	94.4
January 2021	113.5	94.2	138.9	125.0	96.0	111.2	95.6
February 2021	116.6	100.2	147.5	126.1	97.8	113.1	95.8
March 2021	119.2	96.2	159.3	123.9	100.8	117.5	100.5
April 2021	122.1	100.0	162.2	126.2	104.3	119.1	101.9
May 2021	128.1	106.8	174.9	133.7	107.4	121.1	107.4
June 2021	125.3	107.7	157.7	130.3	110.7	119.9	105.0
July 2021	124.6	109.6	155.5	126.3	114.1	116.7	102.7
August 2021	128.0	120.5	165.9	130.4	113.4	116.2	100.1
September 2021	129.2	121.2	168.6	132.8	112.7	118.1	99.3
October 2021	133.2	119.1	184.8	137.1	112.0	121.5	102.6
November 2021	135.3	120.2	184.6	141.4	112.5	126.0	101.9
December 2021	133.7	116.4	178.5	140.5	111.0	129.0	108.0
January 2022	135.6	112.7	185.9	140.6	112.1	132.6	111.4
February 2022	141.2	110.5	201.7	145.3	113.9	141.5	117.0
March 2022	159.7	117.9	251.8	170.1	119.3	145.8	127.8
April 2022	158.4	121.5	237.5	169.7	121.9	146.7	134.3
May 2022	158.1	120.4	229.2	173.5	122.9	144.2	131.7
June 2022	154.7	117.3	211.8	166.3	125.9	150.2	134.9
July 2022	140.6	112.8	168.8	147.3	124.1	146.5	120.9
August 2022	137.6	110.5	163.3	145.6	121.1	143.4	118.9
September 2022	136.0	109.7	152.6	147.9	120.3	142.7	109.3
October 2022	135.4	108.6	151.3	152.3	116.8	139.3	119.0
November 2022	134.7	114.4	154.7	150.1	114.6	137.4	110.5
December 2022	131.8	117.2	144.6	147.3	112.4	138.2	114.1
January 2023	130.2	116.8	140.4	147.5	111.1	134.5	121.8
February 2023	129.8	125.2	135.9	146.7	113.3	129.4	128.8
March 2023	127.0	127.0	131.8	138.6	114.7	126.8	132.0
April 2023	127.7	149.4	130.0	136.1	116.8	122.6	130.5
May 2023	124.1	157.2	118.7	129.3	118.1	117.8	130.0
June 2023	122.7	152.2	115.8	126.6	119.0	116.7	132.5
July 2023	124.0	146.3	129.8	125.9	118.2	115.9	123.6
August 2023	121.4	148.2	125.8	125.0	114.6	111.3	113.6

Source: FAO. 2023. FAO Food Price Index. In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/worldfoodsituation/foodpricesindex/en/ and FAO. 2023. *Food Outlook – Biannual report on global food markets*. Food Outlook, November 2023. Rome. https://doi.org/10.4060/cc8589en

TABLE 36.
ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS (PERCENT)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
World									
Africa									
Americas									
Asia									
Europe									
Oceania									
Afghanistan	-3.2	-0.3	24.9	14.1	-2.9	-4.1	-7.3	-5.5	-4.7
Albania	1.5	-0.6	8.2	1.6	-7.4	5.7	-0.8	8.2	2.0
Algeria	4.5	-1.2	3.9	5.2	-1.8	3.4	4.0	7.4	1.4
Andorra									
Angola				6.4	-11.5	-9.6	9.1	1.3	-9.2
Antigua and Barbuda	0.0	0.0	0.2	2.2	2.5	0.9	2.6	9.3	-5.2
Argentina	3.8	-8.5	13.7	15.2	53.4	30.1	12.7	10.8	10.3
Armenia	-10.6	-18.9	49.1	-10.8	8.4	-0.3	-4.9	-11.4	5.0
Australia	-3.2	-5.5	-9.7	1.4	7.8	10.7	0.9	-6.4	10.9
Austria	1.1	-3.3	29.5	-0.2	2.9	-4.8	3.3	12.1	-1.1
Azerbaijan	12.1	8.8	20.9	-0.3	-0.4	5.7	7.3	8.2	4.7
Bahamas									
Bahrain									
Bangladesh	-2.5	8.7	2.5	-0.7	-14.1	10.0	38.8	-4.3	6.6
Barbados	-3.0	5.5	2.9	0.4	1.0	4.4	-1.5	-0.8	1.8
Belarus	178.3	12.3	44.3	3.4	7.2	10.8	7.2	18.7	6.5
Belgium		12.2	11.7	-0.5	18.4	-9.2	-0.5	15.6	8.0
Belize	-1.5	-5.1	0.3	9.5	0.3	4.8	-4.0	-0.5	-0.2
Benin	3.1	1.7	-1.6	-3.0	-16.6	7.5	27.7	10.7	7.5
Bhutan	5.5	1.6	16.1	22.2	10.0	-2.8	-1.8	-0.2	-0.9
Bolivia (Plurinational State of)	0.0	-3.0	11.6	-14.2	3.8	2.2	-1.8	-0.9	-0.7
Bosnia and Herzegovina	3.7	-5.5	8.7	-5.0	-0.6	6.0	-0.9	-1.5	2.1
Botswana	0.5	-10.0	9.3	-6.6	6.5	-1.7	-0.3	0.4	1.9
Brazil	7.9	-5.3	2.4	0.7	-9.5	4.6	23.4	7.0	10.8
Brunei Darussalam	0.5	-6.5	1.4	-11.2	10.0	-3.9	-0.2	8.3	2.1
Bulgaria	18.8	-16.8	15.1	0.7	2.5	0.7	7.5	21.1	16.7
Burkina Faso	-14.8	9.2	-4.1	-16.4	7.8	-4.8	1.5	0.3	0.3
Burundi	38.2	29.4	8.6	21.9	-30.7	-7.7	1.0	-0.5	-0.3
Cabo Verde	-2.2	0.3	-5.1	-2.1	2.3	3.1	-1.0	-2.5	0.6
Cambodia	-7.5	9.4	15.6	-4.1	2.3	-0.2	2.9	2.1	2.4
Cameroon	-4.0	3.3	11.4	-12.7	6.7	1.1	-0.6	-0.5	0.2
Canada	-3.4	-12.5	-6.4	5.9	-0.5	0.3	3.9	22.1	-2.0
Central African Republic				-11.5	5.2	-7.5	2.2	-0.3	-0.3
Chad			-2.3	-23.6	-0.7	-11.9	9.6	5.7	-5.1
Chile	9.9	7.2	-2.1	11.9	0.5	4.5	20.4	5.8	7.8
China	9.5	2.5	5.0	-0.8	4.6	21.8	1.7	-9.9	3.7
Colombia	13.5	1.2	4.5	14.7	153.0	17.7	7.0	14.9	12.5
Comoros									

TABLE 36.
ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Congo	-4.2	26.8	39.6	-14.1	46.5	12.2	-15.1	-5.7	-7.1
Costa Rica	-4.1	21.4	-0.5	4.4	-18.7	0.5	3.0	0.5	0.9
Côte d'Ivoire	14.9	15.0	27.0	7.2	3.6	6.9	-1.4	-5.0	1.5
Croatia	6.6	-0.8	17.3	1.9	-4.2	2.6	2.8	23.5	14.0
Cuba	87.9	106.1	11.5	4.6	1.0	1.3	4.7	-0.9	2.9
Cyprus	6.7	4.5	2.5	-0.5	1.0	5.1	-2.1	-0.6	4.3
Czechia	13.8	-14.0	11.7	-11.7	2.7	4.7	-3.3	9.1	4.8
Democratic People's Republic of Korea									
Democratic Republic of the Congo									
Denmark	-1.6	-7.8	14.2	-8.9	1.9	1.5	-3.1	9.5	6.6
Djibouti									
Dominica									
Dominican Republic	-9.8	8.2	4.6	17.2	4.3	45.9	-10.5	2.3	7.3
Ecuador	120.7	1.3	6.7	-0.5	6.7	2.6	0.4	-1.6	-1.8
Egypt	0.9	8.2	14.2	7.1	4.1	77.7	6.9	7.8	9.0
El Salvador	3.6	17.9	13.1	5.7	5.5	2.3	-1.7	-3.4	3.8
Equatorial Guinea	-11.9	44.8	-8.2	-20.8	6.4	-7.6	-2.3	-2.7	-2.8
Eritrea	24.4	-2.4	11.6	9.9	-6.8	9.1	1.4	6.1	3.8
Estonia	32.1	3.1	43.3	-14.3	6.3	-4.9	-1.7	18.3	7.1
Eswatini									
Ethiopia	2.1	14.1	-18.1	-0.7	6.5	6.8	-1.1	1.3	2.9
Fiji	-4.8	4.2	-31.5	-8.1	6.7	-4.2	-0.3	5.6	2.3
Finland	-1.8	-5.9	5.9	-6.6	10.5	-2.5	-2.0	9.2	6.8
France	3.1	3.9	22.4	4.3	7.5	-1.5	5.7	17.2	-0.4
Gabon									
Gambia	9.8	8.6	7.2	20.0	2.0	7.4	3.4	5.1	4.8
Georgia	-1.0	-14.0	7.3	-8.4	3.4	36.5	5.1	9.2	-2.4
Germany	0.8	-6.6	25.1	-8.7	4.2	0.9	-2.2	9.8	6.5
Ghana	46.8	24.1	20.9	17.8	23.9	-6.3	-1.3	2.1	8.1
Greece	4.3	4.0	3.0	3.2	-0.5	2.2	-1.2	5.8	-1.5
Grenada				8.8	-1.6	-9.0	-2.9	-2.7	1.3
Guatemala									
Guinea	-0.9	20.7	1.0	0.2	7.4	-5.5	2.9	2.6	3.9
Guinea-Bissau	-7.1	3.1	4.7	9.9	3.8	-1.6	-0.3	0.1	0.2
Guyana	-4.6	7.4	-4.1	3.7	14.2	4.0	-11.5	54.3	5.1
Haiti									
Honduras	9.3	13.9	14.2	0.8	-7.3	6.5	-0.9	-1.0	-0.9
Hungary	26.5	-4.4	25.3	5.0	-5.1	6.0	7.0	25.1	-1.3
Iceland	4.8	3.8	0.1	1.9	4.4	3.1	5.0	4.4	4.5
India	0.3	5.4	17.7	6.0	-0.3	5.4	2.7	2.5	2.8
Indonesia	-3.0	10.7	15.0	5.4	1.0	-7.8	4.6	-1.3	2.0
Iran (Islamic Republic of)	10.6	2.5	7.4	3.2	64.8	24.7	49.0	59.6	23.8
Iraq	13.1	34.2	4.9	-2.1	5.2	-0.7	0.1	2.8	2.3
Ireland	0.6	0.3	23.6	-17.9	3.8	-5.8	0.2	11.3	-2.0

TABLE 36.
ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Israel	-5.3	10.3	2.5	3.2	8.5	-2.1	2.1	0.7	0.7
Italy	0.0	-6.9	4.2	-0.7	4.8	1.4	-2.4	4.0	-2.9
Jamaica	25.5	27.9	4.2	10.0	2.1	16.4	14.9	3.1	3.8
Japan	-6.3	-3.8	5.6	3.2	2.6	-2.1	2.8	-3.4	-2.2
Jordan	-6.8	1.4	4.7	4.8	-4.0	-12.0	1.2	2.1	2.3
Kazakhstan	25.6	2.2	-0.7	9.8	8.9	36.5	12.9	20.4	13.8
Kenya	9.1	-1.1	-3.1	19.6	0.6	9.0	-44.1	3.8	7.1
Kiribati									
Kuwait				-27.1	0.0	0.8	-23.4	0.1	0.1
Kyrgyzstan	36.5	16.4	-6.7	-7.9	-7.8	-6.6	18.7	33.3	18.2
Lao People's Democratic Republic	7.1	5.4	8.9	6.6	2.2	0.1	-1.7	0.8	0.3
Latvia	1.1	5.5	32.9	-8.0	7.1	-0.6	-2.8	15.5	7.5
Lebanon	3.9	1.0	-7.5	-1.1	3.6	9.4	14.1	0.9	4.2
Lesotho									
Liberia									
Libya									
Lithuania	-0.8	-0.9	36.0	-4.3	7.7	-0.1	-0.6	17.8	10.5
Luxembourg		-2.7	18.9	-12.2	-0.3	-1.3	2.1	4.7	4.3
Madagascar	1.0	25.2	-17.0	-10.5	0.3	13.6	7.6	9.3	9.0
Malawi	23.7	32.6	-3.5	15.0	18.5	15.1	-5.3	0.0	6.0
Malaysia	-14.7	-4.4	29.7	-7.5	-16.6	-10.5	18.5	49.7	40.8
Maldives		-6.2	215.8	41.7	14.0	138.8	-50.4	-3.0	16.1
Mali	-11.3	27.7	8.4	-5.0	5.8	-4.2	2.6	3.9	4.4
Malta	-32.7	-0.8	-4.5	25.4	-3.4	12.4	-1.8	6.8	3.7
Marshall Islands									
Mauritania									
Mauritius	5.8	7.3	-6.4	-4.4	-7.4	7.4	13.3	5.8	6.6
Mexico	-2.1	-3.9	6.1	5.3	6.6	4.0	4.0	9.2	1.0
Micronesia (Federated States of)									
Mongolia	9.7	7.4	20.8	9.7	9.8	2.5	34.3	15.5	4.4
Montenegro									
Morocco	0.1	3.7	5.3	-1.4	-2.4	-1.2	7.9	2.1	6.5
Mozambique	1.7	13.7	-12.3	18.5	11.3	22.8	7.9	-0.3	3.4
Myanmar	0.9	34.2	3.0	12.9	-4.3	5.6	21.8	-9.1	-1.6
Namibia	4.9	10.9	24.5	-11.5	9.8	-6.9	1.8	1.5	1.7
Nauru									
Nepal	7.7	9.5	19.6	4.6	2.0	11.4	0.2	9.8	10.3
Netherlands (Kingdom of the)	-4.0	-1.1	20.3	-4.1	0.9	2.2	-11.2	9.5	-0.4
New Zealand	2.6	2.1	16.1	-35.2	9.1	-4.6	4.4	-2.5	-0.3
Nicaragua	4.2	10.0	9.0	5.3	-3.7	0.4	3.2	6.0	4.7
Niger	9.8	21.1	-0.7	-15.2	8.2	2.7	0.4	-2.1	-1.6
Nigeria	9.1	20.8	67.7	-3.1	2.1	-2.9	-1.2	1.1	0.9
North Macedonia	7.4	-0.4	4.3	-0.4	3.6	2.9	-2.5	6.6	1.0
Norway	0.4	2.6	2.5	5.9	3.8	-1.8	6.6	6.7	2.6

TABLE 36.
ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Oman				28.7	0.0	0.0	5.0	0.0	1.7
Pakistan	6.0	2.5	16.4	-4.3	4.7	-9.6	3.8	3.0	3.2
Palau									
Panama	0.3	-2.7	-0.1	15.2	1.1	3.1	3.8	-5.5	-3.5
Papua New Guinea									
Paraguay	39.2	-14.3	6.4	-12.9	5.8	-4.6	15.9	-0.1	3.4
Peru	-7.4	-1.0	2.5	4.8	-2.9	6.1	0.4	9.7	6.1
Philippines	-6.1	5.2	8.3	-5.8	7.7	-5.5	0.2	4.9	1.3
Poland	11.6	-5.0	22.3	-1.6	-1.2	6.9	-0.5	15.1	9.4
Portugal	11.1	3.8	9.0	-9.4	7.0	-1.4	-1.9	12.3	2.2
Qatar	-8.4	-0.2	8.8	4.2	-2.6	5.9	26.4	-5.1	5.1
Republic of Korea	-4.3	-8.1	0.9	2.7	4.9	2.1	-4.7	2.6	1.4
Republic of Moldova	29.7	6.5	49.0	26.7	-7.1	3.5	24.9	18.8	15.0
Romania	64.3	-10.0	13.4	0.7	1.6	10.2	6.0	9.5	10.4
Russian Federation	19.5	-0.5	8.8	20.8	4.5	10.0	10.2	24.0	6.5
Rwanda	13.5	19.7	0.8	3.1	-8.8	4.6	9.6	-0.3	1.2
Saint Kitts and Nevis					5.3	2.3	-10.0	-3.0	-4.1
Saint Lucia	-18.5	12.1	6.5	2.3	-0.2	3.0	3.0	-1.3	0.1
Saint Vincent and the Grenadines			5.9	5.8	3.7	4.8	0.3	0.6	0.7
Samoa				31.5	26.5	13.1	-15.2	11.7	10.0
San Marino									
Sao Tome and Principe									
Saudi Arabia	1.3	8.7	-3.4	-14.4	7.3	3.7	-6.9	-0.9	-5.9
Senegal	3.6	5.2	-0.6	-1.3	4.0	2.7	0.2	2.8	1.1
Serbia			39.0	5.5	-4.4	0.3	5.4	23.1	13.3
Seychelles			7.6	-7.8	2.1	-1.3	-2.0	-0.3	0.2
Sierra Leone				3.2	-10.6	-15.8	4.5	2.4	2.6
Singapore	-1.6	-4.1	-7.3	-4.4	1.2	7.7	-0.7	9.1	3.9
Slovakia	8.3	-7.3	20.2	-1.1	3.0	1.9	-0.7	15.0	1.6
Slovenia	7.1	-2.0	8.4	-4.8	-3.8	8.2	-4.0	15.7	0.7
Solomon Islands									
Somalia									
South Africa	-4.3	-6.5	0.0	-4.9	7.8	6.3	5.0	3.5	6.4
South Sudan									
Spain	4.3	4.9	12.5	2.8	0.4	-3.9	4.3	9.4	4.2
Sri Lanka	1.8	10.4	6.7	5.5	-7.2	-3.1	16.3	9.3	-4.9
Sudan									
Suriname	80.4	18.9	1.2	-2.0	14.1	16.6	26.7	108.5	22.9
Sweden	-4.4	-4.2	22.0	-4.9	19.0	-7.7	0.6	11.7	5.7
Switzerland	-3.9	-2.2	-1.8	-3.6	-5.6	1.1	0.8	3.8	2.9
Syrian Arab Republic	2.0	7.3	2.1	43.2	16.2	-0.6	10.6	7.3	4.0
Tajikistan	-2.0	25.7	19.2	-12.1	-10.7	2.3	3.7	-3.6	-0.6
Thailand	-7.5	14.4	26.5	-0.6	-2.0	1.5	-2.5	-0.4	-1.5
Timor-Leste			28.6	8.5	6.7	6.2	10.0	54.3	-23.2

TABLE 36.
ANNUAL CHANGES IN PRICES RECEIVED BY FARMERS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Togo	-6.7	33.8	-2.2	2.9	-5.4	-1.4	0.3	0.2	-1.9
Tonga									
Trinidad and Tobago	0.6	-16.6	-5.5	2.5	16.8	-13.7	3.7	5.5	1.8
Tunisia	-3.4	6.3	3.1	6.1	21.8	-0.8	-0.2	7.0	6.2
Türkiye	47.6	6.5	14.6	6.6	17.8	22.5	15.3	23.8	17.3
Turkmenistan	20.8	5.1	2.3	-18.8	1.2	7.6	2.7	3.6	4.0
Tuvalu									
Uganda									
Ukraine	40.0	5.7	43.7	53.3	10.7	0.6	13.1	25.6	8.2
United Arab Emirates									
United Kingdom of Great Britain and Northern Ireland	-5.2	-5.8	9.3	-12.2	8.6	-2.0	5.0	9.7	5.1
United Republic of Tanzania	-7.7	2.6	9.1	11.0	7.6	4.1	0.5	-0.6	0.8
United States of America	-2.5	0.7	22.5	-8.1	-0.5	4.2	7.1	10.9	10.0
Uruguay	5.7	-12.5	-0.5	-8.9	-2.0	17.3	8.1	4.0	5.0
Uzbekistan									
Vanuatu	0.1	-0.3	14.9	-5.1	1.2	0.0	-1.0	-0.6	-0.6
Venezuela (Bolivarian Republic of)									
Viet Nam	0.9	17.9	13.3	-1.1	-2.6	-1.3	2.7	12.6	0.4
Yemen	11.7	8.5	-2.0	4.7	2.0	57.6	-0.2	24.6	13.0
Zambia			22.5	9.1	18.1	43.9	1.0	26.2	12.4
Zimbabwe	57.1	261.9		188.8	7.4				

Source: FAO. 2023. Producer prices. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/PP

TABLE 37.
INFLATION IN FOOD CONSUMER PRICES (PERCENT)

COUNTRY	2014	2015	2016	2017	2018	2019	2020	2021	2022
World	2.2	2.5	1.7	2.1	2.2	2.7	3.3	3.7	10.6
Africa	4.4	4.7	5.2	4.7	5.2	3.0	6.8	4.1	8.7
Americas	3.2	2.7	1.6	1.0	2.7	1.9	2.1	3.4	8.0
Asia	4.2	2.8	2.3	2.1	3.1	3.7	6.7	3.0	6.1
Europe	-0.1	0.7	0.5	2.5	1.9	2.3	2.9	0.8	12.9
Oceania	1.0	2.1	1.2	1.3	0.5	0.8	2.6	2.6	10.7
Afghanistan	7.8	-0.8	5.7	6.9	-1.1	3.8	10.0	5.5	19.0
Albania	2.2	4.3	3.3	3.9	2.7	2.9	3.6	3.9	11.8
Algeria	3.9	4.7	3.4	5.0	3.4	-0.5	0.2	10.0	13.4
Andorra	1.8	1.7	0.8	2.9	2.1	1.1	2.4	1.5	8.9
Angola	7.0	8.7	32.7	28.6	15.9	16.5	27.0	31.7	23.8
Antigua and Barbuda	1.0	2.5	-0.1	1.9	3.4	1.7	1.9	1.4	10.5
Argentina	17.6	12.3	13.0	17.6	31.7	58.6	47.5	49.6	72.4
Armenia	1.7	3.0	-3.2	4.1	2.3	1.8	0.3	11.3	13.0
Australia	2.5	1.1	0.7	0.9	0.8	2.3	3.3	1.2	6.5
Austria	2.0	0.8	0.7	2.4	1.5	1.0	2.3	0.8	10.6
Azerbaijan	0.7	4.8	13.7	17.3	2.0	3.3	4.6	8.1	20.1
Bahamas	1.7	5.9	-0.9	-0.1	2.4	0.1	1.6	2.1	13.5
Bahrain	2.9	2.4	1.3	1.0	2.1	2.4	3.5	-0.1	10.4
Bangladesh	7.9	6.1	4.5	7.2	6.2	5.6	5.8	5.3	7.7
Barbados	2.4	2.8	8.2	6.2	1.6	5.9	7.7	3.3	14.9
Belarus	16.8	12.5	10.7	7.1	4.0	6.4	4.3	9.6	16.6
Belgium	-0.4	1.2	2.2	1.3	2.2	0.8	2.9	-0.4	8.7
Belize	0.8	-0.4	0.1	-1.1	-0.5	0.6	1.1	4.8	7.8
Benin	-0.8	0.4	-0.5	1.7	1.5	-2.7	3.0	5.8	-0.7
Bhutan	10.1	3.3	4.0	7.5	5.0	3.6	11.0	9.2	4.2
Bolivia (Plurinational State of)	8.2	4.6	5.5	3.3	2.6	3.3	-0.6	0.6	2.2
Bosnia and Herzegovina	-2.6	-0.7	-1.3	1.3	0.6	1.1	1.0	3.5	21.3
Botswana	3.0	1.3	2.7	3.4	-0.5	1.4	3.7	5.9	11.1
Brazil	7.5	9.8	12.5	0.9	0.9	4.9	9.0	12.4	12.0
Brunei Darussalam	-0.2	0.9	-0.5	0.3	1.9	-0.7	2.5	2.4	5.1
Bulgaria	-1.0	0.3	-0.2	4.0	2.2	5.2	5.4	2.7	21.8
Burkina Faso	-3.2	2.4	1.0	2.0	3.4	-6.5	3.9	6.8	24.1
Burundi	2.3	5.7	7.2	24.0	-11.1	-3.1	12.1	10.4	24.1
Cabo Verde	-1.2	1.5	-0.6	-0.2	0.4	1.4	1.6	0.5	15.7
Cambodia	4.9	4.0	5.6	3.4	2.5	2.1	4.6	2.7	5.0
Cameroon	0.8	2.0	1.1	0.0	1.2	2.9	3.6	4.2	12.7
Canada	2.5	4.1	1.0	-1.0	0.8	3.7	2.4	2.2	9.7
Central African Republic									
Chad	2.5	-3.4	-4.1	-3.9	-1.6	-5.2	9.4	-1.4	11.9
Chile	6.9	7.2	3.8	2.0	3.1	2.6	6.7	5.4	17.5
China, mainland	3.1	2.5	3.7	-0.2	1.9	7.2	8.1	-4.3	2.7
Colombia	3.0	8.6	13.1	0.7	0.8	4.9	5.6	9.6	24.9
Comoros	2.0	1.6	2.6	0.8	2.5	4.9	0.4	-2.6	1.8

TABLE 37.
INFLATION IN FOOD CONSUMER PRICES (PERCENT) (CONTINUED)

COUNTRY	2014	2015	2016	2017	2018	2019	2020	2021	2022
Congo	-2.3	2.9	0.5	-1.2	0.0	-0.2	2.2	3.0	6.2
Costa Rica	4.2	3.2	-0.8	1.7	1.6	0.8	0.5	2.2	15.3
Côte d'Ivoire	-2.1	2.0	3.0	0.7	0.5	1.4	4.2	7.6	8.9
Croatia	-2.2	0.4	-0.5	2.9	1.0	-0.1	1.9	1.6	15.8
Cuba									
Cyprus	-1.5	-0.1	-0.3	-0.3	0.7	0.6	1.2	-0.4	8.9
Czechia	2.0	-1.1	-0.9	5.2	1.3	2.8	4.5	0.8	16.5
Democratic People's Republic of Korea									
Democratic Republic of the Congo	1.4	0.8	3.0	11.7	1.7	1.5	1.5	1.5	1.5
Denmark	-0.9	1.0	0.1	2.8	0.0	1.4	0.6	0.6	11.4
Djibouti	0.2	3.1	6.0	1.9	0.2	5.7	4.8	1.7	10.6
Dominica	1.1	0.7	0.1	-0.2	2.2	1.9	0.6	1.2	7.9
Dominican Republic	3.9	6.7	2.2	2.3	3.6	3.7	6.3	9.9	11.1
Ecuador	4.5	4.2	2.5	0.5	-1.6	0.0	0.7	-0.8	5.2
Egypt	12.4	10.6	16.5	38.8	13.2	7.3	-0.2	4.5	23.3
El Salvador	3.2	1.4	-0.6	0.2	0.5	1.2	1.6	2.2	12.2
Equatorial Guinea	4.4	1.5	-4.1	1.6	0.6	0.8	4.7	-1.2	5.6
Eritrea									
Estonia	0.0	-0.5	0.0	5.7	3.0	3.0	2.1	1.8	19.6
Eswatini	6.3	4.2	15.0	8.0	0.0	2.1	4.0	2.5	2.5
Ethiopia	5.4	12.0	6.6	11.2	12.6	18.7	23.2	31.1	37.2
Fiji	1.9	4.8	6.0	-2.2	3.4	4.9	-2.4	6.5	6.1
Finland	0.2	-1.9	-1.1	-0.9	1.9	1.2	1.7	0.6	10.4
France	-0.8	0.4	0.6	1.1	2.0	2.5	2.0	0.6	7.2
Gabon	3.0	2.8	-0.1	-0.7	3.6	3.1	1.9	1.4	5.9
Gambia	6.8	8.3	8.2	8.7	6.3	6.8	6.6	9.6	14.0
Georgia	5.1	4.2	1.6	6.8	2.2	8.1	10.5	10.7	17.9
Germany	1.0	0.6	0.8	2.8	2.3	1.2	2.1	3.1	12.4
Ghana	6.8	7.5	8.6	7.3	7.8	7.5	11.1	10.3	33.1
Greece	-1.7	1.8	-0.2	0.3	0.4	-0.1	1.4	1.4	11.7
Grenada	0.8	1.0	-2.3	0.5	1.2	0.4	1.0	1.7	5.8
Guatemala	7.4	9.3	10.0	8.9	7.3	7.8	6.3	4.9	9.2
Guinea	6.6	14.4	11.5	13.6	13.4	11.4	12.7	15.8	13.8
Guinea-Bissau	-1.3	3.1	2.5	-0.3	0.7	0.9	2.9	5.0	9.7
Guyana									
Haiti	2.6	6.9	12.9	11.1	13.8	22.2	27.4	19.6	34.6
Honduras	6.7	3.3	1.0	1.6	3.5	2.2	4.7	2.9	13.4
Hungary	-0.8	0.6	0.3	2.6	4.0	5.1	7.2	3.4	26.9
Iceland	0.5	2.8	1.3	-2.4	2.5	3.8	4.9	3.5	7.2
India	7.2	5.3	5.4	1.8	1.7	3.5	8.8	3.7	6.6
Indonesia	6.8	7.2	7.3	2.1	4.2	1.1	5.4	2.7	6.0
Iran (Islamic Republic of)	14.2	10.6	6.6	12.5	21.8	57.2	26.5	59.1	61.6
Iraq	0.8	1.8	-0.7	-2.1	0.5	0.0	-0.5	4.8	6.8
Ireland	-2.2	-2.1	-1.3	-2.1	-2.0	-0.7	-1.4	-0.3	6.8

TABLE 37.
INFLATION IN FOOD CONSUMER PRICES (PERCENT) (CONTINUED)

COUNTRY	2014	2015	2016	2017	2018	2019	2020	2021	2022
Israel	-1.4	0.0	-1.2	0.0	0.9	2.1	0.0	1.0	4.3
Italy	0.1	1.1	0.2	1.9	1.2	0.8	1.4	0.6	9.1
Jamaica	8.5	7.7	4.0	4.4	4.1	6.3	8.5	6.4	12.8
Japan	4.3	3.6	2.1	0.7	1.6	0.2	1.2	0.0	4.9
Jordan	0.3	1.1	-3.5	-0.4	3.2	0.3	2.3	0.1	3.3
Kazakhstan	6.5	6.4	12.8	8.6	5.0	8.1	10.4	10.8	18.7
Kenya	8.7	11.4	10.1	13.4	1.4	6.4	6.4	8.9	12.9
Kiribati	0.6	-0.6	1.7	1.8	-1.1	-1.9	3.7	2.4	6.0
Kuwait	2.9	3.4	1.9	-0.3	0.0	1.1	4.8	9.5	7.4
Kyrgyzstan	8.2	3.7	-6.5	2.5	-2.2	1.4	11.6	18.0	16.2
Lao People's Democratic Republic	6.9	4.5	4.3	-0.1	1.2	4.6	8.7	3.0	20.8
Latvia	-0.3	-1.3	1.1	5.6	0.6	2.9	2.4	2.2	21.3
Lebanon	3.6	-1.1	-1.2	3.7	5.0	4.3	207.7	309.9	277.7
Lesotho	5.4	6.2	11.8	5.7	5.2	6.8	10.3	9.7	8.8
Liberia	8.9	10.2	7.8	6.4	20.8	29.5	20.2	0.4	2.8
Libya	4.3	18.1	30.1	34.6	19.2	-3.9	-0.1	3.2	4.5
Lithuania	0.8	-0.9	1.2	3.6	1.4	2.9	2.3	2.7	25.9
Luxembourg	0.6	0.8	1.5	2.8	2.2	1.4	2.7	0.9	7.0
Madagascar	5.4	6.5	6.2	9.3	10.8	4.8	3.8	7.4	9.5
Malawi	21.2	23.9	26.7	11.9	13.4	14.3	13.0	11.3	26.6
Malaysia	3.3	3.6	3.9	4.2	1.4	1.6	1.3	1.8	5.7
Maldives	0.8	0.5	0.6	5.6	-1.1	-0.8	2.7	1.8	4.6
Mali	-0.2	3.0	-3.2	2.2	2.4	-5.8	2.3	5.0	13.9
Malta	0.5	3.0	2.1	3.5	2.9	3.6	1.9	2.3	10.4
Marshall Islands									
Mauritania	5.1	5.7	2.3	3.1	4.2	2.7	2.2	5.8	15.3
Mauritius	4.6	3.1	1.1	3.7	3.2	0.0	6.2	4.4	14.7
Mexico	4.7	4.0	4.5	6.9	4.8	4.4	6.6	7.2	13.2
Micronesia (Federated States of)	0.8	0.6	-1.5	-1.9	-0.9	1.3	0.6	1.3	6.5
Mongolia	9.4	0.8	-1.5	4.5	7.1	10.7	7.0	13.7	18.6
Montenegro	-1.4	2.9	-0.8	1.7	0.4	3.1	1.6	3.5	22.4
Morocco	-1.2	2.6	2.8	0.0	1.0	-1.3	0.9	0.6	11.2
Mozambique	3.8	5.1	27.1	16.6	0.0	3.3	7.1	11.4	12.9
Myanmar	4.8	6.6	5.4	4.4	6.5	9.0	2.8	5.5	17.3
Namibia	8.3	5.6	10.7	5.6	3.2	4.3	5.2	5.7	7.6
Nauru									
Nepal	11.9	10.4	8.7	0.3	3.0	5.5	7.3	4.3	7.0
Netherlands (Kingdom of the)	-0.1	0.6	1.0	2.7	0.8	4.0	1.9	-0.2	10.6
New Zealand	-0.3	-0.5	-0.6	2.2	-0.1	1.1	3.3	1.9	8.6
Nicaragua	7.8	4.8	1.5	0.6	4.2	4.6	4.2	6.3	15.7
Niger	-1.2	0.4	-1.2	3.4	-0.8	-4.9	5.6	7.8	7.4
Nigeria	9.4	9.9	14.7	19.4	14.4	13.7	16.0	20.4	20.7
North Macedonia	-1.0	0.1	-1.3	0.2	0.8	1.6	2.4	3.1	20.5
Norway	3.1	2.9	2.6	0.0	2.5	1.1	3.3	-2.0	6.4

TABLE 37.
INFLATION IN FOOD CONSUMER PRICES (PERCENT) (CONTINUED)

COUNTRY	2014	2015	2016	2017	2018	2019	2020	2021	2022
Oman	1.7	-0.8	-1.2	0.5	-0.7	1.2	1.3	0.8	5.2
Pakistan	5.8	0.6	2.4	3.3	2.2	10.5	15.5	10.5	24.4
Palau	1.3	2.2	-3.2	3.9	2.7	0.7	2.2	3.1	13.8
Panama	3.0	-1.7	1.3	-0.5	-0.6	0.5	-0.7	1.6	3.9
Papua New Guinea	4.4	4.8	5.4	3.0	0.7	3.0	2.3	4.0	7.2
Paraguay	6.5	2.9	5.8	5.8	3.9	1.2	1.2	9.1	15.0
Peru	3.2	4.4	3.6	3.0	-1.6	1.6	1.9	6.0	13.0
Philippines	5.8	1.9	1.6	3.1	6.8	2.1	2.7	5.2	4.5
Poland	-1.0	-1.7	0.9	4.3	2.6	4.8	4.6	3.0	15.3
Portugal	-1.3	1.0	0.5	1.5	0.7	0.3	2.1	0.7	12.8
Qatar	0.2	0.8	-1.9	1.9	0.0	-0.1	-0.1	2.6	4.0
Republic of Korea	0.3	1.6	2.3	3.4	2.8	0.1	4.4	5.9	5.9
Republic of Moldova	6.5	9.8	7.4	7.9	5.1	7.6	7.4	6.9	31.7
Romania	-1.6	-3.9	-2.5	2.5	3.8	4.7	4.8	3.2	15.5
Russian Federation	9.9	21.1	5.8	2.7	1.6	5.7	4.3	9.6	16.1
Rwanda	2.6	3.6	12.6	12.8	-7.4	3.5	15.7	-4.1	27.4
Saint Kitts and Nevis	0.0	-10.7	-6.1	-0.2	2.4	1.9	0.3	0.2	10.4
Saint Lucia	2.1	0.2	-3.2	-1.5	3.7	2.2	-0.8	-0.1	5.6
Saint Vincent and the Grenadines	1.6	-1.2	0.0	1.9	2.3	0.6	1.8	2.3	10.1
Samoa	-3.3	3.3	5.8	1.3	5.6	1.0	-1.6	3.4	15.4
San Marino	2.9	3.2	2.0	2.4	5.1	3.8	3.2	3.5	11.5
Sao Tome and Principe	7.3	4.1	0.8	6.6	8.7	9.0	12.4	9.5	19.9
Saudi Arabia	1.4	0.6	-1.3	-0.8	6.5	2.1	8.9	5.5	3.7
Senegal	-1.8	1.8	3.3	1.7	0.7	1.2	3.6	2.9	14.9
Serbia	-0.9	2.0	-0.3	3.3	1.9	2.6	2.5	4.4	18.7
Seychelles	0.5	0.5	0.0	0.3	-0.1	0.0	2.5	14.8	1.2
Sierra Leone	4.7	8.3	12.5	19.5	17.7	8.8	13.8	17.0	29.8
Singapore	3.0	1.2	2.3	1.3	1.3	1.1	2.9	1.6	5.3
Slovakia	-0.8	-0.3	-2.8	4.0	3.9	4.0	2.5	1.8	18.3
Slovenia	-0.3	0.8	0.9	2.2	2.7	1.6	3.5	-0.2	12.1
Solomon Islands	3.0	-2.8	0.5	-0.7	2.2	-0.4	1.3	-3.0	9.1
Somalia	5.1	4.1	0.9	4.6	7.6	6.1	2.0	2.7	13.9
South Africa	8.0	5.0	11.6	6.9	3.1	3.5	4.4	6.1	9.2
South Sudan	2.5	53.7	333.7	210.6	71.6	106.4	24.4	21.6	-9.2
Spain	-0.3	1.2	1.4	1.2	1.6	1.0	2.4	1.8	11.5
Sri Lanka	5.2	5.3	3.1	11.3	-0.2	0.6	12.2	11.1	58.1
Sudan	30.7	14.4	13.5	34.9	69.0	62.7	136.0	235.0	100.6
Suriname	4.2	9.0	49.6	31.5	9.3	5.3	41.5	61.0	52.4
Sweden	0.4	2.3	1.1	2.1	2.4	2.8	2.1	0.4	11.2
Switzerland	0.9	-0.8	0.4	0.4	1.3	0.1	0.1	-1.6	1.6
Syrian Arab Republic	26.8	34.8	57.8	17.5	0.4	14.6	123.5	87.2	36.1
Tajikistan	7.4	6.9	5.1	9.2	2.7	11.0	11.6	10.5	7.3
Thailand	3.9	1.1	1.6	0.0	0.4	2.3	1.2	-0.1	6.9
Timor-Leste	0.7	0.3	-2.1	0.9	1.7	0.9	0.9	5.8	7.5

TABLE 37.
INFLATION IN FOOD CONSUMER PRICES (PERCENT) (CONTINUED)

COUNTRY	2014	2015	2016	2017	2018	2019	2020	2021	2022
Togo	-4.3	5.9	3.1	-1.2	0.3	-0.5	3.4	9.7	11.3
Tonga	3.6	1.8	1.3	8.6	6.2	1.7	1.9	7.2	9.8
Trinidad and Tobago	9.9	8.7	7.5	2.9	1.1	0.6	2.8	4.4	10.3
Tunisia	5.0	4.5	2.7	5.6	7.3	6.9	4.7	6.3	10.8
Türkiye	12.6	11.2	5.8	12.7	17.7	19.8	13.8	23.9	84.6
Turkmenistan									
Tuvalu									
Uganda	3.5	7.2	5.6	10.2	-1.2	-0.2	1.8	1.4	13.2
Ukraine	11.8	45.7	9.4	12.8	11.2	8.0	2.7	10.8	26.2
United Arab Emirates	2.2	1.2	1.0	1.2	3.5	-1.4	3.7	0.0	6.3
United Kingdom of Great Britain and Northern Ireland	-0.2	-2.6	-2.4	2.3	2.1	1.4	0.7	0.3	10.8
United Republic of Tanzania	7.4	7.9	7.5	9.1	3.0	2.9	4.1	3.7	7.3
United States of America	2.4	1.2	-1.3	-0.2	0.5	0.9	3.5	3.5	11.4
Uruguay	10.4	9.5	9.6	2.8	8.3	8.7	13.8	6.8	11.0
Uzbekistan	8.5	7.1	4.9	17.8	20.1	17.0	17.2	14.4	15.0
Vanuatu	1.7	3.6	1.8	6.9	4.4	5.1	10.8	5.8	8.5
Venezuela (Bolivarian Republic of)	85.1	197.3	381.1	453.0	15 145.9	77 645.9	2 734.4	1 460.4	179.0
Viet Nam	4.0	1.5	2.4	-1.1	3.2	4.1	10.0	0.7	2.6
Yemen	1.9	11.6	17.1	7.1	4.7	5.4	7.6	4.8	3.1
Zambia	7.2	10.8	21.6	5.8	7.1	10.4	16.2	27.7	13.2
Zimbabwe	-3.1	-3.4	-3.2	2.5	13.6	256.2	548.4	65.6	108.8

Source: FAO. 2023. Consumer Price Indices. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/CP

CHAPTER 3: FOOD SECURITY AND NUTRITION

TABLE 38.
PREVALENCE OF UNDERNOURISHMENT (PERCENT)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
World	12.9	12.0	8.8	7.8	7.7	7.7	8.2	8.7	9.2
Africa	21.8	19.5	15.9	16.3	16.6	16.7	17.4	18.4	19.3
Asia	14.5	13.6	9.4	7.5	7.2	7.2	7.7	8.2	8.6
Latin America and the Caribbean	10.7	9.3	6.6	5.7	5.9	5.7	6.0	6.3	6.7
Northern America and Europe	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Oceania	6.5	6.8	6.4	6.1	6.2	6.3	6.2	6.3	6.5
Afghanistan	46.4	34.5	20.5	21.8	22.7	24.0	26.9	28.8	30.1
Albania	4.9	8.9	5.4	4.2	4.2	4.1	4.1	4.1	4.1
Algeria	8.1	6.7	4.3	2.6	2.6	<2.5	<2.5	<2.5	<2.5
Andorra									
Angola	67.8	52.6	22.6	14.4	14.7	15.2	17.5	20.1	21.6
Antigua and Barbuda									
Argentina	3.1	3.8	3.5	2.9	3.3	3.4	3.4	3.3	3.2
Armenia	25.7	12.3	2.8	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Australia	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Austria	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Azerbaijan	16.8	4.7	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Bahamas									
Bahrain									
Bangladesh	15.6	13.7	15.2	14.3	13.6	12.7	11.8	11.7	11.2
Barbados	6.1	5.9	3.2	2.6	2.6	<2.5	<2.5	<2.5	<2.5
Belarus	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Belgium	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Belize	6.3	5.5	5.8	6.4	6.0	5.3	4.8	4.7	4.9
Benin	17.3	12.0	8.6	8.7	9.5	10.4	10.6	10.2	9.9
Bhutan									
Bolivia (Plurinational State of)	27.8	27.1	21.3	14.9	14.2	13.8	13.7	16.2	19.4
Bosnia and Herzegovina	3.4	<2.5	2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Botswana	23.8	22.9	22.5	25.0	26.3	26.4	26.4	24.5	22.9
Brazil	10.7	6.5	3.7	<2.5	<2.5	<2.5	<2.5	3.7	4.7
Brunei Darussalam									
Bulgaria	3.9	4.8	4.6	3.8	3.1	2.8	2.7	2.5	<2.5
Burkina Faso	22.9	17.8	14.5	13.6	13.7	14.0	14.6	15.5	16.2
Burundi									
Cabo Verde	15.0	11.2	17.0	21.7	20.9	19.8	18.5	18.1	18.2
Cambodia	24.3	17.8	11.1	6.5	5.8	4.8	4.3	4.6	4.8
Cameroon	22.7	15.8	5.9	5.0	5.6	5.9	5.8	5.6	6.4
Canada	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Central African Republic	38.5	38.9	33.4	48.0	46.7	44.5	44.8	45.7	48.7
Chad	38.6	38.1	30.2	26.1	26.0	26.8	28.1	29.8	31.4
Chile	3.5	3.2	3.7	3.1	3.0	2.8	2.6	<2.5	2.5
China	10.1	7.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Colombia	8.9	11.5	11.3	4.5	4.3	4.6	5.4	6.3	6.6

TABLE 38.
PREVALENCE OF UNDERNOURISHMENT (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Comoros	25.2	16.8	16.2	11.9	11.6	11.7	11.6	11.9	13.5
Congo	27.0	34.5	38.7	28.5	30.2	30.8	31.1	32.0	33.3
Costa Rica	4.7	4.3	4.6	3.7	3.2	3.1	3.1	3.1	3.0
Côte d'Ivoire	18.2	16.9	16.4	10.6	9.8	9.0	8.4	7.9	7.7
Croatia	6.9	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Cuba	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Cyprus	5.2	7.7	3.3	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Czechia	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Democratic People's Republic of Korea	35.7	34.3	39.7	41.4	43.0	42.5	43.3	43.9	45.5
Democratic Republic of the Congo	27.9	28.4	28.1	30.8	31.2	31.0	32.5	33.9	35.3
Denmark	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Djibouti	42.1	30.2	26.5	20.2	19.9	19.4	19.0	17.3	16.8
Dominica	3.8	5.2	4.2	5.6	6.1	6.4	6.8	7.1	6.7
Dominican Republic	20.6	19.4	13.5	6.7	6.0	5.7	6.3	6.3	6.3
Ecuador	21.0	22.3	12.0	9.7	10.8	11.9	13.4	14.1	13.9
Egypt	5.2	6.4	5.1	6.0	6.4	6.3	6.3	6.4	7.2
El Salvador	7.3	9.2	9.9	8.9	8.0	7.1	7.2	7.0	7.7
Equatorial Guinea									
Eritrea									
Estonia	3.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Eswatini	10.5	9.6	19.7	14.5	13.7	12.9	12.1	11.9	11.6
Ethiopia	46.7	37.1	24.2	14.1	15.5	18.0	20.7	22.3	21.9
Fiji	4.0	3.5	6.9	8.9	8.4	6.9	5.7	5.9	6.6
Finland	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
France	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Gabon	10.8	14.4	16.6	17.4	18.4	19.5	20.9	22.1	23.0
Gambia	18.0	21.5	13.1	16.7	17.6	17.8	18.3	18.7	19.6
Georgia	7.2	3.9	4.2	3.7	3.7	3.1	3.1	3.0	2.9
Germany	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Ghana	14.9	11.1	6.2	8.3	7.6	6.5	5.7	5.1	4.9
Greece	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Grenada									
Guatemala	22.7	19.4	15.8	14.8	14.4	14.1	14.1	13.5	13.3
Guinea	18.0	14.9	15.4	13.3	13.3	12.7	12.5	12.4	12.9
Guinea-Bissau	15.8	16.4	23.8	34.0	32.9	33.1	35.3	36.8	37.9
Guyana	6.4	7.1	9.4	3.4	3.3	3.5	3.6	3.0	<2.5
Haiti	49.2	51.8	41.8	39.6	41.1	42.2	43.6	43.3	45.0
Honduras	22.4	22.6	16.4	14.9	14.3	14.1	14.5	16.2	18.7
Hungary	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Iceland	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
India	18.3	21.4	15.7	13.5	12.9	13.1	14.4	15.9	16.6
Indonesia	19.0	19.3	13.2	6.7	6.0	5.9	6.0	6.1	5.9
Iran (Islamic Republic of)	5.0	5.4	7.1	6.8	7.2	7.2	7.0	6.2	6.1

TABLE 38.
PREVALENCE OF UNDERNOURISHMENT (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Iraq	21.7	17.8	14.7	17.6	17.5	17.2	16.9	16.4	16.3
Ireland	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Israel	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Italy	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Jamaica	7.6	7.9	8.7	7.7	7.3	6.3	6.6	7.5	8.3
Japan	<2.5	<2.5	2.8	<2.5	<2.5	<2.5	<2.5	2.7	3.2
Jordan									
Kazakhstan	6.3	7.2	3.1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Kenya	32.3	28.4	21.3	21.5	22.8	22.2	23.0	24.7	27.8
Kiribati	5.4	6.1	12.6	10.9	10.9	11.5	12.2	12.1	12.1
Kuwait	2.8	<2.5	<2.5	<2.5	<2.5	2.6	2.6	<2.5	<2.5
Kyrgyzstan	14.6	8.0	7.4	5.5	5.1	4.5	4.5	4.6	4.8
Lao People's Democratic Republic	31.4	22.7	14.5	5.9	5.6	5.3	5.4	5.2	4.7
Latvia	4.6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Lebanon									
Lesotho	20.7	13.9	11.8	34.0	31.6	33.0	38.1	43.7	46.0
Liberia	36.3	33.5	33.2	35.3	35.1	35.6	36.9	37.8	38.4
Libya	3.5	4.7	7.1	6.6	6.9	7.1	7.7	7.9	8.4
Lithuania	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Luxembourg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Madagascar	34.1	33.7	28.3	41.9	42.8	44.7	47.1	49.5	51.0
Malawi	23.4	21.9	14.2	14.3	15.1	15.7	16.5	17.2	17.8
Malaysia	<2.5	3.1	4.7	5.7	5.2	4.4	3.8	3.2	2.7
Maldives									
Mali	16.6	13.6	6.3	3.8	3.9	4.3	6.6	9.7	12.8
Malta	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	2.8	3.7	4.6
Marshall Islands									
Mauritania	8.2	9.1	7.0	7.0	7.0	6.9	7.0	7.5	8.7
Mauritius	5.8	5.1	4.7	6.1	6.2	5.9	6.6	6.9	6.8
Mexico	3.2	4.4	4.4	3.8	3.8	3.4	2.8	<2.5	<2.5
Micronesia (Federated States of)									
Mongolia	30.5	28.8	16.0	6.8	5.9	5.7	5.1	6.6	8.0
Montenegro	9.6	5.4	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Morocco	6.3	5.5	5.1	3.7	3.6	3.6	4.2	5.3	6.3
Mozambique	36.9	33.8	19.7	40.7	35.5	29.5	27.0	29.5	30.5
Myanmar	38.6	29.0	10.2	3.4	3.1	3.0	2.9	3.4	3.8
Namibia	15.6	20.3	30.4	19.3	18.9	18.2	17.6	17.1	17.1
Nauru									
Nepal	24.1	17.0	10.1	5.4	4.8	4.7	4.9	5.2	5.4
Netherlands (Kingdom of the)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
New Zealand	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Nicaragua	27.1	22.9	19.9	18.3	17.6	17.4	17.5	17.9	17.8

