

1. Macro-Economic Agricultural

Indicators

- ▶ Agricultural Value Added
- ▶ Agricultural Growth Rates
- ▶ Population and Employment
- ▶ Trade

2. Sectorial Indicators

- ▶ Crop, Livestock and Fish Production
- ▶ Productivity (Production, Land, Labor etc.)
- ▶ Resource Use (water, fertilizer, mechanization)

3. State of Food Security

- ▶ Availability
- ▶ Utilization
- ▶ Access
- ▶ Undernourishment

4. Problems and Policy

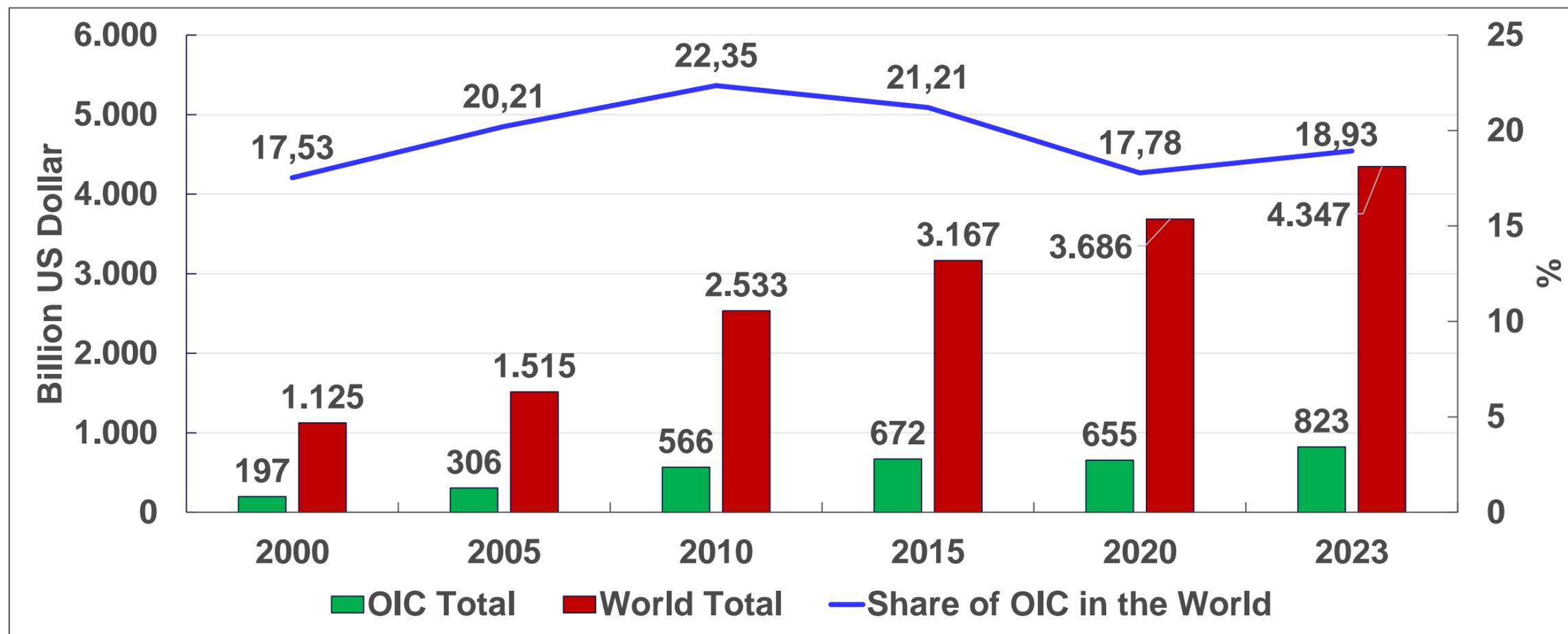
Recommendation



1. Macro Agricultural Indicators

➤ Agricultural Value Added

Share of OIC Agricultural GDP and in the World



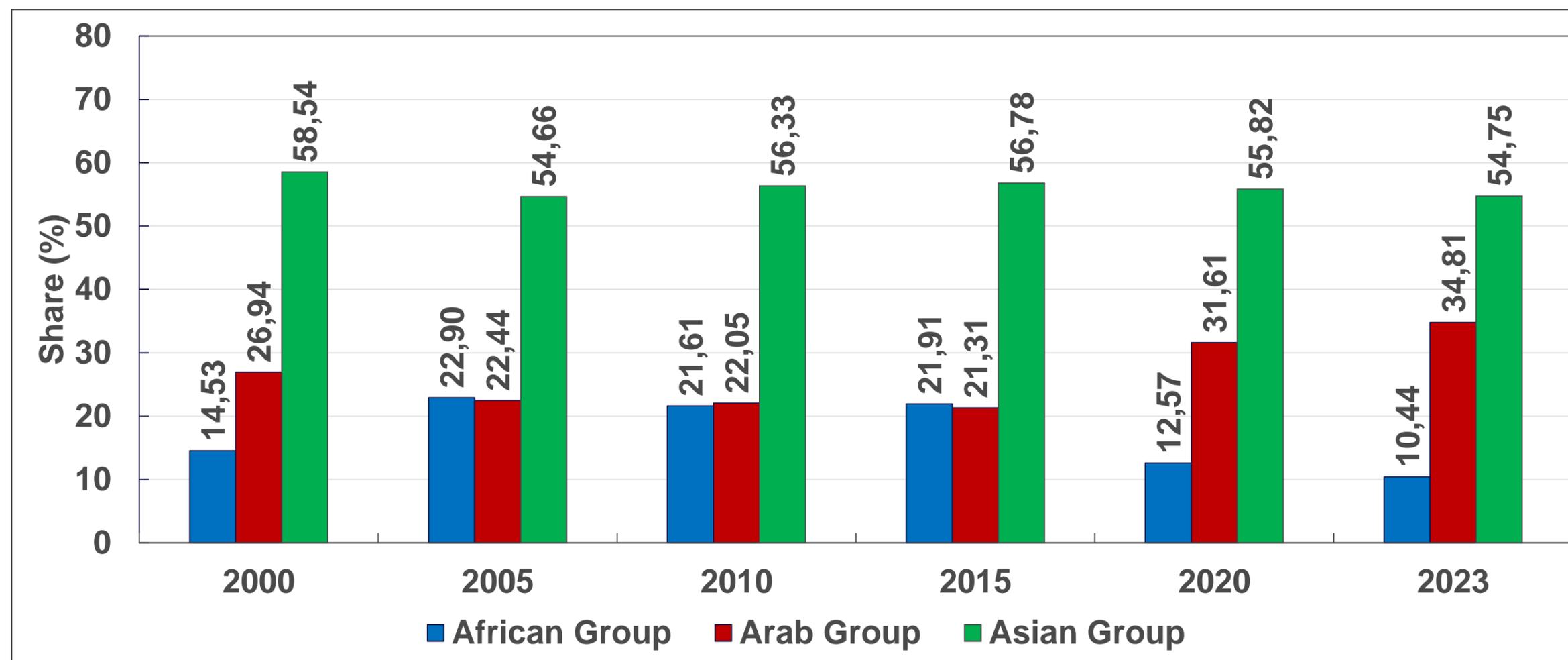
Source: Estimated from <https://prosperitydata360.worldbank.org/en/indicator/FAO+STAT+5>



1. Macro Agricultural Indicators

➤ Agricultural Value Added

Agricultural GDP by Sub-Regions and their Shares

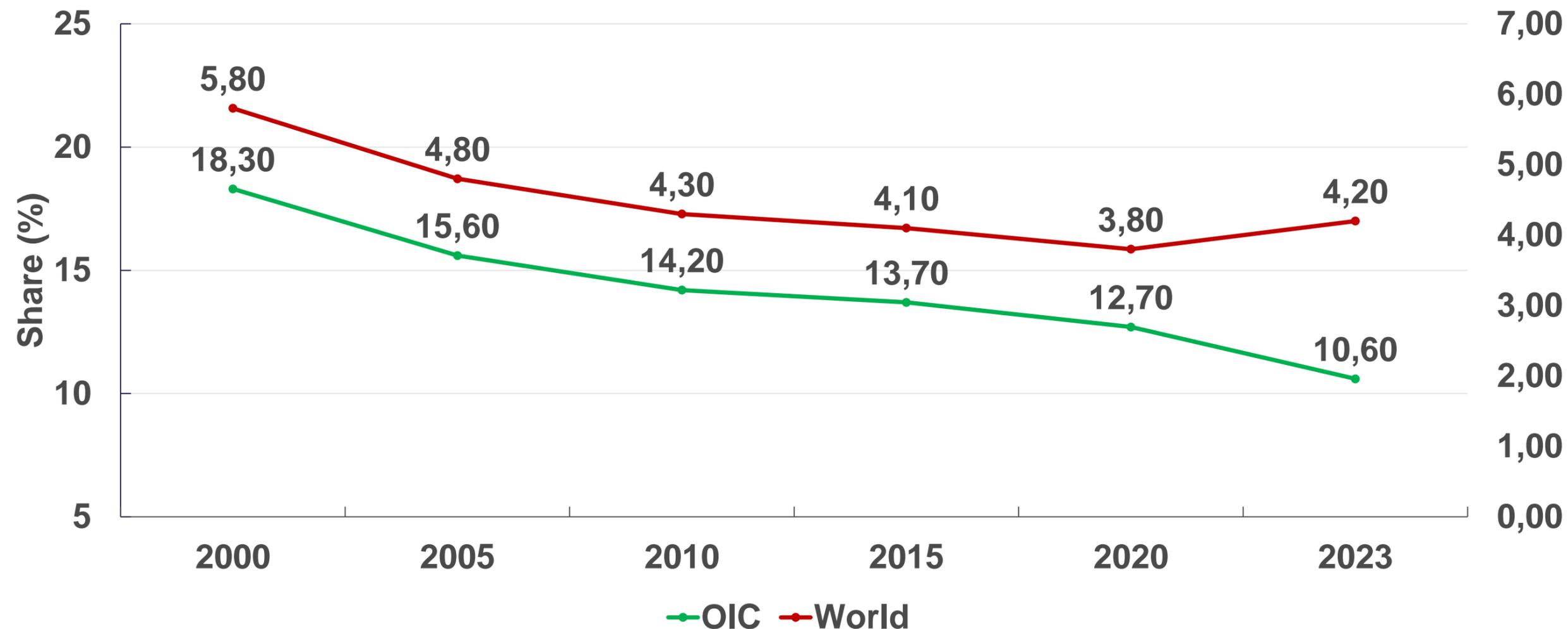


Source: Estimated from <https://data.worldbank.org/indicator/NY.GDP.MKTP.KD>

1. Macro Agricultural Indicators

➤ Agricultural Value Added

Shares of Agricultural GDP in the OIC and World



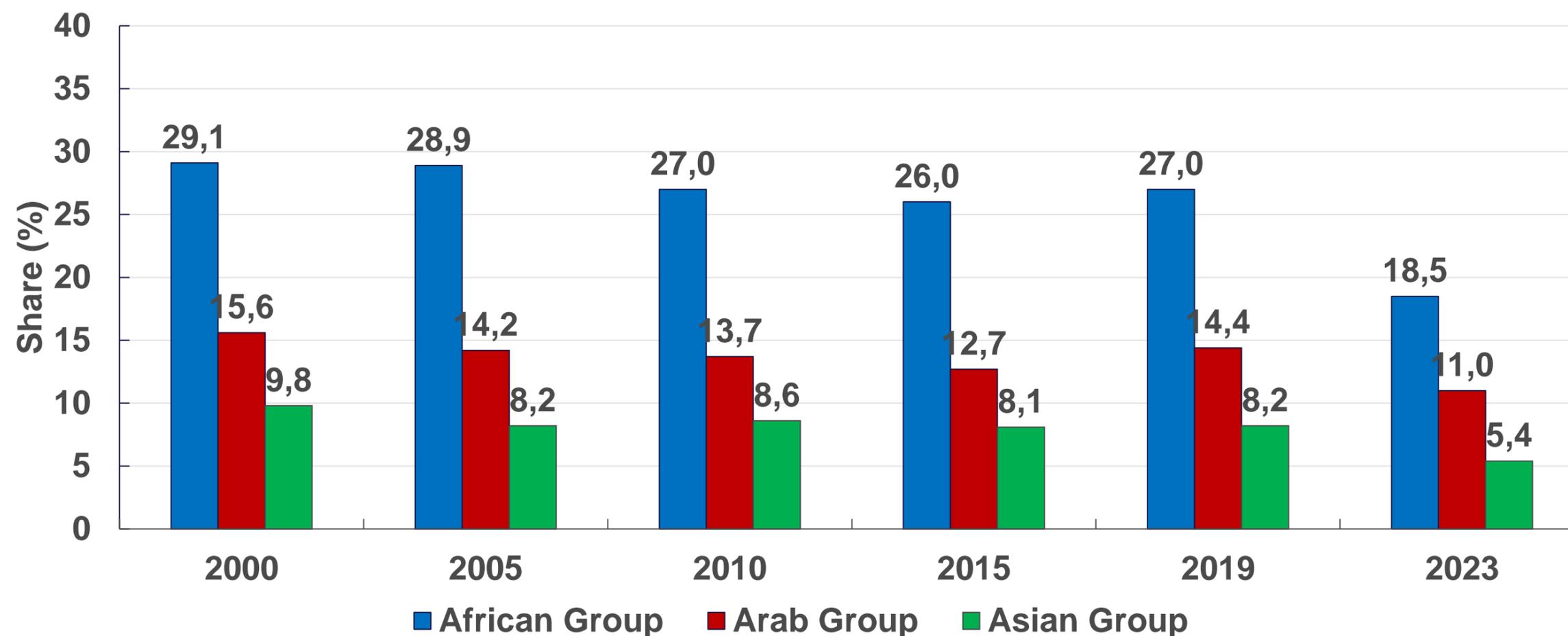
Source: estimated from <https://databank.worldbank.org/source/world-development-indicators>



1. Macro Agricultural Indicators

➤ Agricultural Value Added

Share of Agricultural GDP in Total GDP by Sub-Regions



Sources: Estimated by <https://databank.worldbank.org/source/world-development-indicators>



1. Macro Agricultural Indicators

➤ Agricultural Value Added

Agricultural GDP Rankings in the OIC

	2015			2023		
	Agricultural GDP (Billion Dollar)	Share %		Agricultural GDP (Billion Dollar)	Share (%)	
1	Indonesia	116.2	17.29	Indonesia	171,8	32,00
2	Nigeria	100,4	16.25	Nigeria	82,2	15,31
3	Pakistan	64.4	10.43	Pakistan	79,1	14,74
4	Türkiye	59,4	9,62	Türkiye	68,5	12,76
5	Iran	40,4	6.54	Iran	52.3	9,74
6	Egypt	37,5	6.07	Bangladesh	48,1	8,96
7	Bangladesh	28,8	4.66	Egypt	42.0	7,82
8	Uzbekistan	25,2	4.08	Malaysia	26,5	4,94
9	Malaysia	25,0	4.05	Algeria	31,6	5,89
10	Sudan	20,8	3.37	Saudi Arabia	29,0	5,40
	Top Ten Total	518,10	77,13%	Top Ten Total	536,8	76.00%
	OIC Total	671,7	21,21%	OIC Total	832.9	19.00%
	World	3166,9		World	4347,0	