TABLE 38.
PREVALENCE OF UNDERNOURISHMENT (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Niger	23.3	19.1	15.3	11.7	10.9	11.0	11.9	14.2	16.1
Nigeria	8.8	7.0	8.4	9.6	10.1	10.6	12.4	14.2	15.9
North Macedonia	7.4	4.9	3.5	3.3	3.1	2.8	2.9	3.2	3.6
Norway	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Oman	12.4	9.4	5.6	6.3	5.8	4.5	3.1	2.7	2.8
Pakistan	20.8	17.1	15.1	11.5	10.8	11.0	13.1	16.0	18.5
Palau									
Panama	24.5	21.6	10.4	7.0	6.1	5.2	4.7	4.9	5.3
Papua New Guinea	26.8	28.0	26.1	22.9	23.0	23.4	23.1	23.1	23.4
Paraguay	10.4	9.3	4.7	2.7	2.8	2.9	3.3	3.5	4.2
Peru	21.4	18.7	8.4	6.1	6.3	5.9	6.2	6.5	7.0
Philippines	18.9	14.6	12.3	7.8	6.4	5.4	5.0	5.1	5.2
Poland	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Portugal	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Qatar									
Republic of Korea	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Republic of Moldova	24.4	33.4	12.2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Romania	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Russian Federation	4.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Rwanda	38.0	34.3	30.3	31.5	31.4	31.8	32.7	32.4	31.6
Saint Kitts and Nevis									
Saint Lucia									
Saint Vincent and the Grenadines	14.4	8.5	6.3	4.3	3.6	3.2	3.3	3.6	3.1
Samoa	3.1	2.8	5.4	7.9	7.9	7.7	7.4	5.6	4.6
San Marino									
Sao Tome and Principe	15.7	10.3	15.4	15.8	15.3	15.3	14.9	13.5	13.1
Saudi Arabia	5.4	4.9	8.3	4.4	4.5	4.7	4.6	4.3	3.8
Senegal	24.5	18.1	10.8	8.3	7.3	6.7	6.3	5.9	5.7
Serbia	3.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Seychelles	2.6	2.6	4.0	4.7	4.3	4.0	4.0	3.5	4.3
Sierra Leone	50.4	46.5	26.7	24.2	25.7	26.8	27.5	27.3	27.8
Singapore									
Slovakia	6.1	5.5	5.1	5.2	4.0	3.3	2.7	<2.5	2.8
Slovenia	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Solomon Islands	12.7	12.0	15.6	20.9	20.2	19.8	19.9	19.5	19.0
Somalia	70.6	70.4	70.1	57.7	56.6	54.0	51.9	49.9	48.7
South Africa	3.8	3.4	4.7	6.2	5.7	5.7	6.1	6.9	7.9
South Sudan								20.8	21.4
Spain	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Sri Lanka	16.5	13.9	13.0	8.1	7.6	7.1	6.4	5.7	5.3
Sudan				10.6	11.1	11.5	11.3	11.6	11.9
Suriname	11.8	9.8	8.1	9.7	9.7	9.2	9.0	9.1	9.0
Sweden	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Switzerland	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

TABLE 38.
PREVALENCE OF UNDERNOURISHMENT (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Syrian Arab Republic	7.6	4.9	4.7	13.5	16.8	20.1	23.6	25.7	27.8
Tajikistan	40.4	37.6	26.8	14.1	12.3	10.5	9.8	9.3	9.3
Thailand	17.3	11.9	9.6	6.8	6.8	6.5	6.0	5.6	5.2
Timor-Leste	42.8	33.1	32.9	27.1	26.1	25.0	23.8	23.7	22.3
Togo	31.6	28.3	21.2	20.3	20.0	19.7	18.8	17.5	17.4
Tonga									
Trinidad and Tobago	10.0	11.2	11.0	11.5	12.0	12.7	13.2	13.4	12.2
Tunisia	4.4	4.3	3.5	2.7	2.6	<2.5	<2.5	2.8	3.0
Türkiye	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Turkmenistan	6.4	4.2	5.9	5.6	5.6	5.8	5.8	5.8	5.7
Tuvalu									
Uganda	18.4	16.9	18.4	34.2	35.5	34.1	32.5	31.5	31.6
Ukraine	3.0	<2.5	<2.5	<2.5	<2.5	2.8	3.6	4.1	4.8
United Arab Emirates	3.1	7.6	7.4	4.5	4.3	3.8	3.4	2.7	<2.5
United Kingdom of Great Britain and Northern Ireland	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
United Republic of Tanzania	32.8	28.1	23.8	21.1	21.8	22.2	22.3	22.2	23.5
United States of America	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Uruguay	3.4	2.9	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Uzbekistan	18.0	14.8	5.8	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vanuatu	7.0	6.9	9.3	10.3	10.4	10.5	10.8	9.8	9.5
Venezuela (Bolivarian Republic of)	14.8	8.3	<2.5	16.8	23.0	22.7	23.4	21.6	17.9
Viet Nam	19.5	15.2	9.9	6.8	6.4	6.0	5.5	5.1	5.0
Yemen	26.2	27.3	25.1	42.0	42.9	41.1	38.9	36.0	34.5
Zambia	50.4	51.4	44.1	31.2	29.4	28.8	29.2	30.0	29.8
Zimbabwe	33.0	30.0	26.3	35.1	36.3	38.2	38.9	39.1	38.4

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 39.
PEOPLE UNDERNOURISHED (MILLION)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
World	804.9	786.7	612.6	582.3	581.6	590.5	633.7	684.4	725.1
Africa	183.4	181.0	167.5	200.5	209.2	216.2	231.8	250.1	269.0
Asia	549.4	542.6	397.0	337.7	326.8	329.5	355.1	384.7	404.0
Latin America and the Caribbean	57.0	51.8	38.9	35.9	37.6	36.9	38.8	41.3	43.7
Northern America and Europe									
Oceania	2.0	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.9
Afghanistan	9.3	8.5	5.8	7.6	8.1	8.8	10.2	11.2	12.0
Albania	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Algeria	2.5	2.2	1.5	1.1	1.1				
Andorra									
Angola	11.5	10.2	5.3	4.2	4.4	4.8	5.7	6.7	7.4
Antigua and Barbuda									
Argentina	1.2	1.5	1.5	1.3	1.4	1.5	1.5	1.5	1.4
Armenia	0.8	0.4	<0.1						
Australia									
Austria									
Azerbaijan	1.4	0.4							
Bahamas									
Bahrain									
Bangladesh	20.5	19.2	22.6	22.8	22.0	20.7	19.6	19.5	18.9
Barbados	<0.1	<0.1	<0.1	<0.1	<0.1				
Belarus									
Belgium									
Belize	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benin	1.2	1.0	0.8	1.0	1.1	1.2	1.3	1.3	1.3
Bhutan									
Bolivia (Plurinational State of)	2.4	2.5	2.2	1.7	1.6	1.6	1.6	1.9	2.3
Bosnia and Herzegovina	0.1		<0.1						
Botswana	0.4	0.4	0.5	0.6	0.6	0.6	0.7	0.6	0.6
Brazil	19.1	12.1	7.2					7.8	10.1
Brunei Darussalam									
Bulgaria	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	
Burkina Faso	2.8	2.5	2.3	2.6	2.7	2.9	3.1	3.3	3.6
Burundi									
Cabo Verde	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cambodia	3.0	2.4	1.6	1.0	0.9	0.8	0.7	0.8	0.8
Cameroon	3.5	2.7	1.2	1.2	1.4	1.5	1.5	1.5	1.7
Canada									
Central African Republic	1.5	1.6	1.6	2.4	2.3	2.3	2.3	2.4	2.7
Chad	3.3	3.8	3.6	3.8	3.9	4.2	4.5	5.0	5.4
Chile	0.5	0.5	0.6	0.6	0.5	0.5	0.5		0.5
China	131.3	93.6							
Colombia	3.6	4.8	5.1	2.1	2.1	2.3	2.7	3.2	3.4
Comoros	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 39.
PEOPLE UNDERNOURISHED (MILLION) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Congo	0.9	1.3	1.7	1.5	1.6	1.7	1.7	1.8	1.9
Costa Rica	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Côte d'Ivoire	3.1	3.2	3.5	2.6	2.4	2.3	2.2	2.1	2.1
Croatia	0.3								
Cuba									
Cyprus	<0.1	<0.1	<0.1						
Czechia									
Democratic People's Republic of Korea	8.4	8.3	9.8	10.5	11.0	10.9	11.2	11.4	11.8
Democratic Republic of the Congo	14.0	16.1	18.6	25.1	26.3	27.0	29.2	31.4	33.8
Denmark									
Djibouti	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Dominica	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dominican Republic	1.8	1.8	1.3	0.7	0.6	0.6	0.7	0.7	0.7
Ecuador	2.7	3.1	1.8	1.6	1.8	2.0	2.3	2.5	2.5
Egypt	3.8	5.0	4.5	6.0	6.5	6.6	6.6	6.9	7.8
El Salvador	0.4	0.6	0.6	0.6	0.5	0.4	0.5	0.4	0.5
Equatorial Guinea									
Eritrea									
Estonia	<0.1								
Eswatini	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Ethiopia	32.2	28.7	21.6	14.9	16.8	20.0	23.7	26.2	26.4
Fiji	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Finland									
France									
Gabon	0.1	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.5
Gambia	0.3	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5
Georgia	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Germany									
Ghana	3.0	2.5	1.6	2.4	2.3	2.0	1.8	1.6	1.6
Greece									
Grenada									
Guatemala	2.7	2.5	2.3	2.4	2.4	2.4	2.4	2.4	2.3
Guinea	1.5	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.8
Guinea-Bissau	0.2	0.2	0.4	0.6	0.6	0.6	0.7	0.7	0.8
Guyana	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Haiti	4.2	4.7	4.1	4.2	4.5	4.6	4.9	4.9	5.1
Honduras	1.5	1.7	1.4	1.4	1.4	1.4	1.4	1.6	1.9
Hungary									
Iceland									
India	197.2	247.2	195.2	181.1	174.3	179.4	199.7	222.1	233.9
Indonesia	41.2	44.2	32.2	17.5	15.9	15.7	16.3	16.5	16.2
Iran (Islamic Republic of)	3.3	3.8	5.3	5.7	6.1	6.2	6.0	5.4	5.3
Iraq	5.5	5.1	4.6	6.8	6.9	7.0	7.0	7.0	7.1

TABLE 39.
PEOPLE UNDERNOURISHED (MILLION) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Ireland									
Israel									
Italy									
Jamaica	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Japan			3.6					3.3	4.0
Jordan									
Kazakhstan	1.0	1.1	0.5						
Kenya	10.3	10.2	8.8	10.3	11.2	11.1	11.7	12.8	14.7
Kiribati	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Kuwait	<0.1					0.1	0.1		
Kyrgyzstan	0.7	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Lao People's Democratic Republic	1.7	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4
Latvia	0.1								
Lebanon									
Lesotho	0.4	0.3	0.2	0.7	0.7	0.7	0.8	1.0	1.0
Liberia	1.1	1.1	1.3	1.7	1.7	1.7	1.8	1.9	2.0
Libya	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6
Lithuania									
Luxembourg									
Madagascar	5.7	6.3	6.1	10.7	11.2	12.0	13.0	14.0	14.8
Malawi	2.7	2.8	2.1	2.5	2.7	2.9	3.1	3.3	3.5
Malaysia		0.8	1.3	1.8	1.7	1.4	1.2	1.1	0.9
Maldives									
Mali	1.9	1.8	1.0	0.7	0.8	0.9	1.4	2.1	2.8
Malta							<0.1	<0.1	<0.1
Marshall Islands									
Mauritania	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4
Mauritius	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mexico	3.2	4.6	4.9	4.7	4.7	4.2	3.5		
Micronesia (Federated States of)									
Mongolia	0.8	0.7	0.4	0.2	0.2	0.2	0.2	0.2	0.3
Montenegro	<0.1	<0.1							
Morocco	1.8	1.7	1.7	1.3	1.3	1.3	1.5	2.0	2.3
Mozambique	6.7	6.8	4.6	11.3	10.1	8.7	8.2	9.2	9.8
Myanmar	17.8	13.8	5.0	1.8	1.6	1.6	1.5	1.8	2.1
Namibia	0.3	0.4	0.6	0.4	0.4	0.4	0.4	0.4	0.4
Nauru									
Nepal	6.0	4.5	2.8	1.5	1.4	1.3	1.4	1.5	1.6
Netherlands (Kingdom of the)									
New Zealand									
Nicaragua	1.4	1.3	1.2	1.2	1.1	1.1	1.2	1.2	1.2
Niger	2.8	2.6	2.6	2.5	2.4	2.5	2.8	3.5	4.1
Nigeria	11.1	9.8	13.5	18.0	19.6	21.0	25.2	29.6	34.0

TABLE 39.
PEOPLE UNDERNOURISHED (MILLION) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
North Macedonia	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Norway									
Oman	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1
Pakistan	33.1	29.8	29.4	24.6	23.4	24.2	29.2	36.3	42.8
Palau									
Panama	0.8	0.7	0.4	0.3	0.2	0.2	0.2	0.2	0.2
Papua New Guinea	1.5	1.8	2.0	2.0	2.1	2.2	2.2	2.2	2.3
Paraguay	0.5	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.3
Peru	5.8	5.3	2.5	1.9	2.0	1.9	2.0	2.2	2.4
Philippines	15.0	12.6	11.7	8.2	6.9	5.8	5.5	5.7	5.9
Poland									
Portugal									
Qatar									
Republic of Korea									
Republic of Moldova	1.0	1.3	0.4						
Romania									
Russian Federation	5.9								
Rwanda	3.1	3.1	3.1	3.8	3.8	4.0	4.2	4.3	4.3
Saint Kitts and Nevis									
Saint Lucia									
Saint Vincent and the Grenadines	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Samoa	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
San Marino									
Sao Tome and Principe	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Saudi Arabia	1.2	1.2	2.4	1.5	1.5	1.6	1.6	1.5	1.4
Senegal	2.4	2.0	1.4	1.2	1.1	1.0	1.0	1.0	1.0
Serbia	0.3								
Seychelles	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sierra Leone	2.4	2.6	1.7	1.8	2.0	2.1	2.2	2.2	2.3
Singapore									
Slovakia	0.3	0.3	0.3	0.3	0.2	0.2	0.1		0.2
Slovenia									
Solomon Islands	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1
Somalia	6.4	7.4	8.4	8.3	8.4	8.3	8.3	8.3	8.3
South Africa	1.8	1.7	2.4	3.5	3.2	3.2	3.6	4.0	4.7
South Sudan							0.0	2.2	2.3
Spain									
Sri Lanka	3.1	2.7	2.7	1.7	1.6	1.5	1.4	1.2	1.1
Sudan				4.2	4.5	4.8	4.9	5.2	5.4
Suriname	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sweden									
Switzerland									
Syrian Arab Republic	1.3	0.9	1.1	2.6	3.2	3.9	4.7	5.3	5.9
Tajikistan	2.6	2.6	2.0	1.2	1.1	1.0	0.9	0.9	0.9

TABLE 39.
PEOPLE UNDERNOURISHED (MILLION) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Thailand	11.0	7.8	6.6	4.8	4.8	4.7	4.3	4.0	3.7
Timor-Leste	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Togo	1.6	1.6	1.4	1.6	1.6	1.6	1.5	1.5	1.5
Tonga									
Trinidad and Tobago	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Tunisia	0.4	0.4	0.4	0.3	0.3			0.3	0.4
Türkiye									
Turkmenistan	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
Tuvalu									
Uganda	4.6	4.7	5.9	13.3	14.2	14.2	14.0	14.0	14.5
Ukraine	1.4					1.3	1.6	1.8	2.0
United Arab Emirates	0.1	0.3	0.6	0.4	0.4	0.3	0.3	0.3	
United Kingdom of Great Britain and Northern Ireland									
United Republic of Tanzania	11.6	11.1	10.7	11.5	12.3	12.9	13.4	13.7	14.9
United States of America									
Uruguay	0.1	<0.1							
Uzbekistan	4.5	3.9	1.7						
Vanuatu	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Venezuela (Bolivarian Republic of)	3.7	2.2		5.2	7.0	6.8	6.8	6.2	5.1
Viet Nam	15.6	12.6	8.7	6.4	6.0	5.7	5.3	4.9	4.9
Yemen	5.0	5.8	6.2	12.3	12.9	12.7	12.3	11.6	11.4
Zambia	5.1	5.9	6.1	5.2	5.1	5.1	5.4	5.7	5.8
Zimbabwe	3.9	3.7	3.4	5.1	5.4	5.8	6.0	6.1	6.1

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 40.
FOOD INSECURITY LEVELS (PERCENT)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	2014–2016	2018–2020	2019–2021	2020–2022	2014–2016	2018–2020	2019–2021	2020–2022
World	7.8	9.7	10.6	11.3	21.9	26.6	28.1	29.5
Africa	17.8	20.7	22.2	23.4	46.6	53.2	56.1	58.9
Asia	6.7	8.6	9.4	9.9	17.7	22.6	23.8	24.8
Latin America and the Caribbean	7.9	10.5	12.0	13.0	27.6	34.1	37.1	39.0
Northern America and Europe	1.3	1.0	1.2	1.4	9.1	7.5	7.5	7.8
Oceania	2.8	3.4	3.6	3.5	11.1	12.9	12.9	12.7
Afghanistan	14.8	19.8	22.6	28.4	45.1	63.1	70.1	79.1
Albania	10.0	8.8	7.7	7.5	38.8	33.8	30.9	30.2
Algeria	13.0	6.9	6.2	5.6	22.9	17.6	19.0	19.4
Andorra								
Angola	21.0	26.9	30.4	31.2	66.5	73.5	77.7	78.5
Antigua and Barbuda			7.1	7.1			33.0	33.0
Argentina	5.8	12.6	13.0	13.1	19.2	35.8	37.0	36.9
Armenia		0.8	<0.5	<0.5		11.7	8.3	7.1
Australia	2.8	3.3	3.6	3.4	10.8	12.3	11.9	11.4
Austria	1.1	0.9	1.3	1.6	5.5	3.0	3.3	4.3
Azerbaijan	<0.5	<0.5	<0.5	<0.5	5.9	8.8	9.5	10.1
Bahamas			3.4	3.4			17.2	17.2
Bahrain								
Bangladesh	13.3	10.5	10.7	11.0	32.2	31.9	31.7	31.1
Barbados			7.4	7.4			31.1	31.1
Belarus								
Belgium		1.1	1.3	1.5		3.7	4.8	5.8
Belize		6.0	6.0	5.9		39.0	42.3	45.5
Benin	10.4	13.8	13.8	15.3	55.0	65.7	68.0	73.6
Bhutan								
Bolivia (Plurinational State of)								
Bosnia and Herzegovina	1.5	1.9	2.8	3.1	9.6	10.0	12.6	13.4
Botswana	18.4	23.7	25.4	26.7	46.5	54.0	55.6	56.3
Brazil	1.9	3.5	7.3	9.9	18.3	23.5	28.8	32.8
Brunei Darussalam								
Bulgaria	1.9	2.4	2.9	3.5	14.9	13.2	15.5	15.8
Burkina Faso	10.0	15.4	18.5	21.2	41.8	47.9	52.6	56.9
Burundi								
Cabo Verde		7.6	6.4	6.3		35.1	35.4	37.0
Cambodia	16.9	14.0	15.1	14.8	48.9	46.6	50.0	51.1
Cameroon	22.3	27.3	26.7	26.7	49.9	56.4	55.8	58.5
Canada		0.9	1.0	1.2		5.8	6.5	7.7
Central African Republic		61.8	61.8	61.8		81.3	81.3	81.3
Chad								
Chile	2.9	3.6	3.8	4.1	10.8	17.3	17.4	18.1
China								
Colombia								

TABLE 40.
FOOD INSECURITY LEVELS (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	2014–2016	2018–2020	2019–2021	2020–2022	2014–2016	2018–2020	2019–2021	2020–2022
Comoros			27.4	27.4			79.7	79.7
Congo	42.6	51.7	55.5	58.8	82.0	88.3	88.7	88.2
Costa Rica	1.8	2.6	2.8	2.9	12.2	15.3	15.9	16.2
Côte d'Ivoire	6.2	9.1	9.4	9.7	34.1	40.6	42.8	44.2
Croatia	0.6	1.3	1.6	1.9	6.5	11.0	11.4	9.7
Cuba								
Cyprus								
Czechia	0.7	0.8	1.6	2.3	5.8	4.2	5.8	8.5
Democratic People's Republic of Korea								
Democratic Republic of the Congo		38.5	39.2	40.7		69.2	72.3	76.6
Denmark	1.0	1.1	1.4	1.8	5.9	5.0	5.5	6.8
Djibouti			16.5	16.5			49.2	49.2
Dominica								
Dominican Republic	24.3	23.2	22.2	22.0	54.2	55.0	53.1	52.1
Ecuador	6.0	11.6	12.8	13.0	20.7	32.7	36.8	37.3
Egypt	8.4	6.7	7.1	8.8	27.8	27.8	27.3	28.5
El Salvador	13.8	15.1	14.7	16.2	42.2	45.1	46.5	48.4
Equatorial Guinea								
Eritrea								
Estonia	0.9	0.8	0.8	0.7	9.5	7.9	7.9	8.5
Eswatini			18.3	18.3			67.0	67.0
Ethiopia	14.5	16.4	19.6	21.1	56.2	56.3	56.2	58.1
Fiji		2.0	4.2	6.3		14.3	19.3	24.2
Finland	2.4	1.9	2.4	2.6	9.3	8.0	8.8	10.5
France	1.6	0.7	1.0	1.6	6.8	5.8	5.9	6.6
Gabon								
Gambia		25.7	27.1	27.0		56.0	58.0	60.7
Georgia	7.0	9.5	9.5	9.7	31.8	39.7	38.8	36.5
Germany	1.0	0.7	1.1	1.4	4.1	3.4	3.5	3.8
Ghana	5.1	6.0	5.6	6.2	38.3	38.2	36.6	39.4
Greece	2.6	1.7	1.5	1.5	15.8	8.6	6.8	6.3
Grenada		8.3	7.5	6.6		23.6	22.3	21.1
Guatemala	16.1	19.2	20.7	21.1	42.7	49.6	55.8	59.8
Guinea	44.3	49.7	48.9	49.5	72.5	74.1	73.3	73.1
Guinea-Bissau		21.0	29.2	32.0		69.8	75.0	77.8
Guyana								
Haiti		48.8	45.2	42.9		82.7	82.5	82.6
Honduras	14.2	14.6	17.9	23.5	41.6	45.6	49.9	56.1
Hungary	1.4	1.4	2.1	3.0	11.3	8.6	10.6	12.6
Iceland	1.7	1.5	1.3	1.6	6.4	6.6	6.3	6.1
India								
Indonesia	0.7	<0.5	<0.5	<0.5	6.0	5.8	5.1	4.9
Iran (Islamic Republic of)	9.5	8.7	7.7	7.4	48.0	42.5	42.4	40.8

TABLE 40.
FOOD INSECURITY LEVELS (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	2014–2016	2018–2020	2019–2021	2020–2022	2014–2016	2018–2020	2019–2021	2020–2022
Iraq								
Ireland	3.4	4.3	3.2	2.4	8.9	8.3	6.5	5.4
Israel	1.3	1.9	2.0	3.1	11.0	13.7	14.2	13.2
Italy	1.2	1.2	1.9	1.8	8.6	6.7	6.3	5.7
Jamaica	25.3	23.3	23.1	25.6	48.3	48.4	50.3	54.4
Japan	<0.5	0.7	0.9	0.9	2.6	3.4	3.8	4.4
Jordan								
Kazakhstan		<0.5	<0.5	0.5		2.6	2.8	2.4
Kenya	15.0	24.9	26.1	28.0	50.7	67.7	69.5	72.3
Kiribati		8.0	8.0	8.0		41.0	41.0	41.0
Kuwait	4.9	4.9	4.9	4.5	12.6	12.3	12.2	10.9
Kyrgyzstan		0.9	1.0	1.1		6.4	6.6	6.9
Lao People's Democratic Republic		8.9	8.3	7.2		29.4	31.8	34.1
Latvia	0.6	0.7	0.7	1.0	9.9	10.2	9.4	9.4
Lebanon		6.8	10.2	12.6		21.1	29.0	36.5
Lesotho		29.0	30.9	32.8		52.0	54.4	56.7
Liberia	38.6	37.3	37.3	37.5	79.7	80.6	80.6	81.2
Libya	11.2	18.6	20.7	21.2	29.1	37.4	39.4	39.8
Lithuania	2.5	1.7	1.9	2.1	15.3	11.3	9.8	8.5
Luxembourg	1.8	0.8	0.7	0.6	4.7	3.1	2.8	2.7
Madagascar		9.9	10.3	12.2		59.6	61.1	64.9
Malawi	47.7	49.5	51.0	52.2	78.1	79.9	81.3	82.4
Malaysia	7.8	6.6	6.3	6.0	17.4	14.9	15.4	16.0
Maldives			2.2	2.2			13.4	13.4
Mali								
Malta	1.5	0.9	1.4	1.9	5.8	4.3	5.2	7.2
Marshall Islands								
Mauritania	4.6	6.6	7.2	9.5	26.3	41.2	45.3	53.7
Mauritius	5.2	8.3	9.1	10.5	13.0	24.2	28.2	32.0
Mexico	3.6	3.9	3.7	3.6	25.6	24.6	26.1	27.6
Micronesia (Federated States of)								
Mongolia	<0.5	<0.5	<0.5	<0.5	6.8	6.8	6.2	5.7
Montenegro	2.1	2.8	3.4	3.3	12.6	13.5	14.0	12.9
Morocco								
Mozambique		40.5	40.4	39.6		71.1	73.7	75.4
Myanmar		1.9	3.7	5.0		22.2	25.5	29.3
Namibia	28.8	32.1	32.6	33.0	53.2	57.6	57.9	57.7
Nauru								
Nepal	10.4	12.0	13.6	13.2	29.5	36.4	37.8	37.4
Netherlands (Kingdom of the)	1.5	1.4	1.4	1.4	5.7	4.6	4.4	4.5
New Zealand	2.8	3.9	3.5	3.3	10.0	14.0	14.5	15.1
Nicaragua								
Niger		16.6		30.5		56.4		71.4

TABLE 40.
FOOD INSECURITY LEVELS (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	2014–2016	2018–2020	2019–2021	2020–2022	2014–2016	2018–2020	2019–2021	2020–2022
Nigeria	11.0	17.3	19.8	21.3	34.7	53.5	62.9	69.7
North Macedonia	3.6	5.0	6.0	6.9	15.1	17.7	20.9	24.0
Norway	1.1	1.0	1.0	1.2	4.8	4.1	4.3	5.2
Oman								
Pakistan	0.9	4.8	8.7	12.9	14.1	24.3	32.6	42.3
Palau								
Panama								
Papua New Guinea								
Paraguay	1.2	5.2	5.6	6.1	8.3	24.0	25.3	25.9
Peru								
Philippines		4.0	4.8	5.7		42.7	43.8	44.7
Poland	1.8	<0.5	0.9	1.0	8.9	5.8	7.4	7.5
Portugal	4.1	3.2	3.2	3.9	14.7	11.5	11.6	12.4
Qatar								
Republic of Korea	<0.5	0.6	0.7	0.8	4.8	5.1	5.3	5.6
Republic of Moldova	1.6	4.5	4.9	4.8	19.3	27.2	24.9	23.5
Romania	5.6	3.4	3.7	5.7	19.3	13.9	13.4	16.3
Russian Federation	0.7	<0.5	<0.5	<0.5	8.2	6.0	5.5	5.0
Rwanda								
Saint Kitts and Nevis	8.1	7.2	6.4	5.6	21.1	24.0	26.9	29.8
Saint Lucia	4.5			4.5	22.2			22.2
Saint Vincent and the Grenadines		10.3	10.3	10.3		33.3	33.3	33.3
Samoa		3.4	3.4	3.4		23.6	23.6	23.6
San Marino								
Sao Tome and Principe			14.1	14.1			54.6	54.6
Saudi Arabia								
Senegal	7.5	10.0	11.2	11.1	39.0	44.0	49.2	49.8
Serbia	1.7	2.6	3.8	4.1	11.4	12.0	14.1	14.8
Seychelles	3.2			3.3	14.3			14.7
Sierra Leone	26.7	32.2	31.5	31.9	75.8	85.3	86.7	89.2
Singapore	1.0	0.9	0.7	1.7	2.8	4.5	4.6	6.6
Slovakia	1.1	1.1	1.6	1.8	6.2	6.0	7.7	8.3
Slovenia	0.9	<0.5	0.6	0.9	12.3	8.2	7.4	7.0
Solomon Islands								
Somalia			41.7	43.4			77.4	79.5
South Africa		7.5	8.0	9.0		18.2	19.0	20.3
South Sudan		63.0	62.3	63.2		85.7	86.4	87.3
Spain	1.1	1.8	2.0	1.8	7.1	8.8	8.6	8.0
Sri Lanka	0.7	0.9	1.1	1.2	5.9	8.9	10.0	10.9
Sudan	13.4	16.8	17.4	18.1	41.4	49.4	50.7	51.8
Suriname			7.2	7.2			35.8	35.8
Sweden	0.8	1.2	1.3	1.4	4.5	5.3	5.3	5.4
Switzerland	1.5	<0.5	<0.5	0.6	4.8	2.0	2.2	2.1

TABLE 40.
FOOD INSECURITY LEVELS (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	2014–2016	2018–2020	2019–2021	2020–2022	2014–2016	2018–2020	2019–2021	2020–2022
Syrian Arab Republic								
Tajikistan								
Thailand	0.7	0.8	1.1	1.3	4.7	5.4	6.4	7.1
Timor-Leste								
Togo	16.1	17.2	18.8	19.4	60.4	61.2	62.5	62.9
Tonga		6.0	4.8	3.7		23.2	20.4	17.6
Trinidad and Tobago			10.2	10.2			43.3	43.3
Tunisia	9.1	10.7	12.6	12.6	18.2	25.0	28.0	28.5
Türkiye								
Turkmenistan								
Tuvalu								
Uganda	21.5	23.4	23.2	24.9	66.3	73.1	72.5	74.2
Ukraine	2.0	2.5	3.2	4.3	19.8	19.9	22.7	28.2
United Arab Emirates			0.8	1.2			7.5	9.8
United Kingdom of Great Britain and Northern Ireland	1.9	0.7	1.1	1.6	6.3	3.9	3.5	4.1
United Republic of Tanzania	20.6	24.4	25.8	26.3	48.9	56.3	57.6	58.7
United States of America	1.1	0.8	0.7	0.7	10.5	8.2	8.0	7.8
Uruguay	1.7	2.1	2.5	2.9	13.3	14.0	14.1	15.2
Uzbekistan	1.9	4.0	5.6	6.8	11.2	19.7	23.6	26.1
Vanuatu		2.4	2.4	2.4		23.3	23.3	23.3
Venezuela (Bolivarian Republic of)								
Viet Nam		0.5	0.6	1.2		6.5	7.6	9.0
Yemen	12.3	10.3	11.9	12.8	45.7	49.4	58.5	67.2
Zambia	22.4	28.2	32.6	32.1	51.2	60.3	69.5	73.1
Zimbabwe	35.5	32.1	31.3	28.6	64.7	69.8	73.0	73.6

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 41.
FOOD INSECURITY LEVELS BY SEX (PERCENT)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	MEN		WOMEN		MEN		WOMEN	
	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022
World	6.5	9.3	7.2	10.8	18.9	25.2	20.7	28.1
Africa	16.7	22.3	17.7	22.9	44.2	56.9	46.5	57.9
Asia	5.9	8.4	6.7	10.5	16.3	22.2	17.4	25.0
Latin America and the Caribbean	7.0	11.4	8.5	14.3	25.1	33.7	29.7	43.8
Northern America and Europe	1.2	1.4	1.5	1.4	8.0	7.0	10.1	8.7
Oceania	2.6	3.9	3.0	3.1	9.4	12.7	12.6	12.4
Afghanistan	14.2	23.5	15.3	33.3	42.5	72.9	47.7	85.5
Albania	9.3	5.8	10.7	9.2	35.2	26.3	42.3	34.0
Algeria	11.9	6.9	14.1	4.3	21.6	21.7	24.2	17.0
Andorra								
Angola	20.1	29.8	22.0	32.6	64.0	75.5	69.0	81.4
Antigua and Barbuda		7.4		6.8		29.0		37.0
Argentina	4.9	10.1	6.6	16.2	15.8	31.1	22.6	42.7
Armenia		<0.5		<0.5		6.5		7.8
Australia	2.7	3.8	2.9	3.0	9.2	11.6	12.3	11.3
Austria	0.9	1.7	1.4	1.4	4.5	4.5	6.6	4.2
Azerbaijan	<0.5	<0.5	<0.5	<0.5	5.5	9.7	6.2	10.5
Bahamas		3.6		3.3		17.6		16.9
Bahrain								
Bangladesh	10.7	10.2	15.8	11.8	30.9	30.0	33.6	32.3
Barbados		6.8		8.0		28.8		33.3
Belarus								
Belgium		1.6		1.5		5.9		5.7
Belize		5.9		5.9		45.5		45.5
Benin	10.2	14.9	10.7	15.7	54.6	73.1	55.4	74.2
Bhutan								
Bolivia (Plurinational State of)								
Bosnia and Herzegovina	1.7	2.9	1.4	3.4	9.4	11.3	9.8	15.5
Botswana	16.3	24.6	20.6	28.8	43.0	53.5	49.9	59.2
Brazil	1.2	8.3	2.6	11.4	15.6	26.9	21.1	38.7
Brunei Darussalam								
Bulgaria	2.1	3.1	1.7	3.9	13.7	13.8	16.1	17.7
Burkina Faso	10.8	23.4	9.2	19.1	42.1	59.2	41.6	54.6
Burundi								
Cabo Verde		6.3		6.3		37.0		37.0
Cambodia	14.3	12.5	19.5	17.1	44.2	47.7	53.6	54.6
Cameroon	23.3	27.8	21.4	25.5	50.1	58.7	49.8	58.3
Canada		1.0		1.4		6.2		9.2
Central African Republic		61.8		61.8		81.3		81.3
Chad								
Chile	2.5	3.6	3.4	4.6	9.1	16.2	12.5	20.1

TABLE 41.
FOOD INSECURITY LEVELS BY SEX (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	MEN		WOMEN		MEN		WOMEN	
	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022
China								
Colombia								
Comoros		26.4		28.4		79.5		80.0
Congo	42.6	57.9	42.6	59.7	81.7	87.8	82.2	88.5
Costa Rica	1.8	2.6	1.8	3.2	11.5	14.0	12.9	18.4
Côte d'Ivoire	6.2	9.6	6.3	9.8	34.1	44.2	34.0	44.2
Croatia	0.6	1.5	0.5	2.2	6.3	7.6	6.7	11.8
Cuba								
Cyprus								
Czechia	0.7	2.6	0.7	2.0	5.3	8.5	6.4	8.6
Democratic People's Republic of Korea								
Democratic Republic of the Congo		42.1		39.3		77.1		76.1
Denmark	0.9	1.8	1.0	1.9	5.2	6.2	6.5	7.3
Djibouti		17.6		15.4		49.3		49.2
Dominica								
Dominican Republic	22.8	20.8	25.8	23.1	51.3	48.8	57.2	55.4
Ecuador	5.7	10.9	6.2	15.1	19.9	33.5	21.6	41.1
Egypt	7.0	7.9	9.9	9.8	23.2	27.0	32.3	29.9
El Salvador	12.6	13.7	15.0	18.6	38.6	41.8	45.7	55.0
Equatorial Guinea								
Eritrea								
Estonia	0.9	0.7	0.8	0.8	8.6	7.8	10.3	9.3
Eswatini		19.0		17.6		66.2		67.9
Ethiopia	12.9	20.9	16.2	21.2	55.0	59.0	57.5	57.2
Fiji		6.3		6.4		24.2		24.3
Finland	2.4	2.3	2.4	2.8	8.4	8.1	10.2	12.8
France	1.5	1.5	1.6	1.6	6.5	6.2	7.1	7.0
Gabon								
Gambia		26.9		27.0		61.0		60.5
Georgia	6.5	9.2	7.4	10.2	30.4	34.4	33.2	38.7
Germany	0.8	1.6	1.1	1.2	3.4	4.0	4.7	3.7
Ghana	5.0	6.0	5.1	6.4	36.5	37.9	40.1	41.0
Greece	2.7	1.3	2.6	1.7	15.9	5.8	15.7	6.8
Grenada		6.6		6.6		21.1		21.1
Guatemala	15.3	18.4	16.8	23.8	39.9	52.3	45.4	67.3
Guinea	44.4	48.8	44.1	50.2	73.3	72.5	71.6	73.7
Guinea-Bissau		32.0		32.0		77.8		77.8
Guyana								
Haiti		41.6		44.2		82.2		83.1
Honduras	12.9	22.8	15.5	24.3	38.0	52.4	45.3	59.7
Hungary	1.4	2.6	1.4	3.5	9.5	11.1	13.1	14.1

TABLE 41.
FOOD INSECURITY LEVELS BY SEX (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	MEN		WOMEN		MEN		WOMEN	
	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022
Iceland	1.8	1.3	1.5	1.9	5.3	5.8	7.5	6.5
India								
Indonesia	0.8	<0.5	0.6	<0.5	6.0	4.9	6.0	4.9
Iran (Islamic Republic of)	10.0	7.1	9.1	7.6	48.6	41.4	47.5	40.2
Iraq								
Ireland	4.1	3.0	2.8	1.8	9.3	6.4	8.6	4.5
Israel	1.4	3.9	1.1	2.3	10.6	13.9	11.3	12.6
Italy	1.4	2.6	1.0	1.0	7.8	6.4	9.3	5.0
Jamaica	23.1	24.2	27.6	27.1	44.7	52.4	51.9	56.3
Japan	0.6	1.3	<0.5	0.6	3.3	5.1	2.0	3.7
Jordan								
Kazakhstan		<0.5		0.6		2.2		2.5
Kenya	13.7	26.3	16.3	29.7	47.3	68.4	54.1	76.1
Kiribati		8.0		8.0		41.0		41.0
Kuwait	6.4	5.5	3.3	3.6	15.7	12.3	9.5	9.4
Kyrgyzstan		1.0		1.1		6.6		7.2
Lao People's Democratic Republic		6.7		7.8		33.4		34.7
Latvia	0.5	0.8	0.7	1.1	8.3	8.2	11.5	10.5
Lebanon		11.9		13.3		35.7		37.3
Lesotho		33.0		32.7		57.4		55.9
Liberia	37.2	34.6	40.0	40.5	78.5	78.5	81.0	84.0
Libya	9.0	17.5	13.4	24.9	24.1	34.8	34.1	44.8
Lithuania	2.5	1.9	2.5	2.2	14.6	7.7	16.1	9.3
Luxembourg	1.7	0.7	1.8	0.5	4.1	2.7	5.2	2.6
Madagascar		11.0		13.4		61.9		67.9
Malawi	45.5	50.5	49.9	53.8	77.5	81.7	78.7	83.0
Malaysia	9.4	7.5	6.2	4.5	19.9	18.3	15.0	13.6
Maldives		2.7		1.8		13.5		13.2
Mali								
Malta	1.2	1.5	1.8	2.3	4.8	5.9	6.9	8.5
Marshall Islands								
Mauritania	4.4	9.4	4.9	9.6	25.1	54.5	27.5	52.9
Mauritius	4.5	9.5	5.9	11.5	11.8	31.3	14.2	32.6
Mexico	3.2	2.8	3.9	4.3	24.4	22.1	26.8	33.2
Micronesia (Federated States of)								
Mongolia	<0.5	<0.5	<0.5	<0.5	6.0	5.5	7.6	6.0
Montenegro	2.1	3.8	2.2	2.8	12.2	13.2	13.1	12.5
Morocco								
Mozambique		38.4		40.7		74.0		76.8
Myanmar		4.2		5.9		28.4		30.3
Namibia	27.1	31.7	30.6	34.3	50.6	55.9	55.7	59.5

TABLE 41.
FOOD INSECURITY LEVELS BY SEX (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	MEN		WOMEN		MEN		WOMEN	
	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022
Nauru								
Nepal	10.8	13.8	10.1	12.7	29.1	38.0	30.0	36.8
Netherlands (Kingdom of the)	1.7	1.2	1.4	1.6	5.7	4.1	5.8	4.9
New Zealand	2.0	4.0	3.6	2.7	7.7	15.6	12.3	14.7
Nicaragua								
Niger		29.4		31.6		70.3		72.5
Nigeria	12.1	21.0	10.0	21.5	35.2	68.7	34.1	70.7
North Macedonia	3.4	6.4	3.7	7.3	12.9	23.2	17.4	24.8
Norway	1.0	1.7	1.3	0.7	4.6	5.4	4.9	5.0
Oman								
Pakistan	0.7	7.4	1.1	18.4	11.8	35.4	16.3	49.2
Palau								
Panama								
Papua New Guinea								
Paraguay	1.1	6.2	1.2	6.0	8.0	25.6	8.5	26.2
Peru								
Philippines		5.9		5.5		44.7		44.6
Poland	1.7	0.9	1.9	1.1	7.4	5.9	10.3	9.1
Portugal	3.8	4.2	4.4	3.5	12.3	11.7	17.1	13.2
Qatar								
Republic of Korea	<0.5	0.9	<0.5	0.6	5.4	6.6	4.2	4.6
Republic of Moldova	1.6	4.5	1.6	5.1	19.2	20.4	19.3	26.6
Romania	4.3	5.4	6.9	6.0	16.5	13.5	22.0	19.1
Russian Federation	0.6	<0.5	0.8	<0.5	7.7	4.9	8.8	5.1
Rwanda								
Saint Kitts and Nevis								
Saint Lucia	4.5	4.5	4.5	4.5	22.2	22.2	22.2	22.2
Saint Vincent and the Grenadines		10.3		10.3		33.3		33.3
Samoa		3.4		3.4		23.6		23.6
San Marino								
Sao Tome and Principe		13.8		14.4		53.0		56.2
Saudi Arabia								
Senegal	8.0	11.4	6.9	10.9	43.5	53.1	34.5	46.4
Serbia	1.9	4.0	1.6	4.3	11.1	14.6	11.7	15.1
Seychelles	3.2	3.3	3.2	3.3	14.3	14.7	14.3	14.7
Sierra Leone	26.1	32.0	27.5	31.7	74.3	89.5	77.4	89.0
Singapore	0.9	2.0	1.2	1.5	2.6	6.7	3.1	6.5
Slovakia	1.0	1.4	1.1	2.2	6.1	6.7	6.4	9.8
Slovenia	0.9	<0.5	1.0	1.4	10.1	4.8	14.6	9.2
Solomon Islands								

TABLE 41.
FOOD INSECURITY LEVELS BY SEX (PERCENT) (CONTINUED)

COUNTRY	PREVALENCE OF SEVERE FOOD INSECURITY				PREVALENCE OF MODERATE OR SEVERE FOOD INSECURITY			
	MEN		WOMEN		MEN		WOMEN	
	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022	2014–2016	2020–2022
Somalia		43.4		43.4		79.5		79.5
South Africa		8.3		9.7		19.3		21.3
South Sudan		63.2		63.2		87.3		87.3
Spain	1.1	1.7	1.1	1.8	6.6	7.1	7.5	8.8
Sri Lanka	0.7	1.2	0.6	1.2	6.5	11.5	5.3	10.3
Sudan	13.4	18.1	13.4	18.1	41.4	51.9	41.4	51.9
Suriname		6.2		8.2		31.3		40.4
Sweden	0.9	1.4	0.7	1.3	4.3	5.3	4.7	5.5
Switzerland	1.6	0.7	1.5	0.6	4.3	2.3	5.3	1.9
Syrian Arab Republic								
Tajikistan								
Thailand	<0.5	1.1	0.9	1.4	4.1	6.5	5.3	7.6
Timor-Leste								
Togo	17.8	21.1	14.5	17.7	62.2	64.7	58.6	61.0
Tonga		3.7		3.7		17.5		17.5
Trinidad and Tobago		10.0		10.4		41.9		44.8
Tunisia	8.8	13.4	9.5	11.9	18.3	28.8	18.0	28.1
Türkiye								
Turkmenistan								
Tuvalu								
Uganda	22.5	25.5	20.5	24.3	68.2	75.5	64.4	72.8
Ukraine	1.6	4.6	2.4	4.0	17.2	25.0	22.5	31.4
United Arab Emirates		1.4		1.1		11.4		8.2
United Kingdom of Great Britain and Northern Ireland	0.8	1.4	2.9	1.9	3.0	3.4	9.6	4.7
United Republic of Tanzania	18.9	26.2	22.3	26.4	46.1	58.9	51.6	58.6
United States of America	1.1	0.6	1.0	0.8	9.4	6.6	11.5	9.1
Uruguay	1.6	2.4	1.8	3.4	12.0	12.3	14.5	18.2
Uzbekistan	1.6	7.0	2.2	6.7	9.9	25.6	12.4	26.6
Vanuatu		2.4		2.4		23.3		23.3
Venezuela (Bolivarian Republic of)								
Viet Nam		1.0		1.4		7.7		10.2
Yemen	10.4	10.8	14.2	14.8	42.6	62.7	48.7	71.7
Zambia	22.4	32.3	22.4	31.8	51.2	73.4	51.2	72.8
Zimbabwe	34.9	27.0	36.1	30.2	64.0	72.2	65.4	75.0

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 42.
AVERAGE DIETARY ENERGY SUPPLY (KCAL PER CAPITA PER DAY)

COUNTRY	2010	2014	2015	2016	2017	2018	2019	2020	2021
World	2 834	2 898	2 896	2 904	2 927	2 937	2 949	2 959	2 978
Africa	2 571	2 585	2 578	2 564	2 572	2 575	2 578	2 580	2 573
Americas	3 271	3 305	3 297	3 294	3 307	3 329	3 358	3 365	3 385
Asia	2 702	2 808	2 812	2 829	2 862	2 873	2 885	2 899	2 931
Europe	3 371	3 371	3 364	3 379	3 395	3 404	3 430	3 446	3 458
Oceania	3 137	3 162	3 138	3 147	3 120	3 105	3 117	3 112	3 086
Afghanistan	2 208	2 276	2 257	2 245	2 311	2 265	2 228	2 266	2 198
Albania	3 256	3 317	3 330	3 365	3 377	3 352	3 375	3 349	3 399
Algeria	3 243	3 437	3 425	3 457	3 395	3 392	3 478	3 506	3 496
Andorra									
Angola	2 423	2 553	2 472	2 430	2 451	2 452	2 427	2 397	2 389
Antigua and Barbuda	2 328	2 403	2 410	2 396	2 435	2 475	2 455	2 428	2 408
Argentina	3 078	3 171	3 226	3 168	3 195	3 238	3 270	3 308	3 341
Armenia	3 148	3 218	3 214	3 185	3 133	3 177	3 230	3 218	3 217
Australia	3 534	3 534	3 520	3 538	3 494	3 470	3 504	3 480	3 454
Austria	3 786	3 755	3 735	3 716	3 754	3 755	3 814	3 777	3 819
Azerbaijan	2 944	2 986	3 004	3 026	3 087	3 153	3 269	3 344	3 384
Bahamas	2 575	2 559	2 545	2 550	2 567	2 597	2 552	2 561	2 573
Bahrain							3 482	3 536	3 488
Bangladesh	2 388	2 441	2 505	2 441	2 494	2 564	2 513	2 570	2 614
Barbados	3 087	3 051	3 088	3 072	3 043	3 089	3 137	3 194	3 174
Belarus	3 100	3 262	3 231	3 226	3 243	3 243	3 292	3 334	3 320
Belgium	3 728	3 807	3 817	3 781	3 792	3 801	3 849	3 859	3 892
Belize	2 765	2 676	2 719	2 711	2 761	2 801	2 865	2 864	2 849
Benin	2 601	2 656	2 636	2 642	2 642	2 633	2 687	2 725	2 767
Bhutan							3 249	3 264	3 241
Bolivia (Plurinational State of)	2 238	2 264	2 323	2 365	2 361	2 393	2 419	2 380	2 361
Bosnia and Herzegovina	3 098	3 217	3 288	3 321	3 294	3 325	3 342	3 370	3 370
Botswana	2 418	2 550	2 583	2 544	2 550	2 531	2 575	2 584	2 605
Brazil	3 258	3 299	3 243	3 223	3 237	3 275	3 281	3 252	3 299
Brunei Darussalam									
Bulgaria	2 719	2 820	2 729	2 799	2 813	2 871	2 871	2 899	2 951
Burkina Faso	2 605	2 648	2 654	2 645	2 618	2 655	2 629	2 675	2 663
Burundi	1 503	1 595	1 696	1 748	1 736	1 787	1 780	1 770	1 775
Cabo Verde	2 588	2 537	2 519	2 549	2 558	2 592	2 599	2 653	2 637
Cambodia	2 545	2 644	2 675	2 664	2 676	2 763	2 812	2 788	2 811
Cameroon	2 774	2 775	2 776	2 773	2 749	2 780	2 833	2 812	2 807
Canada	3 561	3 521	3 526	3 595	3 593	3 599	3 581	3 624	3 589
Central African Republic	1 983	1 788	1 762	1 765	1 830	1 819	1 854	1 822	1 785
Chad	2 343	2 325	2 290	2 344	2 344	2 320	2 299	2 257	2 203
Chile	2 905	2 968	2 955	2 984	2 987	3 021	3 048	3 091	3 128
China	3 047	3 200	3 234	3 221	3 255	3 272	3 298	3 314	3 396
Colombia	2 799	3 002	3 066	3 079	3 038	3 072	3 046	3 086	3 091
Comoros	2 400	2 434	2 435	2 492	2 484	2 474	2 489	2 482	2 467

TABLE 42.
AVERAGE DIETARY ENERGY SUPPLY (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	2010	2014	2015	2016	2017	2018	2019	2020	2021
Congo	1 985	2 131	2 139	2 115	2 137	2 126	2 142	2 180	2 194
Costa Rica	2 838	2 873	2 885	2 972	3 007	3 003	3 020	3 025	2 989
Côte d'Ivoire	2 627	2 641	2 719	2 740	2 772	2 792	2 845	2 886	2 919
Croatia	2 950	2 973	3 043	3 144	3 089	3 144	3 183	3 219	3 259
Cuba	3 245	3 343	3 354	3 437	3 437	3 385	3 424	3 379	3 417
Cyprus	3 006	2 933	2 989	2 964	2 972	2 980	3 043	3 035	3 043
Czechia	3 266	3 205	3 134	3 260	3 302	3 305	3 345	3 359	3 404
Democratic People's Republic of Korea	2 079	2 099	2 069	2 052	2 065	2 004	2 067	2 030	1 982
Democratic Republic of the Congo	2 231	2 232	2 192	2 146	2 188	2 169	2 159	2 092	2 096
Denmark	3 409	3 433	3 416	3 424	3 443	3 574	3 581	3 596	3 584
Djibouti	2 453	2 694	2 758	2 738	2 755	2 788	2 794	2 802	2 814
Dominica	2 985	3 013	3 033	2 987	2 956	2 930	2 982	2 954	2 983
Dominican Republic	2 603	2 822	2 803	2 897	2 938	2 999	3 050	3 100	3 107
Ecuador	2 609	2 612	2 613	2 545	2 557	2 545	2 506	2 538	2 582
Egypt	3 291	3 186	3 188	3 137	3 149	3 118	3 138	3 154	3 127
El Salvador	2 608	2 624	2 629	2 676	2 727	2 760	2 822	2 773	2 791
Equatorial Guinea									
Eritrea									
Estonia	3 235	3 177	3 134	3 107	3 104	3 200	3 253	3 247	3 289
Eswatini	2 169	2 426	2 406	2 405	2 432	2 497	2 487	2 536	2 549
Ethiopia	2 213	2 374	2 444	2 458	2 483	2 450	2 411	2 457	2 470
Fiji	2 693	2 761	2 736	2 681	2 724	2 781	2 823	2 861	2 876
Finland	3 164	3 238	3 235	3 265	3 265	3 314	3 339	3 358	3 319
France	3 557	3 478	3 465	3 508	3 514	3 505	3 535	3 578	3 604
Gabon	2 702	2 756	2 753	2 679	2 635	2 655	2 605	2 616	2 595
Gambia	2 664	2 533	2 544	2 519	2 527	2 442	2 475	2 454	2 433
Georgia	2 809	2 867	2 948	2 862	2 862	2 978	3 057	3 045	3 054
Germany	3 596	3 556	3 591	3 576	3 568	3 607	3 635	3 642	3 634
Ghana	2 924	2 854	2 792	2 770	2 863	2 946	3 010	3 042	3 079
Greece	3 531	3 445	3 407	3 353	3 391	3 393	3 421	3 378	3 350
Grenada	2 364	2 368	2 406	2 480	2 470	2 532	2 498	2 540	2 609
Guatemala	2 474	2 483	2 522	2 561	2 605	2 587	2 636	2 712	2 757
Guinea	2 453	2 660	2 642	2 663	2 697	2 755	2 813	2 859	2 902
Guinea-Bissau	2 266	2 147	2 122	2 133	2 251	2 152	2 181	2 162	2 167
Guyana	2 610	2 827	3 017	3 025	3 079	3 131	3 107	3 151	3 194
Haiti	2 150	2 212	2 214	2 165	2 173	2 128	2 112	2 097	2 076
Honduras	2 574	2 542	2 563	2 602	2 603	2 626	2 633	2 618	2 667
Hungary	3 041	3 067	3 172	3 197	3 232	3 291	3 309	3 368	3 421
Iceland	3 282	3 369	3 442	3 549	3 607	3 620	3 657	3 634	3 612
India	2 362	2 458	2 431	2 482	2 523	2 535	2 537	2 550	2 569
Indonesia	2 599	2 817	2 794	2 889	2 962	2 920	2 913	2 924	2 916
Iran (Islamic Republic of)	2 944	2 991	2 943	2 944	2 877	2 845	2 918	2 919	2 895
Iraq	2 596	2 578	2 569	2 587	2 605	2 636	2 661	2 676	2 687