Source: Estimated from <https://data.worldbank.org/indicator/NV.AGR.TOTL.CD?locations=TR>

1. Macro Agricultural Indicators

➤ Growth Rates

Average Annual Agricultural Growth and Economic Growth (%)

Period	OIC		World	
	Agricultural Growth	Economic Growth	Agricultural Growth	Economic Growth
(1995-2004)	4.25	4.43	2.66	3.18
(2005-2014)	3.57	4.87	2.84	2.83
(1995-2019)	3.90	4.34	2.71	2.97
2023	3,00	4,20	2,10	2,90

Source::

<https://www.sesric.org/publications-detail.php?id=580>

<https://www.sesric.org/publications-detail.php?id=560>

<https://www.fao.org/newsroom/detail/oecd-fao-agricultural-outlook-2023-32-maps-key-output--consumption-and-trade-trends/en>

Average Annual Agricultural Growth by OIC Sub-Regions (%)

Period	African Group		Arab Group		Asian Group	
	Agricultural Growth	Economic Growth	Agricultural Growth	Economic Growth	Agricultural Growth	Economic Growth
(1995-2004)	4.30	4.47	4.28	4.65	3.31	4.56
(2005-2014)	3.91	4.83	3.36	4.94	3.22	5.41
(1995-2019)	4.12	4.59	3.73	4.54	2.81	3.18
2023	3,20	4,00	3,00	4,60	2,80	4,00

1. Macro Agricultural Indicators

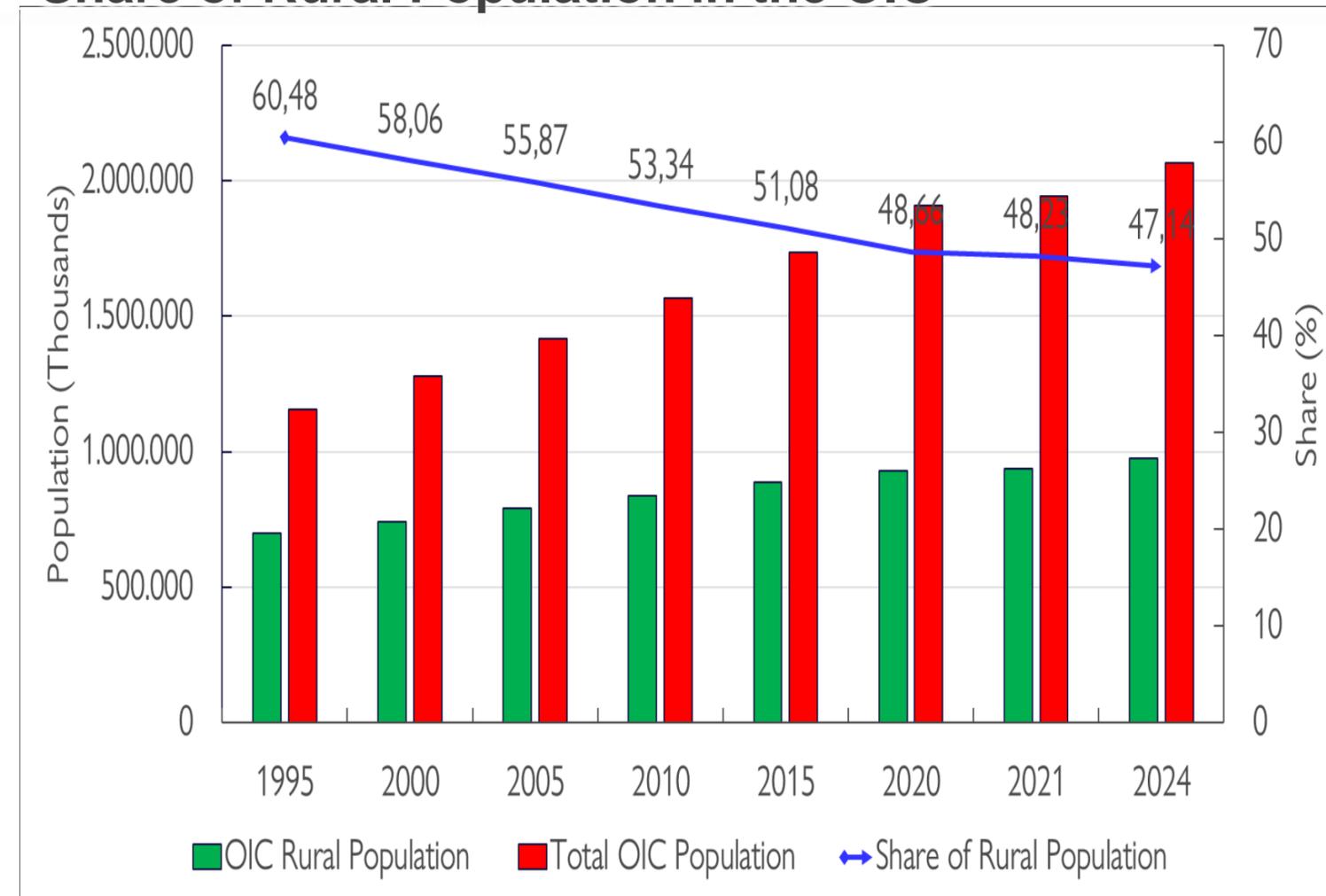
➤ Total and Rural Population/Growth rate

Some Main Indicator of Population OIC and World (2024)

	Total Population (Million)	Rural Population	The Rate of Rural Population (%)	The Rate of Male in Total Population (%)	The Rate of Female in Total Population (%)
African Group	540,5	289.6	53,59	50,00	50,00
Arap Group	476,6	191.1	40,09	51,49	43,96
Asian Group	1.049,9	493.6	47,01	50,34	49,66
OIC Total	2.066.9	974.3	47,14	50,61	49,39
World Total	8.097.9	3.420.5	42,24	50,10	49,90

Source: Estimated from <https://databank.worldbank.org/source/world-development-indicators>

Share of Rural Population in the OIC



Source: Estimated from <https://databank.worldbank.org/source/world-development-indicators>



1. Macro Agricultural Indicators

➤ Total and Rural Population by sub countries group

Population Growth Rate in the OIC and World (%)

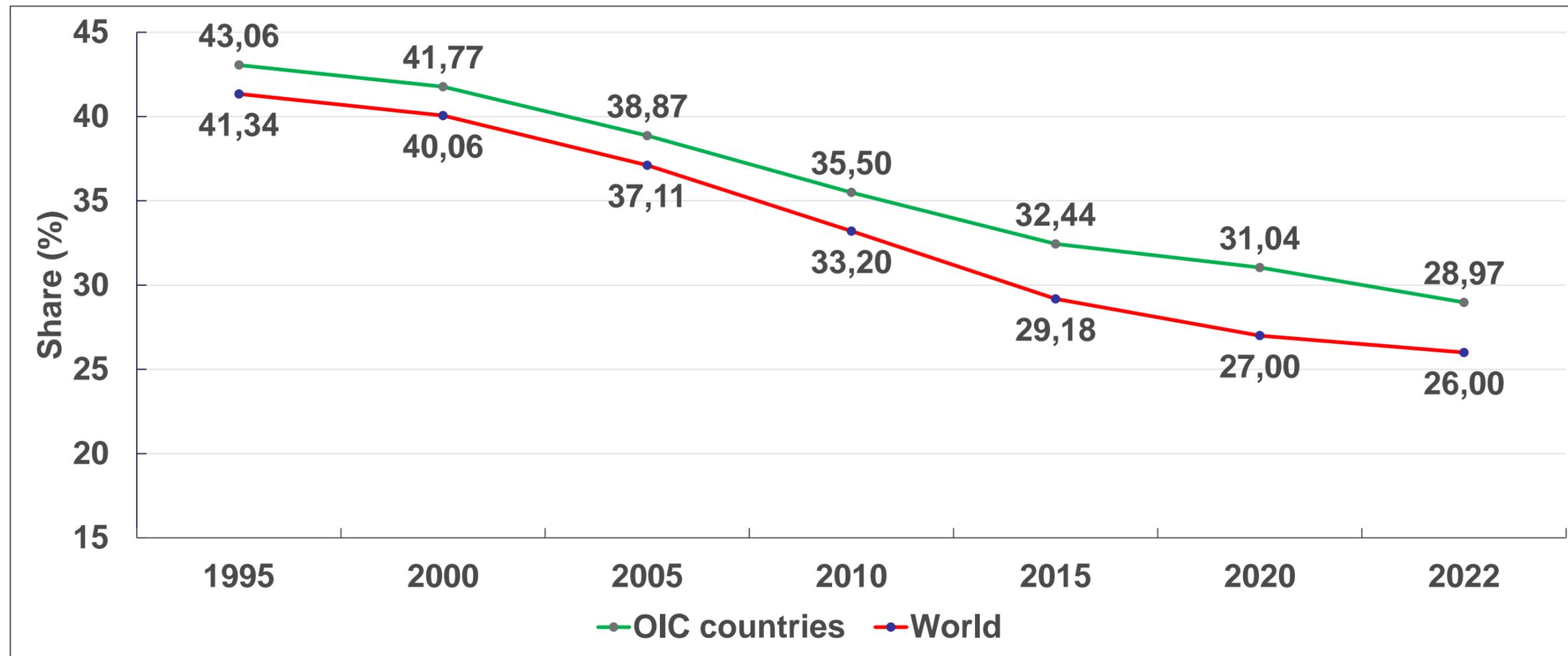
Period	African Group	Arab Group	Asian Group	OIC	World
(1995-2005)	2.71	2.19	1.71	2.04	1.32
(2005-2016)	2.83	2.32	1.53	2.01	1.20
(1995-2018)	2.83	2.85	1.48	2.41	1.26
(2021-2024)	2,75	2,00	1,75	2,00	1,15

Source: Estimated from <https://www.sesric.org/publications-detail.php?id=580>

1. Macro Agricultural Indicators

➤ Agricultural Employment

Share of Agricultural Employment in the OIC and World



Source: estimated from <https://genderdata.worldbank.org/en/indicator/sl-empl-zs?gender=total>