TABLE 42.
AVERAGE DIETARY ENERGY SUPPLY (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	2010	2014	2015	2016	2017	2018	2019	2020	2021
Ireland	3 584	3 700	3 773	3 819	3 906	3 936	3 908	3 888	3 861
Israel	3 608	3 643	3 576	3 562	3 602	3 615	3 644	3 684	3 701
Italy	3 675	3 533	3 539	3 541	3 552	3 549	3 648	3 688	3 733
Jamaica	2 762	2 801	2 831	2 780	2 858	2 889	2 916	2 840	2 882
Japan	2 655	2 701	2 684	2 682	2 701	2 672	2 732	2 674	2 659
Jordan	2 845	2 830	2 807	2 766	2 724	2 582	2 516	2 330	2 151
Kazakhstan	3 122	3 171	3 155	3 165	3 252	3 350	3 371	3 383	3 366
Kenya	2 182	2 241	2 247	2 186	2 204	2 238	2 301	2 262	2 218
Kiribati	2 959	3 077	3 113	3 097	3 067	3 092	3 125	3 083	3 097
Kuwait	3 548	3 463	3 475	3 417	3 445	3 432	3 470	3 482	3 496
Kyrgyzstan	2 675	2 718	2 723	2 679	2 729	2 766	2 763	2 733	2 695
Lao People's Democratic Republic	2 351	2 601	2 678	2 674	2 724	2 739	2 725	2 728	2 718
Latvia	3 143	3 205	3 189	3 199	3 207	3 248	3 266	3 242	3 280
Lebanon	3 090	2 966	2 924	2 929	2 926	2 924	2 889	2 897	2 893
Lesotho	2 498	2 195	2 072	2 086	2 162	2 185	1 987	1 801	2 035
Liberia	2 133	2 131	2 119	2 156	2 178	2 143	2 130	2 108	2 097
Libya	3 088	3 101	3 131	3 129	3 128	3 145	3 180	3 139	3 178
Lithuania	3 187	3 331	3 315	3 321	3 323	3 278	3 296	3 335	3 355
Luxembourg	3 469	3 416	3 380	3 366	3 379	3 407	3 513	3 477	3 471
Madagascar	2 137	2 092	2 059	2 048	2 028	2 021	1 995	1 982	1 979
Malawi	2 575	2 580	2 625	2 596	2 606	2 613	2 597	2 642	2 633
Malaysia	2 827	2 842	2 892	2 888	2 928	2 940	2 949	2 998	2 962
Maldives	2 595	2 671	2 702	2 722	2 614	2 566	2 576	2 545	2 588
Mali	2 751	2 731	2 731	2 747	2 762	2 751	2 790	2 810	2 734
Malta	3 471	3 386	3 410	3 369	3 436	3 396	3 326	3 309	3 334
Marshall Islands									
Mauritania	2 831	2 918	2 907	2 887	2 906	2 941	2 951	2 962	2 971
Mauritius	3 028	2 969	2 969	2 951	2 981	2 988	3 026	3 065	3 063
Mexico	3 177	3 185	3 196	3 219	3 225	3 232	3 270	3 271	3 278
Micronesia (Federated States of)							2 761	2 750	2 754
Mongolia	2 439	2 606	2 701	2 732	2 660	2 853	2 857	2 948	3 052
Montenegro	3 368	3 304	3 363	3 420	3 451	3 460	3 463	3 482	3 556
Morocco	3 267	3 384	3 374	3 406	3 360	3 412	3 386	3 351	3 382
Mozambique	2 357	2 021	1 902	1 811	1 923	2 055	2 082	2 142	2 170
Myanmar	2 669	2 728	2 754	2 772	2 786	2 777	2 774	2 823	2 818
Namibia	2 217	2 396	2 456	2 484	2 507	2 523	2 575	2 574	2 564
Nauru							2 992	3 026	3 034
Nepal	2 530	2 678	2 711	2 804	2 829	2 812	2 845	2 900	2 945
Netherlands (Kingdom of the)	3 223	3 244	3 274	3 257	3 273	3 318	3 468	3 475	3 464
New Zealand	3 143	3 236	3 207	3 182	3 167	3 190	3 130	3 149	3 128
Nicaragua	2 488	2 493	2 497	2 573	2 600	2 576	2 609	2 625	2 654
Niger	2 541	2 501	2 562	2 591	2 565	2 641	2 596	2 644	2 538

TABLE 42.
AVERAGE DIETARY ENERGY SUPPLY (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	2010	2014	2015	2016	2017	2018	2019	2020	2021
Nigeria	2 572	2 576	2 568	2 558	2 556	2 532	2 540	2 509	2 503
North Macedonia	2 976	2 928	2 980	2 998	2 985	3 031	3 082	3 126	3 164
Norway	3 567	3 517	3 457	3 416	3 416	3 486	3 532	3 532	3 509
Oman	3 176	3 056	3 050	2 987	3 060	3 075	3 084	3 085	3 046
Pakistan	2 373	2 431	2 420	2 462	2 486	2 483	2 449	2 484	2 485
Palau									
Panama	2 689	2 793	2 802	2 838	2 879	3 043	3 054	3 015	3 036
Papua New Guinea	2 124	2 229	2 188	2 204	2 213	2 194	2 195	2 234	2 204
Paraguay	3 064	3 125	3 086	3 060	3 094	3 104	3 096	3 108	3 125
Peru	2 580	2 716	2 741	2 734	2 743	2 767	2 804	2 823	2 797
Philippines	2 454	2 522	2 566	2 638	2 670	2 755	2 816	2 796	2 833
Poland	3 370	3 345	3 305	3 381	3 428	3 464	3 477	3 524	3 554
Portugal	3 511	3 402	3 464	3 405	3 434	3 467	3 485	3 506	3 526
Qatar							3 481	3 507	3 496
Republic of Korea	3 327	3 327	3 325	3 325	3 377	3 387	3 382	3 378	3 398
Republic of Moldova	2 660	2 761	2 812	2 874	2 943	3 017	3 015	2 966	3 027
Romania	3 374	3 472	3 531	3 577	3 595	3 620	3 646	3 637	3 665
Russian Federation	3 297	3 358	3 311	3 325	3 353	3 353	3 347	3 369	3 382
Rwanda	2 122	2 143	2 164	2 193	2 232	2 198	2 198	2 221	2 268
Saint Kitts and Nevis	2 624	2 678	2 746	2 833	2 912	2 871	2 831	2 882	2 868
Saint Lucia	2 594	2 609	2 602	2 619	2 652	2 651	2 669	2 645	2 649
Saint Vincent and the Grenadines	2 926	2 994	3 030	2 989	2 994	2 989	2 961	2 929	2 951
Samoa	2 875	2 979	2 964	3 006	2 985	3 037	3 053	3 049	3 070
San Marino									
Sao Tome and Principe	2 341	2 322	2 304	2 351	2 351	2 352	2 375	2 416	2 463
Saudi Arabia	2 908	3 149	3 202	3 237	3 219	3 215	3 220	3 252	3 250
Senegal	2 476	2 475	2 507	2 571	2 613	2 646	2 705	2 787	2 793
Serbia	3 219	3 290	3 335	3 322	3 335	3 387	3 463	3 519	3 579
Seychelles	2 913	2 923	2 973	3 035	3 084	3 102	3 132	3 182	3 187
Sierra Leone	2 376	2 318	2 401	2 311	2 345	2 349	2 296	2 313	2 336
Singapore									
Slovakia	2 818	2 828	2 733	2 853	2 880	2 903	3 025	3 011	2 974
Slovenia	3 221	3 237	3 197	3 183	3 204	3 194	3 148	3 128	3 096
Solomon Islands	2 431	2 360	2 390	2 395	2 416	2 413	2 401	2 352	2 346
Somalia									
South Africa	2 865	2 845	2 808	2 820	2 847	2 846	2 827	2 817	2 776
South Sudan							2 341	2 376	2 414
Spain	3 200	3 193	3 220	3 299	3 319	3 369	3 372	3 377	3 390
Sri Lanka	2 489	2 594	2 689	2 755	2 755	2 772	2 764	2 846	2 860
Sudan		2 657	2 637	2 608	2 558	2 585	2 573	2 621	2 622
Suriname	2 686	2 705	2 655	2 639	2 637	2 661	2 694	2 674	2 634
Sweden	3 205	3 241	3 214	3 215	3 203	3 173	3 241	3 265	3 268
Switzerland	3 426	3 410	3 386	3 350	3 371	3 389	3 409	3 452	3 402
Syrian Arab Republic	3 109	2 873	2 830	2 716	2 657	2 558	2 518	2 456	2 463

TABLE 42.
AVERAGE DIETARY ENERGY SUPPLY (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	2010	2014	2015	2016	2017	2018	2019	2020	2021
Tajikistan	2 264	2 386	2 454	2 521	2 599	2 679	2 766	2 760	2 770
Thailand	2 755	2 771	2 785	2 773	2 762	2 787	2 809	2 857	2 856
Timor-Leste	2 184	2 281	2 233	2 227	2 258	2 205	2 234	2 219	2 195
Togo	2 414	2 427	2 350	2 400	2 377	2 364	2 436	2 497	2 533
Tonga									
Trinidad and Tobago	2 912	2 983	2 982	2 964	2 980	2 965	2 953	2 953	2 938
Tunisia	3 258	3 322	3 341	3 333	3 347	3 394	3 441	3 468	3 471
Türkiye	3 651	3 663	3 716	3 681	3 744	3 788	3 802	3 830	3 825
Turkmenistan	2 833	2 921	2 920	2 896	2 902	2 884	2 852	2 867	2 847
Tuvalu									
Uganda	2 344	2 236	2 155	2 026	2 051	2 137	2 125	2 159	2 123
Ukraine	3 149	3 142	3 077	3 065	3 035	2 989	2 943	2 926	2 938
United Arab Emirates	2 993	3 176	3 190	3 173	3 218	3 228	3 305	3 300	3 306
United Kingdom of Great Britain and Northern Ireland	3 320	3 356	3 374	3 359	3 387	3 344	3 379	3 374	3 362
United Republic of Tanzania	2 229	2 355	2 355	2 367	2 354	2 336	2 359	2 373	2 380
United States of America	3 729	3 742	3 754	3 777	3 791	3 824	3 876	3 892	3 911
Uruguay	3 107	3 178	3 145	3 167	3 189	3 240	3 278	3 261	3 283
Uzbekistan	2 915	3 203	3 226	3 245	3 184	3 211	3 235	3 246	3 267
Vanuatu	2 850	2 827	2 808	2 807	2 844	2 833	2 799	2 802	2 819
Venezuela (Bolivarian Republic of)	2 926	2 882	2 620	2 233	2 292	2 194	2 238	2 300	2 310
Viet Nam	2 730	2 849	2 838	2 875	2 897	2 924	2 962	3 005	3 048
Yemen	2 246	2 184	2 034	1 930	1 996	1 994	2 030	2 131	2 173
Zambia	1 950	2 100	2 125	2 186	2 233	2 262	2 243	2 223	2 220
Zimbabwe	2 243	2 150	2 113	2 119	2 046	2 066	2 025	2 014	2 049

Source: FAO. 2023. Food Balances (2010-). In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FBS

TABLE 43.
CEREAL IMPORT DEPENDENCY RATIO (PERCENT)

COUNTRY	2000–2002	2004–2006	2009–2011	2013–2015	2014–2016	2015–2017	2016–2018	2017–2019	2018–2020
World	-0.5	-0.6	0.0	-1.7	-1.9	-1.9	-1.9	-1.3	-1.7
Africa	28.2	26.4	28.5	30.2	32.2	31.8	31.0	30.0	30.6
Asia	7.9	8.3	9.4	6.7	7.6	8.0	8.2	8.3	8.5
Latin America and the Caribbean	12.1	10.0	2.5	-5.6	-6.4	-8.2	-6.0	-7.2	-7.6
Northern America and Europe	-18.5	-19.0	-22.0	-22.9	-26.3	-27.3	-28.8	-27.4	-30.7
Oceania	-166.4	-143.8	-139.8	-178.9	-158.5	-139.3	-131.5	-94.0	-99.4
Afghanistan	34.1	19.2	29.1	23.2	27.0	34.2	41.3	40.9	38.1
Albania	47.0	50.9	40.3	38.3	38.2	37.6	37.3	38.3	38.5
Algeria	79.7	70.5	70.0	72.9	76.6	77.4	74.3	72.5	73.8
Andorra									
Angola	57.1	61.8	52.1	48.6	46.4	43.6	41.8	41.8	42.9
Antigua and Barbuda	94.5	100.0	90.1	94.9	100.0	100.0	98.8	94.7	97.5
Argentina	-172.3	-172.4	-163.5	-91.4	-140.5	-152.3	-167.5	-133.4	-139.0
Armenia	61.7	55.2	55.9	39.8	38.5	47.9	55.0	73.0	73.5
Australia	-194.9	-164.9	-161.4	-234.3	-209.7	-189.9	-181.2	-134.9	-132.6
Austria	-6.4	-4.6	6.1	13.9	12.6	14.5	14.9	17.1	17.8
Azerbaijan	29.0	38.2	40.2	38.4	37.9	35.5	32.9	31.9	31.5
Bahamas	100.0	96.7	98.9	95.6	95.5	97.5	98.3	100.0	99.0
Bahrain									
Bangladesh	9.3	9.8	9.1	7.9	9.5	12.0	12.9	12.3	11.2
Barbados	100.0	100.0	96.5	100.0	100.0	100.0	100.0	100.0	100.0
Belarus	20.0	10.9	1.7	1.5	-0.9	-0.5	3.2	9.3	9.4
Belgium	56.5	46.4	56.6	60.5	63.1	65.2	68.2	65.5	65.1
Belize	34.6	32.5	17.3	15.0	18.4	17.5	16.7	18.3	21.4
Benin	13.0	31.9	30.6	46.2	51.7	51.8	49.3	46.3	42.2
Bhutan									
Bolivia (Plurinational State of)	28.9	20.8	18.4	13.0	15.7	18.1	20.0	18.9	17.1
Bosnia and Herzegovina	36.3	35.1	35.1	36.7	34.9	34.9	30.7	30.7	25.0
Botswana	90.9	69.8	76.3	76.6	78.6	86.4	89.3	91.2	81.6
Brazil	13.1	5.7	-3.0	-22.8	-20.7	-22.5	-17.5	-26.1	-28.3
Brunei Darussalam	100.0	98.1							
Bulgaria	-22.1	-34.3	-80.4	-174.5	-192.2	-189.5	-195.2	-160.5	-268.8
Burkina Faso	9.0	7.4	7.8	8.4	9.0	10.4	10.9	9.1	6.4
Burundi					22.5	23.9	25.6	26.0	22.9
Cabo Verde	77.2	78.0	100.0	99.2	100.0	98.0	98.6	100.0	100.0
Cambodia	3.9	1.8	-1.9	-5.1	-6.1	-7.0	-7.0	-6.7	-7.1
Cameroon	31.2	30.9	27.6	31.0	29.1	29.4	28.9	31.0	31.4
Canada	-55.9	-62.2	-82.8	-97.3	-101.4	-84.0	-79.6	-84.7	-85.6
Central African Republic	19.4	18.6	20.9			24.9			
Chad	5.0	6.5	9.6			5.5	4.6	4.0	3.8
Chile	35.1	31.6	36.4	39.3	40.3	41.4	42.9	48.1	53.9
China	-0.7	1.6	1.9	4.2	4.5	4.7	4.2	3.8	4.3
Colombia	54.5	55.4	61.0	63.7	63.1	61.7	61.2	62.8	63.6

TABLE 43.
CEREAL IMPORT DEPENDENCY RATIO (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2013–2015	2014–2016	2015–2017	2016–2018	2017–2019	2018–2020
Comoros							73.2		
Congo	100.0	89.5	91.0	98.6	87.8	87.2	92.2	93.3	96.2
Costa Rica	80.6	85.5	78.3	83.4	85.5	85.7	85.8	87.5	89.5
Côte d'Ivoire	48.5	51.7	68.3	40.1	39.6	39.5	41.4	42.3	45.0
Croatia	-4.7	3.0	-12.9	-15.4	-18.7	-26.0	-26.9	-31.1	-44.8
Cuba	71.9	73.3	72.4	70.6	73.0				77.7
Cyprus	100.0	100.0	94.9	92.7	98.9	96.1	99.6	98.1	98.4
Czechia	-10.1	-26.2	-40.6	-50.3	-62.1	-78.4	-71.2	-55.1	-42.0
Democratic People's Republic of Korea	45.8	27.2	12.2	17.0	18.2	18.8	19.0	17.9	17.8
Democratic Republic of the Congo				18.7	17.6	17.8	17.8	19.7	19.8
Denmark	-14.3	-2.2	-16.3	-14.3	-16.7	-17.5	-13.0	-9.3	-8.4
Djibouti	100.0	100.0	100.0	98.8	99.5	100.0	100.0	98.8	98.8
Dominica	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dominican Republic	77.9	77.6	67.1	67.1	66.3	66.1	66.1	65.8	65.8
Ecuador	30.5	33.7	32.5	23.2	25.6	30.2	34.2	36.0	34.7
Egypt	34.8	30.3	42.6	41.9	43.3	44.2	47.8	47.0	47.4
El Salvador	46.6	45.6	41.9	41.1	44.5	46.2	47.8	51.4	53.5
Equatorial Guinea									
Eritrea									
Estonia	25.0	4.6	-20.3	-60.7	-306.9	-341.8	-343.3	-129.7	-138.4
Eswatini	59.6	68.0	68.2	57.9	67.4	71.5	69.2	61.2	61.2
Ethiopia	10.2	6.1	10.8	6.0	8.2	8.3	8.3	7.1	6.6
Fiji	100.0	89.2	100.0	100.0	100.0	100.0	100.0	100.0	89.2
Finland	-11.8	-11.5	-33.2	-21.9	-26.1	-23.5	-16.9	-11.8	-12.9
France	-82.9	-81.0	-102.7	-87.3	-123.4	-115.0	-116.7	-69.5	-104.4
Gabon	94.1	78.2	86.6	86.5	88.5	89.1	90.7	92.4	91.2
Gambia	40.2	39.4	45.5	50.9	55.9	59.5	65.3	73.2	71.7
Georgia	59.4	76.6	69.1	61.0	61.4	64.7	65.4	67.1	63.2
Germany	-24.2	-14.6	-9.0	-11.5	-12.1	-12.1	-6.7	-1.0	-0.3
Ghana	26.1	38.6	26.4	31.0	32.0	34.5	34.7	36.3	36.2
Greece	20.2	23.0	15.3	18.5	20.3	25.3	28.7	33.1	32.4
Grenada	88.2	86.4	97.0	100.0	93.4	96.8	100.0	100.0	100.0
Guatemala	44.0	50.2	42.5	43.8	45.7	46.9	47.8	51.5	52.9
Guinea	21.4	14.9	15.1	23.8	26.7	26.3	27.8	26.4	25.5
Guinea-Bissau	41.7	39.6	28.5						
Guyana	-59.4	-64.8	-28.3	-635.4	-654.9	-51.1	-46.3	-51.2	16.1
Haiti	58.0	65.2	54.4	56.1	61.3	65.2	71.8	76.6	82.5
Honduras	45.7	57.3	57.6	58.2	58.9	58.1	57.6	59.4	60.2
Hungary	-35.8	-42.4	-92.8	-63.7	-64.3	-100.3	-82.1	-86.0	-90.5
Iceland				97.6	94.1	91.3	88.9	85.9	83.4
India	-3.2	-2.3	-3.1	-9.6	-7.3	-5.6	-5.3	-5.2	-6.4
Indonesia	12.8	11.7	11.3	13.1	14.2	13.6	13.7	13.7	14.0
Iran (Islamic Republic of)	37.4	18.1	34.7	39.9	36.9	36.1	36.8	39.3	36.3

TABLE 43.
CEREAL IMPORT DEPENDENCY RATIO (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2013–2015	2014–2016	2015–2017	2016–2018	2017–2019	2018–2020
Iraq	75.2	58.1	56.0				61.8	57.7	50.0
Ireland	20.3	25.4	32.0	33.6	34.7	37.5	47.1	50.7	54.2
Israel	92.5	93.5	93.6	92.7	92.2	93.6	94.2	97.5	95.9
Italy	19.6	21.6	25.2	29.7	30.8	32.8	35.5	38.0	38.1
Jamaica	100.0	100.0	100.0	100.0	100.0	99.0	99.4	99.3	99.6
Japan	77.0	78.2	71.7	69.4	68.9	69.5	70.5	69.2	68.9
Jordan	94.2	96.6	93.3	99.3	95.1	97.4	99.9	100.0	100.0
Kazakhstan	-56.0	-43.7	100.0	-55.6	-49.2	-47.4	-71.4	-88.4	-87.2
Kenya	23.9	21.5	38.9	37.0	42.7	46.2	46.1	44.8	41.1
Kiribati									
Kuwait	100.0	100.0	97.5	97.9	98.0	100.0	98.7	96.8	96.2
Kyrgyzstan	9.0	14.9	24.1	25.4	21.2	17.7	16.2	18.7	18.5
Lao People's Democratic Republic	2.5	-0.5	-4.1	-3.1	-2.2	-3.0	-3.1	-3.3	-2.9
Latvia	1.7	-17.6	-103.1	-138.1	-192.6	-197.3	-167.4	-191.9	-252.5
Lebanon	88.1	82.6	94.4	92.0	96.3	99.0	97.4	94.7	92.7
Lesotho	47.8	41.3	76.1	76.4	82.5	75.0	73.9	95.2	100.0
Liberia	65.3	86.1	55.4	51.2	48.4	51.4	55.6	61.4	60.7
Libya				90.4	90.1	88.9	86.7	89.1	90.6
Lithuania	-4.8	-32.3	-89.5	-115.6	-181.8	-217.3	-223.4	-184.3	-194.2
Luxembourg	6.1	-2.9	13.7	16.8	12.3	12.1	11.7	9.7	7.3
Madagascar	11.3	11.6	7.3	14.4	13.8	17.0	19.8	21.1	19.6
Malawi	10.1	6.9	1.7	6.7	11.3	11.8	10.2	5.1	4.4
Malaysia	80.2	86.3	70.3	74.6	73.9	70.6	71.7	73.6	73.7
Maldives	100.0	100.0	100.0						
Mali	8.6	9.6	4.8	4.8	5.0	5.7	5.4	5.1	4.3
Malta	100.0	82.4	89.8	85.1	87.1	84.8	86.6	88.8	95.9
Marshall Islands									
Mauritania	64.7	64.4	79.3	56.4	58.2				58.6
Mauritius	99.4	96.2	100.0	100.0	100.0	93.7	95.2	89.5	95.3
Mexico	35.4	35.8	30.8	29.6	29.8	31.4	33.1	37.0	39.1
Micronesia (Federated States of)									
Mongolia	69.1	68.0	35.2	31.4	34.7	44.1	35.1	32.4	28.2
Montenegro			93.8	91.8	93.5	92.3	90.2	87.9	87.7
Morocco	52.1	39.1	36.8	36.4	59.6	54.0	56.8	47.9	65.7
Mozambique	28.1	42.2	29.8	54.3	53.0	55.8	48.2	47.4	45.9
Myanmar	-5.4	-1.5	-0.9	-6.5	-5.7	-5.5	-5.0	-10.4	-12.5
Namibia	56.2	58.1	72.1	69.2	70.0	69.8	69.3	70.5	69.2
Nauru									
Nepal	1.6	1.9	4.0	11.6	13.5	14.2	14.7	13.6	14.2
Netherlands (Kingdom of the)	72.1	77.2	82.6	82.9	83.9	84.3	85.6	85.6	85.9
New Zealand	31.1	38.2	27.7	39.8	40.2	41.6	43.3	46.2	44.8
Nicaragua	27.4	29.2	30.2	45.8	38.8	39.2	38.7	39.1	40.6
Niger	9.4	9.9	7.3	11.9	9.2	6.4	5.4	9.1	13.7

TABLE 43.
CEREAL IMPORT DEPENDENCY RATIO (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2013–2015	2014–2016	2015–2017	2016–2018	2017–2019	2018–2020
Nigeria	15.2	16.1	21.8	22.9	18.2	17.4	16.2	17.1	17.6
North Macedonia	28.1	22.2	24.9	26.0	25.9	30.2	26.6	27.7	24.4
Norway	28.8	27.9	38.9	41.6	36.3	33.0	42.0	43.8	44.6
Oman	100.0	90.2	87.2	96.3	93.3	93.0	93.5	87.8	82.2
Pakistan	-9.2	-9.4	-18.9	-18.3	-18.0	-17.3	-18.1	-21.4	-20.2
Palau									
Panama	63.6	64.4	64.7	67.7	70.0	71.1	68.8	66.5	64.5
Papua New Guinea				100.0	80.7	77.8	90.6	97.9	100.0
Paraguay	-18.2	-125.2	-134.2	-231.6	-216.9	-116.1	-63.4	-72.4	-74.6
Peru	44.7	48.0	46.0	46.7	49.2	51.3	52.7	54.1	54.2
Philippines	25.5	21.7	20.7	16.8	19.5	21.3	23.9	26.9	28.5
Poland	4.8	0.2	-2.3	-16.3	-19.3	-18.1	-15.0	-12.7	-18.1
Portugal	67.7	77.0	77.0	71.5	71.3	72.1	74.3	75.2	74.8
Qatar									
Republic of Korea	73.4	74.6	72.2	72.1	72.3	72.1	73.1	73.9	76.0
Republic of Moldova	-9.6	-10.2	-13.8	-35.6	-43.9	-44.2	-47.4	-50.6	-57.1
Romania	0.6	-0.8	-22.9	-68.1	-68.5	-59.1	-44.1	-41.3	-51.4
Russian Federation	-3.5	-10.2	-28.7	-34.5	-39.2	-42.3	-68.1	-72.6	-73.5
Rwanda	20.1	21.5	26.7	24.1	30.4	35.2	36.8	35.6	34.0
Saint Kitts and Nevis									
Saint Lucia	100.0	100.0	100.0	96.3	96.4	98.8	100.0	100.0	100.0
Saint Vincent and the Grenadines	100.0	82.9	100.0	91.4	96.9	100.0	100.0	97.3	89.6
Samoa				100.0				98.6	
San Marino									
Sao Tome and Principe				88.2	84.9				
Saudi Arabia	73.1	74.5	85.7	88.5	88.0	89.0	95.2	94.2	93.7
Senegal	53.1	54.7	51.7	56.6	54.0	47.8	46.5	44.7	43.3
Serbia			-32.8	-43.3	-45.2	-54.7	-45.9	-51.8	-52.6
Seychelles						100.0	98.5	97.0	95.5
Sierra Leone	36.3	21.8	18.9	31.3	35.7	40.5	39.5	40.3	38.8
Singapore									
Slovakia	-4.3	-34.2	-29.3	-57.5	-67.1	-107.9	-85.5	-74.7	-49.8
Slovenia	41.0	46.9	35.3	34.6	28.7	28.5	29.3	28.1	21.6
Solomon Islands	85.8	96.1	99.7						
Somalia									
South Africa	6.7	10.2	4.6	5.3	16.9	17.9	15.2	9.0	7.8
South Sudan									
Spain	26.6	36.3	33.7	32.5	34.8	38.6	38.1	41.9	36.4
Sri Lanka	36.7	37.2	21.3	22.4	23.0	29.6	32.0	32.4	20.9
Sudan				28.9	27.2	29.3	22.8	25.9	33.5
Suriname	8.1	21.6	-7.3	-16.6	-17.2	-11.5	-17.5	-20.1	-27.0
Sweden	-24.2	-22.8	-15.7	-23.8	-33.1	-30.8	-24.6	-14.1	-18.6
Switzerland	38.6	40.8	50.6	53.8	56.0	56.4	56.4	53.8	52.7
Syrian Arab Republic				36.5	35.0	28.8	43.0	37.3	29.2

TABLE 43.
CEREAL IMPORT DEPENDENCY RATIO (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2013–2015	2014–2016	2015–2017	2016–2018	2017–2019	2018–2020
Tajikistan	35.9	44.2	43.3	43.8	45.5	45.4	47.7	48.4	50.4
Thailand	-39.9	-46.0	-44.6	-56.7	-63.1	-58.0	-62.2	-59.4	-36.5
Timor-Leste	33.2	24.9	13.1	23.0	25.3	28.6	37.2	41.8	
Togo	14.1	18.3	14.3	16.6	17.4	18.7	19.5	19.8	21.2
Tonga									
Trinidad and Tobago	94.6	97.1	98.8	95.8	100.0	100.0	100.0	100.0	100.0
Tunisia	70.1	55.8	55.2	67.5	66.8	71.5	70.1	63.4	65.4
Türkiye	1.1	-4.8	0.7	4.9	2.1		0.8	8.0	11.3
Turkmenistan				9.4	8.0	6.7	12.3	15.2	15.1
Tuvalu									
Uganda	5.9	15.8	8.1	5.1	5.1	5.1	5.4	8.4	8.9
Ukraine	-23.5	-38.0	-65.5	-116.4	-156.3	-206.4	-201.2	-242.8	-334.7
United Arab Emirates	100.0	100.0	93.8	97.6	94.3	92.9	97.9	100.0	100.0
United Kingdom of Great Britain and Northern Ireland	-2.8	-1.6	-3.3	9.8	2.7	3.8	8.5	12.1	15.1
United Republic of Tanzania	9.4	12.6	11.2	6.3	6.0	6.6	3.6	3.3	2.6
United States of America	-31.6	-30.6	-24.7	-17.6	-19.8	-20.8	-22.8	-23.0	-23.2
Uruguay	-81.3	-94.0	-376.8	-262.7	-123.8	-105.1	-109.9	-95.6	-113.1
Uzbekistan	13.2	5.8	17.7	19.1	19.8	20.2	25.0	26.4	29.1
Vanuatu	96.4	97.1	93.0	95.9	94.3	88.7	86.4	100.0	100.0
Venezuela (Bolivarian Republic of)	49.6	37.7	52.1	56.9	60.7	65.9	62.4	65.8	61.2
Viet Nam	-12.0	-13.1	-17.1	-6.9	1.5	5.2	8.4	8.6	10.3
Yemen	80.5	84.4	86.5	84.6	88.8	94.3	96.3	94.0	92.8
Zambia	9.0	9.0	-6.7	-19.2	-23.7	-23.9	-9.7	-1.9	-0.1
Zimbabwe	11.7	28.7	49.6	45.6	53.0	48.0	35.3	56.9	60.3

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 44.
DIETARY ENERGY SUPPLY BY COMMODITY GROUP, 2021 (KCAL PER CAPITA PER DAY)

COUNTRY	CEREALS	FATS AND OILS	SUGAR	FRUIT AND VEGETABLES	ROOTS, TUBERS AND PULSES	MEAT	DAIRY AND EGGS (EXCL BUTTER)	BEVERAGES AND OTHER	FISH AND SEAFOOD
World	1 288	455	236	225	220	210	200	107	39
Africa	1 175	330	155	161	515	89	73	55	19
Americas	962	673	460	200	177	407	326	157	23
Asia	1 447	405	187	252	155	177	172	87	48
Europe	980	682	371	207	152	352	428	247	40
Oceania	694	604	355	226	249	393	263	265	39
Afghanistan	1 512	234	132	104	55	48	94	18	1
Albania	985	329	246	580	134	262	695	151	16
Algeria	1 616	601	295	393	170	96	276	42	8
Andorra									
Angola	705	314	132	129	877	106	16	83	26
Antigua and Barbuda	623	418	265	212	57	349	199	187	97
Argentina	981	587	382	145	166	600	326	142	11
Armenia	1 112	416	307	301	146	323	469	132	12
Australia	690	694	419	186	179	466	401	379	40
Austria	908	1 139	372	209	106	339	447	271	26
Azerbaijan	1 550	386	254	253	152	200	315	268	4
Bahamas	594	381	290	252	36	495	186	290	49
Bahrain	1 087	691	476	270	119	383	213	216	35
Bangladesh	1 889	203	83	94	175	20	55	41	52
Barbados	856	492	537	184	170	354	224	268	89
Belarus	771	572	391	206	283	431	358	287	20
Belgium	749	1 081	491	277	212	309	507	229	38
Belize	1 037	495	350	89	90	294	231	241	23
Benin	1 033	429	86	86	813	68	20	202	29
Bhutan	1 864	373	145	76	193	65	309	203	14
Bolivia (Plurinational State of)	949	166	276	160	260	346	98	100	6
Bosnia and Herzegovina	1 259	312	253	343	219	234	315	419	16
Botswana	1 081	353	251	89	144	127	286	270	5
Brazil	908	732	377	160	235	438	326	110	14
Brunei Darussalam									
Bulgaria	978	670	263	166	61	282	326	190	15
Burkina Faso	1 519	375	50	104	250	187	46	113	17
Burundi	314	67	55	161	1 101	19	12	42	5
Cabo Verde	1 294	377	188	110	169	184	176	126	15
Cambodia	1 516	224	367	41	365	77	14	110	95
Cameroon	1 171	369	115	274	646	72	30	97	33
Canada	852	1 000	432	215	208	344	306	199	31
Central African Republic	284	398	77	88	693	184	25	20	12
Chad	1 154	384	98	18	201	275	49	8	17
Chile	1 129	354	439	178	118	441	229	219	22
China	1 590	425	82	438	153	369	145	117	75
Colombia	918	452	577	268	210	292	260	95	18

TABLE 44.
DIETARY ENERGY SUPPLY BY COMMODITY GROUP, 2021 (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	CEREALS	FATS AND OILS	SUGAR	FRUIT AND VEGETABLES	ROOTS, TUBERS AND PULSES	MEAT	DAIRY AND EGGS (EXCL BUTTER)	BEVERAGES AND OTHER	FISH AND SEAFOOD
Comoros	986	410	123	201	459	137	63	51	36
Congo	486	334	98	86	838	202	14	95	41
Costa Rica	972	515	444	111	117	253	379	157	41
Côte d'Ivoire	1 119	306	110	185	950	73	19	115	40
Croatia	856	625	373	260	76	391	347	296	35
Cuba	1 228	564	509	246	326	233	139	160	12
Cyprus	1 078	489	240	168	63	312	388	266	40
Czechia	666	906	383	172	132	345	362	418	19
Democratic People's Republic of Korea	1 264	133	40	169	181	62	22	91	20
Democratic Republic of the Congo	315	160	27	114	1 437	17	1	18	8
Denmark	798	654	480	202	134	312	616	335	52
Djibouti	1 371	413	373	123	190	77	144	114	8
Dominica	504	206	431	518	396	374	226	278	52
Dominican Republic	803	502	405	629	181	230	240	101	15
Ecuador	1 100	536	255	117	66	234	194	70	11
Egypt	1 916	266	270	274	113	122	101	17	48
El Salvador	1 197	275	337	194	232	184	251	105	15
Equatorial Guinea									
Eritrea									
Estonia	594	600	332	178	142	329	675	419	19
Eswatini	1 249	282	314	101	173	143	101	178	9
Ethiopia	1 670	241	80	31	281	39	64	62	1
Fiji	870	542	421	141	436	203	94	116	53
Finland	939	424	343	172	149	387	596	253	57
France	935	706	381	208	126	409	471	316	52
Gabon	915	253	175	289	423	297	47	131	63
Gambia	1 214	411	499	23	25	66	113	33	51
Georgia	1 326	307	411	126	98	173	369	225	20
Germany	738	899	457	211	118	327	544	314	27
Ghana	877	266	171	334	1 197	96	20	71	50
Greece	788	799	363	264	115	307	453	224	36
Grenada	580	415	284	257	82	344	256	325	65
Guatemala	1 132	331	574	216	136	169	126	66	6
Guinea	1 310	411	176	196	635	87	44	21	23
Guinea-Bissau	1 324	345	33	90	161	87	44	80	2
Guyana	1 080	195	319	589	222	301	233	207	45
Haiti	1 006	199	242	177	208	108	30	96	11
Honduras	1 122	546	385	83	132	164	130	95	10
Hungary	925	866	427	186	87	359	326	236	12
Iceland	962	504	330	201	71	448	553	375	169
India	1 353	359	207	159	190	21	211	53	16
Indonesia	1 397	589	272	159	214	79	82	29	95
Iran (Islamic Republic of)	1 454	420	306	287	78	136	99	90	25

TABLE 44.
DIETARY ENERGY SUPPLY BY COMMODITY GROUP, 2021 (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	CEREALS	FATS AND OILS	SUGAR	FRUIT AND VEGETABLES	ROOTS, TUBERS AND PULSES	MEAT	DAIRY AND EGGS (EXCL BUTTER)	BEVERAGES AND OTHER	FISH AND SEAFOOD
Iraq	1 550	425	207	180	106	73	69	68	7
Ireland	845	609	455	177	164	415	733	425	36
Israel	994	727	475	322	98	456	377	212	40
Italy	1 090	886	347	224	150	331	444	211	52
Jamaica	898	391	448	238	268	255	174	157	54
Japan	968	538	270	130	66	245	193	154	95
Jordan	710	510	329	139	101	157	126	72	9
Kazakhstan	844	589	287	266	230	370	562	212	8
Kenya	1 026	259	261	150	262	54	175	25	5
Kiribati	913	985	455	152	38	244	80	78	150
Kuwait	1 337	504	286	370	136	359	291	186	28
Kyrgyzstan	1 015	195	196	192	291	213	440	151	2
Lao People's Democratic Republic	1 553	166	171	345	134	171	21	103	55
Latvia	794	731	375	152	115	338	406	308	61
Lebanon	1 047	566	428	226	155	159	174	120	17
Lesotho	1 275	146	124	40	115	112	153	63	7
Liberia	1 085	232	87	89	410	110	17	56	8
Libya	1 206	592	296	304	78	220	267	171	45
Lithuania	1 029	387	385	154	112	424	539	267	60
Luxembourg	930	388	283	204	84	463	479	592	47
Madagascar	1 241	84	171	66	334	27	37	14	7
Malawi	1 371	139	59	278	562	156	25	26	19
Malaysia	1 096	645	440	121	70	269	147	80	94
Maldives	1 034	211	255	187	79	113	264	285	158
Mali	1 921	163	83	197	173	37	89	60	12
Malta	1 071	574	450	204	74	289	377	234	61
Marshall Islands									
Mauritania	1 600	278	446	90	110	162	241	28	16
Mauritius	1 247	576	382	116	127	232	171	155	56
Mexico	1 331	426	412	195	123	362	270	132	27
Micronesia (Federated States of)	771	785	250	71	320	322	54	84	96
Mongolia	1 084	360	184	84	95	639	375	230	3
Montenegro	1 188	309	302	225	92	472	642	298	29
Morocco	1 927	363	324	244	129	152	114	93	37
Mozambique	1 018	241	117	67	603	52	8	38	25
Myanmar	1 746	352	195	144	135	97	33	28	88
Namibia	961	295	330	66	357	181	125	227	22
Nauru	612	626	450	127	163	575	226	167	88
Nepal	1 659	359	127	187	312	69	123	102	7
Netherlands (Kingdom of the)	778	633	423	292	139	340	643	183	34
New Zealand	878	634	536	171	136	373	153	207	40
Nicaragua	1 318	241	358	94	189	134	225	86	11
Niger	1 303	349	58	142	551	40	79	13	4

TABLE 44.
DIETARY ENERGY SUPPLY BY COMMODITY GROUP, 2021 (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	CEREALS	FATS AND OILS	SUGAR	FRUIT AND VEGETABLES	ROOTS, TUBERS AND PULSES	MEAT	DAIRY AND EGGS (EXCL BUTTER)	BEVERAGES AND OTHER	FISH AND SEAFOOD
Nigeria	1 014	420	100	127	733	37	21	37	15
North Macedonia	969	563	392	352	159	214	260	243	13
Norway	974	575	330	193	246	362	379	366	85
Oman	824	418	240	652	132	218	396	117	50
Pakistan	1 139	444	289	81	91	82	341	15	3
Palau									
Panama	1 212	491	257	232	94	345	196	178	32
Papua New Guinea	559	376	115	387	439	256	10	35	28
Paraguay	1 209	478	132	132	625	182	189	168	11
Peru	1 014	292	206	244	443	270	170	109	50
Philippines	1 704	249	221	200	62	176	45	118	58
Poland	1 018	605	443	173	181	448	457	204	25
Portugal	953	766	199	275	142	431	328	350	83
Qatar	1 408	526	270	303	160	351	221	218	40
Republic of Korea	1 080	777	461	234	52	361	101	201	131
Republic of Moldova	933	456	339	255	190	302	261	258	34
Romania	1 266	610	308	257	116	300	493	299	15
Russian Federation	1 203	527	383	168	177	349	358	171	45
Rwanda	505	143	128	380	993	39	36	34	9
Saint Kitts and Nevis	777	590	423	150	116	418	158	169	64
Saint Lucia	947	288	245	188	135	445	123	211	64
Saint Vincent and the Grenadines	684	302	316	340	247	463	178	381	40
Samoa	976	510	303	267	255	477	101	82	99
San Marino									
Sao Tome and Principe	1 076	337	198	411	131	125	41	98	46
Saudi Arabia	1 442	564	298	327	92	222	178	105	22
Senegal	1 536	558	160	137	209	99	41	15	36
Serbia	1 648	374	164	276	110	374	383	234	17
Seychelles	1 292	379	258	227	104	313	158	352	103
Sierra Leone	1 169	275	48	84	611	53	18	23	55
Singapore									
Slovakia	805	893	279	144	102	272	238	224	18
Slovenia	1 101	488	306	222	99	263	339	254	23
Solomon Islands	757	326	161	57	790	87	31	65	73
Somalia									
South Africa	1 168	475	309	72	85	350	119	186	12
South Sudan	732	486	84	90	471	109	416	20	6
Spain	768	863	301	220	144	415	358	245	78
Sri Lanka	1 698	288	276	155	156	48	100	72	69
Sudan	1 214	413	349	191	151	109	188	7	2
Suriname	1 035	378	460	137	76	262	91	160	34
Sweden	865	672	346	168	116	329	474	247	52
Switzerland	754	726	429	203	87	343	548	286	26

TABLE 44.
DIETARY ENERGY SUPPLY BY COMMODITY GROUP, 2021 (KCAL PER CAPITA PER DAY) (CONTINUED)

COUNTRY	CEREALS	FATS AND OILS	SUGAR	FRUIT AND VEGETABLES	ROOTS, TUBERS AND PULSES	MEAT	DAIRY AND EGGS (EXCL BUTTER)	BEVERAGES AND OTHER	FISH AND SEAFOOD
Syrian Arab Republic	1 262	327	172	194	135	98	187	85	4
Tajikistan	1 359	366	205	261	115	198	210	56	1
Thailand	1 353	332	484	127	58	143	94	200	65
Timor-Leste	1 357	320	151	52	145	84	34	43	12
Togo	1 277	351	125	33	615	46	16	51	18
Tonga									
Trinidad and Tobago	1 119	540	430	120	145	247	170	134	33
Tunisia	1 571	538	352	386	119	125	229	126	26
Türkiye	1 453	693	262	352	190	210	466	191	10
Turkmenistan	1 367	297	194	175	130	327	297	55	5
Tuvalu									
Uganda	649	349	117	395	390	55	63	74	30
Ukraine	1 019	379	334	218	258	225	334	148	24
United Arab Emirates	1 121	770	150	300	202	353	197	166	48
United Kingdom of Great Britain and Northern Ireland	1 006	607	325	197	131	382	393	288	33
United Republic of Tanzania	992	381	117	136	520	67	87	66	14
United States of America	818	917	603	221	124	510	458	231	30
Uruguay	1 102	515	444	162	144	295	422	183	17
Uzbekistan	1 320	402	195	357	170	241	501	72	8
Vanuatu	971	789	147	155	365	214	61	50	65
Venezuela (Bolivarian Republic of)	887	443	287	159	160	151	156	47	19
Viet Nam	1 645	264	262	246	79	297	73	113	68
Yemen	1 359	211	229	78	57	79	52	105	5
Zambia	957	291	147	27	611	99	19	46	23
Zimbabwe	920	373	199	33	92	314	52	61	4

Source: FAO. 2023. Food Balances (2010-). In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FBS

TABLE 45.
AVERAGE PROTEIN SUPPLY BY ORIGIN (G PER CAPITA PER DAY)

COUNTRY	AVERAGE PROTEIN SUPPLY				AVERAGE SUPPLY OF PROTEIN OF ANIMAL ORIGIN			
	2000–2002	2004–2006	2009–2011	2018–2020	2000–2002	2004–2006	2009–2011	2018–2020
World	72.5	73.5	77.3	82.9	26.7	27.9	29.9	32.8
Africa	53.9	56.2	61.0	64.4	10.6	11.6	13.0	13.8
Asia	68.3	69.1	74.0	81.8	20.0	21.7	24.4	28.8
Latin America and the Caribbean	75.0	76.6	81.2	85.4	35.6	36.2	40.4	44.8
Northern America and Europe	101.6	103.5	103.8	107.8	58.9	60.6	61.0	64.3
Oceania	77.7	77.9	88.2	94.5	49.6	50.1	56.7	58.9
Afghanistan	51.4	53.6	58.0	56.3	13.0	12.3	11.0	10.0
Albania	93.0	96.7	104.7	113.0	41.0	48.3	54.3	60.0
Algeria	77.0	83.3	87.0	90.0	19.0	21.0	23.7	24.3
Andorra								
Angola	40.4	43.7	48.6	48.9	12.3	12.7	14.7	13.3
Antigua and Barbuda	69.3	77.7	80.3	81.0	47.3	53.4	55.3	52.3
Argentina	98.3	95.0	99.0	111.7	61.6	59.0	61.7	68.3
Armenia	65.3	77.3	91.3	100.0	20.7	29.0	40.0	47.0
Australia	101.7	103.0	107.7	110.4	67.3	68.4	72.4	73.0
Austria	106.0	101.0	105.0	108.0	64.0	59.3	62.3	64.0
Azerbaijan	68.3	80.7	90.7	95.7	17.3	20.3	28.0	34.0
Bahamas	92.0	82.0	84.3	78.7	60.7	53.7	57.6	51.3
Bahrain				62.0				33.6
Bangladesh	49.0	51.7	54.7	60.7	6.3	7.7	9.3	12.3
Barbados	83.3	86.3	86.3	88.0	47.0	49.3	48.7	50.0
Belarus	86.7	88.7	91.3	97.7	46.0	47.7	51.7	57.0
Belgium	98.7	99.3	96.0	101.7	60.3	60.0	56.3	61.0
Belize	74.1	75.3	69.0	71.3	30.7	30.0	26.3	32.0
Benin	55.7	57.7	63.3	65.4	9.0	9.0	13.0	11.7
Bhutan				59.5				20.7
Bolivia (Plurinational State of)	55.7	57.4	64.7	75.0	21.7	24.4	29.3	34.7
Bosnia and Herzegovina	79.3	87.3	88.7	100.7	23.0	27.0	31.0	37.3
Botswana	66.3	59.3	70.7	70.7	24.7	23.0	31.8	27.7
Brazil	79.7	83.3	91.0	93.7	40.7	41.3	48.0	55.0
Brunei Darussalam	87.4	87.3	27.3		45.4	47.0	14.8	
Bulgaria	83.3	78.7	80.0	80.7	39.0	38.3	38.7	41.7
Burkina Faso	68.7	74.0	79.7	89.1	9.0	11.0	11.7	16.4
Burundi				41.0				2.3
Cabo Verde	62.0	67.3	70.3	71.0	23.7	25.3	27.0	24.7
Cambodia	53.4	56.7	62.7	64.7	15.4	15.4	18.0	19.0
Cameroon	55.7	60.4	70.4	72.0	11.3	12.3	12.7	11.0
Canada	105.3	103.0	102.0	106.7	59.7	57.3	55.0	59.7
Central African Republic	47.0	48.0	52.0	50.0	17.0	18.0	19.0	20.3
Chad	63.0	62.0	70.5	77.7	11.7	10.3	18.5	26.7
Chile	79.3	85.3	84.3	92.7	37.3	42.0	41.3	48.3
China	83.5	86.1	94.0	105.1	27.8	31.4	36.4	41.1
Colombia	63.0	62.0	61.3	72.7	29.0	30.3	32.0	37.3

TABLE 45.
AVERAGE PROTEIN SUPPLY BY ORIGIN (G PER CAPITA PER DAY) (CONTINUED)

COUNTRY	AVERAGE PROTEIN SUPPLY				AVERAGE SUPPLY OF PROTEIN OF ANIMAL ORIGIN			
	2000–2002	2004–2006	2009–2011	2018–2020	2000–2002	2004–2006	2009–2011	2018–2020
Comoros			35.7	54.7			9.4	15.7
Congo	43.7	44.0	44.6	52.3	13.7	17.0	17.0	25.0
Costa Rica	71.3	70.7	75.0	83.3	34.3	35.0	39.0	47.7
Côte d'Ivoire	51.0	54.7	57.0	62.0	11.3	13.0	12.7	15.3
Croatia	71.3	77.7	81.7	93.3	32.3	41.3	45.3	56.0
Cuba	70.3	77.3	84.7	84.0	21.7	22.0	29.7	34.7
Cyprus	84.7	78.0	89.4	95.0	51.7	48.3	49.0	50.7
Czechia	91.3	96.7	91.3	87.7	54.0	56.0	53.7	54.0
Democratic People's Republic of Korea	60.3	58.7	56.7	53.3	9.0	9.3	9.3	10.0
Democratic Republic of the Congo			21.3	29.7			2.0	3.0
Denmark	104.3	110.7	105.3	113.3	66.7	71.3	65.0	76.3
Djibouti	48.3	54.7	62.3	68.3	14.7	16.0	13.0	13.0
Dominica	90.0	86.0	86.0	79.7	51.7	48.0	48.3	44.3
Dominican Republic	47.7	50.4	56.7	68.3	22.3	24.0	26.7	33.3
Ecuador	55.6	55.7	64.0	62.0	29.3	31.0	35.7	30.0
Egypt	94.3	95.4	99.3	95.3	17.7	19.4	22.0	24.3
El Salvador	67.3	69.3	70.3	79.0	20.7	23.3	24.3	27.3
Equatorial Guinea								
Eritrea								
Estonia	89.0	89.6	98.0	103.0	52.3	51.3	53.0	67.7
Eswatini	62.0	67.3	54.0	60.3	20.3	24.3	16.0	17.7
Ethiopia	51.7	55.4	66.8	72.7	5.4	6.7	7.3	6.7
Fiji	73.3	76.3	70.3	76.7	29.7	33.0	27.3	34.0
Finland	101.7	106.0	111.3	118.0	62.7	64.3	68.3	74.3
France	118.0	111.7	111.3	115.3	78.0	72.3	70.0	71.3
Gabon	75.6	79.7	79.4	79.7	35.9	39.4	37.7	38.7
Gambia	58.3	57.0	61.6	61.7	13.3	14.7	15.7	18.0
Georgia	75.6	81.0	76.7	82.7	26.0	30.3	26.7	33.0
Germany	96.7	97.0	102.0	105.0	57.3	58.3	61.7	65.7
Ghana	52.4	59.0	63.3	63.4	14.3	15.7	14.0	15.3
Greece	116.0	114.7	110.7	105.7	63.0	62.7	62.0	62.3
Grenada	64.3	75.7	72.3	74.3	40.0	49.3	41.6	47.7
Guatemala	57.4	59.7	64.7	68.3	15.4	17.3	19.3	22.7
Guinea	51.0	51.7	54.0	57.3	7.0	7.0	9.7	11.3
Guinea-Bissau	44.0	43.0	43.0	43.7	8.0	7.0	8.7	8.7
Guyana	76.7	75.0	76.3	90.3	33.7	33.3	32.7	36.7
Haiti	41.3	42.7	47.0	46.0	7.7	8.0	8.7	10.0
Honduras	60.0	64.0	60.3	61.7	22.0	24.7	21.3	21.0
Hungary	89.3	90.0	82.3	88.7	51.7	48.7	44.7	50.7
Iceland	123.7	130.0	130.3	143.3	88.7	95.4	93.0	104.0
India	55.3	54.0	58.0	65.7	9.0	9.7	11.0	15.3
Indonesia	52.3	53.7	58.0	68.3	12.0	13.3	15.3	25.7
Iran (Islamic Republic of)	81.7	83.3	83.3	82.7	19.0	22.0	24.0	25.3

TABLE 45.
AVERAGE PROTEIN SUPPLY BY ORIGIN (G PER CAPITA PER DAY) (CONTINUED)

COUNTRY	AVERAGE PROTEIN SUPPLY				AVERAGE SUPPLY OF PROTEIN OF ANIMAL ORIGIN			
	2000–2002	2004–2006	2009–2011	2018–2020	2000–2002	2004–2006	2009–2011	2018–2020
Iraq	53.4	54.3	63.0	64.3	7.7	6.3	13.0	12.0
Ireland	117.3	114.3	110.0	115.7	74.7	72.0	64.0	70.3
Israel	123.0	128.7	123.7	126.6	68.0	71.7	68.3	75.0
Italy	113.0	110.7	110.7	105.3	61.7	59.3	60.0	56.7
Jamaica	72.0	76.3	74.7	75.7	36.7	38.7	36.3	37.0
Japan	95.3	91.0	86.7	87.3	54.7	51.0	48.0	49.0
Jordan	72.7	79.0	75.9	64.3	23.3	26.3	26.3	24.7
Kazakhstan	88.0	90.0	93.7	104.0	39.7	47.4	53.7	57.0
Kenya	56.7	59.0	60.4	60.0	15.0	16.7	16.3	13.7
Kiribati	70.3	73.0	72.0	72.7	34.7	37.0	35.7	37.3
Kuwait	102.3	112.4	107.1	102.3	51.6	59.7	56.4	49.3
Kyrgyzstan	83.7	84.3	84.3	85.0	35.7	34.0	35.3	35.3
Lao People's Democratic Republic	57.0	60.0	64.0	76.3	10.7	12.0	13.7	18.7
Latvia	78.3	87.0	96.0	96.3	40.7	49.0	57.3	57.3
Lebanon	91.3	84.3	78.0	69.0	35.0	33.7	29.6	24.0
Lesotho	69.0	71.7	75.3	59.3	9.3	10.0	12.7	15.7
Liberia	35.3	34.7	36.7	40.7	5.0	5.6	6.7	10.0
Libya			52.6	82.3			19.7	31.7
Lithuania	105.3	118.0	118.1	124.7	53.0	69.3	70.0	79.3
Luxembourg	104.0	109.0	110.4	108.7	71.4	74.0	68.7	66.7
Madagascar	45.3	47.4	47.0	39.0	10.6	10.3	10.0	6.3
Malawi	56.0	57.0	65.4	71.0	3.7	4.0	5.3	13.0
Malaysia	75.3	78.0	76.7	78.7	41.7	42.0	42.3	44.3
Maldives	100.7	88.3	103.4	80.3	70.0	57.3	69.7	46.6
Mali	68.0	72.4	83.1	77.6	16.7	20.4	23.7	12.9
Malta	109.0	110.7	108.0	107.0	56.7	59.0	58.3	61.7
Marshall Islands								
Mauritania	76.4	77.3	79.0	82.7	31.0	31.3	29.7	30.0
Mauritius	79.3	83.7	86.7	87.3	33.7	35.7	37.3	40.0
Mexico	86.7	87.3	87.0	91.3	37.3	39.0	41.0	44.7
Micronesia (Federated States of)				44.4				24.7
Mongolia	77.3	72.7	75.6	102.7	49.3	43.3	45.0	71.7
Montenegro		33.7	108.7	112.7		18.0	59.7	68.0
Morocco	84.0	90.0	93.7	99.7	16.0	18.0	22.7	28.7
Mozambique	36.4	41.0	46.7	45.3	4.3	4.7	5.0	7.0
Myanmar	51.3	61.7	81.4	96.7	10.7	18.3	32.0	45.0
Namibia	65.3	63.0	60.7	65.0	25.6	23.7	23.3	22.0
Nauru				65.9				46.7
Nepal	57.0	61.0	64.0	75.0	9.0	9.0	10.0	13.7
Netherlands (Kingdom of the)	105.7	106.0	108.0	107.3	73.7	72.3	73.0	67.3
New Zealand	89.0	92.7	91.3	96.0	52.0	56.0	54.4	53.6
Nicaragua	55.0	60.3	62.3	67.0	14.7	17.0	17.7	22.4
Niger	68.0	74.3	80.7	83.7	15.3	17.0	11.9	10.0

TABLE 45.
AVERAGE PROTEIN SUPPLY BY ORIGIN (G PER CAPITA PER DAY) (CONTINUED)

COUNTRY	AVERAGE PROTEIN SUPPLY				AVERAGE SUPPLY OF PROTEIN OF ANIMAL ORIGIN			
	2000–2002	2004–2006	2009–2011	2018–2020	2000–2002	2004–2006	2009–2011	2018–2020
Nigeria	58.0	61.7	62.3	59.0	7.7	8.3	9.0	6.7
North Macedonia	71.0	73.3	78.0	85.0	26.3	29.7	31.7	36.3
Norway	105.0	104.7	114.0	116.7	64.0	63.0	66.3	65.0
Oman	75.4	74.7	84.2	86.0	37.7	37.3	44.0	41.7
Pakistan	59.3	59.3	61.0	67.0	22.0	23.3	23.7	29.3
Palau								
Panama	64.7	66.0	74.0	87.0	35.7	35.0	39.4	48.7
Papua New Guinea			42.0	63.3			24.7	34.7
Paraguay	76.0	70.0	64.0	71.3	39.0	31.3	26.3	27.3
Peru	63.3	65.0	74.7	90.7	21.3	22.7	30.7	44.0
Philippines	53.7	56.7	60.0	66.7	22.0	23.0	25.3	26.7
Poland	99.3	98.3	101.7	107.7	49.7	49.0	53.0	60.7
Portugal	112.7	113.0	114.3	117.7	67.7	68.0	71.0	76.3
Qatar				67.1				31.7
Republic of Korea	87.3	87.7	92.3	97.7	36.7	38.3	43.0	53.0
Republic of Moldova	68.7	73.7	70.0	69.3	25.0	32.3	29.7	27.7
Romania	98.6	107.3	105.7	107.0	43.7	52.0	50.7	53.0
Russian Federation	86.3	93.0	100.0	104.0	41.7	46.3	53.7	55.7
Rwanda	45.0	48.4	58.4	57.6	3.0	4.0	6.0	7.0
Saint Kitts and Nevis	76.3	74.7	76.0	70.7	47.7	46.7	48.7	44.3
Saint Lucia	86.7	87.7	82.7	87.7	54.3	54.7	49.3	54.0
Saint Vincent and the Grenadines	69.3	80.0	87.3	88.3	35.7	44.0	49.0	50.0
Samoa	76.3	76.0	82.7	87.3	46.0	44.7	50.3	49.7
San Marino								
Sao Tome and Principe	51.0	57.0	55.6	54.7	12.0	16.0	16.7	18.0
Saudi Arabia	82.0	82.4	86.7	89.4	31.3	32.0	35.7	34.7
Senegal	55.6	57.0	60.6	63.7	16.3	15.7	16.3	12.6
Serbia		25.6	80.7	87.0		11.3	36.7	43.0
Seychelles			59.8	98.0			27.5	51.0
Sierra Leone	44.4	50.0	52.0	49.7	6.7	10.7	12.6	11.7
Singapore								
Slovakia	71.7	72.7	72.0	70.3	33.7	35.3	36.0	38.3
Slovenia	99.7	98.3	99.7	97.3	58.3	57.3	57.3	52.3
Solomon Islands	51.0	53.3	55.7	50.6	14.0	15.3	17.0	15.0
Somalia								
South Africa	75.3	78.0	80.0	79.7	25.0	29.0	33.0	36.0
South Sudan				42.8				18.7
Spain	113.0	109.3	106.3	110.3	72.7	70.3	66.7	69.7
Sri Lanka	52.3	53.3	57.7	68.3	13.0	12.3	14.3	18.3
Sudan				74.7				19.3
Suriname	56.3	57.0	61.3	66.0	24.7	24.0	27.0	30.3
Sweden	103.7	107.7	107.3	108.0	69.3	72.0	70.7	68.7
Switzerland	94.0	91.7	94.3	96.7	58.3	58.0	59.7	60.3

TABLE 45.
AVERAGE PROTEIN SUPPLY BY ORIGIN (G PER CAPITA PER DAY) (CONTINUED)

COUNTRY	AVERAGE PROTEIN SUPPLY				AVERAGE SUPPLY OF PROTEIN OF ANIMAL ORIGIN			
	2000–2002	2004–2006	2009–2011	2018–2020	2000–2002	2004–2006	2009–2011	2018–2020
Syrian Arab Republic			55.6	76.1			13.8	20.3
Tajikistan	49.0	50.0	57.1	80.3	8.7	9.7	12.3	27.0
Thailand	58.0	59.3	59.7	63.0	22.3	23.3	24.3	26.3
Timor-Leste	52.0	53.0	53.7	49.0	18.0	15.3	16.3	10.7
Togo	49.6	51.4	54.7	56.7	6.3	6.3	7.7	9.0
Tonga								
Trinidad and Tobago	68.0	71.3	77.7	84.7	30.7	35.7	39.3	43.7
Tunisia	89.3	89.7	95.7	99.7	24.0	24.0	25.0	28.0
Türkiye	103.7	103.0	103.0	110.7	24.3	26.3	30.0	39.0
Turkmenistan	81.4	88.3	89.6	89.3	29.4	33.7	36.3	35.3
Tuvalu								
Uganda	49.7	51.6	55.7	46.0	8.3	11.3	12.0	11.0
Ukraine	81.7	88.3	87.7	87.7	33.3	40.0	42.0	42.3
United Arab Emirates	108.8	104.2	83.3	82.7	51.8	45.6	30.7	36.0
United Kingdom of Great Britain and Northern Ireland	99.7	103.3	102.3	103.7	55.3	58.3	58.0	58.0
United Republic of Tanzania	53.4	54.3	56.7	59.7	9.0	9.3	9.7	11.3
United States of America	113.3	114.7	109.3	116.3	72.7	74.0	70.0	75.3
Uruguay	87.7	79.3	86.7	89.0	53.3	42.0	48.3	49.3
Uzbekistan	66.3	73.3	84.7	102.4	22.7	25.0	30.0	45.0
Vanuatu	62.3	64.3	67.3	65.0	25.0	24.0	27.3	25.3
Venezuela (Bolivarian Republic of)	63.3	63.7	77.3	52.6	31.7	30.3	39.7	23.0
Viet Nam	56.0	64.0	75.3	86.7	15.3	21.0	30.0	34.3
Yemen	57.0	55.0	59.0	53.0	10.3	12.7	12.3	10.7
Zambia	46.0	47.7	51.7	54.3	9.0	8.7	11.0	13.0
Zimbabwe	46.7	49.7	59.7	54.7	9.7	10.3	24.1	24.7

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 46.
AVERAGE DIETARY SUPPLY ADEQUACY (PERCENT)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
World	115	116	119	122	122	123	123	124	124
Africa	108	110	113	113	113	114	114	114	114
Asia	110	110	114	119	120	121	121	122	123
Latin America and the Caribbean	120	122	125	126	126	126	127	128	128
Northern America and Europe	136	138	138	139	140	141	141	142	143
Oceania	117	118	125	127	126	126	126	125	124
Afghanistan	88	94	104	108	108	107	106	106	107
Albania	122	120	130	135	135	136	135	135	135
Algeria	127	131	139	149	149	149	150	151	152
Andorra									
Angola	74	84	109	116	116	115	114	113	114
Antigua and Barbuda									
Argentina	132	127	128	132	132	134	135	136	137
Armenia	95	111	123	135	135	137	139	141	144
Australia	124	126	138	141	140	140	140	139	137
Austria	146	144	149	147	147	149	149	150	150
Azerbaijan	100	118	123	127	129	132	135	138	139
Bahamas									
Bahrain									
Bangladesh	108	110	108	109	109	110	111	111	113
Barbados	114	115	123	125	124	125	126	127	129
Belarus	122	121	126	131	132	133	134	134	135
Belgium	147	145	146	149	149	151	152	152	152
Belize	121	123	122	120	121	123	125	125	124
Benin	109	116	120	121	120	121	122	124	126
Bhutan									
Bolivia (Plurinational State of)	97	97	99	104	105	106	106	105	104
Bosnia and Herzegovina	118	125	122	128	129	130	131	133	136
Botswana	99	101	103	103	103	103	104	107	109
Brazil	122	128	133	132	133	133	134	134	134
Brunei Darussalam									
Bulgaria	111	109	110	112	113	114	116	117	119
Burkina Faso	109	115	119	120	120	120	120	120	120
Burundi									
Cabo Verde	108	113	104	99	100	101	102	102	101
Cambodia	101	105	113	117	118	120	122	123	123
Cameroon	101	107	123	125	124	125	126	126	124
Canada	140	139	141	143	144	144	144	145	146
Central African Republic	92	92	95	85	86	87	87	86	84
Chad	92	94	104	108	109	108	106	104	102
Chile	121	122	120	122	123	123	125	126	126
China	115	116	123	131	132	132	133	135	137
Colombia	123	121	120	130	130	129	130	130	132

TABLE 46.
AVERAGE DIETARY SUPPLY ADEQUACY (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Comoros	100	107	107	111	112	112	112	111	109
Congo	100	95	90	97	96	97	97	98	98
Costa Rica	117	118	118	121	123	123	124	124	125
Côte d'Ivoire	118	121	120	125	126	127	129	130	131
Croatia	110	120	120	124	125	126	128	130	131
Cuba	127	135	134	140	140	140	139	135	131
Cyprus	106	102	113	117	117	118	119	119	119
Czechia	123	128	129	128	130	131	132	133	134
Democratic People's Republic of Korea	91	92	87	86	85	85	84	84	83
Democratic Republic of the Congo	103	103	105	103	103	103	102	101	99
Denmark	132	134	131	132	133	134	134	135	135
Djibouti	88	97	100	105	105	106	106	108	109
Dominica	125	121	124	120	119	118	117	116	117
Dominican Republic	100	101	109	121	123	126	128	129	130
Ecuador	100	99	110	112	111	110	110	110	111
Egypt	142	137	140	136	135	135	135	134	133
El Salvador	120	116	115	117	119	121	121	121	121
Equatorial Guinea									
Eritrea									
Estonia	116	120	127	122	123	125	127	127	127
Eswatini	112	114	101	106	107	108	109	109	109
Ethiopia	87	91	100	111	111	111	110	110	112
Fiji	124	125	116	111	112	115	117	119	120
Finland	123	125	125	128	129	130	131	132	132
France	146	142	141	145	145	143	141	141	142
Gabon	120	119	114	112	111	110	109	108	108
Gambia	107	103	112	108	107	106	106	107	106
Georgia	117	125	123	126	127	130	132	133	134
Germany	136	139	142	141	141	142	143	145	146
Ghana	114	121	130	124	126	129	132	133	135
Greece	141	140	140	134	134	135	135	135	136
Grenada									
Guatemala	104	109	115	118	118	119	120	123	124
Guinea	116	120	118	121	123	125	127	129	129
Guinea-Bissau	111	110	101	93	93	94	93	94	94
Guyana	122	121	115	131	131	131	130	135	142
Haiti	87	84	92	94	92	91	90	90	88
Honduras	107	106	113	114	114	115	115	115	115
Hungary	123	128	122	127	128	130	130	131	130
Iceland	126	133	132	136	135	134	133	130	129
India	104	100	104	108	109	110	110	110	110
Indonesia	107	108	115	126	127	128	127	127	127
Iran (Islamic Republic of)	129	127	122	123	122	121	122	123	122

TABLE 46.
AVERAGE DIETARY SUPPLY ADEQUACY (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Iraq	103	109	115	115	116	117	117	118	118
Ireland	149	141	144	155	157	159	160	160	159
Israel	159	159	156	156	157	158	159	159	158
Italy	146	144	146	141	141	142	144	146	148
Jamaica	114	114	112	114	114	116	116	114	114
Japan	117	115	110	111	111	111	111	111	109
Jordan	117	125	122	119	115	111	106	103	100
Kazakhstan	117	122	131	136	139	142	145	147	148
Kenya	94	96	100	100	99	101	101	101	99
Kiribati	126	125	115	119	119	119	118	118	118
Kuwait	135	146	145	139	137	136	136	138	141
Kyrgyzstan	106	115	114	117	118	119	120	119	119
Lao People's Democratic Republic	96	99	103	115	116	116	116	116	116
Latvia	116	125	127	130	131	132	133	134	136
Lebanon	118	112	125	130	135	139	142	144	144
Lesotho	102	110	113	91	93	92	89	86	85
Liberia	98	100	101	99	99	98	97	96	95
Libya	132	132	128	135	135	136	136	137	136
Lithuania	131	136	133	135	134	134	134	135	137
Luxembourg	137	138	136	130	131	132	134	134	133
Madagascar	95	96	97	88	87	86	84	83	82
Malawi	107	108	120	122	121	121	121	121	121
Malaysia	124	122	118	114	115	116	118	120	122
Maldives									
Mali	110	115	130	132	130	129	128	127	126
Malta	136	136	138	128	125	122	118	115	113
Marshall Islands									
Mauritania	124	123	130	132	132	133	134	133	132
Mauritius	123	125	126	122	122	123	123	124	125
Mexico	140	138	134	135	135	136	136	137	137
Micronesia (Federated States of)									
Mongolia	95	96	105	116	118	120	123	119	115
Montenegro	106	117	138	138	140	140	141	144	148
Morocco	133	136	138	143	143	143	143	142	142
Mozambique	98	100	111	89	93	97	99	97	96
Myanmar	90	97	113	120	120	120	121	121	122
Namibia	106	103	95	108	109	110	112	113	113
Nauru									
Nepal	104	109	115	125	126	126	127	129	130
Netherlands (Kingdom of the)	126	124	125	127	127	130	133	135	136
New Zealand	127	127	129	128	128	128	127	125	124
Nicaragua	102	107	110	112	113	114	114	115	116
Niger	106	112	117	121	122	122	123	122	121

TABLE 46.
AVERAGE DIETARY SUPPLY ADEQUACY (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Nigeria	121	126	122	119	118	117	116	115	115
North Macedonia	110	115	119	119	120	121	123	123	123
Norway	135	137	139	135	135	136	138	139	139
Oman	112	116	124	121	123	127	133	135	135
Pakistan	108	107	108	111	112	111	111	111	112
Palau									
Panama	100	103	117	124	128	131	132	132	132
Papua New Guinea	98	97	97	100	100	99	100	100	99
Paraguay	117	116	125	131	131	131	131	131	130
Peru	104	105	114	120	120	121	122	122	122
Philippines	110	113	113	118	121	123	125	126	127
Poland	135	132	134	134	137	138	139	141	140
Portugal	142	142	141	138	138	139	140	141	142
Qatar									
Republic of Korea	124	123	132	134	135	136	136	135	135
Republic of Moldova	98	95	111	136	139	140	140	140	137
Romania	131	139	145	144	145	146	147	148	148
Russian Federation	118	127	132	135	136	136	137	137	138
Rwanda	97	100	102	100	100	100	99	100	101
Saint Kitts and Nevis									
Saint Lucia									
Saint Vincent and the Grenadines	106	114	119	125	127	128	128	127	130
Samoa	127	131	125	121	121	122	123	129	132
San Marino									
Sao Tome and Principe	106	112	106	105	105	105	106	107	108
Saudi Arabia	131	132	123	133	133	133	133	134	134
Senegal	98	103	111	115	117	118	120	122	124
Serbia	114	118	130	131	131	133	135	138	140
Seychelles	126	127	122	119	120	121	121	122	120
Sierra Leone	85	88	105	106	105	105	104	104	104
Singapore									
Slovakia	109	110	111	111	113	115	118	120	119
Slovenia	121	124	128	128	128	128	127	126	126
Solomon Islands	111	114	111	105	106	107	107	107	108
Somalia	72	72	71	79	79	81	82	84	85
South Africa	122	123	120	119	120	121	120	119	117
South Sudan						35	72	107	106
Spain	131	126	128	131	133	134	135	134	134
Sri Lanka	103	105	105	110	111	113	114	116	117
Sudan	105	107	110	119	118	117	118	118	119
Suriname	108	111	114	110	110	111	111	111	112
Sweden	123	122	125	127	126	126	127	129	129
Switzerland	134	134	134	132	132	132	133	134	134
Syrian Arab Republic	120	131	138	121	116	112	108	106	103

TABLE 46.
AVERAGE DIETARY SUPPLY ADEQUACY (PERCENT) (CONTINUED)

COUNTRY	2000–2002	2004–2006	2009–2011	2015–2017	2016–2018	2017–2019	2018–2020	2019–2021	2020–2022
Tajikistan	87	90	98	111	114	118	120	121	121
Thailand	107	112	112	113	113	114	115	117	118
Timor-Leste	91	97	96	100	101	102	103	103	105
Togo	97	101	107	107	107	107	109	111	112
Tonga									
Trinidad and Tobago	116	114	114	113	112	111	111	111	113
Tunisia	136	136	138	142	143	145	147	148	148
Türkiye	156	154	153	154	155	157	158	159	159
Turkmenistan	116	122	118	119	119	119	119	119	119
Tuvalu									
Uganda	113	115	109	96	96	98	100	101	101
Ukraine	120	129	127	123	122	120	119	118	118
United Arab Emirates	122	111	112	119	120	122	123	126	131
United Kingdom of Great Britain and Northern Ireland	137	138	134	136	135	135	135	137	138
United Republic of Tanzania	99	102	106	111	111	111	111	111	110
United States of America	149	151	145	148	149	150	151	152	153
Uruguay	119	118	127	131	132	134	135	137	138
Uzbekistan	100	103	118	136	136	136	137	138	139
Vanuatu	127	129	123	122	122	123	122	124	125
Venezuela (Bolivarian Republic of)	105	109	125	102	96	96	96	98	100
Viet Nam	104	110	118	125	126	127	129	131	131
Yemen	101	100	103	92	91	93	95	97	98
Zambia	86	85	90	101	103	103	103	102	101
Zimbabwe	95	98	101	95	94	92	91	91	91

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 47.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (PERCENT)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
World	33.0	31.1	27.9	24.6	23.3	23.0	22.7	22.5	22.3
Africa	40.8	39.1	36.0	32.7	31.5	31.1	30.8	30.3	30.0
Asia	37.1	34.5	30.3	25.7	23.7	23.2	22.8	22.5	22.3
Latin America and the Caribbean	17.8	15.7	13.6	12.1	11.9	11.8	11.7	11.6	11.5
Northern America and Europe									
Oceania	14.2	17.8	19.6	20.5	21.1	21.3	21.5	21.8	22.0
Afghanistan	54.9	53.2	47.4	40.5	37.2	36.1	35.1	34.0	33.1
Albania	29.5	27.6	19.3	13.5	11.1	10.3	9.5	8.8	8.3
Algeria	22.3	18.1	13.6	10.7	9.7	9.4	9.1	8.8	8.6
Andorra									
Angola	46.5	33.9	30.8	35.6	40.2	41.4	42.4	43.1	43.6
Antigua and Barbuda									
Argentina	9.4	7.8	7.1	7.7	8.3	8.6	8.9	9.2	9.5
Armenia	17.2	20.6	16.4	11.2	9.1	8.5	8.0	7.5	7.2
Australia	0.9	2.0	3.1	3.3	3.3	3.3	3.3	3.3	3.4
Austria									
Azerbaijan	24.3	23.9	19.3	15.7	14.6	14.2	13.9	13.5	13.3
Bahamas									
Bahrain	10.9	9.0	7.3	6.2	5.6	5.4	5.3	5.1	5.0
Bangladesh	54.7	48.9	42.2	35.1	31.2	29.9	28.6	27.5	26.4
Barbados	8.2	8.2	7.8	7.0	6.5	6.4	6.2	6.1	6.0
Belarus	4.7	4.5	4.0	3.8	3.7	3.7	3.6	3.6	3.6
Belgium	4.0	3.7	3.1	2.6	2.5	2.5	2.5	2.4	2.4
Belize	23.4	22.9	19.2	15.4	13.7	13.2	12.8	12.4	12.0
Benin	34.9	36.1	35.2	32.9	32.3	31.9	31.4	30.9	30.4
Bhutan	44.5	39.3	32.8	27.3	24.9	24.3	23.7	23.2	22.7
Bolivia (Plurinational State of)	32.9	29.6	22.8	16.6	13.8	13.0	12.3	11.6	11.1
Bosnia and Herzegovina	12.4	11.2	10.0	8.6	8.4	8.3	8.2	8.1	8.0
Botswana	30.3	29.3	26.1	22.9	23.0	22.8	22.5	22.1	21.6
Brazil	9.8	7.3	6.5	6.5	6.9	7.1	7.2	7.2	7.2
Brunei Darussalam	21.3	21.3	18.4	15.1	13.0	12.4	11.8	11.3	10.9
Bulgaria	8.1	8.6	7.7	6.6	6.2	6.1	5.9	5.7	5.6
Burkina Faso	40.5	41.5	36.7	28.4	24.8	23.9	23.1	22.4	21.8
Burundi	63.1	60.6	57.7	55.9	56.1	56.2	56.3	56.4	56.5
Cabo Verde	17.8	15.6	13.8	11.4	10.5	10.2	9.9	9.6	9.4
Cambodia	50.5	44.7	37.4	29.0	25.6	24.7	23.8	23.0	22.3
Cameroon	37.5	37.0	33.7	30.5	29.0	28.5	27.9	27.3	26.9
Canada									
Central African Republic	43.1	43.6	41.7	40.9	40.8	40.5	40.3	40.0	39.8
Chad	42.0	42.6	40.5	36.9	35.0	34.4	33.6	32.9	32.3
Chile	2.9	2.3	2.0	1.8	1.7	1.7	1.6	1.6	1.6
China, mainland									
Colombia	17.4	15.7	13.3	12.3	11.8	11.6	11.5	11.3	11.2
Comoros	43.9	41.8	35.5	27.2	23.0	21.7	20.6	19.6	18.8

TABLE 47.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Congo	33.7	30.9	25.5	20.9	19.1	18.5	17.8	17.1	16.5
Costa Rica	6.8	5.9	6.1	7.3	8.3	8.6	8.9	9.2	9.5
Côte d'Ivoire	32.6	33.5	31.4	26.9	23.8	22.8	21.8	20.9	20.2
Croatia									
Cuba	7.2	7.6	7.2	7.0	7.1	7.1	7.0	7.0	7.0
Cyprus									
Czechia	2.6	2.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Democratic People's Republic of Korea	52.7	41.2	29.2	22.3	19.8	19.0	18.2	17.5	16.8
Democratic Republic of the Congo	46.0	45.7	43.7	41.8	41.6	41.4	41.1	40.7	40.3
Denmark									
Djibouti	33.7	35.8	32.2	26.1	22.6	21.5	20.5	19.5	18.7
Dominica									
Dominican Republic	10.1	9.0	8.4	7.4	6.8	6.5	6.2	5.9	5.6
Ecuador	27.7	27.8	26.4	23.0	23.2	23.2	23.1	22.8	22.7
Egypt	25.9	24.4	25.4	22.5	21.7	21.4	21.1	20.7	20.4
El Salvador	28.7	23.5	17.5	13.1	11.4	11.0	10.7	10.3	10.0
Equatorial Guinea	38.8	34.5	28.1	21.6	19.0	18.1	17.3	16.6	16.1
Eritrea	43.5	46.8	51.2	52.2	52.1	51.8	51.3	50.8	50.2
Estonia	2.0	1.6	1.4	1.3	1.3	1.3	1.2	1.2	1.2
Eswatini	35.8	33.9	30.2	25.6	23.6	23.1	22.4	21.8	21.2
Ethiopia	57.0	51.3	44.7	39.5	37.4	36.6	35.8	35.1	34.4
Fiji	5.8	7.5	9.0	7.9	7.3	7.2	7.1	7.1	7.1
Finland									
France									
Gabon	25.5	23.3	19.0	15.9	14.9	14.6	14.2	13.8	13.4
Gambia	27.8	27.1	24.2	19.8	17.0	15.7	15.0	14.3	13.6
Georgia	16.1	14.5	10.4	7.3	6.0	5.6	5.3	5.0	4.8
Germany	1.2	1.2	1.4	1.7	1.9	2.0	2.0	2.1	2.1
Ghana	32.6	30.4	24.9	18.5	15.9	15.0	14.2	13.4	12.7
Greece	2.5	2.2	2.0	2.1	2.2	2.2	2.2	2.2	2.2
Grenada									
Guatemala	53.2	52.2	48.7	46.0	45.3	44.9	44.2	43.7	43.5
Guinea	33.0	35.5	35.0	32.2	30.5	29.8	29.1	28.5	27.9
Guinea-Bissau	33.8	32.0	30.3	28.8	28.7	28.5	28.2	27.9	27.7
Guyana	14.5	17.3	16.4	11.8	9.7	9.1	8.5	8.0	7.6
Haiti	30.3	28.0	25.2	22.2	21.1	20.7	20.3	19.9	19.5
Honduras	36.6	31.2	24.4	20.4	19.4	18.9	18.4	17.9	17.5
Hungary									
Iceland									
India	50.0	47.9	44.0	38.3	35.4	34.4	33.5	32.5	31.7
Indonesia	40.4	38.1	35.9	33.3	32.5	32.2	31.9	31.4	31.0
Iran (Islamic Republic of)	15.2	9.0	6.4	5.5	5.2	5.1	4.9	4.8	4.7
Iraq	27.9	27.1	22.5	16.0	13.1	12.2	11.3	10.5	9.9
Ireland									

TABLE 47.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Israel									
Italy									
Jamaica	7.2	6.3	6.1	6.4	6.5	6.5	6.5	6.5	6.5
Japan	8.5	8.0	7.0	6.0	5.5	5.4	5.2	5.1	5.0
Jordan	10.8	9.8	8.3	7.4	7.3	7.2	7.1	6.8	6.6
Kazakhstan	16.0	16.0	12.7	8.7	6.8	6.3	5.8	5.4	4.9
Kenya	38.5	37.3	31.7	24.9	22.0	21.1	20.1	19.2	18.4
Kiribati	20.3	18.7	17.1	15.6	15.3	15.0	14.8	14.5	14.2
Kuwait	4.0	4.1	4.5	5.4	6.1	6.3	6.5	6.7	6.9
Kyrgyzstan	28.0	22.8	17.8	13.6	11.9	11.5	11.1	10.7	10.3
Lao People's Democratic Republic	48.7	48.3	43.4	36.3	32.2	30.9	29.7	28.7	27.7
Latvia	3.9	3.2	2.6	2.2	2.0	2.0	1.9	1.8	1.8
Lebanon	17.8	16.4	14.5	9.4	8.4	8.2	7.9	7.6	7.4
Lesotho	41.6	42.2	39.6	34.6	32.9	32.6	32.3	32.0	31.8
Liberia	44.9	41.3	37.0	32.6	30.1	29.2	28.0	27.2	26.6
Libya	18.4	21.2	26.3	37.7	45.6	47.9	49.6	51.0	52.2
Lithuania	7.6	6.8	5.8	5.2	4.9	4.8	4.7	4.6	4.5
Luxembourg									
Madagascar	55.2	53.1	49.2	45.0	42.4	41.4	40.4	39.4	38.6
Malawi	56.0	53.4	47.0	39.4	36.9	36.1	35.3	34.6	34.0
Malaysia	19.5	17.9	17.4	19.0	20.6	21.0	21.4	21.7	21.9
Maldives	33.7	26.4	18.1	15.5	14.9	14.6	14.3	14.1	13.9
Mali	39.5	37.0	32.7	28.6	26.4	25.6	24.9	24.3	23.8
Malta									
Marshall Islands	39.9	39.0	38.7	35.0	33.6	32.7	31.9	31.2	30.5
Mauritania	39.3	32.1	27.3	25.1	24.3	23.8	23.3	22.7	22.1
Mauritius	12.6	10.7	9.4	8.8	8.9	8.9	8.8	8.7	8.6
Mexico	20.3	16.9	14.3	12.8	12.9	12.8	12.8	12.6	12.6
Micronesia (Federated States of)									
Mongolia	29.2	23.6	15.3	9.6	7.9	7.4	6.9	6.5	6.1
Montenegro	7.4	8.4	8.6	8.2	8.2	8.3	8.3	8.3	8.2
Morocco	25.2	20.3	16.8	14.8	14.1	13.8	13.4	13.1	12.8
Mozambique	48.6	46.3	43.6	41.4	39.3	38.5	37.7	37.0	36.4
Myanmar	45.9	39.1	33.0	29.1	27.0	26.3	25.6	24.8	24.1
Namibia	29.7	29.4	26.1	21.2	19.0	18.3	17.8	17.2	16.8
Nauru	25.3	25.7	22.7	19.0	17.1	16.5	15.8	15.3	14.8
Nepal	55.8	50.4	43.4	36.0	31.8	30.4	29.1	27.8	26.7
Netherlands (Kingdom of the)	1.3	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6
New Zealand									
Nicaragua	25.5	21.6	18.4	16.4	15.7	15.5	15.3	15.1	14.9
Niger	53.2	51.0	47.8	46.0	46.4	46.6	46.8	47.0	47.4
Nigeria	41.7	40.9	38.8	36.7	35.8	35.4	35.0	34.5	34.2
North Macedonia	8.4	8.7	6.8	4.8	4.2	4.1	3.9	3.8	3.7
Norway									

TABLE 47.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Oman	14.6	12.0	11.2	11.7	12.4	12.5	12.6	12.7	12.7
Pakistan	40.4	44.8	45.1	41.4	38.3	37.1	36.0	34.9	34.0
Palau									
Panama	18.4	20.9	21.1	17.9	15.9	15.2	14.6	14.1	13.8
Papua New Guinea	36.9	43.0	47.3	49.1	50.2	50.5	50.7	51.0	51.2
Paraguay	17.7	17.0	11.8	6.8	4.9	4.4	4.0	3.7	3.4
Peru	31.1	27.7	21.8	15.0	12.4	11.7	11.1	10.6	10.1
Philippines	34.8	33.7	32.6	31.2	30.1	30.1	29.7	29.0	28.8
Poland	2.9	2.4	2.2	2.1	2.2	2.2	2.3	2.3	2.3
Portugal	4.7	4.6	4.0	3.5	3.4	3.3	3.2	3.2	3.1
Qatar	9.6	8.1	6.6	5.8	5.2	5.0	4.8	4.6	4.4
Republic of Korea	2.6	2.3	2.0	1.8	1.8	1.8	1.8	1.7	1.7
Republic of Moldova	12.7	10.2	7.6	5.8	4.9	4.6	4.4	4.1	3.9
Romania	13.5	12.2	10.1	8.7	8.3	8.2	8.0	7.8	7.7
Russian Federation									
Rwanda	48.5	49.1	44.8	36.7	33.6	32.6	31.6	30.7	29.8
Saint Kitts and Nevis									
Saint Lucia	2.9	2.7	2.4	2.3	2.4	2.4	2.5	2.5	2.5
Saint Vincent and the Grenadines									
Samoa	5.8	4.7	4.8	5.6	6.4	6.8	7.0	7.2	7.4
San Marino									
Sao Tome and Principe	31.3	27.1	21.2	15.6	12.8	12.0	11.3	10.6	10.0
Saudi Arabia	11.4	11.3	11.7	12.2	12.5	12.6	12.6	12.5	12.4
Senegal	24.7	21.3	19.0	18.6	18.3	18.0	17.7	17.3	17.0
Serbia	8.8	8.2	6.5	5.5	5.3	5.1	4.9	4.7	4.6
Seychelles	10.6	9.0	8.2	7.8	7.7	7.6	7.5	7.3	7.2
Sierra Leone	38.1	39.0	36.9	32.3	28.8	28.1	27.4	26.6	26.0
Singapore	4.4	4.1	3.6	3.2	3.1	3.1	3.0	3.0	3.0
Slovakia									
Slovenia									
Solomon Islands	31.4	32.7	32.5	31.0	30.6	30.4	30.1	29.9	29.8
Somalia	33.0	33.9	30.1	24.2	21.2	20.3	19.4	18.7	18.0
South Africa	26.6	26.2	23.4	22.3	22.4	22.5	22.6	22.8	22.8
South Sudan	39.0	35.9	32.1	29.9	29.3	29.1	28.7	28.3	27.9
Spain									
Sri Lanka	19.5	18.2	17.2	16.4	16.3	16.3	16.2	16.1	15.9
Sudan	39.3	37.8	36.5	36.2	36.5	36.5	36.4	36.2	36.0
Suriname	13.6	11.0	9.0	8.2	8.1	8.0	7.9	7.8	7.6
Sweden									
Switzerland									
Syrian Arab Republic	28.3	29.7	27.2	27.6	27.7	27.3	26.7	26.1	25.4
Tajikistan	41.3	36.8	29.0	21.1	16.7	15.5	14.6	13.8	13.1
Thailand	16.2	16.4	15.2	12.8	12.4	12.3	12.1	11.9	11.8
Timor-Leste	54.6	57.1	54.8	49.7	47.4	46.7	46.1	45.6	45.1

TABLE 47.
PREVALENCE OF STUNTING IN CHILDREN UNDER 5 YEARS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Togo	32.1	31.0	28.7	26.0	24.6	24.1	23.5	22.9	22.3
Tonga	16.1	13.1	8.9	4.8	3.1	2.6	2.3	2.0	1.8
Trinidad and Tobago	5.3	7.0	8.3	8.8	8.8	8.8	8.8	8.8	8.8
Tunisia	12.6	10.9	9.3	8.6	8.8	8.8	8.8	8.7	8.6
Türkiye	17.4	15.5	10.8	7.5	6.5	6.2	6.0	5.7	5.5
Turkmenistan	26.6	21.0	14.4	10.2	8.4	7.9	7.4	7.0	6.7
Tuvalu	12.4	10.5	8.7	6.9	6.1	5.9	5.6	5.4	5.2
Uganda	44.0	41.3	36.0	29.6	26.3	25.5	24.7	24.0	23.4
Ukraine	22.6	21.2	18.6	16.5	16.2	15.6	14.8	13.5	12.3
United Arab Emirates									
United Kingdom of Great Britain and Northern Ireland									
United Republic of Tanzania	47.4	44.2	40.3	35.4	33.5	32.9	32.1	31.4	30.6
United States of America	3.1	2.6	2.5	2.8	3.1	3.3	3.4	3.5	3.6
Uruguay	16.3	13.3	9.9	8.0	6.9	6.7	6.4	6.3	6.1
Uzbekistan	28.9	21.3	15.4	10.7	8.8	8.3	7.8	7.3	6.9
Vanuatu	23.9	25.1	26.5	28.5	30.2	30.6	30.9	31.2	31.4
Venezuela (Bolivarian Republic of)	17.6	16.8	13.4	11.1	10.6	10.5	10.5	10.5	10.5
Viet Nam	41.5	33.2	27.4	23.5	21.7	21.0	20.4	19.8	19.3
Yemen	55.4	56.1	50.4	42.3	38.7	37.6	36.7	35.7	35.1
Zambia	51.8	49.4	43.7	37.6	34.2	33.2	32.3	31.7	31.4
Zimbabwe	32.8	34.8	33.5	26.8	23.8	23.1	22.5	22.0	21.6

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

TABLE 48.
PREVALENCE OF OBESITY IN THE ADULT POPULATION (PERCENT)

COUNTRY	2000	2005	2010	2011	2012	2013	2014	2015	2016
World	8.7	9.9	11.2	11.5	11.8	12.1	12.5	12.8	13.1
Africa	7.9	9.3	10.8	11.1	11.5	11.8	12.1	12.4	12.8
Asia	3.4	4.3	5.5	5.8	6.1	6.4	6.7	7.0	7.3
Latin America and the Caribbean	16.6	18.9	21.2	21.7	22.2	22.7	23.2	23.7	24.2
Northern America and Europe	19.5	21.7	24.0	24.5	25.0	25.4	25.9	26.4	26.9
Oceania	19.5	22.1	24.7	25.3	25.8	26.4	27.0	27.5	28.1
Afghanistan	2.3	3.0	4.0	4.2	4.4	4.7	4.9	5.2	5.5
Albania	13.2	15.4	18.2	18.8	19.3	19.9	20.5	21.1	21.7
Algeria	17.4	20.2	23.3	24.0	24.7	25.3	26.0	26.7	27.4
Andorra	22.2	23.4	24.4	24.6	24.8	25.0	25.2	25.4	25.6
Angola	3.6	4.8	6.2	6.5	6.8	7.1	7.5	7.9	8.2
Antigua and Barbuda	12.7	14.4	16.2	16.7	17.1	17.5	18.0	18.4	18.9
Argentina	20.7	23.0	25.3	25.8	26.3	26.8	27.3	27.8	28.3
Armenia	14.2	15.7	17.5	17.9	18.3	18.8	19.2	19.7	20.2
Australia	20.2	22.9	25.6	26.2	26.7	27.3	27.9	28.4	29.0
Austria	14.0	15.8	17.6	18.0	18.4	18.8	19.2	19.7	20.1
Azerbaijan	12.5	14.3	16.6	17.2	17.7	18.2	18.8	19.3	19.9
Bahamas	23.9	26.2	28.5	29.0	29.5	30.0	30.5	31.0	31.6
Bahrain	22.9	24.7	26.6	27.1	27.6	28.2	28.8	29.3	29.8
Bangladesh	1.3	1.8	2.5	2.6	2.8	3.0	3.2	3.4	3.6
Barbados	15.1	17.4	19.8	20.4	20.9	21.4	22.0	22.5	23.1
Belarus	18.8	20.5	22.3	22.7	23.0	23.4	23.7	24.1	24.5
Belgium	17.0	18.5	20.1	20.4	20.7	21.0	21.4	21.7	22.1
Belize	16.4	18.7	21.0	21.5	22.0	22.5	23.0	23.6	24.1
Benin	5.0	6.2	7.6	7.9	8.2	8.6	8.9	9.3	9.6
Bhutan	2.4	3.4	4.6	4.9	5.2	5.5	5.7	6.1	6.4
Bolivia (Plurinational State of)	13.2	15.2	17.4	17.9	18.3	18.8	19.3	19.7	20.2
Bosnia and Herzegovina	12.6	14.0	15.6	16.0	16.3	16.7	17.1	17.5	17.9
Botswana	13.1	15.1	16.9	17.2	17.5	17.9	18.2	18.6	18.9
Brazil	14.5	16.8	19.2	19.6	20.1	20.6	21.1	21.6	22.1
Brunei Darussalam	7.2	9.0	11.1	11.6	12.1	12.6	13.1	13.6	14.1
Bulgaria	18.6	20.4	22.4	22.8	23.2	23.7	24.1	24.5	25.0
Burkina Faso	2.1	2.9	4.0	4.2	4.5	4.7	5.0	5.3	5.6
Burundi	2.4	3.1	4.0	4.2	4.4	4.6	4.9	5.1	5.4
Cabo Verde	6.3	7.9	9.6	9.9	10.3	10.7	11.0	11.4	11.8
Cambodia	1.5	2.0	2.7	2.9	3.1	3.3	3.5	3.7	3.9
Cameroon	5.8	7.3	9.0	9.4	9.8	10.2	10.6	11.0	11.4
Canada	20.5	23.3	26.0	26.6	27.1	27.7	28.3	28.8	29.4
Central African Republic	3.9	4.8	5.9	6.1	6.4	6.6	6.9	7.2	7.5
Chad	2.9	3.7	4.7	4.9	5.1	5.3	5.6	5.8	6.1
Chile	20.6	22.8	25.1	25.6	26.1	26.5	27.0	27.5	28.0
China	2.4	3.2	4.4	4.7	5.0	5.2	5.5	5.9	6.2
Colombia	15.4	17.4	19.5	20.0	20.4	20.9	21.4	21.9	22.3
Comoros	4.1	5.1	6.2	6.4	6.7	6.9	7.2	7.5	7.8

TABLE 48.
PREVALENCE OF OBESITY IN THE ADULT POPULATION (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2011	2012	2013	2014	2015	2016
Congo	5.2	6.3	7.7	8.0	8.3	8.6	8.9	9.2	9.6
Costa Rica	14.8	18.0	21.4	22.2	22.9	23.6	24.3	25.0	25.7
Côte d'Ivoire	5.0	6.3	7.9	8.3	8.7	9.0	9.4	9.8	10.3
Croatia	17.5	19.4	21.6	22.0	22.5	22.9	23.4	23.9	24.4
Cuba	17.3	19.4	21.7	22.2	22.6	23.1	23.6	24.1	24.6
Cyprus	16.4	18.2	19.8	20.1	20.4	20.7	21.1	21.4	21.8
Czechia	21.0	22.3	23.9	24.2	24.5	24.9	25.2	25.6	26.0
Democratic People's Republic of Korea	4.0	4.7	5.5	5.7	5.9	6.1	6.3	6.5	6.8
Democratic Republic of the Congo	3.1	4.0	5.1	5.3	5.6	5.9	6.1	6.4	6.7
Denmark	14.0	15.7	17.4	17.8	18.1	18.5	18.9	19.3	19.7
Djibouti	9.3	10.5	11.8	12.0	12.3	12.6	12.9	13.2	13.5
Dominica	19.4	21.8	24.5	25.0	25.6	26.2	26.8	27.3	27.9
Dominican Republic	16.0	19.3	23.0	23.8	24.5	25.3	26.1	26.9	27.6
Ecuador	13.2	15.2	17.2	17.6	18.1	18.5	19.0	19.4	19.9
Egypt	22.2	24.9	28.0	28.6	29.3	30.0	30.6	31.3	32.0
El Salvador	15.6	18.4	21.1	21.7	22.2	22.8	23.4	24.0	24.6
Equatorial Guinea	4.3	5.2	6.3	6.5	6.8	7.1	7.4	7.7	8.0
Eritrea	2.3	2.9	3.7	3.9	4.1	4.3	4.5	4.8	5.0
Estonia	17.4	18.4	19.6	19.9	20.1	20.4	20.7	20.9	21.2
Eswatini	10.7	12.4	14.1	14.5	14.9	15.3	15.7	16.1	16.5
Ethiopia	1.9	2.5	3.3	3.4	3.6	3.8	4.0	4.3	4.5
Fiji	21.0	23.7	26.5	27.1	27.7	28.3	28.9	29.5	30.2
Finland	16.4	18.2	20.0	20.3	20.7	21.1	21.4	21.8	22.2
France	15.8	17.6	19.3	19.7	20.1	20.4	20.8	21.2	21.6
Gabon	9.3	11.1	12.8	13.2	13.5	13.9	14.3	14.6	15.0
Gambia	4.8	6.3	8.0	8.4	8.7	9.1	9.5	9.9	10.3
Georgia	13.7	15.7	18.2	18.7	19.3	19.9	20.5	21.1	21.7
Germany	16.3	18.0	19.9	20.3	20.7	21.1	21.5	21.9	22.3
Ghana	5.5	7.0	8.7	9.1	9.4	9.8	10.1	10.5	10.9
Greece	18.5	20.4	22.4	22.8	23.2	23.6	24.0	24.4	24.9
Grenada	13.5	15.7	18.1	18.6	19.1	19.6	20.2	20.7	21.3
Guatemala	12.9	15.3	17.8	18.4	18.9	19.5	20.0	20.6	21.2
Guinea	3.7	4.7	5.9	6.2	6.4	6.7	7.0	7.4	7.7
Guinea-Bissau	4.3	5.6	7.2	7.6	7.9	8.3	8.7	9.1	9.5
Guyana	11.9	14.3	16.8	17.4	17.9	18.4	19.0	19.6	20.2
Haiti	10.9	13.9	17.7	18.6	19.4	20.2	21.0	21.8	22.7
Honduras	12.6	15.0	17.8	18.4	19.0	19.5	20.1	20.8	21.4
Hungary	19.6	21.3	23.5	24.0	24.5	25.0	25.4	25.9	26.4
Iceland	16.0	17.8	19.6	20.0	20.3	20.7	21.1	21.5	21.9
India	1.6	2.1	2.8	3.0	3.1	3.3	3.5	3.7	3.9
Indonesia	2.6	3.6	4.9	5.2	5.5	5.8	6.1	6.5	6.9
Iran (Islamic Republic of)	16.6	19.1	22.1	22.7	23.3	24.0	24.6	25.2	25.8
Iraq	22.2	24.4	26.9	27.5	28.0	28.6	29.2	29.8	30.4
Ireland	16.0	18.7	21.6	22.2	22.8	23.4	24.0	24.7	25.3

TABLE 48.
PREVALENCE OF OBESITY IN THE ADULT POPULATION (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2011	2012	2013	2014	2015	2016
Israel	21.1	22.7	24.2	24.5	24.8	25.1	25.5	25.8	26.1
Italy	15.0	16.5	18.1	18.3	18.7	19.0	19.3	19.6	19.9
Jamaica	15.9	18.4	21.1	21.7	22.3	22.9	23.5	24.1	24.7
Japan	2.1	2.6	3.3	3.5	3.6	3.8	3.9	4.1	4.3
Jordan	26.4	29.2	31.9	32.5	33.1	33.7	34.3	34.9	35.5
Kazakhstan	14.0	15.9	18.0	18.5	19.0	19.5	20.0	20.5	21.0
Kenya	3.2	4.2	5.4	5.6	5.9	6.2	6.5	6.8	7.1
Kiribati	34.9	38.9	42.2	42.8	43.5	44.1	44.7	45.3	46.0
Kuwait	29.6	32.0	34.6	35.1	35.6	36.2	36.8	37.4	37.9
Kyrgyzstan	9.6	11.3	13.4	13.9	14.4	14.9	15.5	16.0	16.6
Lao People's Democratic Republic	1.7	2.5	3.5	3.8	4.1	4.4	4.7	5.0	5.3
Latvia	19.3	20.5	21.8	22.1	22.4	22.7	23.0	23.3	23.6
Lebanon	24.6	26.3	28.7	29.2	29.7	30.3	30.8	31.4	32.0
Lesotho	10.0	11.9	14.1	14.5	14.9	15.3	15.7	16.2	16.6
Liberia	5.6	6.6	8.0	8.3	8.6	8.9	9.2	9.6	9.9
Libya	23.5	26.0	28.8	29.4	30.0	30.6	31.3	31.9	32.5
Lithuania	21.6	22.9	24.4	24.7	25.0	25.3	25.6	26.0	26.3
Luxembourg	15.8	17.9	20.0	20.4	20.9	21.3	21.7	22.2	22.6
Madagascar	2.3	3.0	3.9	4.1	4.3	4.5	4.8	5.1	5.3
Malawi	2.7	3.4	4.4	4.6	4.8	5.0	5.3	5.5	5.8
Malaysia	7.0	9.4	12.0	12.6	13.1	13.7	14.3	14.9	15.6
Maldives	3.0	4.2	5.9	6.3	6.7	7.2	7.6	8.1	8.6
Mali	3.8	5.0	6.5	6.8	7.2	7.5	7.9	8.2	8.6
Malta	23.1	25.0	26.8	27.1	27.5	27.8	28.2	28.5	28.9
Marshall Islands	43.7	46.7	49.6	50.1	50.7	51.3	51.8	52.4	52.9
Mauritania	6.7	8.4	10.3	10.6	11.0	11.4	11.8	12.3	12.7
Mauritius	6.8	7.9	9.1	9.3	9.6	9.9	10.2	10.5	10.8
Mexico	20.8	23.3	25.8	26.3	26.8	27.3	27.8	28.3	28.9
Micronesia (Federated States of)	34.7	37.9	41.5	42.2	42.9	43.7	44.4	45.1	45.8
Mongolia	11.6	13.8	16.7	17.3	17.9	18.6	19.2	19.9	20.6
Montenegro	16.2	18.6	20.8	21.2	21.6	22.0	22.4	22.8	23.3
Morocco	16.7	19.2	22.1	22.8	23.4	24.1	24.7	25.4	26.1
Mozambique	3.7	4.6	5.7	5.9	6.1	6.4	6.7	6.9	7.2
Myanmar	2.2	3.0	4.0	4.3	4.6	4.8	5.1	5.4	5.8
Namibia	9.5	11.6	14.0	14.6	15.1	15.6	16.1	16.7	17.2
Nauru	55.1	57.0	58.9	59.3	59.6	60.0	60.3	60.7	61.0
Nepal	1.6	2.1	2.9	3.1	3.3	3.5	3.7	3.9	4.1
Netherlands (Kingdom of the)	13.0	15.4	17.7	18.2	18.6	19.1	19.5	20.0	20.4
New Zealand	21.5	24.4	27.2	27.8	28.4	29.0	29.6	30.2	30.8
Nicaragua	15.6	17.9	20.4	20.9	21.5	22.0	22.5	23.1	23.7
Niger	2.5	3.2	4.1	4.3	4.5	4.8	5.0	5.2	5.5
Nigeria	4.0	5.2	6.7	7.0	7.4	7.7	8.1	8.5	8.9
North Macedonia	17.1	18.5	20.1	20.5	20.8	21.2	21.6	22.0	22.4
Norway	16.0	18.2	20.4	20.8	21.3	21.7	22.2	22.6	23.1