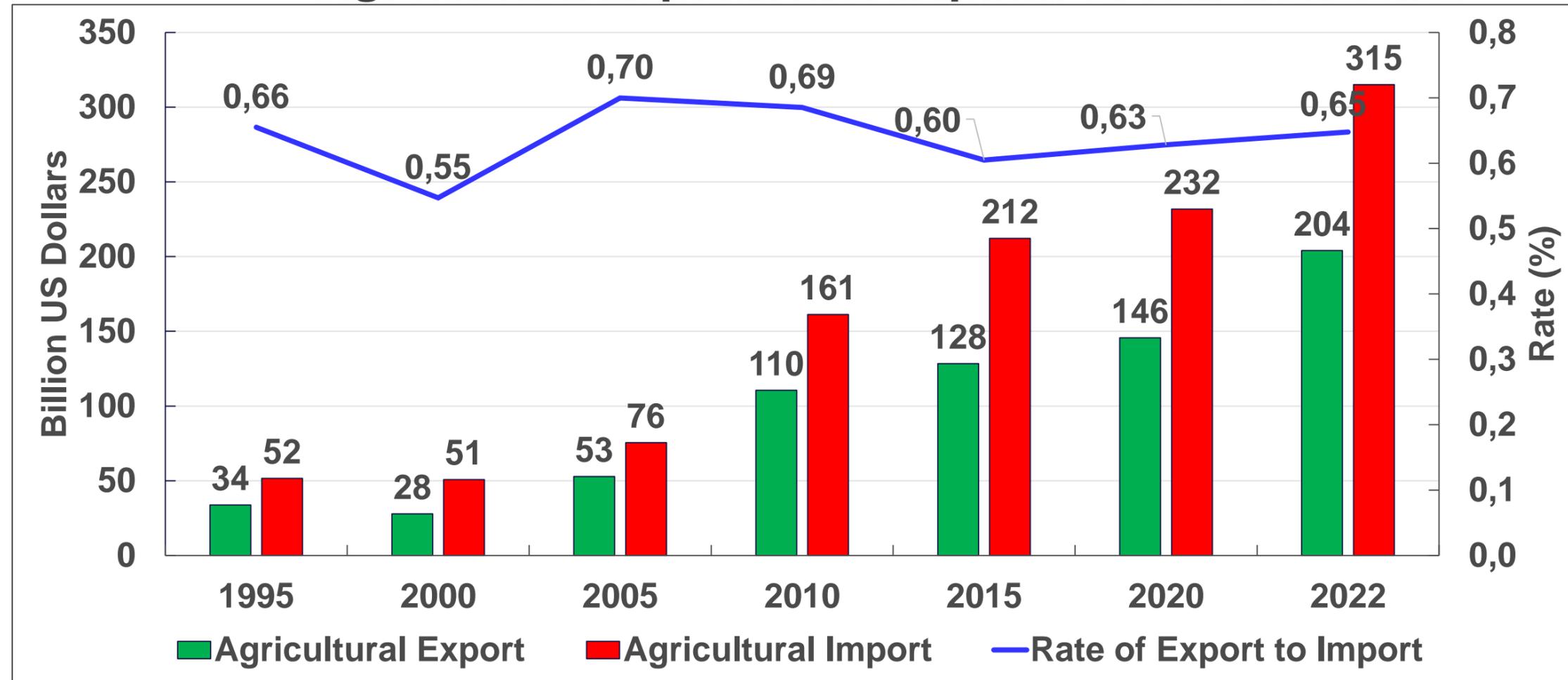
<https://data.worldbank.org/indicator/SL.AGR.EMPL.ZS?end=2022&locations=BF-MN&start=1991&view=map>



1. Macro Agricultural Indicators

➤ International Trade

Agricultural Exports and Imports of OIC Countries

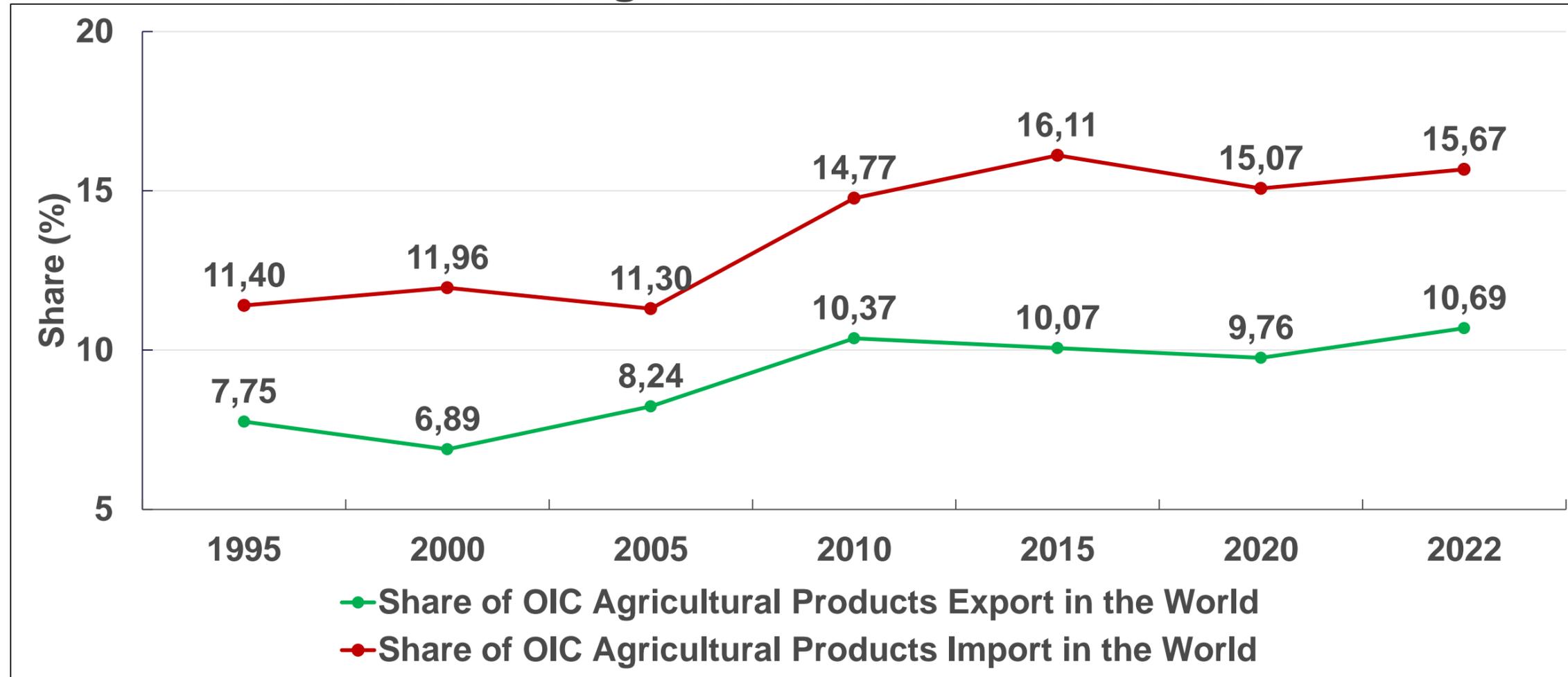


Source: Estimated from <https://www.fao.org/faostat/en/#data/TCL>

1. Macro Agricultural Indicators

➤ International Trade

Share of OIC Agricultural Trade in the World

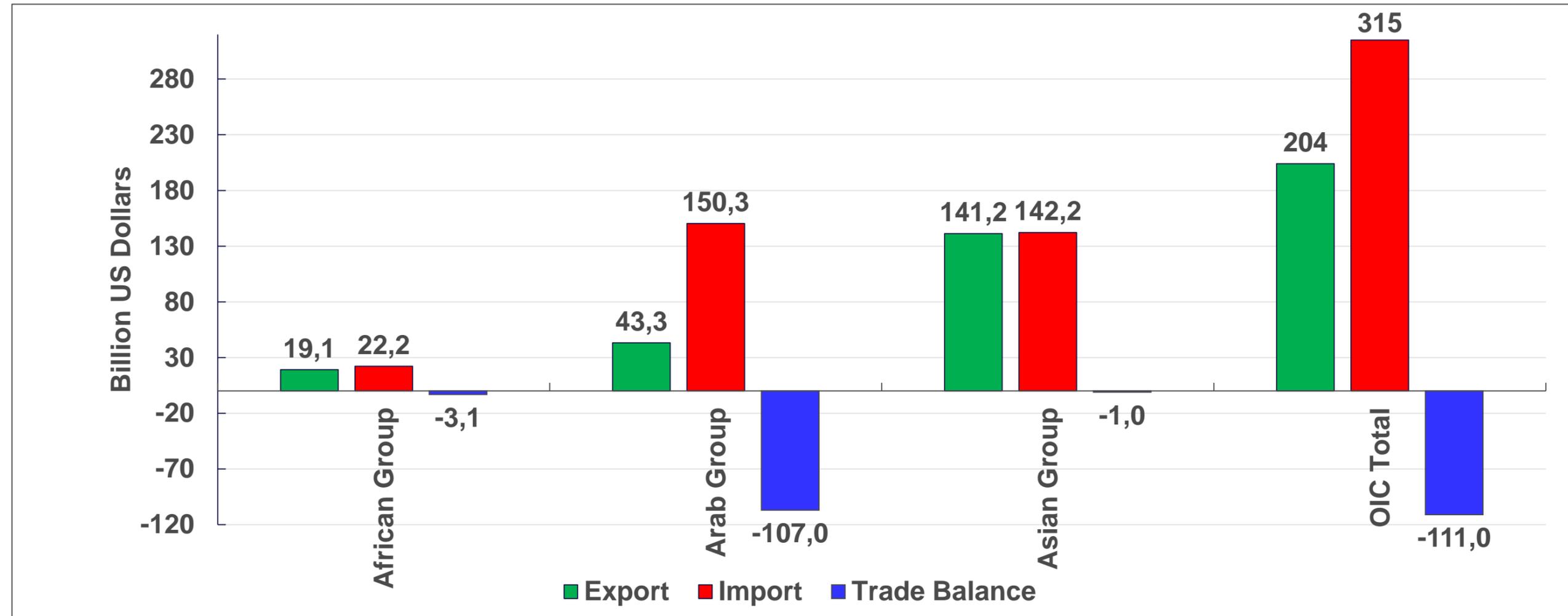


Source: Estimated from <https://www.fao.org/faostat/en/#data/TCL>

1. Macro Agricultural Indicators

➤ International Agricultural Trade

Agricultural Trade Balance in the OIC by Sub-Regions (2022)