TABLE 48.
PREVALENCE OF OBESITY IN THE ADULT POPULATION (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2011	2012	2013	2014	2015	2016
Oman	18.0	20.0	23.1	23.7	24.3	24.9	25.6	26.3	27.0
Pakistan	3.9	5.1	6.5	6.8	7.1	7.5	7.8	8.2	8.6
Palau	45.0	48.2	51.8	52.4	53.1	53.7	54.2	54.8	55.3
Panama	14.7	17.2	19.6	20.1	20.6	21.1	21.6	22.2	22.7
Papua New Guinea	13.3	15.5	17.9	18.5	19.0	19.6	20.1	20.7	21.3
Paraguay	12.3	14.7	17.2	17.7	18.2	18.7	19.2	19.8	20.3
Peru	13.5	15.3	17.3	17.7	18.1	18.5	18.9	19.3	19.7
Philippines	3.3	4.1	5.0	5.2	5.4	5.7	5.9	6.2	6.4
Poland	17.5	19.1	20.8	21.2	21.5	21.9	22.3	22.7	23.1
Portugal	13.7	15.9	18.1	18.6	19.0	19.5	19.9	20.4	20.8
Qatar	26.2	28.7	31.1	31.8	32.4	33.1	33.8	34.5	35.1
Republic of Korea	2.9	3.4	3.9	4.0	4.1	4.3	4.4	4.5	4.7
Republic of Moldova	14.2	15.5	16.9	17.2	17.5	17.8	18.2	18.5	18.9
Romania	16.2	17.8	19.8	20.2	20.7	21.1	21.6	22.1	22.5
Russian Federation	19.0	20.2	21.4	21.7	21.9	22.2	22.5	22.8	23.1
Rwanda	2.3	3.2	4.2	4.5	4.7	5.0	5.3	5.6	5.8
Saint Kitts and Nevis	14.4	16.7	19.3	19.8	20.4	21.0	21.6	22.3	22.9
Saint Lucia	12.9	14.8	16.5	17.0	17.4	18.0	18.5	19.1	19.7
Saint Vincent and the Grenadines	14.6	17.2	20.0	20.6	21.2	21.8	22.4	23.1	23.7
Samoa	36.7	40.2	43.4	44.1	44.7	45.4	46.0	46.7	47.3
San Marino									
Sao Tome and Principe	6.3	8.0	10.0	10.3	10.7	11.2	11.6	12.0	12.4
Saudi Arabia	26.2	28.4	31.5	32.1	32.8	33.4	34.1	34.7	35.4
Senegal	4.7	5.8	7.1	7.3	7.6	7.9	8.2	8.5	8.8
Serbia	15.5	17.3	19.2	19.6	20.0	20.3	20.7	21.1	21.5
Seychelles	8.6	10.0	11.7	12.0	12.4	12.8	13.2	13.5	14.0
Sierra Leone	4.4	5.5	6.8	7.1	7.4	7.7	8.0	8.3	8.7
Singapore	4.4	4.9	5.4	5.5	5.6	5.7	5.8	6.0	6.1
Slovakia	15.5	16.9	18.4	18.8	19.1	19.4	19.8	20.1	20.5
Slovenia	15.1	16.5	18.1	18.4	18.8	19.1	19.5	19.8	20.2
Solomon Islands	13.5	15.9	18.7	19.3	19.9	20.6	21.2	21.9	22.5
Somalia	4.1	5.2	6.4	6.7	7.0	7.3	7.6	7.9	8.3
South Africa	19.7	22.3	25.1	25.6	26.1	26.7	27.2	27.8	28.3
South Sudan									
Spain	18.3	20.0	21.7	22.0	22.4	22.7	23.1	23.4	23.8
Sri Lanka	2.1	2.8	3.7	3.9	4.1	4.4	4.6	4.9	5.2
Sudan									
Suriname	18.9	21.2	23.5	24.0	24.4	24.9	25.4	25.9	26.4
Sweden	14.6	16.3	18.2	18.6	19.0	19.4	19.8	20.2	20.6
Switzerland	13.9	15.5	17.3	17.6	18.0	18.4	18.7	19.1	19.5
Syrian Arab Republic	18.2	20.7	23.8	24.4	25.1	25.8	26.4	27.1	27.8
Tajikistan	8.0	9.4	11.3	11.8	12.2	12.7	13.2	13.7	14.2
Thailand	3.7	5.0	7.0	7.4	7.9	8.4	8.9	9.4	10.0
Timor-Leste	1.4	1.9	2.6	2.8	2.9	3.1	3.3	3.6	3.8

TABLE 48.
PREVALENCE OF OBESITY IN THE ADULT POPULATION (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2011	2012	2013	2014	2015	2016
Togo	4.1	5.2	6.5	6.8	7.1	7.4	7.8	8.1	8.4
Tonga	37.0	40.6	44.1	44.7	45.4	46.1	46.8	47.5	48.2
Trinidad and Tobago	10.6	12.9	15.3	15.8	16.3	16.9	17.4	18.0	18.6
Tunisia	18.2	20.7	23.4	24.0	24.6	25.1	25.7	26.3	26.9
Türkiye	22.2	25.1	28.2	28.9	29.5	30.2	30.8	31.5	32.1
Turkmenistan	11.0	12.9	15.3	15.8	16.3	16.9	17.4	18.0	18.6
Tuvalu	39.3	43.1	47.0	47.8	48.6	49.4	50.1	50.9	51.6
Uganda	2.4	3.1	3.9	4.1	4.3	4.5	4.8	5.0	5.3
Ukraine	19.1	20.5	22.0	22.4	22.7	23.0	23.4	23.7	24.1
United Arab Emirates	21.8	24.5	27.7	28.3	29.0	29.7	30.3	31.0	31.7
United Kingdom of Great Britain and Northern Ireland	18.6	21.4	24.2	24.8	25.4	26.0	26.6	27.2	27.8
United Republic of Tanzania	3.8	4.9	6.3	6.6	6.9	7.3	7.6	8.0	8.4
United States of America	25.5	29.0	32.3	33.0	33.6	34.3	34.9	35.6	36.2
Uruguay	20.6	22.8	25.1	25.5	26.0	26.5	27.0	27.5	27.9
Uzbekistan	9.8	11.4	13.5	13.9	14.4	14.9	15.4	16.0	16.6
Vanuatu	15.6	18.4	21.3	22.0	22.6	23.2	23.9	24.5	25.2
Venezuela (Bolivarian Republic of)	19.4	21.4	23.3	23.7	24.0	24.4	24.8	25.2	25.6
Viet Nam	0.6	0.9	1.4	1.5	1.6	1.7	1.8	2.0	2.1
Yemen	8.8	11.0	13.5	14.1	14.6	15.2	15.9	16.5	17.1
Zambia	4.2	5.1	6.3	6.5	6.8	7.1	7.4	7.7	8.1
Zimbabwe	10.5	12.2	13.8	14.1	14.3	14.6	14.9	15.2	15.5

Source: FAO. 2023. Suite of Food Security Indicators. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/FS

CHAPTER 4: SUSTAINABILITY AND ENVIRONMENTAL ASPECTS OF AGRICULTURE

TABLE 49.
LAND AREA BY TYPE (THOUSAND HA)

COUNTRY	FOREST LAND			AGRICULTURAL LAND			OTHER LAND		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
World	4 158 049.5	4 106 316.9	4 053 906.6	4 873 695.4	4 784 225.5	4 787 551.8	3 973 049.8	4 105 603.4	4 143 009.0
Africa	710 048.8	676 015.4	632 642.3	1 087 328.2	1 129 492.6	1 161 738.7	1 167 445.4	1 174 249.2	1 197 789.8
Americas	1 674 994.0	1 624 344.3	1 594 392.1	1 151 573.0	1 136 374.6	1 124 683.2	1 041 340.5	1 105 648.8	1 127 576.8
Asia	587 410.0	610 959.9	623 951.5	1 680 181.3	1 660 551.5	1 664 793.0	841 923.5	838 830.1	822 224.2
Europe	1 002 268.2	1 013 982.4	1 017 684.9	484 630.4	467 738.4	460 180.1	727 015.3	731 531.0	730 954.1
Oceania	183 328.4	181 015.0	185 235.9	469 982.4	390 068.4	376 156.8	195 325.0	255 344.4	264 464.1
Afghanistan	1 208.4	1 208.4	1 208.4	37 794.0	37 917.0	38 313.0	26 220.6	26 097.6	25 701.6
Albania	769.3	782.1	788.9	1 144.0	1 201.3	1 136.3	826.7	756.6	814.8
Algeria	1 579.0	1 918.0	1 958.3	40 021.0	41 374.0	41 316.1	196 574.0	194 882.0	194 899.7
Andorra	16.0	16.0	16.0	23.0	19.8	18.8	8.0	11.2	12.2
Angola	77 708.6	72 158.0	66 052.3	44 523.0	44 850.0	45 897.0	2 438.4	7 662.0	12 720.7
Antigua and Barbuda	9.5	8.8	8.1	9.0	9.0	9.0	25.6	26.2	26.9
Argentina	33 378.0	30 214.0	28 463.7	128 510.0	126 267.9	117 957.8	111 781.0	117 187.1	127 247.6
Armenia	332.6	330.6	328.3	1 323.0	1 735.0	1 674.8	1 191.4	781.4	476.7
Australia	131 814.1	129 546.1	134 005.1	455 469.0	376 372.0	363 519.0	180 946.9	240 103.9	247 931.9
Austria	3 838.1	3 863.2	3 902.7	2 940.2	2 779.2	2 597.5	1 473.7	1 609.6	1 751.8
Azerbaijan	987.2	1 032.5	1 143.3	4 740.4	4 766.8	4 780.6	2 532.9	2 466.3	2 341.1
Bahamas	509.9	509.9	509.9	11.0	12.0	13.0	480.1	479.1	478.1
Bahrain	0.4	0.5	0.7	9.9	8.9	8.1	60.7	66.8	69.1
Bangladesh	1 920.3	1 888.3	1 883.4	9 400.0	9 241.0	10 068.0	1 696.7	1 887.7	1 065.6
Barbados	6.3	6.3	6.3	18.0	15.0	10.0	18.7	21.7	26.7
Belarus	8 273.0	8 630.0	8 782.1	9 252.0	8 898.0	8 174.0	2 759.8	2 762.2	3 336.9
Belgium	667.3	689.9	689.3	1 389.6	1 355.7	1 365.7	971.1	982.4	973.0
Belize	1 459.3	1 391.4	1 265.9	149.0	157.0	182.0	672.7	732.6	833.1
Benin	4 135.2	3 635.2	3 085.2	3 195.0	3 650.0	3 950.0	3 945.9	3 990.9	4 240.9
Bhutan	2 606.0	2 705.3	2 727.1	578.0	520.0	513.0	796.0	586.4	573.9
Bolivia (Plurinational State of)	55 101.4	53 086.0	50 620.8	37 143.0	37 452.5	38 119.4	16 085.6	17 791.5	19 589.9
Bosnia and Herzegovina	2 111.7	2 102.7	2 187.9	2 130.0	2 144.0	2 263.0	878.4	873.3	669.1
Botswana	17 620.7	16 437.7	15 136.4	25 951.0	25 861.0	25 862.0	13 101.3	14 374.3	15 674.6
Brazil	551 088.6	511 580.7	495 391.4	228 323.5	231 834.2	239 369.6	56 401.9	92 399.1	101 053.1
Brunei Darussalam	397.0	380.0	380.0	12.0	13.4	13.4	118.0	133.6	133.6
Bulgaria	3 375.0	3 737.0	3 906.0	5 582.0	5 052.0	5 046.6	2 106.0	2 067.0	1 903.4
Burkina Faso	7 216.5	6 716.5	6 166.4	10 163.0	11 242.0	12 740.0	9 980.5	9 401.5	8 453.6
Burundi	193.9	193.9	279.6	1 867.0	1 833.0	2 103.0	507.1	541.1	185.4
Cabo Verde	39.7	42.7	46.0	72.0	78.0	79.0	291.3	282.3	278.0
Cambodia	10 781.0	10 589.2	7 912.7	4 770.0	5 403.0	6 099.1	2 101.0	1 659.8	3 640.2
Cameroon	21 597.5	20 900.5	20 284.5	9 160.0	9 700.0	9 750.0	16 513.5	16 670.5	17 236.5
Canada	347 802.0	347 322.2	346 891.1	61 287.0	58 280.0	56 991.0	487 470.0	490 956.8	473 548.9
Central African Republic	22 903.0	22 603.0	22 273.0	4 952.0	4 907.0	4 910.0	34 443.0	34 788.0	35 115.0
Chad	6 353.0	5 530.0	4 201.3	48 630.0	49 235.0	50 338.0	70 937.0	71 155.0	71 380.7

TABLE 49.
LAND AREA BY TYPE (THOUSAND HA) (CONTINUED)

COUNTRY	FOREST LAND			AGRICULTURAL LAND			OTHER LAND		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Chile	15 817.1	16 725.3	18 333.6	15 110.0	14 631.4	10 595.5	43 426.1	42 996.5	45 190.4
China	177 000.6	200 610.4	221 857.8	523 731.0	528 280.8	521 486.0	241 738.5	213 578.9	199 126.6
Colombia	62 735.5	60 807.8	58 942.6	44 859.0	42 503.0	42 718.0	3 355.5	7 639.2	9 289.4
Comoros	41.7	37.3	32.5	128.0	133.0	133.0	16.4	15.8	20.6
Congo	22 195.0	22 075.0	21 931.0	10 540.0	10 576.0	10 678.0	1 415.0	1 499.0	1 541.0
Costa Rica	2 857.2	2 871.2	3 051.2	1 840.0	1 819.0	1 811.0	408.8	415.8	243.8
Côte d'Ivoire	5 094.5	3 965.6	2 723.8	19 600.0	20 600.0	23 500.0	7 105.6	7 234.4	5 576.2
Croatia	1 885.0	1 920.0	1 941.6	1 169.0	1 333.8	1 476.0	2 537.2	2 342.6	2 036.4
Cuba	2 435.0	2 932.0	3 242.0	6 554.0	6 461.2	6 401.0	1 751.0	1 250.8	737.0
Cyprus	171.6	172.8	172.5	141.5	114.5	123.1	610.9	636.7	627.9
Czechia	2 637.3	2 657.4	2 678.9	4 280.0	3 523.9	3 529.8	809.7	1 541.7	1 510.0
Democratic People's Republic of Korea	6 454.7	6 242.4	6 008.9	2 550.0	2 680.0	2 595.0	3 036.3	3 118.6	3 437.1
Democratic Republic of the Congo	143 899.0	137 169.0	125 053.9	25 600.0	28 429.0	33 898.0	57 206.0	61 107.0	67 753.1
Denmark	571.6	586.5	629.4	2 647.0	2 626.0	2 618.0	781.4	787.5	752.6
Djibouti	5.6	5.6	5.9	1 601.6	1 702.3	1 703.9	710.8	610.1	608.2
Dominica	47.9	47.9	47.9	21.0	25.0	25.0	6.1	2.1	2.1
Dominican Republic	1 972.5	2 073.1	2 152.2	2 515.0	2 397.0	2 429.0	343.5	360.9	171.9
Ecuador	13 730.5	13 028.2	12 433.6	8 066.0	7 497.7	5 470.0	3 039.5	4 310.1	6 932.4
Egypt	59.2	65.6	45.0	3 291.0	3 671.0	4 031.0	96 194.8	95 808.4	95 469.0
El Salvador	673.9	628.9	579.4	1 286.7	1 229.9	1 195.7	111.4	213.2	296.9
Equatorial Guinea	2 615.6	2 532.0	2 440.1	102.9	103.6	104.9	86.6	169.4	260.0
Eritrea	1 118.5	1 086.9	1 052.1	7 530.0	7 592.0	7 592.0	1 451.5	3 427.7	3 460.0
Estonia	2 238.9	2 336.0	2 438.4	986.0	948.8	987.0	1 014.1	954.2	849.6
Eswatini	473.3	485.4	498.8	1 223.0	1 221.0	1 195.0	23.7	13.5	26.2
Ethiopia	18 528.5	17 798.5	16 995.5	30 534.0	35 683.0	38 595.0	50 937.5	59 375.6	57 266.6
Fiji	1 006.5	1 073.2	1 146.7	371.8	319.1	311.6	448.7	434.7	368.7
Finland	22 445.6	22 242.0	22 409.0	2 218.0	2 291.9	2 268.0	5 795.4	5 856.1	5 717.8
France	15 288.0	16 419.0	17 336.4	29 807.4	28 926.3	28 553.8	9 661.3	9 410.4	8 865.5
Gabon	23 700.0	23 649.4	23 518.7	2 067.0	2 117.6	2 153.2	0.0	0.0	95.0
Gambia	357.3	300.0	236.9	506.0	644.0	634.0	148.7	68.0	141.1
Georgia	2 760.6	2 822.4	2 822.4	3 000.0	2 460.0	2 379.9	1 188.4	1 666.6	1 746.7
Germany	11 354.0	11 409.0	11 419.0	17 068.0	16 700.0	16 591.0	6 473.0	6 748.0	5 280.0
Ghana	8 848.6	7 942.9	7 992.9	12 765.5	12 400.4	12 603.7	1 139.9	2 410.6	2 156.6
Greece	3 600.2	3 901.8	3 901.8	8 529.0	7 489.0	5 867.2	760.8	1 499.2	3 113.8
Grenada	17.7	17.7	17.7	12.0	10.0	8.0	4.3	6.3	8.3
Guatemala	4 209.2	3 722.6	3 516.2	4 761.7	4 317.2	4 612.0	1 745.1	2 676.2	2 587.8
Guinea	6 929.0	6 569.0	6 149.0	14 079.0	14 300.0	14 638.0	3 564.0	3 703.0	3 785.0
Guinea-Bissau	2 148.9	2 064.4	1 971.6	663.1	747.6	815.1	0.0	0.0	25.3
Guyana	18 564.2	18 519.8	18 406.1	1 030.7	1 042.0	1 043.0	90.1	123.2	235.9
Haiti	380.7	378.4	344.2	1 690.0	1 984.0	1 795.0	685.4	393.6	616.8

TABLE 49.
LAND AREA BY TYPE (THOUSAND HA) (CONTINUED)

COUNTRY	FOREST LAND			AGRICULTURAL LAND			OTHER LAND		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Honduras	6 778.3	6 575.5	6 338.3	2 935.0	3 268.0	3 576.0	1 475.7	1 345.5	1 274.7
Hungary	1 921.2	2 046.4	2 051.6	5 854.0	5 343.0	5 043.7	1 186.8	1 663.6	2 025.3
Iceland	29.8	44.7	52.0	1 889.0	1 874.0	1 872.0	8 106.2	8 106.3	8 159.0
India	67 591.0	69 496.0	72 426.4	180 975.0	179 573.0	178 527.9	48 753.0	48 250.0	46 364.7
Indonesia	101 280.0	99 659.2	91 527.7	47 177.0	55 380.0	64 600.0	39 294.9	32 712.7	33 127.9
Iran (Islamic Republic of)	9 325.7	10 692.0	10 765.6	62 884.0	46 539.4	47 067.0	90 666.3	105 644.6	104 417.4
Iraq	818.0	825.0	825.0	8 500.0	8 220.0	9 424.0	34 419.0	34 387.0	33 163.8
Ireland	630.4	720.4	786.0	4 396.2	4 568.0	4 337.0	1 862.5	1 600.6	1 766.0
Israel	153.0	154.0	140.0	566.0	504.5	643.5	1 445.0	1 505.5	1 380.5
Italy	8 369.3	9 028.0	9 619.9	15 637.0	14 327.8	12 403.0	5 565.6	6 216.0	7 548.7
Jamaica	521.0	558.5	600.8	479.0	421.3	417.0	83.0	103.3	65.2
Japan	24 876.0	24 966.0	24 935.0	5 258.0	4 953.0	4 659.0	6 316.0	6 531.0	6 856.0
Jordan	97.5	97.5	97.5	1 069.0	1 002.3	1 023.0	7 657.5	7 778.2	7 758.9
Kazakhstan	3 156.9	3 082.2	3 483.9	215 393.3	217 161.8	213 795.9	51 419.8	49 726.0	52 690.2
Kenya	3 961.2	3 616.3	3 611.1	26 671.0	27 310.0	27 710.0	26 281.8	25 987.7	25 592.9
Kiribati	1.2	1.2	1.2	34.0	34.0	34.0	45.8	45.8	45.8
Kuwait	4.9	6.3	6.3	148.0	152.0	150.0	1 629.2	1 623.8	1 625.8
Kyrgyzstan	1 180.9	1 229.7	1 333.6	10 714.0	10 611.9	10 366.1	7 285.1	7 338.4	7 480.3
Lao People's Democratic Republic	17 425.0	16 940.5	16 561.0	1 806.0	2 220.0	2 031.0	3 849.0	3 919.5	4 488.0
Latvia	3 241.0	3 372.1	3 414.7	1 588.0	1 805.0	1 970.0	1 393.7	1 045.6	838.3
Lebanon	138.2	137.4	143.9	595.0	640.0	679.3	289.8	245.7	199.8
Lesotho	34.5	34.5	34.5	2 334.0	2 326.0	2 433.0	667.5	675.5	568.5
Liberia	8 222.6	7 920.0	7 587.2	1 367.1	1 667.0	1 923.0	42.2	44.9	121.8
Libya	217.0	217.0	217.0	15 450.0	15 351.0	15 350.0	160 287.0	160 386.0	160 387.0
Lithuania	2 020.0	2 170.0	2 202.7	3 418.0	2 772.3	2 937.8	830.0	1 325.2	1 120.5
Luxembourg	86.7	88.7	88.7	128.0	131.0	132.8	42.7	37.7	35.9
Madagascar	13 030.7	12 562.0	12 416.6	40 500.0	40 895.0	40 895.0	4 623.3	4 697.0	4 868.4
Malawi	3 081.7	2 661.7	2 199.7	4 730.0	5 485.0	6 050.0	1 616.3	1 281.3	1 178.3
Malaysia	19 691.4	18 947.7	19 063.9	6 938.7	7 389.3	8 571.0	6 225.0	6 518.1	5 204.6
Maldives	0.8	0.8	0.8	9.0	6.9	5.9	20.2	22.3	23.3
Mali	13 296.0	13 296.0	13 296.0	38 665.0	41 051.0	43 131.0	70 058.0	67 672.0	65 592.0
Malta	0.4	0.4	0.5	9.0	10.3	8.8	22.7	21.3	20.8
Marshall Islands	9.4	9.4	9.4	8.5	8.5	7.0	0.1	0.1	1.6
Mauritania	421.6	367.2	307.4	39 710.0	39 710.0	39 710.0	62 938.4	62 992.8	63 052.6
Mauritius	41.9	38.4	38.8	101.0	91.0	86.0	60.1	73.6	74.9
Mexico	68 381.4	66 943.3	65 564.3	106 330.0	101 807.0	97 126.0	19 683.7	25 644.7	31 704.7
Micronesia (Federated States of)	63.9	64.1	64.5	5.5	5.0	5.0	0.6	0.9	0.6
Mongolia	14 263.9	14 183.9	14 171.7	130 470.0	114 210.0	112 631.2	10 010.0	27 335.3	28 858.9
Montenegro		827.0	827.0		512.0	255.6		6.0	262.4
Morocco	5 506.5	5 674.6	5 753.0	30 652.0	29 988.3	30 291.0	8 471.5	8 967.1	8 586.0

TABLE 49.
LAND AREA BY TYPE (THOUSAND HA) (CONTINUED)

COUNTRY	FOREST LAND			AGRICULTURAL LAND			OTHER LAND		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Mozambique	41 188.0	38 972.1	36 497.6	37 450.0	39 665.9	41 413.8	0.0	0.0	726.6
Myanmar	34 868.1	31 441.0	28 254.2	10 812.0	12 526.0	12 980.0	19 673.9	21 359.0	24 032.8
Namibia	8 059.1	7 349.0	6 567.9	38 820.0	38 809.0	38 812.0	35 449.9	36 171.0	36 949.1
Nauru	0.0	0.0	0.0	0.4	0.4	0.4	1.6	1.6	1.6
Nepal	5 780.8	5 962.0	5 962.0	4 249.1	4 126.0	4 121.0	4 305.1	4 247.0	4 252.0
Netherlands (Kingdom of the)	359.5	373.5	370.4	1 959.6	1 872.3	1 812.0	1 056.9	1 127.2	1 184.6
New Zealand	9 850.4	9 848.1	9 908.5	12 339.7	11 408.0	10 175.0	4 140.8	5 074.9	6 247.5
Nicaragua	5 399.3	4 188.2	3 307.5	5 141.0	5 050.0	5 091.0	1 493.7	2 795.9	3 635.5
Niger	1 328.1	1 203.9	1 067.3	37 000.0	43 982.0	46 595.0	88 341.9	81 484.1	79 007.7
Nigeria	24 893.0	23 260.0	21 463.7	65 508.0	66 994.0	68 644.0	676.0	823.0	969.4
North Macedonia	957.6	960.4	1 001.5	1 235.0	1 119.0	1 260.0	350.5	442.6	260.5
Norway	12 113.0	12 102.0	12 187.8	1 042.0	1 005.9	985.0	23 369.4	23 416.5	23 254.2
Oman	3.0	3.0	2.4	1 173.0	1 443.2	1 466.2	29 774.0	29 503.8	29 481.3
Pakistan	4 511.3	4 093.7	3 684.6	36 698.0	35 242.0	36 303.0	35 878.7	37 752.3	37 100.4
Palau	39.6	40.6	41.5	4.3	4.3	4.3	2.1	1.1	0.2
Panama	4 442.1	4 328.0	4 202.4	2 230.0	2 266.4	2 181.3	761.9	839.6	1 034.3
Papua New Guinea	36 278.0	36 178.9	35 822.2	1 088.0	1 267.0	1 441.0	7 920.0	7 840.1	8 022.8
Paraguay	22 991.7	19 570.2	15 822.9	15 095.1	16 045.1	16 809.1	1 643.2	4 114.7	7 097.9
Peru	75 297.8	74 049.8	72 157.5	23 231.3	24 794.3	25 515.7	29 470.9	29 155.9	30 326.8
Philippines	7 309.3	6 839.7	7 223.5	11 234.0	12 100.0	12 683.0	11 273.7	10 877.3	9 910.5
Poland	9 059.0	9 329.0	9 495.0	18 413.0	14 449.0	14 499.5	3 157.0	6 850.0	6 395.5
Portugal	3 281.0	3 252.0	3 312.0	3 956.4	3 654.2	3 962.3	1 912.6	2 252.8	727.1
Qatar	0.0	0.0	0.0	66.0	68.1	74.0	1 095.0	1 092.9	1 075.0
Republic of Korea	6 476.0	6 387.0	6 277.0	1 973.0	1 773.0	1 603.0	1 197.0	1 560.0	1 880.0
Republic of Moldova	344.4	374.5	386.5	2 544.0	2 465.0	2 275.0	399.6	445.5	611.5
Romania	6 366.0	6 515.0	6 929.1	14 857.0	14 156.0	13 079.0	1 748.0	2 334.0	3 000.0
Russian Federation	809 268.5	815 135.6	815 311.6	217 162.0	215 494.0	215 494.0	611 703.5	607 057.4	606 881.4
Rwanda	287.0	265.0	277.0	1 826.0	1 922.0	2 004.5	354.0	280.0	185.5
Saint Kitts and Nevis	11.0	11.0	11.0	9.5	5.7	6.0	5.5	9.3	9.0
Saint Lucia	21.0	20.8	20.8	14.2	9.9	9.9	25.8	30.3	30.3
Saint Vincent and the Grenadines	28.5	28.5	28.5	7.0	7.0	7.0	3.5	3.5	3.5
Samoa	171.3	166.5	161.2	48.0	41.5	49.4	63.7	75.0	67.4
San Marino	1.0	1.0	1.0	1.0	1.0	2.3	4.0	4.0	2.7
Sao Tome and Principe	58.4	58.1	51.3	36.0	33.0	42.0	1.6	4.9	2.7
Saudi Arabia	977.0	977.0	977.0	173 785.0	173 406.0	173 637.0	40 207.0	40 586.0	40 355.0
Senegal	8 853.2	8 468.2	8 028.2	9 027.0	9 278.0	9 511.0	1 372.8	1 506.8	1 713.8
Serbia		2 713.0	2 722.9		3 521.6	3 485.0		2 511.4	2 180.1
Seychelles	33.7	33.7	33.7	4.0	2.4	1.6	8.3	9.9	10.8
Sierra Leone	2 929.4	2 732.2	2 515.2	2 810.0	3 930.4	3 949.0	1 478.6	555.5	753.9
Singapore	17.0	17.7	15.4	1.2	0.7	0.7	48.8	51.7	55.8

TABLE 49.
LAND AREA BY TYPE (THOUSAND HA) (CONTINUED)

COUNTRY	FOREST LAND			AGRICULTURAL LAND			OTHER LAND		
	2000	2010	2021	2000	2010	2021	2000	2010	2021
Slovakia	1 901.4	1 917.9	1 925.9	2 440.0	1 944.7	1 856.0	468.6	946.5	1 004.1
Slovenia	1 233.0	1 247.0	1 235.8	518.0	623.9	611.0	263.0	143.8	162.6
Solomon Islands	2 537.6	2 530.3	2 522.2	76.0	108.0	120.0	185.4	160.7	156.8
Somalia	7 515.0	6 747.5	5 903.3	44 067.0	44 126.0	44 129.0	11 152.0	11 860.5	12 701.8
South Africa	17 778.1	17 414.1	17 013.7	98 125.0	96 891.0	96 341.0	5 405.9	7 003.9	7 954.3
South Sudan			7 157.0			28 252.7			27 783.3
Spain	17 093.9	18 545.3	18 576.5	29 766.0	27 545.0	26 228.4	3 040.1	3 910.7	5 168.4
Sri Lanka	2 166.4	2 103.6	2 109.9	2 350.0	2 620.0	2 812.0	1 754.6	1 547.4	1 247.1
Sudan			18 187.4			112 664.8			55 947.8
Suriname	15 340.9	15 299.9	15 184.0	88.0	78.3	78.0	171.1	221.8	338.0
Sweden	28 163.0	28 073.0	27 980.0	2 974.1	3 073.7	3 002.9	9 596.9	9 587.3	9 745.4
Switzerland	1 196.2	1 234.7	1 272.6	1 565.8	1 534.4	1 499.4	1 190.4	1 182.2	1 149.7
Syrian Arab Republic	432.1	492.1	522.1	13 711.0	13 908.0	13 913.4	4 234.9	3 962.9	3 927.5
Tajikistan	410.0	410.0	424.8	4 573.0	4 755.7	4 917.0	9 013.0	8 830.3	8 537.2
Thailand	18 998.0	20 073.0	19 837.0	21 895.0	22 824.0	23 500.0	10 196.0	8 192.0	7 752.0
Timor-Leste	949.1	935.1	919.7	337.0	338.0	341.4	200.9	213.9	225.9
Togo	1 268.5	1 238.9	1 206.3	3 400.0	3 665.0	3 820.0	770.5	535.1	412.7
Tonga	9.0	9.0	9.0	30.0	32.0	35.0	33.1	31.1	28.1
Trinidad and Tobago	236.7	232.4	227.8	67.0	54.0	54.0	209.4	226.6	231.2
Tunisia	667.9	687.4	704.3	9 551.0	10 038.0	9 700.5	5 317.2	4 810.6	5 131.2
Türkiye	20 148.4	21 083.1	22 376.4	40 479.0	39 012.0	38 089.0	16 335.7	16 867.9	16 497.6
Turkmenistan	4 127.0	4 127.0	4 127.0	35 500.0	34 000.0	33 838.0	7 366.0	8 866.0	9 028.0
Tuvalu	1.0	1.0	1.0	2.0	1.8	1.8	0.0	0.2	0.2
Uganda	3 163.0	2 750.4	2 296.6	12 512.0	14 265.0	14 415.0	4 306.1	3 036.6	3 340.4
Ukraine	9 510.0	9 548.0	9 696.0	41 406.0	41 267.0	41 311.0	7 019.0	7 117.0	6 352.0
United Arab Emirates	309.4	317.3	317.3	547.0	392.3	391.6	6 245.6	6 392.4	6 372.6
United Kingdom of Great Britain and Northern Ireland	2 954.0	3 059.0	3 198.7	16 964.0	17 224.0	17 215.1	4 275.0	3 910.0	3 439.6
United Republic of Tanzania	53 670.0	49 950.0	45 276.0	34 000.0	37 399.0	39 521.2	910.0	1 231.0	3 782.8
United States of America	303 536.0	308 720.0	309 795.0	414 399.0	406 991.7	405 810.4	198 257.0	199 030.3	199 136.6
Uruguay	1 369.0	1 731.3	2 052.0	14 958.0	14 433.0	14 069.6	1 175.0	1 337.7	1 380.4
Uzbekistan	2 961.5	3 349.6	3 715.5	27 328.0	25 598.0	25 690.6	13 307.0	14 641.6	14 659.2
Vanuatu	442.3	442.3	442.3	175.0	187.0	187.0	601.7	589.7	589.7
Venezuela (Bolivarian Republic of)	49 151.0	47 505.0	46 173.4	21 635.0	21 500.0	21 500.0	17 419.0	19 200.0	20 531.6
Viet Nam	11 784.1	13 388.1	14 719.0	8 780.0	10 760.1	12 360.0	10 541.9	7 181.2	4 263.9
Yemen	549.0	549.0	549.0	23 669.0	23 579.0	23 452.0	28 579.0	28 669.0	28 796.0
Zambia	47 054.0	46 696.0	44 625.8	22 526.0	23 436.0	23 839.0	4 759.0	4 207.0	5 874.2
Zimbabwe	18 366.0	17 905.3	17 398.5	15 060.0	16 200.0	16 200.0	5 259.0	4 579.7	5 086.5

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 50.
SHARE OF FOREST AREA IN TOTAL LAND AREA (PERCENT)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
World	32.0	31.7	31.5	31.3	31.3	31.2	31.2	31.2	31.2
Africa	24.0	23.3	22.7	21.9	21.7	21.5	21.4	21.3	21.1
Americas	43.3	42.7	42.0	41.7	41.5	41.4	41.4	41.3	41.4
Asia	18.9	19.3	19.6	19.8	19.9	19.9	20.0	20.0	20.1
Europe	45.3	45.5	45.8	45.9	45.9	46.0	46.0	46.0	46.0
Oceania	21.6	21.5	21.3	21.7	21.8	21.8	21.8	21.8	21.8
Afghanistan	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Albania	28.1	28.3	28.5	28.8	28.8	28.8	28.8	28.8	28.8
Algeria	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Andorra	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
Angola	62.3	60.1	57.9	55.7	54.8	54.3	53.9	53.4	53.0
Antigua and Barbuda	21.5	20.7	20.0	19.2	18.9	18.8	18.6	18.5	18.3
Argentina	12.2	11.6	11.0	10.6	10.6	10.5	10.5	10.4	10.4
Armenia	11.7	11.7	11.6	11.6	11.6	11.6	11.5	11.5	11.5
Australia	17.2	17.0	16.9	17.3	17.4	17.4	17.4	17.4	17.4
Austria	46.5	46.7	46.8	47.0	47.1	47.2	47.2	47.3	47.3
Azerbaijan	12.0	12.2	12.5	13.0	13.3	13.4	13.6	13.7	13.8
Bahamas	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
Bahrain	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9
Bangladesh	14.8	14.6	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Barbados	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Belarus	40.8	41.7	42.5	42.5	43.0	43.1	43.1	43.2	43.3
Belgium	22.0	22.4	22.8	22.8	22.8	22.8	22.8	22.8	22.8
Belize	64.0	62.5	61.0	58.4	57.5	57.0	56.5	56.0	55.5
Benin	36.7	34.5	32.2	30.0	29.1	28.7	28.3	27.8	27.4
Bhutan	65.5	69.7	71.0	71.2	71.3	71.4	71.4	71.5	71.5
Bolivia (Plurinational State of)	50.9	49.9	49.0	48.0	47.5	47.3	47.1	46.9	46.7
Bosnia and Herzegovina	41.2	41.2	41.1	42.2	42.7	42.7	42.7	42.7	42.7
Botswana	31.1	30.1	29.0	28.0	27.5	27.3	27.1	26.9	26.7
Brazil	65.9	63.6	61.2	60.3	59.8	59.7	59.6	59.4	59.3
Brunei Darussalam	75.3	73.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1
Bulgaria	30.5	32.7	34.4	35.3	35.5	35.6	35.7	35.9	36.0
Burkina Faso	26.4	25.5	24.6	23.6	23.3	23.1	22.9	22.7	22.5
Burundi	7.6	7.6	7.6	10.9	10.9	10.9	10.9	10.9	10.9
Cabo Verde	9.9	10.2	10.6	11.0	11.1	11.2	11.3	11.3	11.4
Cambodia	61.1	60.5	60.0	50.1	48.4	47.5	46.6	45.7	44.8
Cameroon	45.7	45.0	44.2	43.6	43.4	43.3	43.2	43.0	42.9
Canada	38.8	38.8	38.7	38.7	38.7	38.7	38.7	38.7	39.5
Central African Republic	36.8	36.5	36.3	36.0	35.9	35.9	35.9	35.8	35.8
Chad	5.1	4.7	4.4	3.9	3.7	3.6	3.5	3.4	3.3
Chile	21.3	21.9	22.5	23.7	24.0	24.2	24.3	24.5	24.7
China	18.8	20.0	21.3	22.3	22.7	22.9	23.1	23.3	23.5
Colombia	56.5	55.7	54.8	54.2	53.8	53.7	53.5	53.3	53.1
Comoros	22.4	21.2	20.0	18.9	18.4	18.2	17.9	17.7	17.5

TABLE 50.
SHARE OF FOREST AREA IN TOTAL LAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Congo	65.0	64.8	64.6	64.5	64.4	64.4	64.3	64.3	64.2
Costa Rica	56.0	56.1	56.2	57.8	58.5	58.8	59.1	59.4	59.8
Côte d'Ivoire	16.0	14.3	12.5	10.7	10.0	9.6	9.3	8.9	8.6
Croatia	33.7	34.0	34.3	34.3	34.5	34.6	34.6	34.7	34.7
Cuba	22.7	25.2	27.6	30.6	31.2	31.2	31.2	31.2	31.2
Cyprus	18.6	18.6	18.7	18.7	18.7	18.7	18.7	18.7	18.7
Czechia	34.1	34.3	34.4	34.6	34.6	34.6	34.7	34.7	34.7
Democratic People's Republic of Korea	53.6	52.7	51.8	51.0	50.6	50.4	50.3	50.1	49.9
Democratic Republic of the Congo	63.5	62.0	60.5	58.1	57.1	56.6	56.1	55.7	55.2
Denmark	14.3	14.5	14.7	15.6	15.6	15.7	15.7	15.7	15.7
Djibouti	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Dominica	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
Dominican Republic	40.8	41.9	42.9	43.5	43.9	44.1	44.9	45.1	45.3
Ecuador	55.3	53.9	52.5	51.6	51.1	50.8	50.6	50.3	50.1
Egypt	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
El Salvador	32.5	31.4	30.4	29.3	28.8	28.6	28.4	28.2	28.0
Equatorial Guinea	93.3	91.8	90.3	88.8	88.2	87.9	87.6	87.3	87.0
Eritrea	11.1	9.1	9.0	8.9	8.8	8.8	8.7	8.7	8.7
Estonia	52.8	54.0	55.1	55.7	57.0	57.0	57.0	57.0	57.0
Eswatini	27.5	27.9	28.2	28.6	28.7	28.8	28.9	28.9	29.0
Ethiopia	18.5	16.1	15.8	15.5	15.3	15.3	15.2	15.1	15.1
Fiji	55.1	56.9	58.7	60.6	61.3	61.7	62.0	62.4	62.8
Finland	73.7	73.4	73.2	73.7	73.7	73.7	73.7	73.7	73.7
France	27.9	29.0	30.0	30.8	31.1	31.2	31.4	31.5	31.7
Gabon	92.0	91.9	91.8	91.6	91.5	91.4	91.4	91.3	91.3
Gambia	35.3	32.5	29.6	26.8	25.7	25.1	24.6	24.0	23.4
Georgia	39.7	40.2	40.6	40.6	40.6	40.6	40.6	40.6	40.6
Germany	32.5	32.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7
Ghana	38.9	36.9	34.9	34.6	35.0	35.0	35.1	35.1	35.1
Greece	27.9	29.1	30.3	30.3	30.3	30.3	30.3	30.3	30.3
Grenada	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
Guatemala	39.3	37.0	34.7	33.5	33.3	33.1	33.0	32.9	32.8
Guinea	28.2	27.5	26.7	26.0	25.7	25.5	25.4	25.2	25.0
Guinea-Bissau	76.4	74.9	73.4	71.9	71.3	71.0	70.7	70.4	70.1
Guyana	94.3	94.2	94.1	93.8	93.7	93.6	93.6	93.6	93.5
Haiti	13.8	13.8	13.7	13.2	12.9	12.8	12.7	12.6	12.5
Honduras	60.6	59.7	58.8	57.8	57.4	57.2	57.0	56.8	56.7
Hungary	21.4	22.1	22.6	22.6	22.5	22.5	22.5	22.5	22.5
Iceland	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
India	22.7	23.1	23.4	23.8	24.0	24.1	24.2	24.3	24.4
Indonesia	53.9	53.5	53.1	50.6	50.0	49.7	49.4	49.1	48.4
Iran (Islamic Republic of)	5.7	6.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Iraq	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Ireland	9.2	9.8	10.5	11.0	11.2	11.2	11.3	11.4	11.4

TABLE 50.
SHARE OF FOREST AREA IN TOTAL LAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Israel	7.1	7.1	7.1	7.6	6.5	6.5	6.5	6.5	6.5
Italy	28.3	29.4	30.5	31.4	31.8	32.0	32.2	32.4	32.5
Jamaica	48.1	49.8	51.6	53.3	54.0	54.4	54.8	55.1	55.5
Japan	68.3	68.4	68.5	68.4	68.4	68.4	68.4	68.4	68.4
Jordan	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Kazakhstan	1.2	1.2	1.1	1.2	1.3	1.3	1.3	1.3	1.3
Kenya	7.0	6.7	6.4	6.2	6.3	6.3	6.3	6.3	6.3
Kiribati	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Kuwait	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Kyrgyzstan	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
Lao People's Democratic Republic	75.5	74.5	73.4	72.7	72.4	72.2	72.1	71.9	71.8
Latvia	52.1	53.1	54.2	54.5	54.6	54.7	54.8	54.8	54.9
Lebanon	13.5	13.5	13.4	13.7	13.8	13.9	14.0	14.0	14.1
Lesotho	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Liberia	85.4	83.8	82.2	80.7	80.0	79.7	79.4	79.1	78.8
Libya	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Lithuania	32.2	33.4	34.6	34.9	35.1	35.1	35.1	35.2	35.2
Luxembourg	33.7	34.1	34.5	34.5	34.5	34.5	34.5	34.5	34.5
Madagascar	22.4	22.0	21.6	21.5	21.4	21.4	21.4	21.4	21.3
Malawi	32.7	30.5	28.2	26.0	25.1	24.7	24.2	23.8	23.3
Malaysia	59.9	58.8	57.7	59.2	58.6	58.5	58.3	58.2	58.0
Maldives	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Mali	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Malta	1.1	1.1	1.1	1.1	1.3	1.4	1.4	1.4	1.4
Marshall Islands	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
Mauritania	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Mauritius	20.7	19.8	18.9	19.2	19.4	19.4	19.4	19.4	19.4
Mexico	35.2	34.8	34.4	34.1	34.0	33.9	33.9	33.8	33.7
Micronesia (Federated States of)	91.2	91.4	91.6	91.8	91.9	91.9	92.0	92.0	92.1
Mongolia	9.2	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Montenegro			61.5	61.5	61.5	61.5	61.5	61.5	61.5
Morocco	12.3	12.5	12.7	12.7	12.8	12.8	12.8	12.9	12.9
Mozambique	52.4	51.0	49.6	48.3	47.6	47.3	47.0	46.7	46.4
Myanmar	53.4	50.7	48.1	45.9	45.1	44.6	44.2	43.7	43.3
Namibia	9.8	9.4	8.9	8.5	8.3	8.2	8.2	8.1	8.0
Nauru	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nepal	40.3	41.0	41.6	41.6	41.6	41.6	41.6	41.6	41.6
Netherlands (Kingdom of the)	10.7	10.9	11.1	10.8	10.9	10.9	11.0	11.0	11.0
New Zealand	37.4	37.4	37.4	37.4	37.4	37.4	37.5	37.6	37.6
Nicaragua	44.9	39.8	34.8	32.5	30.8	30.0	29.2	28.3	27.5
Niger	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8
Nigeria	27.3	26.4	25.5	24.6	24.3	24.1	23.9	23.8	23.6
North Macedonia	37.7	37.7	38.1	39.4	39.7	39.7	39.7	39.7	39.7
Norway	33.2	33.2	33.1	33.3	33.3	33.3	33.3	33.4	33.5

TABLE 50.
SHARE OF FOREST AREA IN TOTAL LAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Oman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	5.9	5.6	5.3	5.1	5.0	4.9	4.9	4.8	4.8
Palau	86.0	87.1	88.2	89.1	89.5	89.7	89.9	90.0	90.2
Panama	59.8	59.0	58.2	57.6	57.3	57.1	57.0	56.8	56.7
Papua New Guinea	80.1	80.0	79.9	79.6	79.4	79.3	79.3	79.2	79.1
Paraguay	57.9	53.6	49.3	44.0	42.6	41.9	41.2	40.5	39.8
Peru	58.8	58.3	57.9	57.2	56.9	56.8	56.6	56.5	56.4
Philippines	24.5	23.7	22.9	23.5	23.8	23.9	24.0	24.1	24.2
Poland	29.6	30.0	30.5	30.8	30.9	30.9	30.9	31.0	31.0
Portugal	35.9	35.7	35.5	36.2	36.2	36.2	36.2	36.2	36.2
Qatar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Republic of Korea	67.1	66.4	65.7	65.0	64.8	64.7	64.5	64.4	64.3
Republic of Moldova	10.5	10.9	11.4	11.8	11.8	11.8	11.8	11.8	11.7
Romania	27.7	28.0	28.3	30.0	30.1	30.1	30.1	30.1	30.1
Russian Federation	49.4	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8
Rwanda	11.6	11.2	10.7	10.9	11.1	11.1	11.2	11.2	11.2
Saint Kitts and Nevis	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
Saint Lucia	34.4	34.3	34.1	34.1	34.1	34.1	34.1	34.1	34.1
Saint Vincent and the Grenadines	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
Samoa	60.5	59.7	58.8	58.0	58.7	58.5	58.3	58.2	58.0
San Marino	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
Sao Tome and Principe	60.8	60.7	60.5	57.3	56.0	55.4	54.7	54.1	53.4
Saudi Arabia	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Senegal	46.0	45.0	44.0	42.9	42.5	42.3	42.1	41.9	41.7
Serbia			31.0	31.1	31.1	31.1	31.1	32.4	32.4
Seychelles	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
Sierra Leone	40.6	39.2	37.9	36.5	35.9	35.7	35.4	35.1	34.9
Singapore	25.4	25.2	25.3	23.2	22.6	22.3	22.0	21.7	21.4
Slovakia	39.5	39.7	39.9	40.0	40.1	40.1	40.1	40.1	40.1
Slovenia	61.2	61.6	61.9	62.0	61.8	61.7	61.6	61.5	61.4
Solomon Islands	90.7	90.5	90.4	90.3	90.2	90.2	90.2	90.1	90.1
Somalia	12.0	11.4	10.8	10.1	9.9	9.8	9.7	9.5	9.4
South Africa	14.7	14.5	14.4	14.2	14.2	14.1	14.1	14.1	14.0
South Sudan				11.3	11.3	11.3	11.3	11.3	11.3
Spain	34.3	35.7	37.1	37.1	37.2	37.2	37.2	37.2	37.2
Sri Lanka	34.6	34.1	33.6	34.4	34.3	34.3	34.2	34.2	34.1
Sudan				10.3	10.1	10.0	9.9	9.8	9.7
Suriname	98.3	98.2	98.1	97.8	97.7	97.6	97.5	97.4	97.3
Sweden	69.1	69.0	68.9	68.7	68.7	68.7	68.7	68.7	68.7
Switzerland	30.3	30.8	31.3	31.7	31.9	32.0	32.0	32.1	32.2
Syrian Arab Republic	2.4	2.5	2.7	2.8	2.8	2.8	2.8	2.8	2.8
Tajikistan	2.9	2.9	2.9	3.0	3.0	3.0	3.1	3.1	3.1
Thailand	37.2	38.2	39.3	39.3	39.1	39.0	39.0	38.9	38.8
Timor-Leste	63.8	63.4	62.9	62.4	62.3	62.1	62.0	61.9	61.9

TABLE 50.
SHARE OF FOREST AREA IN TOTAL LAND AREA (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2017	2018	2019	2020	2021
Togo	23.3	23.1	22.8	22.5	22.4	22.3	22.3	22.2	22.2
Tonga	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
Trinidad and Tobago	46.1	45.7	45.3	44.9	44.7	44.7	44.6	44.5	44.4
Tunisia	4.3	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5
Türkiye	26.2	26.8	27.4	28.1	28.3	28.5	28.7	28.9	29.1
Turkmenistan	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Tuvalu	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
Uganda	15.8	14.8	13.7	12.7	12.3	12.1	11.9	11.7	11.5
Ukraine	16.4	16.5	16.5	16.7	16.7	16.7	16.7	16.7	16.7
United Arab Emirates	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5
United Kingdom of Great Britain and Northern Ireland	12.2	12.4	12.6	13.0	13.1	13.1	13.2	13.2	13.2
United Republic of Tanzania	60.6	58.5	56.4	54.3	53.2	52.7	52.2	51.6	51.1
United States of America	33.1	33.4	33.8	33.9	33.9	33.9	33.9	33.9	33.9
Uruguay	7.8	8.9	9.9	11.0	11.2	11.4	11.5	11.6	11.7
Uzbekistan	6.8	7.2	7.7	8.1	8.2	8.3	8.3	8.4	8.4
Vanuatu	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
Venezuela (Bolivarian Republic of)	55.7	54.8	53.9	52.9	52.6	52.5	52.5	52.4	52.4
Viet Nam	37.9	40.2	42.7	44.9	46.0	46.2	46.5	46.7	47.0
Yemen	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Zambia	63.3	63.1	62.8	61.6	61.0	60.8	60.5	60.3	60.0
Zimbabwe	47.5	46.9	46.3	45.7	45.5	45.3	45.2	45.1	45.0

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 51.
PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP, 2021 (THOUSAND HA)

COUNTRY	CEREALS	OIL CROPS	FRUIT	ROOTS AND TUBERS	VEGETABLES	SUGAR CROPS	OTHER	TOTAL
World	739 419	337 542	66 482	66 410	58 034	30 862	166 278	1 465 028
Africa	123 433	50 387	14 266	40 357	10 133	1 816	49 200	289 593
Americas	132 447	122 671	9 107	4 102	3 204	14 150	22 526	308 206
Asia	342 433	117 256	35 343	17 284	41 371	11 524	84 874	650 085
Europe	120 935	43 408	7 147	4 339	3 151	2 963	6 974	188 916
Oceania	20 171	3 821	619	329	176	409	2 704	28 228
Afghanistan	2 165	142	317	53	168	2	139	2 985
Albania	134	50	37	10	35	1	28	295
Algeria	1 942	458	527	137	301	0	138	3 503
Andorra								
Angola	3 052	460	255	1 272	204	24	740	6 008
Antigua and Barbuda	0	1	1	0	0	0	0	2
Argentina	16 886	19 103	426	114	168	383	1 020	38 100
Armenia	69	0	55	21	25	4	4	179
Australia	20 046	2 998	282	33	74	362	2 475	26 271
Austria	747	178	53	23	16	38	22	1 077
Azerbaijan	988	127	137	56	68	5	73	1 454
Bahamas	0	0	2	1	3	2	0	10
Bahrain	0	0	3	0	0	0	0	4
Bangladesh	12 519	520	559	495	709	86	2 221	17 109
Barbados	0	0	1	0	1	2	1	4
Belarus	2 417	411	71	250	59	87	188	3 482
Belgium	310	9	20	90	67	55	23	573
Belize	32	13	14	0	2	42	14	116
Benin	1 639	1 187	58	623	120	2	632	4 263
Bhutan	23	1	4	6	6	0	12	51
Bolivia (Plurinational State of)	1 480	1 617	147	238	86	184	200	3 954
Bosnia and Herzegovina	317	13	130	34	138	0	20	652
Botswana	122	4	3	9	5	0	37	180
Brazil	25 057	41 410	2 086	1 404	350	9 971	6 272	86 550
Brunei Darussalam	1	0	2	1	6	0	4	14
Bulgaria	1 956	975	71	11	16	0	41	3 071
Burkina Faso	3 761	1 718	221	23	143	5	1 844	7 715
Burundi	309	31	197	428	52	3	862	1 882
Cabo Verde	28	2	1	1	1	3	31	66
Cambodia	3 419	240	104	294	100	131	400	4 687
Cameroon	2 273	1 057	445	785	674	132	1 582	6 948
Canada	15 184	11 694	89	154	92	18	3 497	30 727
Central African Republic	179	319	70	347	14	21	98	1 048
Chad	3 218	1 505	37	126	10	4	276	5 176
Chile	468	65	417	38	70	7	131	1 197
China	100 279	25 461	15 398	8 397	23 394	1 365	8 710	183 005
Colombia	958	587	840	259	113	426	1 222	4 405
Comoros	27	36	9	17	1	0	27	117

TABLE 51.
PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP, 2021 (THOUSAND HA) (CONTINUED)

COUNTRY	CEREALS	OIL CROPS	FRUIT	ROOTS AND TUBERS	VEGETABLES	SUGAR CROPS	OTHER	TOTAL
Congo	35	70	40	170	17	20	91	441
Costa Rica	36	90	198	18	8	59	114	523
Côte d'Ivoire	1 288	1 079	958	2 640	204	25	7 857	14 051
Croatia	520	182	40	9	7	10	22	789
Cuba	195	12	187	168	145	348	122	1 176
Cyprus	26	10	12	4	2	0	3	57
Czechia	1 346	442	31	23	9	61	48	1 960
Democratic People's Republic of Korea	1 323	185	241	195	273	0	474	2 691
Democratic Republic of the Congo	4 427	1 127	1 406	5 910	90	47	1 141	14 149
Denmark	1 360	162	4	56	11	33	32	1 659
Djibouti	0	0	1	0	5	0	61	67
Dominica	0	3	8	4	1	0	11	27
Dominican Republic	222	72	197	41	50	128	250	961
Ecuador	734	198	389	49	69	131	671	2 242
Egypt	3 127	305	697	285	639	318	144	5 514
El Salvador	371	13	19	6	6	80	259	753
Equatorial Guinea	0	9	14	49	0	0	19	92
Eritrea	477	87	1	16	15	0	51	647
Estonia	367	84	3	3	1	0	49	507
Eswatini	72	7	17	14	2	59	6	176
Ethiopia	10 800	828	178	242	326	26	3 258	15 658
Fiji	3	5	5	12	5	34	3	68
Finland	954	37	7	20	11	11	29	1 068
France	9 327	1 896	918	212	233	402	568	13 555
Gabon	30	48	62	113	10	5	17	285
Gambia	213	52	2	3	2	0	14	286
Georgia	159	4	145	16	13	0	41	379
Germany	6 053	1 086	172	258	108	391	236	8 304
Ghana	2 194	963	492	1 705	83	6	2 389	7 833
Greece	724	917	244	12	60	0	193	2 150
Grenada	0	2	4	1	1	0	3	11
Guatemala	918	266	211	27	107	242	723	2 494
Guinea	3 003	1 191	311	461	205	6	247	5 424
Guinea-Bissau	209	128	25	26	7	0	233	628
Guyana	153	15	9	4	3	21	7	212
Haiti	323	60	223	204	32	23	456	1 322
Honduras	391	223	41	11	13	60	510	1 249
Hungary	2 362	998	133	9	34	12	24	3 572
Iceland	2	0	0	0	0	0	0	3
India	102 435	44 561	7 376	2 537	8 897	5 159	43 642	214 606
Indonesia	13 908	18 585	874	876	1 198	520	8 912	44 873
Iran (Islamic Republic of)	9 073	434	1 187	88	323	174	996	12 276
Iraq	1 942	13	500	19	123	6	9	2 612
Ireland	275	11	1	9	4	0	10	309

TABLE 51.
PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP, 2021 (THOUSAND HA) (CONTINUED)

COUNTRY	CEREALS	OIL CROPS	FRUIT	ROOTS AND TUBERS	VEGETABLES	SUGAR CROPS	OTHER	TOTAL
Israel	76	41	85	17	76	0	6	301
Italy	2 978	1 550	1 126	47	332	28	298	6 359
Jamaica	2	18	31	17	18	10	18	114
Japan	1 753	154	177	124	370	80	93	2 752
Jordan	40	59	25	5	32	0	1	163
Kazakhstan	15 793	3 098	172	194	174	12	365	19 809
Kenya	2 668	259	240	345	195	92	2 176	5 975
Kiribati	0	29	2	0	0	0	0	32
Kuwait	2	0	4	1	5	0	0	12
Kyrgyzstan	590	36	60	75	57	10	122	950
Lao People's Democratic Republic	1 120	38	71	248	196	29	256	1 959
Latvia	768	148	8	7	2	0	48	982
Lebanon	61	69	66	24	29	0	23	272
Lesotho	171	0	4	7	4	0	12	198
Liberia	240	38	40	84	24	27	218	671
Libya	311	245	91	17	44	0	65	773
Lithuania	1 357	323	23	15	9	15	153	1 895
Luxembourg	26	2	1	1	0	0	0	31
Madagascar	1 729	142	253	525	49	97	432	3 226
Malawi	2 005	788	244	635	145	29	973	4 818
Malaysia	656	5 394	86	5	59	1	1 169	7 370
Maldives	0	0	0	0	2	0	1	4
Mali	6 119	1 352	192	58	202	10	635	8 568
Malta	0	0	0	1	0	0	0	1
Marshall Islands	0	7	0	0	0	0	0	7
Mauritania	244	5	14	4	1	0	98	366
Mauritius	0	1	2	1	6	42	1	52
Mexico	9 431	766	1 583	76	695	814	2 786	16 152
Micronesia (Federated States of)	0	18	1	1	0	0	0	21
Mongolia	433	99	3	21	11	0	3	571
Montenegro	2	0	7	1	1	0	1	14
Morocco	4 488	1 138	475	52	136	55	588	6 931
Mozambique	2 468	1 147	151	662	76	50	1 784	6 337
Myanmar	7 700	3 162	496	70	382	211	4 262	16 281
Namibia	384	1	12	44	7	0	20	468
Nauru	0	0	0	0	0	0	0	0
Nepal	3 465	283	148	231	306	64	427	4 924
Netherlands (Kingdom of the)	170	4	20	159	98	81	7	539
New Zealand	114	3	76	12	35	0	16	255
Nicaragua	384	96	50	39	7	76	425	1 077
Niger	9 702	1 107	105	42	279	10	6 148	17 392
Nigeria	18 276	11 479	1 947	17 634	4 142	85	6 826	60 389
North Macedonia	159	11	64	13	43	0	41	330
Norway	283	2	4	12	8	0	3	313

TABLE 51.
PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP, 2021 (THOUSAND HA) (CONTINUED)

COUNTRY	CEREALS	OIL CROPS	FRUIT	ROOTS AND TUBERS	VEGETABLES	SUGAR CROPS	OTHER	TOTAL
Oman	8	0	34	0	23	0	0	65
Pakistan	14 703	3 375	970	250	584	1 261	1 394	22 537
Palau								
Panama	155	20	35	6	5	36	43	300
Papua New Guinea	4	520	228	235	45	13	183	1 228
Paraguay	1 649	3 826	74	194	16	105	131	5 994
Peru	1 198	136	487	493	230	85	857	3 487
Philippines	7 370	3 752	1 323	327	768	420	675	14 634
Poland	7 451	1 049	351	236	136	251	342	9 816
Portugal	209	388	260	17	53	0	238	1 165
Qatar	0	0	3	0	3	0	0	6
Republic of Korea	798	115	176	45	230	0	70	1 433
Republic of Moldova	939	449	230	22	40	16	67	1 764
Romania	5 357	1 715	315	85	99	20	90	7 681
Russian Federation	43 457	16 261	681	1 142	490	994	2 153	65 178
Rwanda	539	91	304	433	109	8	768	2 253
Saint Kitts and Nevis	0	1	0	0	0	0	0	2
Saint Lucia	0	2	1	1	0	0	0	5
Saint Vincent and the Grenadines	0	1	7	1	0	0	2	11
Samoa	0	19	7	6	1	0	3	37
San Marino								
Sao Tome and Principe	0	2	5	3	0	0	31	42
Saudi Arabia	236	36	227	20	53	0	5	576
Senegal	1 897	1 300	133	111	87	12	314	3 854
Serbia	1 779	477	207	27	68	39	39	2 636
Seychelles	0	1	0	0	1	0	1	2
Sierra Leone	1 047	130	51	190	68	1	205	1 693
Singapore	0	0	0	0	1	0	0	1
Slovakia	718	290	12	6	7	22	13	1 067
Slovenia	102	11	19	3	6	0	3	144
Solomon Islands	1	69	2	15	0	0	19	106
Somalia	354	108	23	11	27	6	88	616
South Africa	3 857	1 500	328	100	149	279	111	6 324
South Sudan	995	972	87	120	61	0	44	2 279
Spain	6 035	3 436	1 554	63	338	30	1 240	12 695
Sri Lanka	1 234	494	112	30	170	14	654	2 708
Sudan	10 019	8 683	290	149	295	73	390	19 899
Suriname	57	1	3	0	1	2	0	65
Sweden	983	110	4	24	14	29	43	1 206
Switzerland	131	32	22	11	16	16	7	235
Syrian Arab Republic	3 065	751	253	26	104	0	478	4 678
Tajikistan	376	192	145	58	70	0	26	867
Thailand	12 735	1 183	1 020	1 500	359	1 495	3 814	22 106
Timor-Leste	84	15	4	18	20	0	32	173

TABLE 51.
PRIMARY CROPS HARVESTED AREA BY COMMODITY GROUP, 2021 (THOUSAND HA) (CONTINUED)

COUNTRY	CEREALS	OIL CROPS	FRUIT	ROOTS AND TUBERS	VEGETABLES	SUGAR CROPS	OTHER	TOTAL
Togo	1 211	313	10	433	29	0	516	2 512
Tonga	0	4	5	2	7	0	0	19
Trinidad and Tobago	3	2	14	1	2	0	9	33
Tunisia	1 155	1 297	262	25	119	2	375	3 235
Türkiye	10 918	2 443	1 342	139	677	289	2 527	18 334
Turkmenistan	727	626	64	40	23	17	12	1 509
Tuvalu	0	2	0	0	0	0	0	2
Uganda	1 387	1 030	2 070	1 218	240	85	1 410	7 439
Ukraine	15 649	9 060	274	1 283	461	227	331	27 286
United Arab Emirates	1	0	53	0	8	0	0	62
United Kingdom of Great Britain and Northern Ireland	3 211	348	29	137	123	95	316	4 259
United Republic of Tanzania	6 855	3 478	835	1 799	418	49	2 714	16 149
United States of America	54 745	41 165	1 067	441	829	828	2 413	101 487
Uruguay	736	1 039	28	12	8	7	7	1 838
Uzbekistan	1 520	1 072	396	98	222	0	44	3 351
Vanuatu	2	113	2	7	1	0	3	127
Venezuela (Bolivarian Republic of)	678	154	207	76	67	60	343	1 586
Viet Nam	8 122	413	796	642	1 003	166	2 471	13 613
Yemen	493	33	107	15	38	0	294	979
Zambia	1 566	753	28	176	55	49	223	2 850
Zimbabwe	1 322	356	45	76	35	47	241	2 123

Source: FAO. 2022. Production: Crops and livestock products. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/QCL

TABLE 52.
AREA UNDER ORGANIC AGRICULTURE (THOUSAND HA)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
World	21 891.6	29 211.1	35 803.8	50 967.8	69 540.8	71 116.6	72 236.7	75 138.8	76 666.4
Africa	624.2	952.9	1 023.6	1 682.5	2 031.7	2 006.8	2 123.6	2 280.9	2 654.7
Americas	3 214.4	7 090.4	10 178.5	9 765.0	11 242.5	11 545.1	12 056.9	13 845.9	13 632.5
Asia	211.8	2 837.1	3 271.4	4 483.4	6 665.4	6 980.7	6 462.9	6 534.3	6 863.4
Europe	5 764.2	6 567.8	9 545.1	12 198.4	13 785.4	14 654.5	15 712.1	16 570.1	17 571.3
Oceania	12 077.0	11 763.0	11 785.2	22 838.5	35 815.7	35 929.5	35 881.2	35 907.6	35 944.5
Afghanistan			0.1	0.1	0.3	0.8	0.8	0.1	0.1
Albania		1.2	4.2		0.6	0.7	0.6	0.9	1.1
Algeria	1.4	0.9	0.6	1.4	0.8	0.8	0.8	0.8	0.8
Andorra			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Angola			2.5						
Antigua and Barbuda									
Argentina	2 646.0	2 682.0	4 144.0	3 064.0	3 180.0	3 617.0	3 631.0	4 400.0	4 074.8
Armenia		0.3	0.8	1.8	1.4	0.7	0.6	0.6	0.6
Australia	12 077.0	11 716.0	11 641.7	22 690.0	35 645.0	35 687.8	35 687.8	35 687.8	35 687.8
Austria	460.8	479.8	543.6	552.1	620.7	639.1	671.7	680.0	680.8
Azerbaijan		20.3	21.5	37.6	37.6	37.6	37.6	38.1	38.1
Bahamas				0.1	0.1	0.1	0.1	0.1	0.1
Bahrain									
Bangladesh			0.8	6.9	8.1	2.2	2.2	0.5	0.5
Barbados									
Belarus						1.7	1.4	6.8	6.7
Belgium	23.8	24.4	49.0	68.8	83.5	89.0	93.1	99.1	101.8
Belize		1.8	1.2	0.8	0.4	0.2	0.1	0.5	0.7
Benin		0.3	1.2	2.4	18.9	16.5	15.2	34.5	48.9
Bhutan		0.2		6.9	6.6	6.6	6.6	4.1	5.6
Bolivia (Plurinational State of)		36.0	112.1	114.3	114.3	114.3	144.2	179.4	179.4
Bosnia and Herzegovina		0.4	0.6	0.6	1.3	0.9	1.7	1.7	2.5
Botswana									
Brazil		842.0	932.1	750.0	1 136.9	1 188.3	1 283.1	1 319.5	1 482.4
Brunei Darussalam									
Bulgaria		2.4	25.6	118.8	136.6	145.6	214.6	116.3	86.3
Burkina Faso		0.3	13.8	23.9	58.9	56.7	87.5	66.2	79.3
Burundi		0.3	0.4	0.2	0.1	0.2	0.1	0.3	0.5
Cabo Verde				0.5	0.5	0.5	0.5	0.0	
Cambodia		1.0	8.1	12.1	11.0	27.6	25.8	35.9	21.1
Cameroon			0.5	0.4	1.1	1.1	0.2	0.3	1.6
Canada	542.0	578.9	703.7	944.5	1 191.7	1 311.6	1 321.1	1 417.6	1 215.6
Central African Republic									
Chad									
Chile	21.2	22.9	31.7	20.0	19.7	17.4	20.9	156.8	152.8
China		2 301.3	1 393.0	1 616.5	3 029.5	3 143.8	2 225.5	2 445.8	2 765.5

TABLE 52.
AREA UNDER ORGANIC AGRICULTURE (THOUSAND HA) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
Colombia		45.7	40.0	31.6	31.6	22.3	30.5	39.4	100.9
Comoros			1.0	1.5	1.4	2.1	1.2	1.0	0.9
Congo									
Costa Rica		9.8	11.1	7.8	8.7	9.0	8.8	11.5	10.3
Côte d'Ivoire			18.1	40.1	50.4	50.6	66.7	79.1	78.8
Croatia	2.2	2.9	23.3	75.9	96.6	103.2	108.1	108.6	121.9
Cuba		15.4	2.1	4.3	6.2	6.2	2.4	2.1	2.1
Cyprus	1.0	1.7	3.6	4.7	5.6	6.0	6.2	5.9	7.7
Czechia	263.3	254.0	448.0	483.0	505.0	522.0	541.0	543.0	558.0
Democratic People's Republic of Korea									
Democratic Republic of the Congo			33.0	94.4	60.6	60.6	88.7	118.3	89.5
Denmark	154.9	134.1	162.9	176.4	234.0	266.0	295.0	304.0	308.0
Djibouti									
Dominica				0.2	0.2	0.2	0.2		2.9
Dominican Republic		72.4	167.9	164.0	205.3	169.0	134.4	117.3	117.3
Ecuador			65.0	45.8	41.8	41.8	47.8	41.5	52.2
Egypt		24.6	82.0	85.8	105.9	116.0	116.0	116.0	116.0
El Salvador		5.3	6.7	13.7	1.7	1.7	1.7	2.6	2.6
Equatorial Guinea									
Eritrea									
Estonia	45.0	58.4	121.0	155.8	196.4	206.6	220.7	220.8	226.6
Eswatini			0.0	0.6	0.2	0.2	0.8	1.2	3.5
Ethiopia			137.0	186.2	186.2	186.2	209.9	234.7	332.5
Fiji		0.1	0.1	10.9	16.6	41.2	22.6	19.3	30.2
Finland	162.0	147.0	169.0	225.0	258.7	297.4	306.5	316.2	365.4
France	534.1	550.5	845.4	1 323.0	1 744.4	2 035.0	2 241.0	2 517.0	2 776.0
Gabon									
Gambia					0.0	0.0	0.1		
Georgia		0.1	1.4	1.5	1.5	1.5	1.5	1.6	4.3
Germany	767.9	807.4	990.7	1 088.8	1 138.3	1 221.3	1 290.8	1 592.7	1 582.0
Ghana		17.3	12.0	23.4	15.3	29.7	31.2	72.8	38.3
Greece	249.5	288.7	309.8	407.1	410.1	492.6	528.8	534.6	534.6
Grenada			0.1	0.1	0.1	0.1	0.1	0.1	0.2
Guatemala		12.1	13.4	13.4	13.4	14.0	88.2	87.0	71.7
Guinea						0.0	1.0		
Guinea-Bissau				3.4	0.8	0.8	0.8	9.8	
Guyana		0.1	4.2						
Haiti			0.2	4.5	5.6	4.4	3.3	2.9	2.7
Honduras		1.8	18.0	26.9	29.3	29.3	29.3	66.2	66.2
Hungary	128.6	123.5	127.6	129.7	199.7	209.4	303.2	301.4	293.6
Iceland		5.0	5.9	9.8	10.2	9.2	9.2	6.0	6.0
India		185.9	780.0	1 180.0	1 780.0	1 938.2	2 299.2	2 657.9	2 657.9

TABLE 52.
AREA UNDER ORGANIC AGRICULTURE (THOUSAND HA) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
Indonesia		17.8	71.0	130.4	208.0	251.6	251.6	75.8	83.4
Iran (Islamic Republic of)			7.0	14.6	11.9	11.9	11.9	11.9	7.1
Iraq				0.1	0.1	0.1	0.1	0.1	0.1
Ireland	30.7	34.9	47.9	73.0	74.3	118.7	74.0	74.7	86.9
Israel			8.8	4.1	5.7	5.8	5.3	5.4	5.2
Italy	954.0	1 067.0	1 114.0	1 493.0	1 909.0	1 958.0	1 993.0	2 095.0	2 187.0
Jamaica		0.4	0.5	0.2	0.4	0.4	0.4	0.0	0.0
Japan			9.1	10.0	10.0	10.8	10.8	12.0	12.0
Jordan		0.0	1.5	1.7	1.5	1.5	1.5	1.5	1.5
Kazakhstan			133.6	303.4	277.1	192.1	294.3	114.9	113.2
Kenya		2.3	4.8	150.5	177.2	154.5	154.5	123.7	128.0
Kiribati				1.6	1.6	1.6			
Kuwait				0.0	0.0	0.0	0.0	0.0	0.0
Kyrgyzstan		0.2	15.0	7.6	19.3	22.1	19.1	30.3	30.3
Lao People's Democratic Republic			6.0	1.5	7.7	7.7	9.0	3.3	8.0
Latvia	26.1	118.6	164.1	231.6	268.9	280.4	289.8	291.1	302.2
Lebanon	0.8	2.5	1.2	1.2	1.4	1.2	1.6	1.7	1.7
Lesotho				0.6		0.0			
Liberia						0.0	0.0		2.8
Libya									
Lithuania	38.5	68.8	143.6	213.6	234.1	239.7	242.1	235.5	261.8
Luxembourg		3.2	3.5	4.2	5.4	5.8	5.8	6.1	6.9
Madagascar		2.2	20.3	121.0	64.0	48.8	76.5	103.8	95.1
Malawi		0.3	0.8	0.2	12.2	12.4	12.3	0.2	0.3
Malaysia		1.2	1.6	0.6	0.6	9.6	1.3	1.3	1.3
Maldives									
Mali		14.6	15.2	11.9	12.7	12.7	11.3	14.7	17.8
Malta		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Marshall Islands									
Mauritania									
Mauritius			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mexico		307.7	332.5	584.0	674.0	183.2	301.9	215.6	238.1
Micronesia (Federated States of)									
Mongolia						0.6	0.1	0.2	0.2
Montenegro			3.6	3.3	2.7	4.5	4.8	4.8	4.4
Morocco		1.1	17.0	9.3	9.2	9.9	9.9	11.5	11.5
Mozambique		0.7	5.5	16.2	12.6	14.9	7.8	14.4	41.0
Myanmar			0.1	5.6	10.3	12.3	12.9	10.1	10.1
Namibia			0.1	30.1	0.1	0.1	0.1		0.4
Nauru									
Nepal		1.0	9.8	9.4	9.4	11.9	9.4	9.4	2.4
Netherlands (Kingdom of the)	48.2	48.8	45.8	50.4	59.4	64.0	68.1	71.6	76.4

TABLE 52.
AREA UNDER ORGANIC AGRICULTURE (THOUSAND HA) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
New Zealand		46.9	124.5	74.1	88.9	88.9	88.9	79.3	79.3
Nicaragua		51.1	33.6	33.6	33.6	34.8	43.0	39.1	37.4
Niger		0.0	0.1	0.3	0.3	0.3	0.3		
Nigeria			12.0	5.0	53.4	57.1	55.1	55.0	58.0
North Macedonia		0.3	5.2	2.2	2.7	4.0	3.7	3.7	7.8
Norway	41.0	43.0	57.2	47.6	47.0	46.4	45.3	45.2	44.9
Oman			0.0		0.0	0.0	0.0	0.0	0.0
Pakistan		20.3	22.0	34.2	51.3	64.9	64.9	69.9	69.9
Palau									
Panama	5.2	5.2	3.6	15.2	15.2	5.9	5.9	5.9	5.9
Papua New Guinea			3.2	15.8	13.7	49.6	24.7	72.5	88.0
Paraguay			51.2	64.1	43.7	42.8	57.6	73.4	113.1
Peru			222.4	326.8	539.6	524.9	394.2	559.7	594.3
Philippines			80.0	234.6	200.1	218.6	168.4	191.8	216.3
Poland	83.0	166.0	519.0	580.7	495.0	484.7	507.6	509.3	549.4
Portugal	169.9	211.5	211.0	241.4	253.8	213.1	211.4	319.5	308.3
Qatar									
Republic of Korea		6.1	15.5	18.1	20.7	24.7	29.7	38.5	40.7
Republic of Moldova			5.4	28.7	30.1	17.2	27.8	27.6	28.4
Romania		92.8	183.0	245.9	258.5	326.3	395.2	468.8	578.7
Russian Federation			44.0	385.1	656.9	607.0	674.4	615.2	655.5
Rwanda		0.1	3.6		1.3	2.1	1.3	5.2	4.7
Saint Kitts and Nevis									
Saint Lucia									0.0
Saint Vincent and the Grenadines									
Samoa			9.7	27.7	27.7	27.7	41.1	41.0	41.0
San Marino									
Sao Tome and Principe			4.4	6.7	8.8	10.9	10.9	9.1	
Saudi Arabia		12.5	42.4	36.5	17.1	18.6	24.5	26.6	27.1
Senegal			28.2	7.0	7.3	8.0	6.5	3.8	3.3
Serbia			8.7	15.3	13.4	19.3	21.3	21.0	23.5
Seychelles									
Sierra Leone			65.3	15.3	101.2	99.2	157.5	190.1	194.0
Singapore						0.0	0.0	0.0	0.0
Slovakia			178.2	181.9	189.2	189.0	197.6	222.9	249.7
Slovenia	23.0	23.0	30.7	42.2	46.2	47.8	49.6	49.8	51.8
Solomon Islands			1.3	5.6	3.9	4.7	4.1	3.4	8.2
Somalia									
South Africa		50.0	55.6	34.2	41.4	82.8	30.2	41.0	97.4
South Sudan									
Spain	561.5	622.8	1 434.0	1 968.5	2 082.2	2 246.5	2 354.9	2 437.9	2 799.2
Sri Lanka		10.0	22.3	96.3	165.6	77.2	70.4	73.4	66.6

TABLE 52.
AREA UNDER ORGANIC AGRICULTURE (THOUSAND HA) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
Sudan				130.0	130.0	76.9	73.9		1.0
Suriname				0.0	0.1	0.1	0.1	0.1	0.1
Sweden	222.1	222.7	438.9	519.0	577.0	609.0	614.0	610.5	606.7
Switzerland	114.1	116.7	111.0	135.0	149.6	160.1	169.0	176.3	180.4
Syrian Arab Republic			20.0	20.0	20.0	20.0	20.0		
Tajikistan			0.4	12.7	12.7	8.8	10.3	11.8	22.3
Thailand		21.7	34.1	45.6	91.3	95.1	188.5	160.8	168.0
Timor-Leste		21.5	24.8	25.2	31.3	59.8	32.5	32.3	32.3
Togo		0.1	3.4	15.3	39.4	41.3	38.5	127.8	130.9
Tonga				2.6	1.6	0.7	1.1	1.1	1.1
Trinidad and Tobago									
Tunisia	157.8	143.1	175.1	145.0	306.5	309.2	286.6	297.1	279.4
Türkiye	210.0	204.0	510.0	515.0	543.0	627.0	546.0	383.0	352.0
Turkmenistan									
Tuvalu									
Uganda		182.0	228.4	241.2	262.3	262.3	288.7	346.5	505.3
Ukraine		242.0	270.2	410.6	289.0	309.1	468.0	462.2	422.3
United Arab Emirates			0.4	4.3	4.7	4.7	4.6	5.4	5.4
United Kingdom of Great Britain and Northern Ireland	659.6	604.7	697.9	508.8	502.9	462.5	465.4	470.2	486.0
United Republic of Tanzania		44.7	72.0	268.7	278.5	278.5	278.5	198.2	286.6
United States of America		1 640.8	1 949.0	2 029.3	2 031.3	2 023.4	2 326.6	2 326.6	2 326.6
Uruguay		759.0	931.0	1 307.4	1 882.2	2 147.1	2 143.6	2 742.4	2 741.9
Uzbekistan			0.1			0.9	0.9	3.8	4.9
Vanuatu			2.7	9.5	14.9	25.6	8.4	2.1	6.3
Venezuela (Bolivarian Republic of)			0.3					1.5	2.5
Viet Nam		6.5	19.3	76.7	58.0	51.4	61.9	63.5	74.5
Yemen									
Zambia		2.9	7.3	8.1	8.0	1.2	0.2	0.7	3.4
Zimbabwe			2.0	1.0	3.3	0.4	0.9	1.0	1.1

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 53.
SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA (PERCENT)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
World	0.5	0.6	0.7	1.1	1.5	1.5	1.5	1.6	1.6
Africa	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Americas	0.3	0.6	0.9	0.9	1.0	1.0	1.1	1.2	1.2
Asia	0.0	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4
Europe	1.2	1.4	2.0	2.6	3.0	3.2	3.4	3.6	3.8
Oceania	3.0	2.8	3.0	6.3	9.3	9.7	9.6	9.7	9.6
Afghanistan			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Albania		0.1	0.3		0.0	0.1	0.1	0.1	0.1
Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Andorra			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Angola			0.0						
Antigua and Barbuda									
Argentina	2.0	2.1	3.3	2.5	2.7	3.1	3.1	3.7	3.5
Armenia		0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Australia	3.1	2.9	3.1	6.5	9.6	9.9	9.8	10.0	9.8
Austria	16.1	16.8	19.6	20.3	23.4	24.1	25.3	26.1	26.2
Azerbaijan		0.4	0.5	0.8	0.8	0.8	0.8	0.8	0.8
Bahamas				0.4	0.4	0.4	0.4	0.4	0.4
Bahrain									
Bangladesh			0.0	0.1	0.1	0.0	0.0	0.0	0.0
Barbados									
Belarus						0.0	0.0	0.1	0.1
Belgium	1.7	1.8	3.6	5.2	6.3	6.6	6.9	7.3	7.5
Belize		1.2	0.8	0.5	0.2	0.1	0.0	0.3	0.4
Benin		0.0	0.0	0.1	0.5	0.4	0.4	0.9	1.2
Bhutan		0.0		1.3	1.3	1.3	1.3	0.8	1.1
Bolivia (Plurinational State of)		0.1	0.3	0.3	0.3	0.3	0.4	0.5	0.5
Bosnia and Herzegovina		0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1
Botswana									
Brazil		0.4	0.4	0.3	0.5	0.5	0.5	0.6	0.6
Brunei Darussalam									
Bulgaria		0.0	0.5	2.4	2.7	2.9	4.3	2.3	1.7
Burkina Faso		0.0	0.1	0.2	0.5	0.5	0.7	0.5	0.6
Burundi		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cabo Verde				0.6	0.6	0.6	0.6	0.0	
Cambodia		0.0	0.1	0.2	0.2	0.5	0.4	0.6	0.3
Cameroon			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Canada	0.9	0.9	1.2	1.6	2.1	2.3	2.3	2.5	2.1
Central African Republic									
Chad									
Chile	0.1	0.1	0.2	0.2	0.2	0.1	0.2	1.4	1.4
China		0.4	0.3	0.3	0.6	0.6	0.4	0.5	0.5

TABLE 53.
SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA (PERCENT) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
Colombia		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Comoros			0.8	1.1	1.1	1.6	0.9	0.8	0.7
Congo									
Costa Rica		0.5	0.6	0.4	0.5	0.5	0.5	0.6	0.6
Côte d'Ivoire			0.1	0.2	0.2	0.2	0.3	0.3	0.3
Croatia	0.2	0.2	1.7	4.9	6.5	7.0	7.2	7.2	8.3
Cuba		0.2	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Cyprus	0.7	1.0	3.1	3.7	4.6	4.5	5.0	4.6	6.3
Czechia	7.3	7.0	12.7	13.8	14.3	14.8	15.4	15.4	15.8
Democratic People's Republic of Korea									
Democratic Republic of the Congo			0.1	0.3	0.2	0.2	0.3	0.3	0.3
Denmark	5.9	5.0	6.2	6.7	8.9	10.1	11.2	11.6	11.8
Djibouti									
Dominica				1.0	1.0	1.0	1.0		11.6
Dominican Republic		3.0	7.0	6.8	8.5	7.0	5.5	4.8	4.8
Ecuador			0.9	0.8	0.7	0.8	0.9	0.8	1.0
Egypt		0.7	2.2	2.3	2.8	3.0	3.0	2.9	2.9
El Salvador		0.4	0.5	1.1	0.1	0.1	0.1	0.2	0.2
Equatorial Guinea									
Eritrea									
Estonia	5.8	6.6	12.8	15.7	20.0	21.0	22.3	22.4	23.0
Eswatini			0.0	0.0	0.0	0.0	0.1	0.1	0.3
Ethiopia			0.4	0.5	0.5	0.5	0.5	0.6	0.9
Fiji		0.0	0.0	3.5	5.3	13.1	7.2	6.2	9.7
Finland	7.2	6.5	7.4	9.9	11.4	13.1	13.5	13.9	16.1
France	1.8	1.9	2.9	4.6	6.1	7.1	7.8	8.8	9.7
Gabon									
Gambia					0.0	0.0	0.0		
Georgia		0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Germany	4.5	4.7	5.9	6.5	6.8	7.3	7.7	9.6	9.5
Ghana		0.1	0.1	0.2	0.1	0.2	0.3	0.6	0.3
Greece	3.1	3.6	4.1	6.6	6.8	8.3	9.0	9.1	9.1
Grenada			0.9	1.1	1.1	1.0	1.0	1.0	2.4
Guatemala		0.3	0.3	0.3	0.3	0.3	1.9	1.9	1.6
Guinea						0.0	0.0		
Guinea-Bissau				0.4	0.1	0.1	0.1	1.2	
Guyana		0.0	0.4						
Haiti			0.0	0.2	0.3	0.2	0.2	0.2	0.2
Honduras		0.1	0.6	0.8	0.8	0.8	0.8	1.9	1.9
Hungary	2.2	2.1	2.4	2.5	3.8	4.0	5.7	6.1	5.8
Iceland		0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3
India		0.1	0.4	0.7	1.0	1.1	1.3	1.5	1.5

TABLE 53.
SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA (PERCENT) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
Indonesia		0.0	0.1	0.2	0.3	0.4	0.4	0.1	0.1
Iran (Islamic Republic of)			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iraq				0.0	0.0	0.0	0.0	0.0	0.0
Ireland	0.7	0.8	1.0	1.6	1.7	2.6	1.6	1.7	2.0
Israel			1.7	0.8	0.9	0.9	0.8	0.8	0.8
Italy	6.4	7.2	7.8	11.5	14.9	15.8	15.2	16.7	17.6
Jamaica		0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0
Japan			0.2	0.2	0.2	0.2	0.2	0.3	0.3
Jordan		0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Kazakhstan			0.1	0.1	0.1	0.1	0.1	0.1	0.1
Kenya		0.0	0.0	0.5	0.6	0.6	0.6	0.4	0.5
Kiribati				4.7	4.7	4.7			
Kuwait				0.0	0.0	0.0	0.0	0.0	0.0
Kyrgyzstan		0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3
Lao People's Democratic Republic			0.3	0.1	0.3	0.4	0.4	0.2	0.4
Latvia	1.6	6.8	9.1	12.3	13.9	14.5	14.8	14.8	15.3
Lebanon	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.2
Lesotho				0.0		0.0			
Liberia						0.0	0.0		0.1
Libya									
Lithuania	1.5	2.4	5.2	7.1	8.0	8.1	8.1	8.0	8.9
Luxembourg		2.5	2.6	3.2	4.2	4.4	4.4	4.6	5.2
Madagascar		0.0	0.0	0.3	0.2	0.1	0.2	0.3	0.2
Malawi		0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0
Malaysia		0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Maldives									
Mali		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malta		0.1	0.3	0.3	0.3	0.5	0.5	0.7	0.7
Marshall Islands									
Mauritania									
Mauritius			0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mexico		0.3	0.3	0.6	0.7	0.2	0.3	0.2	0.2
Micronesia (Federated States of)									
Mongolia						0.0	0.0	0.0	0.0
Montenegro			0.7	1.4	1.1	1.7	1.8	1.9	1.7
Morocco		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Mozambique		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Myanmar			0.0	0.0	0.1	0.1	0.1	0.1	0.1
Namibia			0.0	0.1	0.0	0.0	0.0		0.0
Nauru									
Nepal		0.0	0.2	0.2	0.2	0.3	0.2	0.2	0.1
Netherlands (Kingdom of the)	2.5	2.5	2.4	2.7	3.3	3.5	3.7	3.9	4.2

TABLE 53.
SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA (PERCENT) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
New Zealand		0.4	1.1	0.7	0.8	0.8	0.9	0.8	0.8
Nicaragua		1.0	0.7	0.7	0.7	0.7	0.8	0.8	0.7
Niger		0.0	0.0	0.0	0.0	0.0	0.0		
Nigeria			0.0	0.0	0.1	0.1	0.1	0.1	0.1
North Macedonia		0.0	0.5	0.2	0.2	0.3	0.3	0.3	0.6
Norway	3.9	4.2	5.7	4.8	4.8	4.7	4.6	4.6	4.6
Oman			0.0		0.0	0.0	0.0	0.0	0.0
Pakistan		0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Palau									
Panama	0.2	0.2	0.2	0.7	0.7	0.3	0.3	0.3	0.3
Papua New Guinea			0.3	1.2	1.0	3.5	1.8	5.1	6.1
Paraguay			0.3	0.4	0.3	0.3	0.3	0.4	0.7
Peru			0.9	1.3	2.2	2.1	1.6	2.2	2.3
Philippines			0.7	1.9	1.6	1.7	1.3	1.5	1.7
Poland	0.5	1.0	3.6	4.0	3.4	3.3	3.5	3.5	3.8
Portugal	4.4	5.5	5.8	6.6	6.9	5.7	5.4	8.1	7.8
Qatar									
Republic of Korea		0.3	0.9	1.0	1.2	1.5	1.8	2.4	2.5
Republic of Moldova			0.2	1.2	1.3	0.8	1.2	1.2	1.2
Romania		0.7	1.3	1.8	1.9	2.4	2.9	3.6	4.4
Russian Federation			0.0	0.2	0.3	0.3	0.3	0.3	0.3
Rwanda		0.0	0.2		0.1	0.1	0.1	0.3	0.2
Saint Kitts and Nevis									
Saint Lucia									0.3
Saint Vincent and the Grenadines									
Samoa			23.4	36.6	44.7	50.2	83.1	83.0	83.0
San Marino									
Sao Tome and Principe			13.4	18.1	21.4	26.0	26.0	21.7	
Saudi Arabia		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Senegal			0.3	0.1	0.1	0.1	0.1	0.0	0.0
Serbia			0.2	0.4	0.4	0.6	0.6	0.6	0.7
Seychelles									
Sierra Leone			1.7	0.4	2.6	2.5	4.0	4.8	4.9
Singapore						0.5	2.3	2.3	2.3
Slovakia			9.2	9.6	10.1	10.0	10.5	11.8	13.5
Slovenia	4.7	4.5	4.9	6.8	7.5	7.8	8.1	8.2	8.5
Solomon Islands			1.2	4.8	3.3	3.9	3.4	2.8	6.9
Somalia									
South Africa		0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1
South Sudan									
Spain	1.9	2.1	5.2	7.4	7.9	8.6	9.0	9.3	10.7
Sri Lanka		0.4	0.9	3.5	6.0	2.7	2.5	2.6	2.4

TABLE 53.
SHARE OF AREA UNDER ORGANIC AGRICULTURE IN TOTAL AGRICULTURAL AREA (PERCENT) (CONTINUED)

COUNTRY	2004	2005	2010	2015	2017	2018	2019	2020	2021
Sudan				0.1	0.1	0.1	0.1		0.0
Suriname				0.0	0.1	0.1	0.1	0.1	0.1
Sweden	7.0	7.0	14.3	17.1	19.2	20.3	20.4	20.3	20.2
Switzerland	7.3	7.5	7.2	8.9	9.9	10.6	11.2	11.7	12.0
Syrian Arab Republic			0.1	0.1	0.1	0.1	0.1		
Tajikistan			0.0	0.3	0.3	0.2	0.2	0.2	0.5
Thailand		0.1	0.1	0.2	0.4	0.4	0.8	0.7	0.7
Timor-Leste		6.5	7.3	7.4	9.2	17.5	9.5	9.5	9.5
Togo		0.0	0.1	0.4	1.0	1.1	1.0	3.3	3.4
Tonga				7.4	4.6	1.9	3.2	3.2	3.2
Trinidad and Tobago									
Tunisia	1.6	1.5	1.7	1.5	3.1	3.2	3.0	3.1	2.9
Türkiye	0.5	0.5	1.3	1.3	1.4	1.7	1.4	1.0	0.9
Turkmenistan									
Tuvalu									
Uganda		1.4	1.6	1.7	1.8	1.8	2.0	2.4	3.5
Ukraine		0.6	0.7	1.0	0.7	0.7	1.1	1.1	1.0
United Arab Emirates			0.1	1.1	1.2	1.2	1.2	1.4	1.4
United Kingdom of Great Britain and Northern Ireland	3.9	3.6	4.1	3.0	2.9	2.7	2.7	2.7	2.8
United Republic of Tanzania		0.1	0.2	0.7	0.7	0.7	0.7	0.5	0.7
United States of America		0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Uruguay		5.1	6.5	9.0	13.2	15.1	15.2	19.5	19.5
Uzbekistan			0.0			0.0	0.0	0.0	0.0
Vanuatu			1.4	5.1	8.0	13.7	4.5	1.1	3.4
Venezuela (Bolivarian Republic of)			0.0					0.0	0.0
Viet Nam		0.1	0.2	0.6	0.5	0.4	0.5	0.5	0.6
Yemen									
Zambia		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Zimbabwe			0.0	0.0	0.0	0.0	0.0	0.0	0.0

Source: FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

TABLE 54.
WATER STRESS (PERCENT)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
World				18.0	18.2	18.3	18.3	18.4	18.2
Africa									
Americas									
Asia				5.8	5.9	5.9	5.9	6.0	6.0
Europe				12.3	12.3	12.3	12.5	12.5	12.5
Oceania				2.8	3.0	3.2	3.3	3.0	2.7
Afghanistan	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
Albania	11.0	8.4	7.1	5.5	6.6	6.6	5.8	6.8	4.7
Algeria	79.3	92.5	104.9	126.0	129.9	137.9	137.9	137.9	137.9
Andorra									
Angola	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Antigua and Barbuda	7.6	9.8	8.9	8.5	8.5	8.5	8.5	8.5	8.5
Argentina	8.4	9.4	10.3	10.5	10.5	10.5	10.5	10.5	10.5
Armenia	37.7	55.9	42.9	66.0	64.2	57.8	54.8	57.8	57.1
Australia	8.7	7.5	5.3	3.7	4.3	4.9	5.0	4.2	3.5
Austria	10.1	9.8	9.6	9.6	9.6	9.6	9.6	9.6	9.6
Azerbaijan	48.5	52.1	48.4	51.6	52.5	53.5	53.7	55.6	55.6
Bahamas									
Bahrain	248.9	196.4	173.1	137.2	133.7	133.7	133.7	133.7	133.7
Bangladesh			5.7	5.7	5.7	5.7	5.7	5.7	5.7
Barbados	101.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
Belarus	6.1	5.6	5.1	4.8	4.8	4.6	4.6	4.5	4.4
Belgium	92.5	78.5	73.1	49.1	51.5	54.0	51.3	51.6	51.6
Belize	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Benin	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Bhutan			1.4	1.4	1.4	1.4	1.4	1.4	1.4
Bolivia (Plurinational State of)	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Bosnia and Herzegovina	2.5	2.5	2.9	2.8	2.8	2.7	2.1	2.0	2.0
Botswana	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.3
Brazil	2.7	2.7	3.5	3.0	3.1	3.1	1.5	1.5	1.5
Brunei Darussalam	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Bulgaria	45.3	47.0	44.1	41.6	42.1	41.8	40.1	40.1	37.5
Burkina Faso	6.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Burundi	10.5	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Cabo Verde		8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Cambodia			1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cameroon	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Canada	4.3	4.3	3.8	3.7	3.7	3.7	3.7	3.7	3.7
Central African Republic	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Chad	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Chile	7.4	8.7	9.0	9.0	9.0	9.0	9.0	9.0	9.0
China	40.2	40.5	42.9	43.2	44.1	43.5	43.3	44.0	41.5
Colombia	1.2	1.5	2.4	3.9	4.2	4.1	4.1	4.2	4.4
Comoros	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

TABLE 54.
WATER STRESS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Congo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Costa Rica				5.5	5.0	4.2	5.2	5.4	5.4
Côte d'Ivoire	6.2	6.8	5.8	5.1	5.1	5.1	5.1	5.1	5.1
Croatia		1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Cuba	18.0	18.1	20.7	23.9	23.9	23.9	23.9	23.9	23.9
Cyprus	22.0	22.8	27.5	31.7	29.8	29.5	28.3	31.6	37.6
Czechia	32.6	29.6	29.7	24.3	24.9	24.8	24.2	22.9	20.8
Democratic People's Republic of Korea	27.4	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
Democratic Republic of the Congo	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Denmark	20.5	17.0	21.9	22.0	24.0	24.2	29.9	25.6	26.4
Djibouti	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Dominica	8.3	8.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Dominican Republic	27.0	30.2	39.6	39.6	39.6	39.6	39.6	39.6	39.6
Ecuador	6.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Egypt	103.9	119.2	134.4	110.9	110.5	141.2	141.2	141.2	141.2
El Salvador	8.6	13.2	7.2	2.4	2.4	2.4	2.4	2.4	2.4
Equatorial Guinea	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Eritrea	7.9	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Estonia	15.1	18.0	19.9	17.5	19.0	19.3	17.4	10.9	9.2
Eswatini	75.7	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
Ethiopia		24.0	27.8	31.5	32.3	32.3	32.3	32.3	32.3
Fiji	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Finland	7.0	14.1	11.5	6.5	5.5	5.5	6.6	7.1	7.1
France	28.6	29.3	25.0	24.6	23.1	23.6	23.6	23.0	23.0
Gabon	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Gambia	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Georgia	6.2	5.9	5.8	5.3	5.2	4.5	4.2	5.1	5.4
Germany	61.5	51.8	45.2	33.9	33.5	33.5	33.5	33.5	33.5
Ghana	4.3	4.9	5.5	6.3	6.3	6.3	6.3	6.3	6.3
Greece	18.2	19.5	19.9	20.0	20.5	20.5	20.5	20.5	20.5
Grenada		5.0	6.1	7.1	7.1	7.1	7.1	7.1	7.1
Guatemala		5.4	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Guinea	0.9	0.9	1.1	1.3	1.3	1.3	1.4	1.4	1.4
Guinea-Bissau	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Guyana	3.7	3.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Haiti	12.4	13.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4
Honduras		4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Hungary	10.1	9.7	9.3	7.0	6.8	8.2	8.5	7.7	8.1
Iceland	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
India	62.7	64.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5
Indonesia	15.1	19.7	24.2	28.8	29.7	29.7	29.7	29.7	29.7
Iran (Islamic Republic of)	77.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
Iraq	92.7	79.6	66.6	49.0	54.1	60.5	47.1	79.5	79.5
Ireland	4.7	3.9	4.0	5.8	6.2	6.5	20.0	21.6	21.6

TABLE 54.
WATER STRESS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Israel	139.2	121.3	115.6	98.9	103.4	103.6	95.9	100.4	110.1
Italy	39.7	32.3	29.7	29.9	29.8	29.8	29.7	29.8	29.8
Jamaica	10.5	11.9	13.2	7.7	12.5	12.5	12.5	12.5	12.5
Japan	41.6	38.4	37.2	36.7	36.6	36.5	36.4	36.1	36.1
Jordan	82.6	95.9	98.9	96.2	100.1	100.4	102.2	104.3	104.3
Kazakhstan	29.1	34.4	33.0	30.0	30.0	31.1	32.7	32.6	34.1
Kenya	12.9	21.2	26.5	26.6	33.2	33.2	33.2	33.2	33.2
Kiribati									
Kuwait	1 911.9	2 380.5	2 889.8	3 399.0	3 575.0	3 850.5	3 850.5	3 850.5	3 850.5
Kyrgyzstan	65.5	52.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Lao People's Democratic Republic		2.3	3.8	5.1	5.0	4.8	4.8	4.8	4.8
Latvia	1.7	1.3	1.6	1.0	1.1	1.1	1.1	1.1	1.1
Lebanon	41.1	35.6	47.2	58.8	58.8	58.8	58.8	58.8	58.8
Lesotho	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Liberia	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Libya	615.4	698.1	783.1	817.1	817.1	817.1	817.1	817.1	817.1
Lithuania	21.9	17.0	7.5	2.8	2.2	1.9	1.8	1.8	1.8
Luxembourg	4.9	4.4	4.0	3.7	3.7	3.8	4.3	4.1	4.0
Madagascar	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
Malawi	16.0	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Malaysia	2.9	3.0	3.1	3.2	3.4	3.4	3.4	3.4	3.4
Maldives	17.7	14.5	3.4	15.7	15.7	15.7	15.7	15.7	15.7
Mali	7.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Malta	61.3	70.7	81.0	82.8	83.0	91.1	84.6	81.0	81.9
Marshall Islands									
Mauritania	15.7	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Mauritius	22.2	25.1	23.2	22.3	22.5	22.2	21.5	21.6	22.1
Mexico	25.6	28.6	29.9	32.1	32.5	33.0	44.5	44.7	44.8
Micronesia (Federated States of)									
Mongolia	3.6	3.8	3.9	3.2	3.4	3.4	3.4	3.4	3.4
Montenegro									
Morocco	60.5	63.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8
Mozambique	1.0	1.3	1.5	1.8	1.8	1.8	1.8	1.8	1.8
Myanmar	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Namibia	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Nauru									
Nepal	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Netherlands (Kingdom of the)	16.0	21.9	20.8	16.0	15.2	15.0	16.4	17.0	16.8
New Zealand	2.8	3.8	4.2	8.1	8.1	8.1	8.1	8.1	8.1
Nicaragua	2.4	2.6	2.6	2.4	2.4	2.3	2.3	2.2	2.2
Niger	3.6	4.2	5.5	7.3	7.5	6.8	10.4	11.0	11.0
Nigeria	8.0	9.0	9.7	9.7	9.7	9.7	9.7	9.7	9.7
North Macedonia	16.8	28.0	22.0	20.8	25.3	38.7	52.1	38.7	38.7
Norway	1.8	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1

TABLE 54.
WATER STRESS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Oman	92.9	91.1	107.1	116.7	116.7	116.7	116.7	116.7	116.7
Pakistan	105.9	109.8	113.7	120.8	122.6	122.7	118.2	108.7	116.3
Palau									
Panama			0.8	0.9	0.9	0.9	0.9	0.9	0.9
Papua New Guinea	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Paraguay	0.4	1.0	1.6	1.8	1.8	1.8	1.8	1.8	1.8
Peru			3.4	5.6	6.1	6.5	7.0	7.2	7.2
Philippines			25.5	26.4	26.6	28.1	28.2	26.3	26.3
Poland	42.1	41.2	37.6	36.2	35.6	34.9	33.2	31.1	30.0
Portugal	21.4	19.1	18.0	17.3	17.2	12.4	12.3	12.3	12.3
Qatar	282.6	374.1	409.9	431.0	432.4	431.0	431.0	431.0	431.0
Republic of Korea	80.8	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
Republic of Moldova	20.7	12.7	12.6	12.5	12.5	12.5	12.4	12.5	12.6
Romania	9.0	5.7	5.8	6.1	6.0	6.3	6.0	6.0	6.0
Russian Federation	4.8	4.4	4.4	4.0	4.1	4.1	4.1	4.1	4.1
Rwanda	5.0	8.3	12.5	16.6	17.4	18.2	19.0	20.2	20.2
Saint Kitts and Nevis				50.8	50.8	50.8	50.8	50.8	50.8
Saint Lucia			14.3	14.3	14.3	14.3	14.3	14.3	14.3
Saint Vincent and the Grenadines	9.8	9.5	8.5	7.9	7.9	7.9	7.9	7.9	7.9
Samoa									
San Marino									
Sao Tome and Principe	0.8	1.1	1.5	1.8	1.9	1.9	1.9	1.9	1.9
Saudi Arabia	819.8	894.8	914.5	948.9	929.6	956.0	974.2	974.2	974.2
Senegal	8.5	12.1	12.5	13.0	13.1	13.2	16.1	16.3	16.3
Serbia			5.0	5.3	5.3	6.1	6.3	6.3	6.0
Seychelles									
Sierra Leone	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Singapore	313.9	377.5	219.9	84.6	85.0	83.2	81.4	82.2	83.1
Slovakia	5.0	3.9	2.6	2.5	2.4	2.4	2.4	2.4	2.4
Slovenia		6.2	6.3	6.1	6.0	6.3	6.5	6.4	6.8
Solomon Islands									
Somalia	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
South Africa	40.8	44.2	47.6	59.8	61.0	62.1	62.9	64.0	65.0
South Sudan				4.2	4.2	4.2	4.2	4.2	4.2
Spain	49.2	51.0	47.7	43.0	42.6	41.0	40.1	39.8	43.3
Sri Lanka	91.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
Sudan				118.7	118.7	118.7	118.7	118.7	118.7
Suriname	4.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Sweden	3.9	3.8	3.9	3.4	3.5	3.5	3.5	3.6	3.6
Switzerland	9.7	9.0	8.0	6.5	6.5	6.5	6.5	6.5	6.5
Syrian Arab Republic	134.2	126.0	125.2	124.4	124.4	124.4	124.4	124.4	124.4
Tajikistan	81.2	75.1	71.6	68.7	57.7	52.7	64.5	69.9	69.9
Thailand			23.0	23.0	23.0	23.0	23.0	23.0	23.0
Timor-Leste		28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3

TABLE 54.
WATER STRESS (PERCENT) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2016	2017	2018	2019	2020
Togo	2.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Tonga									
Trinidad and Tobago	19.0	18.7	20.1	20.3	20.3	20.3	20.3	20.3	20.3
Tunisia	66.0	72.9	79.1	92.0	94.6	89.5	96.0	96.3	98.1
Türkiye	31.2	29.9	34.9	39.9	44.3	43.7	45.4	45.7	45.7
Turkmenistan	127.9	143.6	144.1	144.7	144.9	148.7	138.5	142.8	135.2
Tuvalu									
Uganda	3.0	4.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Ukraine	23.7	19.5	19.2	11.8	12.1	13.9	13.9	13.7	12.3
United Arab Emirates	1 555.9	1 866.7	1 781.5	1 696.4	1 679.3	1 630.0	1 667.3	1 628.7	1 587.3
United Kingdom of Great Britain and Northern Ireland	21.3	22.0	14.1	13.9	14.4	14.4	14.4	14.4	14.4
United Republic of Tanzania	10.7	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
United States of America	30.0	30.3	26.5	28.2	28.2	28.2	28.2	28.2	28.2
Uruguay	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Uzbekistan	153.1	141.0	143.1	158.1	156.4	168.9	168.9	168.9	168.9
Vanuatu									
Venezuela (Bolivarian Republic of)	3.0	6.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Viet Nam	15.9	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
Yemen	161.1	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8
Zambia	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Zimbabwe	35.7	35.9	32.9	31.9	31.9	31.4	35.4	35.4	35.4

Source: FAO. 2023. AQUASTAT Dissemination System. In: *AQUASTAT*. Rome. [Cited October 2023]. https://data.apps.fao.org/aquastat/?lang=en

TABLE 55.
CROPLAND NITROGEN BUDGET (KG PER HA)

COUNTRY	2020					CROPLAND NITROGEN BUDGET		
	INPUT: ATMOSPHERIC DEPOSITION	INPUT: BIOLOGICAL FIXATION	INPUT: MANURE APPLIED TO SOILS	INPUT: SYNTHETIC FERTILIZERS	OUTPUT: CROP REMOVAL	2000	2010	2020
World	10.0	25.1	16.8	68.8	66.2	47.8	54.5	54.4
Africa	6.0	11.2	5.7	15.7	26.5	8.3	9.5	12.1
Americas	6.5	61.9	15.3	61.2	104.6	33.0	34.5	40.3
Asia	16.0	20.1	21.2	108.8	72.9	79.9	98.0	93.3
Europe	6.8	4.3	21.7	51.4	46.4	40.1	38.0	37.9
Oceania	1.8	5.2	4.7	39.6	29.2	3.4	8.0	22.1
Afghanistan	2.9	0.9	8.9	5.5	18.3	4.8	0.2	-0.2
Albania	6.7	1.8	39.8	48.3	26.5	60.6	64.7	70.0
Algeria	6.2	1.2	2.9	10.5	18.8	8.5	1.5	2.0
Andorra								
Angola	5.1	10.6	12.1	4.6	20.0	3.9	6.5	12.3
Antigua and Barbuda	6.4	0.0	48.9	0.3	6.7	60.5	44.6	48.9
Argentina	5.3	98.0	5.6	42.3	134.5	6.0	16.5	16.7
Armenia	18.8	0.4	10.1	102.4	20.3	21.2	39.7	111.3
Australia	1.8	5.4	4.0	39.9	27.7	5.4	9.2	23.4
Austria	10.5	8.8	62.0	70.4	87.9	91.0	68.3	63.8
Azerbaijan	5.5	0.6	5.5	66.8	39.0	-8.3	-4.1	39.3
Bahamas	6.4	7.5	65.0	92.1	53.2	36.7	74.0	117.9
Bahrain	18.8	0.2	233.8	386.7	19.2	37.5	571.4	620.3
Bangladesh	35.4	35.9	28.8	144.2	100.6	123.9	143.6	143.7
Barbados	6.4	19.4	182.4	21.9	66.4	45.6	54.9	163.7
Belarus	6.7	2.8	33.6	80.2	39.2	63.3	103.7	84.1
Belgium	9.7	1.6	158.0	197.0	90.0	286.5	281.3	276.4
Belize	6.4	24.0	8.9	136.4	86.4	-22.0	-39.9	89.2
Benin	5.5	15.5	4.5	16.6	36.5	-0.3	3.6	5.5
Bhutan	11.3	5.4	20.8	8.0	25.8	17.7	16.5	19.7
Bolivia (Plurinational State of)	4.0	48.5	22.7	4.7	59.8	14.1	24.0	20.2
Bosnia and Herzegovina	8.3	2.6	27.3	45.5	33.7	42.3	54.8	50.0
Botswana	3.8	8.0	8.3	38.2	14.4	25.4	92.8	43.9
Brazil	8.2	157.2	22.5	79.1	211.6	34.1	26.8	55.5
Brunei Darussalam	18.8	2.1	407.7	24.3	11.0	362.3	401.7	442.0
Bulgaria	8.9	1.0	11.6	108.5	56.6	35.6	33.1	73.4
Burkina Faso	4.6	8.0	9.9	8.2	27.4	4.9	3.9	3.4
Burundi	5.9	18.7	9.3	4.4	32.1	1.3	0.5	6.3
Cabo Verde								
Cambodia	10.6	22.3	13.1	25.7	49.0	21.2	16.1	22.8
Cameroon	7.5	9.9	5.1	5.0	25.3	7.2	4.3	2.0
Canada	4.4	23.3	5.7	70.5	66.5	17.6	28.7	37.4
Central African Republic	7.4	8.1	11.9	0.1	8.4	14.1	17.5	19.2
Chad								
Chile	1.4	2.1	55.9	111.3	55.5	88.4	129.0	115.2

TABLE 55.
CROPLAND NITROGEN BUDGET (KG PER HA) (CONTINUED)

COUNTRY	2020					CROPLAND NITROGEN BUDGET		
	INPUT: ATMOSPHERIC DEPOSITION	INPUT: BIOLOGICAL FIXATION	INPUT: MANURE APPLIED TO SOILS	INPUT: SYNTHETIC FERTILIZERS	OUTPUT: CROP REMOVAL	2000	2010	2020
China	26.8	26.3	34.5	182.7	127.6	166.3	195.0	142.8
Colombia	6.5	4.7	31.3	53.0	34.1	85.0	136.4	61.5
Comoros								
Congo	7.5	7.4	3.3	4.9	18.6	6.2	1.8	4.5
Costa Rica	4.9	4.7	72.0	161.6	73.9	132.3	110.9	169.4
Côte d'Ivoire	5.9	4.3	2.0	6.8	26.6	-4.1	-3.1	-7.6
Croatia	7.1	12.7	31.3	124.3	85.9	123.1	89.5	89.4
Cuba	3.9	3.8	10.0	8.3	28.3	-9.1	11.0	-2.4
Cyprus	3.3	0.3	40.4	58.3	17.4	84.3	98.9	84.9
Czechia	11.9	2.9	26.8	114.8	84.3	71.8	75.6	72.1
Democratic People's Republic of Korea	14.2	19.1	10.3	10.3	46.3	43.2	62.4	7.6
Democratic Republic of the Congo	5.9	6.3	1.2	1.5	16.3	-0.6	-2.8	-1.3
Denmark	5.3	2.9	71.7	95.6	91.7	94.0	70.1	83.7
Djibouti								
Dominica	6.4	0.7	16.8	5.6	19.1	52.8	8.6	10.5
Dominican Republic	4.4	12.8	54.4	71.9	116.0	30.9	50.0	27.6
Ecuador	5.7	6.8	34.0	87.0	50.8	36.8	64.3	82.8
Egypt	7.4	11.1	6.7	324.5	149.2	203.6	199.3	200.5
El Salvador	6.0	8.6	16.2	65.2	66.1	36.6	49.8	29.9
Equatorial Guinea								
Eritrea	3.8	4.8	8.8	5.0	9.9	20.2	8.4	12.6
Estonia	3.5	11.2	18.0	83.4	62.2	28.2	46.2	53.8
Eswatini								
Ethiopia	11.3	12.2	6.4	22.7	36.3	11.9	9.9	16.3
Fiji	1.8	8.7	26.3	40.3	72.2	-63.6	-8.5	4.9
Finland	2.4	2.3	13.3	45.4	33.0	33.3	35.9	30.3
France	12.1	4.1	39.6	92.4	71.6	90.3	78.4	76.5
Gabon	3.9	7.7	7.2	5.4	13.8	5.5	5.5	10.4
Gambia	5.9	27.1	2.3	0.0	15.7	24.6	20.7	19.7
Georgia	5.2	0.9	13.4	92.3	22.6	42.3	45.9	89.1
Germany	14.8	3.3	47.9	85.3	91.1	100.4	90.1	60.3
Ghana	7.7	13.8	4.7	22.0	46.9	-3.6	-5.0	1.2
Greece	5.5	4.4	17.6	61.0	25.7	41.8	34.4	62.8
Grenada								
Guatemala	5.5	12.8	37.5	106.4	107.4	32.8	28.0	54.8
Guinea	5.0	38.3	4.0	1.9	32.6	3.8	7.5	16.5
Guinea-Bissau								
Guyana	1.9	11.4	17.3	38.0	49.6	-3.5	6.1	19.0
Haiti								
Honduras	3.9	5.3	22.0	54.0	37.8	91.4	36.7	47.4
Hungary	10.3	2.3	19.3	105.7	80.6	55.5	32.9	57.0
Iceland	0.5		33.4	72.8	1.3	133.1	117.4	105.3

TABLE 55.
CROPLAND NITROGEN BUDGET (KG PER HA) (CONTINUED)

COUNTRY	2020					CROPLAND NITROGEN BUDGET		
	INPUT: ATMOSPHERIC DEPOSITION	INPUT: BIOLOGICAL FIXATION	INPUT: MANURE APPLIED TO SOILS	INPUT: SYNTHETIC FERTILIZERS	OUTPUT: CROP REMOVAL	2000	2010	2020
India	21.2	32.2	13.5	121.0	70.6	70.4	100.1	117.3
Indonesia	4.0	8.4	20.7	69.1	53.9	38.8	40.5	48.3
Iran (Islamic Republic of)	4.3	3.7	19.6	52.9	35.6	50.7	54.1	44.8
Iraq	4.2	0.6	3.3	25.0	35.3	57.2	11.9	-2.2
Ireland	3.2	8.6	109.4	164.4	91.9	197.1	165.6	193.8
Israel	18.8	2.4	23.4	94.3	30.4	113.6	108.2	108.5
Italy	8.0	6.8	46.7	63.3	49.4	75.1	62.1	75.3
Jamaica	6.4	2.9	29.9	18.1	35.9	14.4	12.1	21.4
Japan	9.0	13.6	30.8	66.3	54.2	75.0	70.5	65.4
Jordan	5.6	0.8	11.6	45.5	27.8	30.8	30.4	35.7
Kazakhstan	3.1	1.5	6.6	3.6	18.0	-0.6	0.5	-3.2
Kenya	5.4	12.3	11.2	30.1	31.7	14.9	12.4	27.3
Kiribati								
Kuwait	18.8		454.7	175.0	111.0	247.5	218.3	537.4
Kyrgyzstan	3.3	8.3	36.3	25.7	38.1	12.1	23.6	35.4
Lao People's Democratic Republic								
Latvia	4.1	6.7	13.7	77.5	68.0	32.6	30.9	34.0
Lebanon	18.8	4.7	28.2	52.0	46.8	82.5	83.1	56.9
Lesotho								
Liberia								
Libya	4.1	0.8	3.0	7.0	5.8	15.8	17.4	9.1
Lithuania	6.1	11.1	14.7	84.2	78.3	35.6	60.1	37.8
Luxembourg	6.7	1.2	45.7	82.2	51.6	83.8	79.0	84.2
Madagascar	3.8	15.6	12.1	5.3	27.9	3.3	-1.8	8.8
Malawi	5.4	35.2	30.8	20.3	48.2	6.7	28.4	43.4
Malaysia	4.4	2.0	10.7	53.6	49.8	26.1	51.7	20.8
Maldives	18.8	1.5		43.1	49.6	-28.1	6.4	13.7
Mali	4.5	9.9	5.6	20.9	31.8	0.0	0.8	9.1
Malta	6.7	0.0	133.1	56.5	15.5	237.7	154.7	180.8
Marshall Islands								
Mauritania								
Mauritius	5.9	14.1	19.2	105.4	161.4	-68.9	-94.5	-16.7
Mexico	4.7	5.3	22.8	66.4	46.5	46.0	32.5	52.8
Micronesia (Federated States of)								
Mongolia	1.6	0.1	126.0	32.1	8.0	92.9	67.0	151.7
Montenegro	5.9	6.3	321.3	98.3	36.9		539.8	394.8
Morocco	4.0	2.6	3.6	21.1	14.1	19.1	8.1	17.3
Mozambique	5.5	13.8	5.3	8.1	20.0	9.2	9.0	12.6
Myanmar	8.8	44.7	40.3	35.0	58.4	32.5	20.8	70.4
Namibia	3.1	2.1	7.2	3.4	7.0	4.8	9.7	8.8
Nauru	1.8		53.1	0.0	126.2	-60.7	-75.7	-71.4
Nepal	30.8	30.9	46.4	49.4	104.9	44.1	28.1	52.5

TABLE 55.
CROPLAND NITROGEN BUDGET (KG PER HA) (CONTINUED)

COUNTRY	2020					CROPLAND NITROGEN BUDGET		
	INPUT: ATMOSPHERIC DEPOSITION	INPUT: BIOLOGICAL FIXATION	INPUT: MANURE APPLIED TO SOILS	INPUT: SYNTHETIC FERTILIZERS	OUTPUT: CROP REMOVAL	2000	2010	2020
Netherlands (Kingdom of the)	12.7	0.0	135.9	98.2	71.7	200.3	184.4	175.2
New Zealand	2.9	2.5	11.5	75.9	47.5	6.3	31.9	45.3
Nicaragua	4.6	13.6	24.4	38.1	42.5	17.3	37.8	38.1
Niger	4.4	4.3	1.9	0.3	12.8	2.6	-1.6	-1.8
Nigeria	6.7	14.2	4.6	11.3	29.8	-2.4	3.4	6.9
North Macedonia	6.2	1.7	27.3	47.4	36.4	40.6	46.1	46.2
Norway	1.7	0.3	58.9	132.2	32.5	142.2	137.9	160.6
Oman	3.2	0.0	14.4	95.3	58.1	40.1	114.4	54.8
Pakistan	15.7	5.9	31.6	114.1	45.9	64.8	103.7	121.5
Palau								
Panama	5.0	6.6	24.7	26.9	34.9	27.5	34.1	28.3
Papua New Guinea	1.2	0.8	15.3	26.4	50.6	-25.8	-13.6	-6.8
Paraguay	6.7	148.1	8.0	22.6	172.3	14.6	15.3	13.1
Peru	2.2	5.1	21.0	58.0	36.8	29.5	30.6	49.5
Philippines	3.3	12.1	14.7	69.1	75.6	13.7	8.0	23.6
Poland	12.3	4.1	29.7	69.2	70.2	48.4	67.7	45.1
Portugal	3.1	1.1	49.6	48.9	18.7	67.0	76.6	84.0
Qatar	3.8		11.2	68.8	11.2	45.6	92.4	72.5
Republic of Korea	15.2	17.2	83.6	161.3	76.5	206.8	169.9	200.9
Republic of Moldova	7.0	2.1	13.7	32.0	23.7	3.0	-1.4	31.2
Romania	7.4	3.1	19.5	64.4	46.3	32.9	29.4	48.1
Russian Federation	4.5	4.1	9.4	20.3	28.5	11.3	12.8	9.7
Rwanda	5.9	22.4	18.3	7.6	36.0	-1.0	2.2	18.2
Saint Kitts and Nevis	6.4	3.8	15.8	2.5	14.4	17.1	46.8	14.0
Saint Lucia	6.4	0.3	32.3	28.9	27.0	67.0	32.3	40.9
Saint Vincent and the Grenadines								
Samoa	0.5	0.0	22.9	0.3	90.7	-38.1	-64.0	-67.0
San Marino								
Sao Tome and Principe								
Saudi Arabia	3.0	0.3	6.8	49.2	10.1	50.3	40.5	49.2
Senegal	2.5	44.2	7.0	14.6	44.2	21.6	23.0	24.2
Serbia	7.8	12.7	24.9	94.0	88.2		33.6	51.3
Seychelles	5.9		55.9	29.7	59.7	44.3	21.4	31.7
Sierra Leone								
Singapore								
Slovakia	10.5	5.9	18.4	101.7	80.3	58.0	55.5	56.2
Slovenia	7.3	1.6	50.8	66.4	58.2	171.0	74.3	67.9
Solomon Islands								
Somalia								
South Africa	4.9	9.4	3.8	35.0	38.7	10.4	13.3	14.4
South Sudan								
Spain	6.3	2.5	33.1	61.3	42.7	61.1	60.1	60.5

TABLE 55.
CROPLAND NITROGEN BUDGET (KG PER HA) (CONTINUED)

COUNTRY	2020					CROPLAND NITROGEN BUDGET		
	INPUT: ATMOSPHERIC DEPOSITION	INPUT: BIOLOGICAL FIXATION	INPUT: MANURE APPLIED TO SOILS	INPUT: SYNTHETIC FERTILIZERS	OUTPUT: CROP REMOVAL	2000	2010	2020
Sri Lanka	3.8	12.8	5.9	86.2	58.3	50.3	47.2	50.5
Sudan	4.7	13.9	4.2	3.8	13.1			13.4
Suriname	1.1	24.3	32.0	97.6	73.8	71.7	153.8	81.2
Sweden	3.6	3.2	24.9	82.2	55.9	61.3	57.2	58.1
Switzerland	10.0	2.8	117.1	68.2	68.5	147.8	147.8	129.7
Syrian Arab Republic	4.9	4.3	0.9	6.0	25.6	22.1	10.6	-9.5
Tajikistan	4.2	3.4	55.4	58.6	59.3	9.9	9.6	62.3
Thailand	9.0	14.6	7.5	65.1	48.1	36.7	54.8	48.0
Timor-Leste								
Togo	8.6	7.6	7.3	1.2	15.7	7.0	8.9	9.1
Tonga	1.8	4.8	22.2	2.7	33.3	-21.1	-71.3	-1.8
Trinidad and Tobago	6.4	3.5	184.1	141.5	16.2	88.7	271.7	319.3
Tunisia	5.4	1.7	3.3	14.6	13.3	12.7	16.3	11.7
Türkiye	6.0	4.7	4.1	88.9	48.4	24.0	28.3	55.3
Turkmenistan	2.8	2.1	39.3	176.1	35.6	25.4	135.2	184.8
Tuvalu								
Uganda	9.1	7.9	8.1	0.8	21.2	4.0	7.7	4.8
Ukraine	7.2	5.7	7.8	50.0	51.9	15.2	9.3	18.9
United Arab Emirates	3.3		34.1	168.7	19.0	68.0	282.2	187.1
United Kingdom of Great Britain and Northern Ireland	8.0	9.3	65.4	131.6	78.5	147.2	122.9	135.8
United Republic of Tanzania	4.5	13.4	4.4	10.7	26.5	2.7	5.7	6.6
United States of America	7.1	44.3	12.3	59.1	86.9	37.6	39.7	35.9
Uruguay	7.9	74.0	18.1	79.3	87.7	35.6	52.9	91.6
Uzbekistan	3.4	1.8	63.6	161.9	84.0	99.2	91.7	146.7
Vanuatu								
Venezuela (Bolivarian Republic of)	6.3	2.7	46.1	38.8	20.4	58.7	97.2	73.6
Viet Nam	12.6	20.1	26.5	126.3	80.0	150.7	101.9	105.5
Yemen	2.8	3.7	8.1	6.4	14.4	4.3	10.1	6.6
Zambia	5.9	12.1	6.0	47.1	29.3	3.8	19.8	41.8
Zimbabwe	3.1	5.0	3.5	10.9	15.5	14.9	14.7	7.0

Source: FAO. 2022. Cropland nutrient budget. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/ESB

TABLE 56.
GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS, 2021 (MILLION TONNES CO_2EQ)

COUNTRY	COMPONENT			GREENHOUSE GAS				TOTAL
	FARM GATE	PRE- AND POST-PRODUCTION	LAND-USE CHANGE	CO_2	CH_4	N_2O	F-GASES	
World	7 792.2	5 334.1	3 101.2	8 174.8	5 264.5	2 303.5	484.8	16 227.5
Africa	1 184.4	430.2	1 234.5	1 454.9	913.3	440.8	40.0	2 849.1
Americas	1 833.6	1 109.7	1 319.9	2 257.8	1 320.0	568.0	117.4	4 263.2
Asia	3 521.7	2 864.8	448.1	3 231.0	2 437.4	918.7	247.5	6 834.6
Europe	1 041.9	870.0	82.9	1 131.1	477.9	312.3	73.5	1 994.7
Oceania	210.7	59.3	15.9	99.9	115.9	63.6	6.5	285.9
Afghanistan	15.8	6.5	0.0	2.3	15.4	4.0	0.6	22.3
Albania	2.8	1.5	0.0	0.9	2.5	0.7	0.2	4.3
Algeria	14.0	44.0	0.6	35.3	17.1	5.6	0.6	58.6
Andorra	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
Angola	34.8	5.4	48.3	38.0	28.9	21.5	0.1	88.5
Antigua and Barbuda	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.2
Argentina	155.8	52.8	54.8	107.7	104.7	44.7	6.2	263.4
Armenia	2.0	1.7	0.0	1.3	1.3	1.0	0.2	3.7
Australia	136.8	51.1	1.3	53.6	81.6	48.9	5.1	189.2
Austria	8.9	8.3	0.2	7.4	6.6	2.5	1.0	17.5
Azerbaijan	10.1	7.4	0.5	6.6	6.5	3.8	1.1	18.0
Bahamas	0.4	0.7	0.0	0.7	0.2	0.0	0.1	1.1
Bahrain	0.1	3.8	0.0	3.0	0.6	0.0	0.4	3.9
Bangladesh	114.1	25.5	0.2	26.9	85.8	25.1	1.9	139.8
Barbados	0.1	0.4	0.0	0.2	0.2	0.0	0.1	0.5
Belarus	68.7	17.3	0.0	59.5	12.2	14.0	0.2	86.0
Belgium	12.1	11.6	0.0	11.7	7.5	3.2	1.4	23.7
Belize	0.6	0.5	5.1	5.4	0.5	0.2	0.0	6.1
Benin	6.0	2.4	10.8	11.7	4.4	2.5	0.6	19.2
Bhutan	0.6	0.2	0.0	0.1	0.6	0.1	0.0	0.8
Bolivia (Plurinational State of)	32.3	7.9	77.5	71.6	30.3	13.1	2.7	117.7
Bosnia and Herzegovina	2.5	3.3	0.0	2.3	2.1	0.8	0.6	5.8
Botswana	15.2	1.6	40.5	42.6	8.0	6.4	0.3	57.3
Brazil	584.0	181.2	663.7	763.2	476.6	174.9	14.1	1 428.9
Brunei Darussalam	0.5	1.2	0.0	1.2	0.2	0.1	0.2	1.6
Bulgaria	7.2	5.2	3.2	9.0	3.0	3.5	0.2	15.7
Burkina Faso	25.7	3.9	6.5	7.3	19.3	8.8	0.6	36.1
Burundi	6.0	1.7	0.0	3.2	3.0	1.2	0.2	7.6
Cabo Verde	0.1	0.2	0.0	0.1	0.2	0.1	0.0	0.3
Cambodia	24.2	4.2	33.6	33.3	23.3	5.1	0.4	62.0
Cameroon	15.2	3.4	33.6	35.4	11.2	5.5	0.0	52.1
Canada	119.0	71.5	96.1	212.2	32.0	37.2	5.3	286.6
Central African Republic	18.3	0.9	34.1	14.0	22.2	16.8	0.3	53.3
Chad	85.7	2.3	24.3	23.8	62.2	26.0	0.4	112.3
Chile	14.0	19.3	0.0	12.7	11.3	5.3	4.0	33.2
China	925.2	1 398.0	0.0	1 322.4	578.4	319.7	102.8	2 323.2
Colombia	77.8	33.1	82.7	104.1	67.1	18.8	3.6	193.6

TABLE 56.
GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	COMPONENT			GREENHOUSE GAS				TOTAL
	FARM GATE	PRE- AND POST-PRODUCTION	LAND-USE CHANGE	CO_2	CH_4	N_2O	F-GASES	
Comoros	0.3	0.1	0.1	0.1	0.3	0.0	0.0	0.5
Congo	5.7	0.8	7.0	10.3	1.9	1.4	0.0	13.6
Costa Rica	4.0	3.2	0.0	1.6	4.1	1.3	0.2	7.2
Côte d'Ivoire	9.2	8.4	23.7	28.7	8.0	2.9	1.7	41.3
Croatia	3.5	4.9	0.5	4.8	2.3	1.4	0.3	8.8
Cuba	14.4	5.5	0.0	7.3	9.4	2.8	0.5	20.0
Cyprus	0.6	1.1	0.0	1.0	0.5	0.2	0.0	1.8
Czechia	8.5	12.3	1.0	11.9	4.7	3.4	1.8	21.8
Democratic People's Republic of Korea	5.6	3.0	3.1	4.3	4.0	1.3	2.1	11.8
Democratic Republic of the Congo	28.4	10.7	628.8	601.6	39.0	25.4	1.8	667.8
Denmark	14.8	4.0	2.3	9.4	7.1	4.2	0.2	21.0
Djibouti	0.8	0.3	0.0	0.1	0.6	0.2	0.1	1.0
Dominica	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Dominican Republic	10.8	10.4	0.6	6.8	10.8	2.9	1.4	21.8
Ecuador	14.9	9.4	26.0	32.2	13.9	4.1	0.2	50.4
Egypt	28.6	59.0	0.2	43.6	26.6	14.1	3.4	87.7
El Salvador	2.5	3.2	1.1	2.6	3.2	0.9	0.2	6.8
Equatorial Guinea	0.2	0.5	3.8	4.1	0.1	0.0	0.2	4.4
Eritrea	4.8	0.1	0.7	0.7	3.4	1.4	0.0	5.6
Estonia	7.8	1.7	0.0	6.8	0.9	1.5	0.1	9.4
Eswatini	1.3	0.8	0.3	1.1	0.8	0.4	0.1	2.4
Ethiopia	133.5	9.5	31.6	38.2	92.4	43.9	0.0	174.6
Fiji	0.5	0.4	0.0	0.2	0.4	0.1	0.2	0.9
Finland	22.1	5.1	0.0	19.3	2.8	4.4	0.7	27.2
France	88.8	82.9	0.0	78.4	50.2	29.0	14.1	171.7
Gabon	1.1	0.7	5.7	6.7	0.4	0.3	0.0	7.4
Gambia	1.4	0.4	0.5	0.6	1.2	0.3	0.1	2.3
Georgia	2.0	3.4	0.0	2.1	1.8	1.5	0.1	5.5
Germany	94.4	86.0	0.0	112.8	40.0	24.9	2.7	180.4
Ghana	11.3	7.5	0.0	3.4	10.7	4.7	0.0	18.8
Greece	9.8	13.0	0.0	9.0	8.9	3.2	1.8	22.9
Grenada	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
Guatemala	11.4	6.6	4.4	7.7	10.6	3.8	0.3	22.4
Guinea	22.4	1.9	11.5	12.8	16.6	5.9	0.6	35.9
Guinea-Bissau	2.0	0.4	1.6	1.6	1.6	0.7	0.1	4.0
Guyana	5.6	0.5	9.7	13.7	1.5	0.5	0.1	15.9
Haiti	4.7	7.3	0.6	1.4	5.8	1.3	4.1	12.6
Honduras	7.7	4.3	5.6	7.5	7.2	2.3	0.6	17.6
Hungary	15.5	11.1	0.4	13.9	6.0	5.9	1.3	27.0
Iceland	2.0	0.5	0.0	1.5	0.5	0.4	0.2	2.5
India	952.1	354.8	2.6	320.3	724.8	222.2	42.2	1 309.5
Indonesia	401.3	163.4	236.2	564.4	175.2	61.2	0.1	800.9

TABLE 56.
GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	COMPONENT			GREENHOUSE GAS				TOTAL
	FARM GATE	PRE- AND POST-PRODUCTION	LAND-USE CHANGE	CO_2	CH_4	N_2O	F-GASES	
Iran (Islamic Republic of)	68.6	69.8	0.0	81.4	37.7	18.0	1.3	138.4
Iraq	8.6	20.6	0.5	9.9	16.0	3.7	0.0	29.6
Ireland	36.4	4.9	0.0	15.5	16.9	8.5	0.4	41.3
Israel	4.4	13.6	0.1	8.2	3.1	1.2	5.6	18.1
Italy	44.6	92.1	0.0	77.3	29.5	12.1	17.8	136.7
Jamaica	2.2	2.3	0.0	2.7	1.4	0.3	0.1	4.5
Japan	44.0	115.0	1.7	122.3	22.6	10.3	5.5	160.7
Jordan	2.8	5.8	0.0	4.8	2.7	0.7	0.4	8.5
Kazakhstan	33.1	25.4	0.0	24.5	23.2	10.2	0.7	58.5
Kenya	54.8	8.4	0.0	1.6	43.7	17.7	0.1	63.2
Kiribati	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kuwait	1.4	10.8	0.0	6.9	1.9	0.4	2.9	12.2
Kyrgyzstan	6.0	1.8	0.0	0.9	5.1	1.7	0.1	7.8
Lao People's Democratic Republic	11.6	3.3	13.8	14.1	9.6	3.1	1.8	28.7
Latvia	8.8	1.3	0.6	7.1	1.6	2.0	0.0	10.7
Lebanon	1.5	5.7	0.0	2.8	1.9	0.5	2.0	7.3
Lesotho	1.1	0.6	0.0	0.2	0.8	0.4	0.3	1.7
Liberia	0.6	0.7	13.7	13.9	0.8	0.3	0.0	15.0
Libya	3.8	7.9	0.0	6.6	3.0	1.2	0.9	11.7
Lithuania	15.4	6.6	0.7	16.2	2.3	4.0	0.2	22.7
Luxembourg	0.7	0.9	0.0	0.9	0.5	0.2	0.0	1.7
Madagascar	28.3	3.8	5.1	9.5	21.5	6.2	0.0	37.2
Malawi	10.7	1.3	7.3	8.2	5.2	5.6	0.3	19.3
Malaysia	45.8	42.8	34.4	99.2	11.9	6.4	5.4	123.0
Maldives	0.0	0.3	0.0	0.2	0.1	0.0	0.0	0.3
Mali	39.9	2.6	0.1	1.0	27.4	13.8	0.4	42.5
Malta	0.1	0.5	0.0	0.2	0.2	0.0	0.2	0.6
Marshall Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mauritania	10.6	1.0	0.7	1.4	8.0	2.9	0.0	12.3
Mauritius	0.1	1.6	0.0	0.4	0.2	0.1	1.1	1.8
Mexico	114.5	110.0	15.0	68.2	129.7	35.5	6.2	239.5
Micronesia (Federated States of)	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Mongolia	53.9	4.8	0.2	24.5	21.5	12.7	0.1	58.9
Montenegro	0.4	0.7	0.0	0.4	0.5	0.1	0.1	1.1
Morocco	21.2	25.7	0.0	24.7	14.3	7.8	0.1	46.8
Mozambique	18.9	3.8	58.5	54.6	15.7	10.6	0.2	81.2
Myanmar	78.1	12.0	94.5	101.6	66.0	16.6	0.4	184.6
Namibia	10.4	0.6	10.6	11.8	5.9	3.7	0.2	21.5
Nauru	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nepal	31.2	5.3	1.4	4.2	26.3	6.3	1.1	37.9
Netherlands (Kingdom of the)	37.8	22.3	0.0	38.5	13.9	7.1	0.7	60.1
New Zealand	47.5	6.2	1.8	10.2	31.6	12.9	0.8	55.4
Nicaragua	12.9	3.1	20.4	21.5	11.7	3.1	0.2	36.5

TABLE 56.
GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	COMPONENT			GREENHOUSE GAS				TOTAL
	FARM GATE	PRE- AND POST-PRODUCTION	LAND-USE CHANGE	CO_2	CH_4	N_2O	F-GASES	
Niger	36.2	3.2	1.3	1.6	27.0	11.6	0.4	40.6
Nigeria	84.7	87.0	46.3	100.7	86.5	29.5	1.4	218.0
North Macedonia	1.2	2.4	0.0	1.6	1.3	0.4	0.3	3.5
Norway	12.3	2.8	0.0	8.9	3.1	2.7	0.3	15.1
Oman	2.2	9.4	0.0	8.5	1.7	0.7	0.6	11.6
Pakistan	223.0	56.3	7.0	31.9	194.8	58.4	1.2	286.3
Palau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Panama	4.4	4.4	3.8	6.4	4.5	1.1	0.7	12.7
Papua New Guinea	24.7	0.9	11.5	33.9	1.5	1.5	0.2	37.0
Paraguay	33.2	3.1	48.3	49.2	26.3	9.1	0.0	84.6
Peru	28.7	16.8	93.0	100.2	29.5	8.1	0.8	138.5
Philippines	70.3	36.8	0.0	25.1	66.7	10.8	4.6	107.2
Poland	70.1	60.9	0.0	80.2	26.9	22.1	1.6	131.0
Portugal	9.3	10.6	0.0	8.3	8.2	2.3	1.2	19.9
Qatar	2.8	10.9	0.0	10.1	1.0	0.3	2.3	13.8
Republic of Korea	29.6	67.1	2.8	68.7	18.1	5.8	6.9	99.5
Republic of Moldova	2.1	3.7	0.0	2.1	2.5	1.0	0.2	5.8
Romania	18.2	15.7	5.1	17.4	12.2	8.7	0.6	39.0
Russian Federation	185.7	223.2	34.5	280.4	87.9	63.6	11.6	443.5
Rwanda	5.5	3.4	0.0	2.0	5.2	1.6	0.2	8.9
Saint Kitts and Nevis	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Saint Lucia	0.0	0.2	0.0	0.1	0.1	0.0	0.0	0.3
Saint Vincent and the Grenadines	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
Samoa	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.3
San Marino	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sao Tome and Principe	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.3
Saudi Arabia	10.2	58.8	0.0	49.9	14.3	4.2	0.6	69.0
Senegal	13.6	4.8	4.1	5.7	10.7	5.0	1.0	22.4
Serbia	6.3	8.1	6.6	12.5	5.1	2.3	1.2	21.0
Seychelles	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1
Sierra Leone	4.4	0.9	3.5	3.7	3.9	1.1	0.0	8.8
Singapore	0.0	4.8	0.0	2.6	0.2	0.0	2.0	4.9
Slovakia	2.8	4.0	0.0	3.1	2.0	1.3	0.3	6.8
Slovenia	2.1	1.9	1.2	2.9	1.6	0.6	0.1	5.2
Solomon Islands	0.1	0.2	0.2	0.3	0.1	0.0	0.1	0.5
Somalia	23.5	1.4	17.4	17.4	19.3	5.5	0.0	42.2
South Africa	44.8	44.4	6.7	50.0	27.4	15.4	3.1	95.9
South Sudan	57.2	2.0	2.2	9.7	31.2	19.1	1.4	61.4
Spain	53.2	38.5	0.8	35.0	39.7	16.7	1.0	92.5
Sri Lanka	8.0	6.3	0.6	4.4	8.6	1.6	0.4	14.9
Sudan	81.2	8.8	21.0	26.1	57.8	25.7	1.4	111.0
Suriname	1.7	0.4	8.6	9.8	0.6	0.2	0.1	10.6
Sweden	18.9	3.9	23.8	37.5	4.2	4.5	0.5	46.7

TABLE 56.
GREENHOUSE GAS EMISSIONS FROM AGRIFOOD SYSTEMS, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	COMPONENT			GREENHOUSE GAS				TOTAL
	FARM GATE	PRE- AND POST-PRODUCTION	LAND-USE CHANGE	CO_2	CH_4	N_2O	F-GASES	
Switzerland	7.0	9.1	0.5	6.6	5.1	1.7	3.2	16.6
Syrian Arab Republic	7.2	10.5	0.3	4.7	7.2	2.5	3.7	18.1
Tajikistan	7.4	1.8	0.0	0.8	6.2	2.2	0.0	9.2
Thailand	84.1	90.0	13.8	66.2	79.6	17.3	24.8	187.9
Timor-Leste	1.0	0.5	0.5	0.5	0.9	0.2	0.3	2.0
Togo	3.1	2.0	1.2	1.5	2.8	1.4	0.5	6.3
Tonga	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Trinidad and Tobago	0.4	20.9	0.1	18.4	0.8	0.9	1.2	21.4
Tunisia	6.6	10.3	0.0	8.1	5.0	2.8	1.1	16.9
Türkiye	73.6	78.6	0.0	55.3	59.2	31.5	6.3	152.3
Turkmenistan	15.6	4.6	0.0	7.4	7.6	5.1	0.2	20.3
Tuvalu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uganda	34.8	13.0	10.5	17.8	24.3	10.2	6.1	58.3
Ukraine	56.8	39.4	1.4	53.0	19.2	24.8	0.7	97.7
United Arab Emirates	4.1	15.5	0.0	14.4	3.7	0.9	0.5	19.6
United Kingdom of Great Britain and Northern Ireland	81.4	47.7	0.0	66.0	36.2	22.6	4.3	129.1
United Republic of Tanzania	68.4	18.6	63.0	64.7	54.5	22.9	7.9	150.1
United States of America	495.4	502.7	59.7	551.3	269.8	177.0	59.7	1 057.9
Uruguay	29.5	2.6	0.0	2.0	22.7	7.3	0.2	32.1
Uzbekistan	45.1	21.1	0.0	21.0	28.9	16.1	0.1	66.1
Vanuatu	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.4
Venezuela (Bolivarian Republic of)	42.6	20.1	39.9	58.0	31.6	9.8	3.1	102.6
Viet Nam	83.6	65.9	0.1	61.7	61.4	20.6	5.9	149.6
Yemen	8.3	9.4	0.0	2.4	7.9	3.1	4.4	17.7
Zambia	37.0	2.6	36.6	34.4	23.1	18.8	0.0	76.2
Zimbabwe	11.3	2.8	10.7	12.5	7.9	3.9	0.5	24.7

Source: FAO. 2023. Emissions totals. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/GT

TABLE 57.
FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY, 2021 (MILLION TONNES CO_2EQ)

COUNTRY	ENTERIC FERMENTATION	ON-FARM ENERGY USE	DRAINED ORGANIC SOILS	MANURE LEFT ON PASTURE	RICE CULTIVATION	OTHER	TOTAL
World	2 863.2	928.5	922.1	777.7	686.2	1 614.6	7 792.2
Africa	539.4	40.1	63.3	247.4	46.5	247.7	1 184.4
Americas	927.5	161.1	123.7	231.3	30.0	360.1	1 833.6
Asia	1 036.9	582.4	367.9	237.7	602.1	694.7	3 521.7
Europe	273.4	132.4	338.4	29.7	7.2	260.8	1 041.9
Oceania	86.1	12.5	28.9	31.5	0.4	51.4	210.7
Afghanistan	10.6	0.1	0.0	2.7	0.6	1.8	15.8
Albania	1.5	0.3	0.1	0.3	0.0	0.6	2.8
Algeria	7.6	1.2	0.0	4.0	0.0	1.2	14.0
Andorra		0.0	0.0			0.0	0.0
Angola	5.6	0.0	0.3	2.7	0.1	26.0	34.8
Antigua and Barbuda	0.0	0.1	0.0	0.0		0.0	0.1
Argentina	88.3	14.3	5.8	23.3	1.6	22.5	155.8
Armenia	0.7	0.3	0.0	0.4		0.6	2.0
Australia	58.2	9.9	3.3	22.2	0.4	42.8	136.8
Austria	4.1	1.1	0.3	0.4		2.9	8.9
Azerbaijan	4.1	2.2	0.0	2.1	0.0	1.7	10.1
Bahamas	0.0	0.3	0.0	0.0		0.0	0.4
Bahrain	0.0	0.1	0.0	0.0		0.0	0.1
Bangladesh	33.1	4.0	18.3	8.7	32.6	17.4	114.1
Barbados	0.0	0.0	0.0	0.0		0.0	0.1
Belarus	8.7	3.7	49.8	0.5		6.0	68.7
Belgium	4.9	2.4	0.2	0.4		4.2	12.1
Belize	0.2	0.1	0.2	0.0	0.0	0.1	0.6
Benin	3.0	0.0	0.0	1.4	0.1	1.5	6.0
Bhutan	0.4	0.0	0.0	0.1	0.0	0.1	0.6
Bolivia (Plurinational State of)	20.9	0.8	0.0	5.8	0.4	4.5	32.3
Bosnia and Herzegovina	1.0	0.3	0.1	0.1		0.8	2.5
Botswana	1.2	0.3	0.7	0.6		12.5	15.2
Brazil	370.9	28.8	0.5	95.3	3.1	85.4	584.0
Brunei Darussalam	0.0	0.1	0.3	0.0	0.0	0.1	0.5
Bulgaria	1.6	0.7	1.3	0.2	0.1	3.3	7.2
Burkina Faso	14.2	0.0	0.0	6.9	1.5	3.1	25.7
Burundi	1.5	0.1	3.2	0.7	0.1	0.4	6.0
Cabo Verde	0.1	0.0	0.0	0.0		0.0	0.1
Cambodia	4.7	0.0	0.0	0.8	14.2	4.5	24.2
Cameroon	6.9	0.0	1.6	3.4	0.6	2.6	15.2
Canada	19.4	20.8	45.4	3.9		29.5	119.0
Central African Republic	5.3	0.0	0.1	2.5	0.0	10.4	18.3
Chad	55.3	0.2	0.0	22.7	0.4	7.1	85.7
Chile	5.6	2.5	1.2	1.8	0.1	2.7	14.0
China	189.1	275.9	4.7	55.0	148.3	252.2	925.2
Colombia	49.7	4.3	0.7	12.4	3.2	7.4	77.8
Comoros	0.1	0.0	0.0	0.0	0.2	0.0	0.3

TABLE 57.
FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	ENTERIC FERMENTATION	ON-FARM ENERGY USE	DRAINED ORGANIC SOILS	MANURE LEFT ON PASTURE	RICE CULTIVATION	OTHER	TOTAL
Congo	0.4	0.2	3.1	0.2	0.0	2.0	5.7
Costa Rica	2.5	0.0	0.1	0.5	0.0	0.8	4.0
Côte d'Ivoire	2.6	0.3	2.4	1.5	0.5	1.8	9.2
Croatia	1.1	0.8	0.0	0.1		1.4	3.5
Cuba	6.7	4.3	0.0	1.9	0.5	1.0	14.4
Cyprus	0.2	0.2	0.0	0.1		0.2	0.6
Czechia	2.7	1.9	0.3	0.2		3.4	8.5
Democratic People's Republic of Korea	1.4	0.2	0.2	0.5	2.3	1.0	5.6
Democratic Republic of the Congo	2.0	0.0	0.5	1.1	1.0	23.9	28.4
Denmark	3.9	1.7	2.8	0.3		6.1	14.8
Djibouti	0.5	0.0	0.0	0.2		0.0	0.8
Dominica	0.0	0.0	0.0	0.0		0.0	0.0
Dominican Republic	5.4	0.9	0.0	1.6	1.5	1.4	10.8
Ecuador	7.0	1.6	0.1	1.9	2.0	2.3	14.9
Egypt	6.0	6.7	0.0	2.9	3.7	9.3	28.6
El Salvador	1.4	0.3	0.0	0.3	0.0	0.6	2.5
Equatorial Guinea	0.0	0.1	0.0	0.0		0.0	0.2
Eritrea	3.3	0.0	0.0	1.3		0.2	4.8
Estonia	0.6	0.4	6.2	0.1		0.6	7.8
Eswatini	0.6	0.2	0.0	0.3	0.0	0.1	1.3
Ethiopia	79.3	0.6	5.9	36.1	0.2	11.2	133.5
Fiji	0.2	0.0	0.1	0.1	0.0	0.2	0.5
Finland	1.9	1.7	16.6	0.2		1.9	22.1
France	35.7	12.8	6.8	3.8	0.2	29.6	88.8
Gabon	0.1	0.0	0.6	0.1	0.0	0.3	1.1
Gambia	0.5	0.1	0.0	0.2	0.5	0.1	1.4
Georgia	1.2	0.1	0.0	0.6		0.2	2.0
Germany	25.7	10.5	32.7	2.2		23.3	94.4
Ghana	3.8	0.5	0.1	2.2	0.8	3.8	11.3
Greece	3.1	1.5	1.5	1.0	0.5	2.3	9.8
Grenada	0.0	0.0	0.0	0.0		0.0	0.0
Guatemala	7.0	0.4	0.0	1.7	0.0	2.3	11.4
Guinea	9.0	0.3	0.7	4.2	5.1	3.1	22.4
Guinea-Bissau	0.9	0.1	0.0	0.4	0.2	0.4	2.0
Guyana	0.2	0.7	3.2	0.1	1.1	0.3	5.6
Haiti	3.1	0.1	0.0	0.9	0.2	0.4	4.7
Honduras	4.9	0.4	0.0	1.2	0.0	1.1	7.7
Hungary	2.1	1.9	6.6	0.2	0.0	4.7	15.5
Iceland	0.3	0.7	0.9	0.1		0.1	2.0
India	400.1	159.9	5.1	60.5	137.1	189.4	952.1
Indonesia	31.6	2.9	251.1	12.9	61.6	41.2	401.3
Iran (Islamic Republic of)	15.4	33.1	0.0	6.9	2.7	10.6	68.6
Iraq	3.7	0.4	0.0	1.9	0.8	1.7	8.6
Ireland	14.1	1.0	12.9	1.5		7.0	36.4

TABLE 57.
FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	ENTERIC FERMENTATION	ON-FARM ENERGY USE	DRAINED ORGANIC SOILS	MANURE LEFT ON PASTURE	RICE CULTIVATION	OTHER	TOTAL
Israel	0.6	2.9	0.0	0.5		0.4	4.4
Italy	15.9	9.8	0.8	1.8	3.2	12.9	44.6
Jamaica	0.3	1.4	0.3	0.1	0.0	0.1	2.2
Japan	6.1	17.2	5.1	1.4	8.2	5.9	44.0
Jordan	0.7	1.5	0.0	0.4		0.2	2.8
Kazakhstan	17.4	3.0	0.0	3.7	0.6	8.3	33.1
Kenya	35.7	0.1	0.2	15.3	0.1	3.5	54.8
Kiribati	0.0	0.0	0.0	0.0		0.0	0.0
Kuwait	0.2	0.8	0.0	0.3		0.1	1.4
Kyrgyzstan	4.0	0.0	0.0	0.8	0.1	1.1	6.0
Lao People's Democratic Republic	5.2	0.2	0.0	0.9	2.6	2.7	11.6
Latvia	0.9	0.6	6.2	0.1		1.1	8.8
Lebanon	0.2	0.8	0.0	0.3		0.2	1.5
Lesotho	0.7	0.0	0.0	0.3		0.1	1.1
Liberia	0.1	0.0	0.1	0.1	0.1	0.1	0.6
Libya	1.7	0.8	0.0	1.0		0.2	3.8
Lithuania	1.4	0.3	11.5	0.1		2.0	15.4
Luxembourg	0.4	0.1	0.0	0.0		0.2	0.7
Madagascar	8.7	0.0	4.6	4.0	7.9	3.1	28.3
Malawi	3.7	0.1	0.9	1.9	0.2	3.9	10.7
Malaysia	1.2	3.3	33.2	0.8	3.2	4.1	45.8
Maldives		0.0	0.0			0.0	0.0
Mali	21.4	0.3	0.0	10.1	1.7	6.5	39.9
Malta	0.0	0.0	0.0	0.0		0.0	0.1
Marshall Islands		0.0	0.0			0.0	0.0
Mauritania	6.5	0.2	0.0	2.6	0.6	0.6	10.6
Mauritius	0.0	0.0	0.0	0.1	0.0	0.1	0.1
Mexico	65.7	11.9	0.0	18.9	0.1	17.8	114.5
Micronesia (Federated States of)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Mongolia	18.1	0.1	26.5	6.1		3.1	53.9
Montenegro	0.3	0.0	0.0	0.0		0.1	0.4
Morocco	8.1	5.5	0.0	4.8	0.1	2.8	21.2
Mozambique	3.0	0.9	0.0	1.5	0.6	13.0	18.9
Myanmar	19.4	0.4	14.7	2.8	28.6	12.2	78.1
Namibia	3.2	1.0	0.0	1.5		4.6	10.4
Nauru	0.0	0.0	0.0	0.0		0.0	0.0
Nepal	16.7	0.9	2.6	2.9	4.3	3.8	31.2
Netherlands (Kingdom of the)	9.3	11.8	8.5	0.8		7.4	37.8
New Zealand	26.9	2.0	2.7	9.0		6.9	47.5
Nicaragua	9.4	0.1	0.0	2.3	0.1	1.1	12.9
Niger	23.6	0.0	0.0	10.4	0.0	2.1	36.2
Nigeria	37.8	2.0	0.0	19.6	13.2	12.0	84.7
North Macedonia	0.6	0.1	0.0	0.1	0.0	0.4	1.2
Norway	2.4	1.6	6.5	0.3		1.5	12.3

TABLE 57.
FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	ENTERIC FERMENTATION	ON-FARM ENERGY USE	DRAINED ORGANIC SOILS	MANURE LEFT ON PASTURE	RICE CULTIVATION	OTHER	TOTAL
Oman	1.2	0.2	0.0	0.6		0.1	2.2
Pakistan	136.4	4.0	0.0	25.4	13.9	43.3	223.0
Palau		0.0	0.0			0.0	0.0
Panama	2.5	0.1	0.7	0.7	0.0	0.5	4.4
Papua New Guinea	0.2	0.4	22.8	0.1	0.0	1.2	24.7
Paraguay	22.1	0.0	0.0	5.7	0.7	4.7	33.2
Peru	16.7	0.7	0.1	4.4	2.8	4.0	28.7
Philippines	8.8	4.1	0.0	2.0	45.0	10.4	70.3
Poland	13.3	9.0	33.6	0.8		13.4	70.1
Portugal	3.7	1.7	0.3	0.5	0.4	2.7	9.3
Qatar	0.4	2.3	0.0	0.2		0.0	2.8
Republic of Korea	5.7	14.1	0.0	1.2	4.3	4.2	29.6
Republic of Moldova	0.4	0.5	0.2	0.1		1.0	2.1
Romania	7.1	1.7	0.7	1.2	0.0	7.6	18.2
Russian Federation	43.1	29.4	62.7	3.9	1.5	45.2	185.7
Rwanda	2.0	0.1	1.8	0.9	0.1	0.6	5.5
Saint Kitts and Nevis	0.0	0.0	0.0	0.0		0.0	0.0
Saint Lucia	0.0	0.0	0.0	0.0		0.0	0.0
Saint Vincent and the Grenadines	0.0	0.0	0.0	0.0		0.0	0.0
Samoa	0.1	0.0	0.0	0.0		0.1	0.2
San Marino			0.0			0.0	0.0
Sao Tome and Principe	0.0	0.0	0.0	0.0		0.0	0.0
Saudi Arabia	3.5	2.9	0.0	2.3	0.0	1.5	10.2
Senegal	6.0	0.4	0.0	3.1	0.7	3.3	13.6
Serbia	2.6	0.6	0.0	0.3		2.8	6.3
Seychelles	0.0	0.0	0.0	0.0		0.0	0.0
Sierra Leone	1.2	0.1	0.0	0.6	1.7	0.7	4.4
Singapore	0.0	0.0	0.0	0.0		0.0	0.0
Slovakia	0.9	0.3	0.1	0.1		1.4	2.8
Slovenia	1.0	0.2	0.2	0.1		0.6	2.1
Solomon Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Somalia	17.1	0.1	0.0	5.3	0.0	1.0	23.5
South Africa	15.0	11.9	0.6	7.5	0.0	9.8	44.8
South Sudan	19.4	0.1	9.9	8.8	0.1	18.9	57.2
Spain	17.2	9.7	0.5	2.6	1.2	22.0	53.2
Sri Lanka	1.7	0.0	1.3	0.3	3.4	1.4	8.0
Sudan	50.5	1.7	0.0	21.7	0.0	7.3	81.2
Suriname	0.1	0.4	0.7	0.0	0.4	0.1	1.7
Sweden	2.9	1.3	11.6	0.3		2.8	18.9
Switzerland	3.5	0.5	1.0	0.3		1.8	7.0
Syrian Arab Republic	3.7	1.1	0.0	1.9	0.0	0.5	7.2
Tajikistan	4.7	0.2	0.0	0.9	0.1	1.6	7.4
Thailand	7.7	7.6	1.1	1.8	50.4	15.6	84.1
Timor-Leste	0.6	0.0	0.0	0.1	0.1	0.2	1.0

TABLE 57.
FARM-GATE GREENHOUSE GAS EMISSIONS BY ACTIVITY, 2021 (MILLION TONNES CO_2EQ) (CONTINUED)

COUNTRY	ENTERIC FERMENTATION	ON-FARM ENERGY USE	DRAINED ORGANIC SOILS	MANURE LEFT ON PASTURE	RICE CULTIVATION	OTHER	TOTAL
Togo	1.3	0.0	0.0	0.8	0.0	1.0	3.1
Tonga	0.0	0.0	0.0	0.0		0.0	0.1
Trinidad and Tobago	0.1	0.1	0.0	0.1	0.0	0.1	0.4
Tunisia	2.2	1.9	0.0	1.5		1.0	6.6
Türkiye	26.6	17.3	0.0	14.7	1.0	14.0	73.6
Turkmenistan	6.5	3.5	0.0	1.6	0.1	3.9	15.6
Tuvalu	0.0	0.0	0.0	0.0		0.0	0.0
Uganda	16.9	0.5	6.1	7.9	0.2	3.1	34.8
Ukraine	7.1	5.9	23.2	0.5	0.1	20.1	56.8
United Arab Emirates	1.4	1.9	0.0	0.6		0.2	4.1
United Kingdom of Great Britain and Northern Ireland	26.3	3.7	31.4	4.3		15.7	81.4
United Republic of Tanzania	33.8	0.1	4.7	15.5	4.2	10.1	68.4
United States of America	169.0	64.0	56.1	34.3	9.9	162.2	495.4
Uruguay	20.1	0.5	0.2	5.3	1.1	2.3	29.5
Uzbekistan	23.6	5.4	0.0	4.2	0.3	11.6	45.1
Vanuatu	0.2	0.0	0.0	0.1		0.1	0.3
Venezuela (Bolivarian Republic of)	27.4	1.0	1.7	6.7	1.3	4.5	42.6
Viet Nam	13.1	6.8	4.0	3.3	35.7	20.7	83.6
Yemen	5.0	0.2	0.0	2.7		0.4	8.3
Zambia	4.1	0.2	15.3	2.0	0.1	15.3	37.0
Zimbabwe	6.0	0.7	0.0	2.8	0.0	1.7	11.3

Source: FAO. 2023. Emissions totals. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/GT

TABLE 58.
EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES, 2021 (KG CO_2EQ PER KG)

COUNTRY	MEAT				MILK		EGGS	CEREALS	
	MEAT, CATTLE	MEAT, SHEEP	MEAT, PIG	MEAT, CHICKEN	MILK, WHOLE FRESH SHEEP	MILK, WHOLE FRESH COW	EGGS, HEN, IN SHELL	RICE, PADDY	CEREALS EXCLUDING RICE
World	28.3	24.5	1.7	0.5	5.9	1.0	0.6	1.0	0.2
Africa	57.1	35.7	5.5	0.9	8.3	3.0	0.9	1.4	0.2
Americas	29.9	39.7	2.3	0.3	6.7	0.7	0.4	1.0	0.2
Asia	21.9	17.7	1.3	0.9	6.1	1.1	0.5	1.0	0.2
Europe	17.1	28.0	1.7	0.3	3.0	0.6	0.9	2.0	0.1
Oceania	25.1	29.5	4.8	0.3		0.8	0.3	1.0	0.2
Afghanistan	13.0	12.9		0.4	7.5	3.9	2.4	1.4	0.1
Albania	3.9	6.6	5.2	0.7	5.1	1.6	0.9		0.1
Algeria	7.3	7.4	11.3	1.8	8.0	0.7	0.4	117.0	0.1
Andorra									
Angola	56.3	55.4	6.9	5.0		3.8	1.0	7.1	0.2
Antigua and Barbuda	5.5	466.2	25.5	5.1		2.9	1.1		0.2
Argentina	34.8	55.4	1.7	0.1		0.3	0.3	1.2	0.1
Armenia	7.0	3.7	2.4	0.7	2.0	0.9	0.4		2.0
Australia	28.2	36.3	3.0	0.3		0.6	0.3	1.0	0.2
Austria	13.8	17.9	1.6	0.3	0.9	0.6	0.6		0.1
Azerbaijan	11.6	17.1	2.8	0.5	2.2	1.2	0.7	2.5	0.2
Bahamas	7.6	47.4	2.8	1.9		2.5	0.7		0.2
Bahrain	5.7	0.5		0.6	2.6	0.8	0.4		
Bangladesh	93.0	67.5		1.5	4.5	10.1	2.1	0.8	0.1
Barbados	108.6	45.3	2.2	0.9		1.8	2.0		0.4
Belarus	17.5	23.4	1.4	0.1		0.7	1.3		0.3
Belgium	15.7	9.7	1.5	0.2	45.4	0.6	1.1		0.2
Belize	128.0	87.5	2.6	0.2		2.0	1.0	0.7	0.4
Benin	76.3	26.1	17.4	3.2		12.3	6.4	0.4	0.2
Bhutan	182.8	14.5	4.0	0.7		3.4	0.9	0.9	0.1
Bolivia (Plurinational State of)	71.5	45.5	6.0	1.5	8.3	1.0	1.0	0.7	0.1
Bosnia and Herzegovina	35.2	235.8	19.3	0.3	3.0	1.2	1.4		0.2
Botswana	31.3	37.5	1.5	0.2		1.3	1.1		0.5
Brazil	42.8	43.1	2.1	0.3		1.1	0.4	0.6	0.2
Brunei Darussalam	0.1	33.3	6.5	2.4		6.3	0.7	2.1	
Bulgaria	46.1	11.7	1.8	0.5	4.2	1.0	1.1	5.9	0.2
Burkina Faso	102.3	92.6	2.3	0.5	3.6	14.8	1.6	3.4	0.1
Burundi	74.8	154.1	21.5	1.0	13.9	3.7	1.9	0.9	0.2
Cabo Verde	42.1	49.4	7.3	4.0		2.8	0.7		8.1
Cambodia	88.6		5.1	1.7		15.8	1.4	1.4	0.1
Cameroon	90.1	37.9	16.8	2.5	10.6	3.2	1.7	1.8	0.1
Canada	14.4	12.3	2.3	0.4		0.6	0.5		0.3
Central African Republic	55.7	37.4	14.2	4.0		7.6	1.5	1.5	0.2
Chad	84.2	43.0	11.3	3.1	5.4	9.3	1.7	1.6	0.1
Chile	23.2	44.8	1.0	0.5		0.7	0.3	1.2	0.3
China	12.4	11.6	1.1	0.5	8.0	0.8	0.5	0.9	0.2

TABLE 58.
EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES, 2021 (KG CO_2EQ PER KG) (CONTINUED)

COUNTRY	MEAT				MILK		EGGS	CEREALS	
	MEAT, CATTLE	MEAT, SHEEP	MEAT, PIG	MEAT, CHICKEN	MILK, WHOLE FRESH SHEEP	MILK, WHOLE FRESH COW	EGGS, HEN, IN SHELL	RICE, PADDY	CEREALS EXCLUDING RICE
Colombia	67.8	679.3	2.7	0.3		1.3	0.3	1.1	0.3
Comoros	43.5	56.6		2.4		1.4	1.1	6.1	0.1
Congo	76.0	60.2	17.0	1.5		1.4	2.0	4.4	0.4
Costa Rica	10.1	40.5	1.3	0.6		1.8	0.3	0.6	0.5
Côte d'Ivoire	50.6	56.9	9.5	4.8		18.5	0.4	0.4	0.2
Croatia	16.7	32.7	2.3	0.3	5.6	0.9	1.9		0.2
Cuba	107.6	18.2	3.4	4.0		2.1	0.6	2.6	0.1
Cyprus	10.5	10.6	2.4	0.3	1.0	0.3	0.4		0.5
Czechia	29.4	11.9	1.4	0.3	9.8	0.4	0.7		0.2
Democratic People's Republic of Korea	46.7	35.8	2.7	0.1		1.1	0.6	1.3	0.1
Democratic Republic of the Congo	90.5	69.9	8.5	6.3		2.1	1.9	0.8	0.2
Denmark	16.3	31.4	2.2	0.3		0.5	0.5		0.2
Djibouti	58.0	45.7				5.4			7.2
Dominica	23.7	69.1	2.5	1.6		2.7	1.1		0.2
Dominican Republic	80.0	61.4	1.5	1.8		1.7	0.4	1.7	0.4
Ecuador	28.1	12.6	1.0	1.3	6.5	1.1	0.5	1.6	0.2
Egypt	4.0	2.8	3.7	0.3	5.0	0.9	0.5	1.0	0.3
El Salvador	48.2	31.8	8.5	0.3		2.1	0.5	0.4	0.2
Equatorial Guinea	131.3	84.3	10.4	4.8			1.6		
Eritrea	74.7	71.5		2.2	8.7	11.3	1.5		0.1
Estonia	36.8	43.8	2.0	0.2		0.5	0.5		0.2
Eswatini	36.8	11.5	6.6	2.5		6.4	0.8	2.7	0.3
Ethiopia	166.8	54.6	4.2	2.8	11.3	4.2	1.2	1.6	0.1
Fiji	15.6	46.7	18.5	0.7		11.9	0.3	1.2	6.5
Finland	14.8	32.1	1.8	0.1		0.5	0.6		0.2
France	21.7	21.5	1.7	0.5	1.5	0.6	0.7	24.0	0.1
Gabon	33.6	57.5	16.0	2.6		1.4	1.5	1.6	0.4
Gambia	121.9	44.2	7.2	2.7		1.4	1.5	11.2	0.1
Georgia	31.4	36.7	1.8	1.0	4.1	1.6	0.4		0.1
Germany	14.6	14.5	1.4	0.4	0.7	0.6	0.5		0.1
Ghana	77.9	48.9	7.9	4.3		13.9	2.2	0.8	0.1
Greece	32.7	9.5	3.4	0.4	1.8	0.6	1.0	2.7	0.2
Grenada	56.5	26.3	2.7			3.1	0.5		0.2
Guatemala	31.5	61.7	16.5	0.2		3.5	0.3	0.7	0.4
Guinea	101.4	60.2	5.5	8.5	3.8	6.3	1.5	2.2	0.1
Guinea-Bissau	106.4	67.6	8.8	2.4	2.8	10.7	1.2	1.3	0.3
Guyana	58.7	50.8	2.9	2.3		1.8	1.1	2.1	11.5
Haiti	54.0	34.8	6.8	2.3		9.9	0.6	1.1	0.2
Honduras	72.8	35.6	10.2	0.7		1.8	0.5	0.7	0.4
Hungary	46.0	227.5	1.2	0.1	4.0	0.5	1.5	36.2	0.2
Iceland	24.2	13.3	1.1	0.0		0.8	0.5		3.7
India	29.2	51.6	5.8	0.3	9.2	1.1	0.4	0.8	0.2

TABLE 58.
EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES, 2021 (KG CO_2EQ PER KG) (CONTINUED)

COUNTRY	MEAT				MILK		EGGS	CEREALS	
	MEAT, CATTLE	MEAT, SHEEP	MEAT, PIG	MEAT, CHICKEN	MILK, WHOLE FRESH SHEEP	MILK, WHOLE FRESH COW	EGGS, HEN, IN SHELL	RICE, PADDY	CEREALS EXCLUDING RICE
Indonesia	71.5	45.8	6.0	3.0	8.3	1.8	0.4	1.4	0.2
Iran (Islamic Republic of)	9.1	28.1		1.9	8.4	0.6	0.4	2.0	0.2
Iraq	64.0	16.0		1.9	12.0	3.8	0.4	1.9	0.2
Ireland	18.9	20.4	1.5	0.3		0.8	0.9		0.1
Israel	4.0	1.6	3.6	0.3	2.7	0.2	0.3		0.3
Italy	13.2	23.5	2.0	0.3	3.1	0.7	1.1	2.5	0.2
Jamaica	46.4	56.9	6.7	0.4		1.4	0.3		0.4
Japan	11.7	25.6	1.0	0.3		0.3	0.4	0.9	0.1
Jordan	0.9	6.4		0.5	5.0	0.3	0.4		0.2
Kazakhstan	18.4	25.5	1.2	0.3	2.1	1.1	0.5	1.4	0.1
Kenya	91.9	98.0	7.5	1.7	5.9	2.0	1.4	0.4	0.2
Kiribati			7.0	1.9			2.0		
Kuwait	12.6	3.1		3.0	1.0	0.3	0.7		0.2
Kyrgyzstan	14.4	17.0	0.4			1.3	0.7	2.4	0.1
Lao People's Democratic Republic	100.7		9.4	4.6		16.8	0.9	0.8	0.1
Latvia	33.7	36.5	2.5			0.6	0.5		0.1
Lebanon	1.0	9.0	2.6	2.2	2.8	0.3	0.4		0.1
Lesotho	206.7	576.6	12.7	0.4		1.3	1.1		0.3
Liberia	40.3	67.7	7.1	2.0		1.4	1.1	0.5	
Libya	17.8	39.8		0.8	7.0	1.6	0.8		0.3
Lithuania	19.4	41.0	2.1	0.2		0.7	0.8		0.1
Luxembourg	27.4	33.6	1.8		14.0	0.6	0.5		0.3
Madagascar	269.8	142.3	16.7	3.0		6.4	1.3	1.9	0.1
Malawi	40.8	35.2	6.4	0.5	2.8	3.2	1.3	1.8	0.3
Malaysia	34.1	14.1	2.0	0.5		2.7	0.7	1.6	0.2
Maldives									1.9
Mali	250.0	160.6	36.7	3.3	17.8	13.2	2.5	0.9	0.1
Malta	18.6	2.7	3.7	0.5	2.0	0.8	0.7		
Marshall Islands									
Mauritania	62.9	48.9		2.9	6.4	5.3	1.8	1.5	0.3
Mauritius	1.2	45.6	8.2	1.3		4.3	0.6		20.9
Mexico	31.3	23.8	2.4	0.4	5.7	0.5	0.4	2.9	0.2
Micronesia (Federated States of)	131.7		17.3	2.1			2.2	3.8	0.1
Mongolia	60.1	36.6	15.6	3.0	16.8	6.1	0.5		0.2
Montenegro	15.7	28.0	1.7	0.1	2.4	1.5	0.9		0.7
Morocco	6.9	26.2	3.2	1.1	6.3	1.3	1.0	3.5	0.1
Mozambique	89.7	146.1	3.4	0.3		0.7	1.2	3.3	0.2
Myanmar	107.5	37.4	5.1	0.5	9.2	5.6	0.9	1.3	0.1
Namibia	105.9	47.3	3.6	1.3		4.2	1.8		0.1
Nauru			19.6	0.6			2.4		
Nepal		34.9	7.5	1.0	3.9	2.4	0.8	0.9	0.1
Netherlands (Kingdom of the)	11.0	14.7	1.8	0.2		0.5	0.7		0.2

TABLE 58.
EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES, 2021 (KG CO_2EQ PER KG) (CONTINUED)

COUNTRY	MEAT				MILK		EGGS	CEREALS	
	MEAT, CATTLE	MEAT, SHEEP	MEAT, PIG	MEAT, CHICKEN	MILK, WHOLE FRESH SHEEP	MILK, WHOLE FRESH COW	EGGS, HEN, IN SHELL	RICE, PADDY	CEREALS EXCLUDING RICE
New Zealand	16.6	19.7	2.5	0.3		0.8	0.3		0.2
Nicaragua	57.0	60.2	8.7	0.6		1.7	0.7	0.2	0.4
Niger	274.8	113.4	7.7	3.4	6.1	6.3	2.1	1.9	0.1
Nigeria	73.1	70.1	6.7	0.8		7.9	1.2	1.7	0.1
North Macedonia	36.9	15.3	3.5	0.9	4.5	1.5	1.7	1.9	0.2
Norway	17.1	30.1	1.7	0.4		0.6	0.6		0.2
Oman	25.3	1.1		2.0	4.3	1.2	0.3		0.3
Pakistan	26.8	27.3		3.1	4.4	1.4	0.6	1.2	0.3
Palau									
Panama	35.7		1.9	0.4		2.0	0.3	0.2	0.8
Papua New Guinea	67.4	48.6	12.5	1.5		40.3	1.6	17.7	4.5
Paraguay	52.4	38.0	4.2	0.7		1.0	0.4	0.7	0.1
Peru	51.8	70.8	4.0	0.3		1.1	0.3	0.9	0.4
Philippines	39.5	56.7	2.0	0.2		1.1	1.0	2.4	0.2
Poland	17.2	68.0	1.1	0.2	21.2	0.5	1.0		0.2
Portugal	31.5	40.5	2.2	0.0	1.1	0.6	0.6	2.8	0.4
Qatar	33.3	17.8		0.2	4.4	1.4	0.6		1.6
Republic of Korea	21.9	51.0	1.0	0.4		0.2	0.5	1.0	0.4
Republic of Moldova	2.6	15.2	1.4	2.8	7.2	1.6	1.3		0.1
Romania	19.8	14.7	2.0	0.2	6.1	1.1	2.0	28.7	0.1
Russian Federation	15.3	28.2	1.3	0.2	191.2	0.7	0.9	2.7	0.1
Rwanda	45.1	21.2	28.7	0.9	2.9	3.7	1.1	0.6	0.2
Saint Kitts and Nevis	52.8	194.1	19.4	4.9			1.6		
Saint Lucia	47.9	20.1	2.6	1.1		1.8	0.4		
Saint Vincent and the Grenadines	27.7	38.6	3.4	1.7		1.9	0.4		0.1
Samoa	102.9		33.3	3.4		4.1	0.8		
San Marino									
Sao Tome and Principe	6.4	214.6	23.2	1.3		1.4	1.9		0.3
Saudi Arabia	16.8	15.4		0.8	7.3	0.2	0.5	3.4	0.3
Senegal	41.5	36.2	7.1	2.5	13.3	6.9	1.6	0.6	0.1
Serbia	14.3	19.1	2.7	0.2	2.1	1.3	1.0		0.1
Seychelles	14.3		3.1	0.2		3.7	0.5		
Sierra Leone	69.5	106.4	46.7	4.0		1.4	2.5	1.0	0.1
Singapore	8.3			0.0			0.5		
Slovakia	57.9	125.2	1.4	0.4	4.5	0.5	1.0		0.2
Slovenia	22.3	26.5	2.1	0.2	2.0	0.7	0.7		0.2
Solomon Islands	40.0		10.4	1.4		3.0	1.1	3.6	
Somalia	98.4	27.2	9.5	3.1	3.3	4.9	1.8	2.4	0.2
South Africa	13.8	31.4	1.1	0.3		0.5	0.4	73.8	0.2
South Sudan	51.7	91.7		3.0	10.1	5.1		4.8	0.1
Spain	18.0	34.4	2.2	0.2	1.3	0.5	0.6	3.2	0.2
Sri Lanka	36.2	21.0	9.7	0.3		1.7	0.3	0.8	0.4

TABLE 58.
EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES, 2021 (KG CO_2EQ PER KG) (CONTINUED)

COUNTRY	MEAT				MILK		EGGS	CEREALS	
	MEAT, CATTLE	MEAT, SHEEP	MEAT, PIG	MEAT, CHICKEN	MILK, WHOLE FRESH SHEEP	MILK, WHOLE FRESH COW	EGGS, HEN, IN SHELL	RICE, PADDY	CEREALS EXCLUDING RICE
Sudan	79.0	14.7		2.1	12.1	5.2	0.9	3.9	0.2
Suriname	37.8	104.4	3.9	1.5		1.2	1.4	1.8	708.8
Sweden	17.4	21.8	1.6	0.1		0.5	0.6		0.2
Switzerland	14.8	21.3	1.7	0.3	0.7	0.7	0.6		0.2
Syrian Arab Republic	8.0	7.7		0.2	3.4	0.8	0.6		0.1
Tajikistan	10.8	11.1	3.5	2.0		2.6	0.4	2.5	0.2
Thailand	56.8	59.6	2.1	0.4		0.6	0.7	1.7	0.2
Timor-Leste	297.6	127.0	8.4	5.0			0.5	3.2	0.2
Togo	90.9	39.1	21.4	4.2		10.5	0.6	0.3	0.1
Tonga	80.1		23.2	3.3		2.6	2.7		
Trinidad and Tobago	47.7	42.8	3.5	3.0		10.8	1.5	30.9	0.3
Tunisia	4.5	22.8	10.9	2.0	2.6	0.6	1.5		0.3
Türkiye	10.6	14.4		0.4	3.6	0.6	0.5	1.1	0.3
Turkmenistan	14.2	24.8	4.8	1.6		1.5	0.5	7.6	0.6
Tuvalu			56.3	2.5			2.7		
Uganda	72.1	56.2	5.2	1.7		4.3	1.0	0.7	0.1
Ukraine	8.7	17.5	1.7	0.2	5.9	0.7	1.6	27.3	0.1
United Arab Emirates	4.4	82.5		1.5	3.6	1.6	0.5		2.1
United Kingdom of Great Britain and Northern Ireland	19.1	39.9	1.5	0.2		0.6	0.7		0.2
United Republic of Tanzania	58.7	46.1	3.3	0.5		4.6	0.8	1.7	0.1
United States of America	13.1	22.0	2.3	0.2		0.5	0.5	1.3	0.2
Uruguay	39.1	55.7	2.0	1.8		0.8	0.3	1.2	0.2
Uzbekistan	17.0	24.9	2.1	1.3		0.9	0.4	4.5	0.3
Vanuatu	95.6		13.2	1.9		18.1	1.1		0.2
Venezuela (Bolivarian Republic of)	73.3	40.6	6.6	1.0		2.7	0.4	1.9	0.2
Viet Nam	42.3		2.0	1.1		0.9	1.0	1.0	0.2
Yemen	17.9	36.0		1.2	7.2	3.5	1.0		0.2
Zambia	22.8	57.9	9.2	2.4		1.3	1.0	1.8	0.3
Zimbabwe	7.0	30.9	6.5	0.4		4.3	1.2	4.3	0.2

Source: FAO. 2023. Emissions intensities. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/EI

TABLE 59.
TEMPERATURE CHANGE MEASURED OVER LAND (DEGREE CELSIUS)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
World	0.73	1.10	1.22	1.41	1.29	1.44	1.71	1.45	1.39
Africa	0.45	1.06	1.49	1.18	1.18	1.28	1.22	1.41	1.01
Americas	0.73	1.03	1.32	1.33	0.94	1.23	1.34	1.46	1.05
Asia	0.70	0.88	1.28	1.31	1.36	1.40	1.54	1.57	1.75
Europe	1.34	1.53	0.82	2.12	2.01	2.10	3.36	1.60	2.23
Oceania	0.17	1.15	0.69	1.02	1.10	1.37	1.38	0.68	0.80
Afghanistan	0.99	0.40	1.61	1.09	1.54	0.91	0.50	1.33	2.01
Albania	1.07	0.19	1.19	1.57	2.03	1.68	1.50	1.54	1.52
Algeria	0.82	1.26	2.27	1.12	1.21	1.12	1.93	2.33	1.69
Andorra	1.05	0.85	0.47	1.69	1.92	1.96	2.56	1.53	3.24
Angola	0.17	1.02	1.19	1.33	1.40	1.75	1.16	1.55	1.21
Antigua and Barbuda	0.34	0.84	1.15	1.04	0.63	0.80	1.13	0.86	0.77
Argentina	-0.19	0.28	0.14	0.96	0.88	0.76	1.12	1.03	0.64
Armenia	1.03	0.48	2.78	1.93	2.77	1.86	1.95	2.09	1.71
Australia	0.15	1.21	0.67	1.09	1.13	1.42	1.42	0.63	0.75
Austria	1.77	0.63	0.66	2.17	2.52	2.37	2.32	1.40	2.50
Azerbaijan	1.10	0.81	2.33	1.67	2.24	2.00	2.02	2.06	2.08
Bahamas	0.16	0.46	0.31	1.11	1.02	1.44	1.61	0.88	1.48
Bahrain	1.12	1.07	2.29	2.24	2.25	2.11	2.03	2.46	2.02
Bangladesh	0.23	0.59	0.77	0.72	0.88	1.14	0.90	1.30	1.22
Barbados	0.30	1.13	1.15	0.87					
Belarus	1.94	1.28	1.46	2.25	2.34	2.69	3.51	1.73	1.92
Belgium	1.48	1.20	0.23	1.37	2.20	2.08	2.57	1.20	2.81
Belize	0.18	0.85	0.84	1.50	0.85	1.56	1.72	1.29	1.03
Benin	0.45	1.11	1.23	1.11	1.06	1.15	1.03	1.52	0.88
Bhutan	0.21	0.75	1.20	1.07	1.35	1.33	1.09	1.71	1.52
Bolivia (Plurinational State of)	0.40	0.76	0.68	1.53	0.56	0.92	1.32	0.74	0.64
Bosnia and Herzegovina	1.53	0.12	0.95	1.81	2.28	1.99	1.88	1.60	2.09
Botswana	-0.72	1.04	0.94	1.55	0.73	1.53	0.49	-0.43	-1.31
Brazil	0.50	1.09	1.11	1.52	1.15	1.52	1.48	1.15	0.93
Brunei Darussalam	0.49	0.89	1.01	1.28	1.41	1.62	1.78	1.46	1.45
Bulgaria	1.18	0.22	1.36	1.44	2.19	2.11	2.04	1.63	1.83
Burkina Faso	0.54	1.45	1.25	1.11	1.16	1.07	1.04	1.62	0.80
Burundi									
Cabo Verde	1.04	1.17		1.07	0.93	1.62		1.77	1.85
Cambodia	0.30	0.78	1.23	1.08	0.79	1.55	1.40	0.91	0.95
Cameroon	0.32	1.00	1.18	1.16	1.16	1.45	1.28	1.47	1.04
Canada	1.29	1.28	2.92	1.23	0.48	1.31	1.13	2.52	1.27
Central African Republic	0.68	0.98	1.16	0.98	1.15	1.26	1.14	1.27	1.03
Chad	0.28	1.15	1.18	1.29	1.53	1.31	1.19	1.15	0.74
Chile	-0.18	0.28	-0.02	0.85	0.54	0.68	0.95	0.88	0.41
China	0.57	1.05	0.97	1.30	1.36	1.42	1.62	1.70	1.90

TABLE 59.
TEMPERATURE CHANGE MEASURED OVER LAND (DEGREE CELSIUS) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Colombia	-0.01	0.68	1.04	1.25	1.14	1.40	1.58	1.07	0.87
Comoros	0.01	0.31	0.88	0.73	0.71	1.30	1.03	0.65	0.52
Congo	0.40	0.91	1.26	1.08	1.25	1.41	1.50	1.36	1.25
Costa Rica	-0.02	0.58	0.99						
Côte d'Ivoire	0.46	1.07	1.30	1.26	1.28	1.33	1.33	1.44	1.17
Croatia	1.60	0.25	0.82	1.90	2.28	2.08	1.99	1.58	2.21
Cuba	0.51	0.79	0.96	1.44	1.18	1.63	1.72	1.30	1.44
Cyprus	0.62	0.34	2.03	1.14	2.12	1.52	1.67	1.99	1.24
Czechia	1.91	0.75	0.43	2.14	2.67	2.56	2.36	1.32	2.39
Democratic People's Republic of Korea	0.59	0.85	0.38	1.22	0.86	1.83	1.86	1.86	1.61
Democratic Republic of the Congo	0.54	1.01	1.35	1.05	1.45	1.48	1.69	1.66	1.48
Denmark	1.72	1.28	-0.20	1.52	2.11	2.18	2.63	1.69	2.22
Djibouti	0.83	1.21	1.04	1.59	1.42	1.47	1.53	1.13	1.55
Dominica	0.28	0.82	1.19	0.92	0.56	0.75	1.09	0.73	0.69
Dominican Republic	0.63	0.97	1.22	1.34	1.16	1.27	1.49	1.00	0.98
Ecuador	0.24	0.84	1.09	1.39	0.97	1.28	1.51	1.03	0.74
Egypt	0.05	0.51	2.33	1.21	2.05	1.04	1.12	1.73	0.66
El Salvador	0.32	0.51	0.50	1.29	0.77	0.97	1.48	1.00	0.66
Equatorial Guinea	0.36	0.77	0.98	0.85	0.84	1.60	1.48	1.20	1.25
Eritrea	0.56	0.80	1.64	1.81	0.98	0.91		1.49	0.53
Estonia	2.07	1.60	0.55	2.38	2.41	2.22	3.63	2.17	1.96
Eswatini	-0.06	1.15	1.29	1.24	1.06	1.62	0.77	0.67	1.37
Ethiopia	0.57	1.09	1.28	1.44	0.99	1.32	1.34	1.52	1.46
Fiji	0.71	0.70	0.98	0.52	0.95	1.07	1.24	1.08	1.35
Finland	2.02	2.20	0.24	2.61	2.16	1.45	3.32	1.94	2.06
France	1.18	1.02	0.40	1.61	2.06	2.02	2.55	1.34	2.93
Gabon	0.31	0.81	1.08	1.02	1.03	1.53	1.38	1.06	0.99
Gambia	0.96	1.50	1.32	1.20	1.03	1.35	1.77	1.68	1.32
Georgia	0.97	0.54	2.49	1.78	2.51	1.75	2.01	1.65	1.51
Germany	1.76	1.03	0.20	1.67	2.39	2.33	2.52	1.33	2.60
Ghana	0.43	0.97	1.28	1.13	1.08	1.32	1.28	1.49	1.00
Greece	0.68	0.21	1.58	0.90	1.91	1.38	1.31	1.66	1.04
Grenada	0.46	1.00	1.20	0.84	0.54	1.17	1.24	0.77	0.70
Guatemala	0.31	0.80	0.69	1.14	0.88	1.42	1.73	1.41	0.92
Guinea	0.65	1.19	1.32	1.16	1.19	1.41	1.26	1.56	1.20
Guinea-Bissau	1.00	1.40	1.33	1.19	1.13	1.42	1.66	1.66	1.30
Guyana	0.66	1.32	1.12	1.35	1.14	1.18	1.40	0.88	1.07
Haiti	0.86	1.04	1.21	1.38	1.28	1.51	1.54	0.88	1.10
Honduras	0.13	0.96	0.81	1.13	0.80	1.23	1.81	1.10	0.72
Hungary	1.73	0.24	0.81	2.07	2.52	2.35	1.99	1.43	2.14
Iceland	0.27	0.45	1.15	0.42	0.82	1.34	0.79	0.92	1.20
India	0.35	0.57	1.13	0.71	0.87	0.80	0.52	0.73	0.79

TABLE 59.
TEMPERATURE CHANGE MEASURED OVER LAND (DEGREE CELSIUS) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Indonesia	0.28	0.71	0.77	0.84	0.97	1.12	1.32	1.11	1.09
Iran (Islamic Republic of)	1.22	0.83	2.21	1.86	2.04	1.60	1.35	2.18	2.37
Iraq	1.00	0.53	2.71	1.94	2.41	1.63	1.86	2.64	2.15
Ireland	0.58	1.18	-0.10	0.45	0.78	1.20	1.08	1.02	1.76
Israel	0.25	0.20	2.32	1.33	2.00	1.21	1.45	1.79	1.08
Italy	1.24	0.56	0.76	1.70	1.83	1.70	1.90	1.57	2.14
Jamaica	0.41	1.04	1.18	1.40	1.25	1.52	1.62	1.27	1.14
Japan	0.64	0.74	0.92	0.83	0.93	1.27	1.44	1.27	1.34
Jordan	0.38	0.10	2.63	1.43	1.97	1.28	1.62	1.92	1.36
Kazakhstan	1.50	1.55	1.31	1.61	0.64	1.49	2.85	1.47	2.71
Kenya	0.52	0.76	1.11	1.16	0.68	1.62	1.34	1.42	1.28
Kiribati	0.13		0.31	0.90	0.95	0.95	1.43		
Kuwait	1.28	0.72	2.60	2.10	2.36	1.90	1.98	2.68	2.28
Kyrgyzstan	1.13	1.21	1.40	1.55	1.28	1.68	1.43	1.42	2.62
Lao People's Democratic Republic	0.09	0.96	1.43	1.50	0.96	2.20	1.72	1.29	1.11
Latvia	2.02	1.36	0.70	2.17	2.36	2.46	3.55	1.99	1.95
Lebanon	0.54	0.28	2.35	1.38	2.15	1.41	1.62	2.04	1.29
Lesotho	0.33	0.89	1.03	1.53	1.10	1.67	0.79	1.20	1.37
Liberia	0.56	1.11	1.42	1.29	1.31	1.49	1.59	1.47	1.56
Libya	0.31	0.72	2.07	0.71	1.74	0.92	1.17	1.92	0.56
Lithuania	2.03	1.21	0.77	2.10	2.43	2.64	3.45	1.79	1.96
Luxembourg	1.65	1.13	0.33	1.53	2.47	2.16	2.63	1.16	2.93
Madagascar	0.45	0.60	1.19	1.13	0.98	1.44	1.14	1.19	0.86
Malawi	0.80	1.37	1.03	1.14	1.02	1.22	1.31	0.76	0.82
Malaysia	0.45	0.94	1.11	1.37	1.44	1.70	1.69	1.47	1.37
Maldives	0.26	0.78	0.68	0.98	0.84	1.13	1.17	1.12	0.78
Mali	0.65	1.40	1.63	1.02	1.04	1.09	1.01	1.69	0.89
Malta	1.06	0.67	1.24	1.40	1.44	1.29	1.64	2.12	1.96
Marshall Islands	-0.16	0.36	0.35	0.46	0.35	0.56	0.67	0.38	0.01
Mauritania	1.20	1.39	2.02	1.56	1.09	1.44	1.92	1.86	1.71
Mauritius	0.17	0.38	1.08	1.16	1.05	1.46	1.11	0.99	0.60
Mexico	0.63	0.81	0.31	1.14	1.24	1.38	1.73	1.16	1.25
Micronesia (Federated States of)	-0.03	0.10	0.22	0.49	0.73	0.54	0.81	0.60	0.63
Mongolia	0.98	0.92	0.31	2.13	2.21	1.85	2.35	1.99	2.20
Montenegro			1.19	1.70	2.23	1.82	1.71	1.60	1.87
Morocco	0.85	1.19	2.02	1.12	0.60	1.47	2.11	1.80	2.30
Mozambique	0.38	1.05	1.11	1.03	0.81	1.21	1.03	0.69	0.83
Myanmar	0.22	0.93	1.20	1.25	1.06	1.73	1.67	1.66	1.44
Namibia	-0.04	0.82	1.21	1.22	1.11	1.82	0.60	-0.06	0.24
Nauru									
Nepal	0.08	0.68	1.14	0.65	0.63	0.85	0.23	0.63	1.13
Netherlands (Kingdom of the)	1.60	1.25	0.10	1.29	2.14	2.14	2.48	1.32	2.60

TABLE 59.
TEMPERATURE CHANGE MEASURED OVER LAND (DEGREE CELSIUS) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
New Zealand	0.27	0.44	0.60	0.57	1.17	1.12	0.91	0.98	1.32
Nicaragua	0.14	0.84	0.87	1.02	0.90	1.16	1.53	1.03	0.84
Niger	0.68	1.17	1.56	0.83	1.07	0.94	0.78	1.43	0.43
Nigeria	0.53	1.18	1.43	1.19	1.09	1.23	1.13	1.56	0.79
North Macedonia	1.07	0.15	1.35	1.48	2.08	1.82	1.47	1.53	1.40
Norway	1.43	1.76	-0.34	1.78	1.49	1.21	2.39	1.50	1.92
Oman	0.55	0.81	1.10	1.21	1.12	0.89	0.50	1.33	1.06
Pakistan	0.67	0.21	1.29	0.53	1.36	0.57	0.39	1.12	1.39
Palau	0.40	0.39	0.60	1.20	1.21			1.47	1.67
Panama	0.14	0.74	0.98	1.23	1.28	1.43	1.48	1.20	0.73
Papua New Guinea	0.38	0.66	1.01	0.16	0.66	0.70	1.08	1.18	1.22
Paraguay	0.10	0.51	0.33	1.49	0.54	1.28	1.37	0.70	0.65
Peru	0.33	0.81	1.06	1.26	0.73	1.05	1.78	1.29	0.88
Philippines	0.67	0.78	1.07	1.16	1.33	1.41	1.56	1.43	1.41
Poland	1.89	0.88	0.40	2.01	2.43	2.65	2.68	1.47	2.06
Portugal	0.67	1.03	1.12	1.41	0.91	1.29	1.99	1.25	2.32
Qatar	0.94	0.84	2.00	1.97	2.00	1.84	1.73	2.17	1.86
Republic of Korea	0.41	0.92	0.50	0.94	0.97	1.49	1.55	1.76	1.66
Republic of Moldova	1.50	0.85	1.37	2.02	2.10	2.41	3.06	1.34	2.14
Romania	1.34	0.30	1.17	1.80	2.27	2.24	2.26	1.45	1.95
Russian Federation	1.32	1.70	0.88	2.25	2.04	2.18	3.69	1.64	2.26
Rwanda									
Saint Kitts and Nevis	0.34	0.84	1.15	1.04	0.63	0.80	1.13	0.86	0.77
Saint Lucia	0.34	0.94	1.18	0.86	0.53	0.97	1.16	0.73	0.69
Saint Vincent and the Grenadines	0.46	1.00	1.20	0.84	0.54	1.17	1.23	0.76	0.70
Samoa	0.54	0.74	1.25	0.91	1.09	1.44	1.33	1.17	1.16
San Marino	1.40	0.41	0.70	1.83	1.97	1.82	2.00	1.53	2.12
Sao Tome and Principe	0.41	0.68	1.05	0.87	1.01	1.39	1.62	1.40	1.32
Saudi Arabia	0.79	0.54	2.18	1.87	1.89	1.69	1.49	2.20	1.75
Senegal	0.92	1.37	1.43	1.21	0.96	1.40	1.67	1.78	1.41
Serbia			1.16	1.74	2.32	2.09	1.82	1.59	1.94
Seychelles	0.41	0.51	1.02	1.17	0.92	1.38	1.43	1.03	0.87
Sierra Leone		1.19	1.41	1.16	1.23	1.56	1.53	1.57	1.33
Singapore			1.06	1.54	1.37	1.88	1.59	1.30	1.31
Slovakia	1.62	0.40	0.69	2.12	2.55	2.42	2.03	1.29	2.02
Slovenia	1.78	0.48	0.77	2.13	2.41	2.34	2.23	1.52	2.44
Solomon Islands	0.56	0.79	0.69	0.67			1.19	0.96	1.04
Somalia	0.42	1.07	1.09	1.47	0.71	1.53	1.72	1.53	1.45
South Africa	0.27	1.03	1.08	1.30	1.02	1.81	0.89	0.81	1.09
South Sudan				1.14	1.19	1.00	0.69	1.17	0.98
Spain	0.81	0.90	0.91	1.53	1.15	1.53	2.08	1.43	2.49
Sri Lanka	0.46	0.72	1.11	1.01	0.82	1.28	1.32	1.03	1.00

TABLE 59.
TEMPERATURE CHANGE MEASURED OVER LAND (DEGREE CELSIUS) (CONTINUED)

COUNTRY	2000	2005	2010	2015	2018	2019	2020	2021	2022
Sudan				1.50	1.23	0.88	0.46	1.24	0.77
Suriname	0.66	1.43	1.51	1.31	1.25	1.53	1.68	1.28	1.30
Sweden	1.72	1.83	-0.28	2.07	1.84	1.57	2.94	1.85	2.11
Switzerland	1.42	0.81	0.46	1.97	2.34	2.10	2.51	1.18	2.80
Syrian Arab Republic	0.67	0.23	2.48	1.32	2.39	1.56	1.87	2.24	1.54
Tajikistan	0.94	0.76	1.34	1.30	1.66	1.33	1.03	0.95	2.07
Thailand	0.14	0.97	1.41	1.39	0.95	1.86	1.60	1.11	1.01
Timor-Leste		1.22	0.97	0.74	0.96	1.17	2.00	1.42	1.32
Togo	0.52	0.93	1.25	1.10	1.12	1.27	1.13	1.55	0.98
Tonga	0.27	0.77	0.87	0.76	1.02	1.60	1.40	1.19	0.85
Trinidad and Tobago	0.51	1.15	1.25	0.82	0.67	1.19	1.40	0.95	0.71
Tunisia	1.01	1.05	1.75	1.19	1.51	1.34	2.02	2.56	2.29
Türkiye	0.52	0.42	2.38	0.81	2.60	1.65	1.84	1.87	1.24
Turkmenistan	1.30	1.30	1.89	1.43	1.52	1.82	1.53	1.65	2.53
Tuvalu	0.50	0.82	0.92	0.80	0.98	1.08	1.20	0.69	0.66
Uganda	0.27	1.23	1.43	1.16	1.10	1.62	1.24	1.50	1.42
Ukraine	1.44	1.02	1.65	2.08	2.24	2.37	3.03	1.44	1.93
United Arab Emirates	0.68	0.73	1.48	1.56	1.50	1.20	1.21	1.70	1.48
United Kingdom of Great Britain and Northern Ireland	0.72	1.12	-0.05	0.61	1.00	1.23	1.37	0.93	1.91
United Republic of Tanzania	0.53	1.04	1.01	1.10	1.06	1.40	1.09	1.13	0.91
United States of America	1.00	1.15	0.70	1.53	1.28	1.03	1.32	1.14	1.22
Uruguay	0.33	0.80	0.26	1.05	1.20	0.77	0.89	0.79	0.38
Uzbekistan	1.44	1.42	1.83	1.44	1.04	1.94	1.72	1.53	2.61
Vanuatu	0.78	0.54	0.88	0.57	0.61	0.90	1.23	1.15	1.48
Venezuela (Bolivarian Republic of)	0.30	0.93	1.23	1.09	0.84	1.24	1.35	0.73	0.53
Viet Nam	0.13	0.84	1.09	1.22	0.82	1.81	1.48	1.11	1.03
Yemen									
Zambia	-0.04	0.95	1.21	1.45	0.65	0.86	0.89	0.82	0.69
Zimbabwe	-0.42	0.95	0.94	0.97	0.45	0.93	0.39	-0.13	-0.49

Source: FAO. 2023. Temperature change on land. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/ET

NOTES

1 FAO (Food and Agriculture Organization of the United Nations). 2023. *The Impact of Disasters on Agriculture and Food Security 2023 – Avoiding and reducing losses through investment in resilience*. Rome. https://doi.org/10.4060/cc7900en

2 FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

3 FAO. 2023. Land Use. In: *FAOSTAT*. Rome. [Cited October 2023]. https://www.fao.org/faostat/en/#data/RL

4 FAO. 1999. The FAO Field Programme and agricultural development in Asia and the Pacific. In: *FAO*. [Cited October 2023]. https://www.fao.org/3/AC621E/ac621e00.htm

5 World Bank. 2023. World Bank Country and Lending Groups. In: *The World Bank*. [Cited October 2023]. https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups

6 ILO (International Labour Organization). 2022. Employment by sex and economic activity – ILO modelled estimates. In: *ILOSTAT*. Geneva. [Cited October 2023]. https://www.ilo.org/shinyapps/bulkexplorer25/?lang= en&segment =indicator&id=EMP_2EMP_SEX_ECO_NB_A

7 ILO. 2023. Employment by sex, status in employment and economic activity. In: *ILOSTAT*. Geneva. [Cited October 2023]. https://www.ilo.org/shinyapps/bulkexplorer11/?lang=en&segment =indicator&id=EMP_TEMP_SEX_STE_ECO_NB_A

8 UN (United Nations). 2020. Time-use statistics. In: *UN*. [Cited October 2023]. https://unstats.un.org/unsd/gender/timeuse/

9 FAO. 2022. *Government expenditures in agriculture 2001–2021. Global and regional trends*. FAOSTAT Analytical Brief Series No 58. Rome. https://www.fao.org/3/cc3749en/cc3749en.pdf

10 African Union. 2014. *Malabo Declaration on Accelerated Agricultural Growth and Transformation for Shared Prosperity and Improved Livelihoods*. Addis Ababa, African Union Commission. https://www.au.int/web/sites/default/files/documents/31247-doc-malabo_declaration_2014_11_26.pdf

11 FAO. n.d. Climate-Smart Agriculture and Digital Agriculture. In: *FAO*. Rome.[Cited October 2023]. https://www.fao.org/climate-smart-agriculture/en/ and https://www.fao.org/digital-agriculture/en/

12 FAO. n.d. Biotechnology. In: *FAO*. [Cited October 2023]. https://www.fao.org/biotechnology/en/

13 OECD (Organisation for Economic Co-operation and Development) & FAO. 2019. *OECD-FAO Agricultural Outlook 2019–2028*. Paris. OECD Publishing and Rome. FAO. https://doi.org/10.1787/agr_outlook-2019-en

14 FAO. 2022. Trade: Crops and livestock products. In: *FAOSTAT*. [Rome. Cited October 2023]. https://www.fao.org/faostat/en/#data/TCL

15 OECD & FAO. 2019. *OECD-FAO Agricultural Outlook 2019-2028*. Paris. OECD Publishing and Rome. FAO. https://doi.org/10.1787/agr_outlook-2019-en

16 FAO, IFAD (International Fund for Agricultural Development), UNICEF (United Nations Children's Fund), WFP (World Food Programme) & WHO (World Health Organization). 2023. *The State of Food Security and Nutrition in the World 2023. Urbanization, agrifood systems transformation and healthy diets across the rural–urban continuum*. Rome. FAO. https://doi.org/10.4060/cc3017en

17 FAO, IFAD, UNICEF, WFP & WHO. 2023. *The State of Food Security and Nutrition in the World 2023. Urbanization, agrifood systems transformation and healthy diets across the rural–urban continuum*. Rome. FAO. https://doi.org/10.4060/cc3017en

18 UN. n.d. Small Island Developing States. In: *United Nations*. [Cited October 2023]. https://sustainabledevelopment.un.org/topics/sids/list

19 The methodology for compiling the food balance sheets was revised at the end of 2019. Data up to 2013 still use the previous methodology, which may cause breaks in series. More information on the new methodology is available at https://fenixservices.fao.org/faostat/static/documents/FBS/New%20FBS%20methodology.pdf. A summary of the methodological changes can be found at https://fenixservices.fao.org/faostat/static/documents/FBS/Key%20differences%20between%20new%20and%20old%20Food%20Balance%20Sheet.pdf.

20 FAO. 1998. Evaluating the potential contribution of organic agriculture to sustainability goals. In: *FAO*. Rome. [Cited October 2023]. https://www.fao.org/3/ac116e/ac116e00.htm

21 FAO & UN-Water. 2021. *Progress on level of water stress. Global baseline for SDG 6 Indicator 6.4.2: Level of water stress: freshwater withdrawal as a proportion of available freshwater resources*. Rome. FAO and UN-Water. https://www.fao.org/3/cb6241en/cb6241en.pdf

STATISTICAL YEARBOOK

WORLD FOOD AND AGRICULTURE 2023

This publication, prepared by the FAO Statistics Division, offers a synthesis of the major factors at play in the global food and agricultural landscape. Statistics are presented in four thematic chapters, covering the economic importance of agricultural activities, inputs, outputs and factors of production, their implications for food security and nutrition and their impacts on the environment. The Yearbook is meant to constitute a primary tool for policymakers, researchers and analysts, as well as the general public interested in the past, present and future path of food and agriculture.

Statistics Division – Economic and Social Development
www.fao.org/food-agriculture-statistics/en/
Food and Agriculture Organization of the United Nations
Rome, Italy

ISBN 978-92-5-138262-2 ISSN 2225-7373
9 789251 382622
CC8166EN/1/11.23