Source: Estimated from <https://www.fao.org/faostat/en/#data/TCL>



2. Sectorial Indicators

➤ Resource Use

Land Use in the OIC and the World, 2022

	Land Area	Agricultural Land	Arable land	Permanent Crops	Permanent Meadows and Pastures
OIC (million ha)	3.136	1.418	318	77	1.022
Share in Total Agricultural Area (%)		100.0	23.1	4.9	72.0
World (million ha)	13.015	4.781	1.383	189	3.207
Share of OIC in the World (%)	24.05	29.70	22.99	40.74	31.87

Source:
Estimated from
<https://www.fao.org/faostat/en/#data/RL>

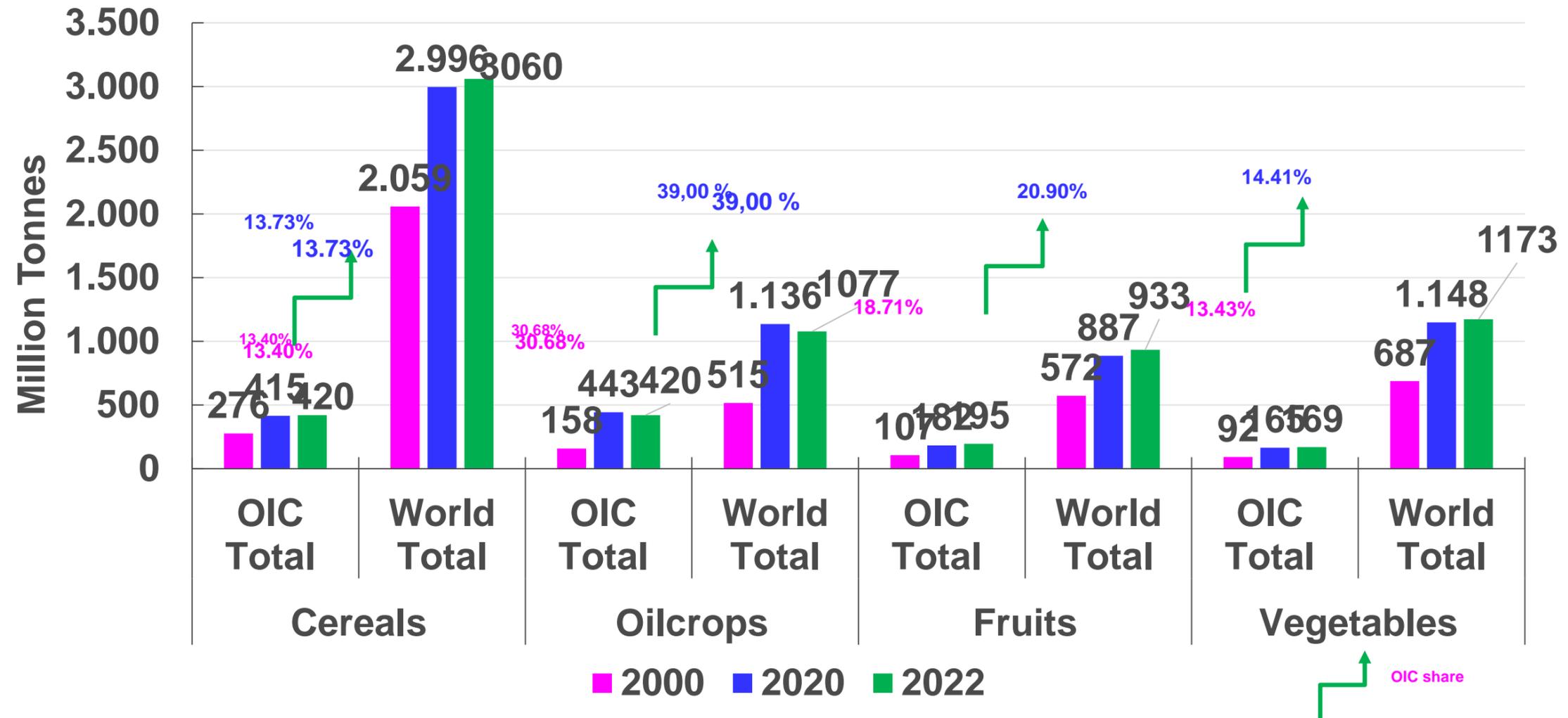
Shares of Land Use in OIC Sub-Regions , 2022

OIC Sub-region	Land Area	Agricultural Land	Arable land	Permanent Crops	Permanent Meadows and Pastures
African Group (%)	24,49	25,37	36,80	32,40	21,29
Arab Group (%)	41,77	36,88	18,81	11,42	44,47
Asian Group (%)	33,73	37,75	44,40	56,18	34,24
OIC Total (%)	100,00	100,00	100,00	100,00	100,00

2. Sectorial Indicators

➤ Crop Production

Crop Productions in the OIC and Shares in the World



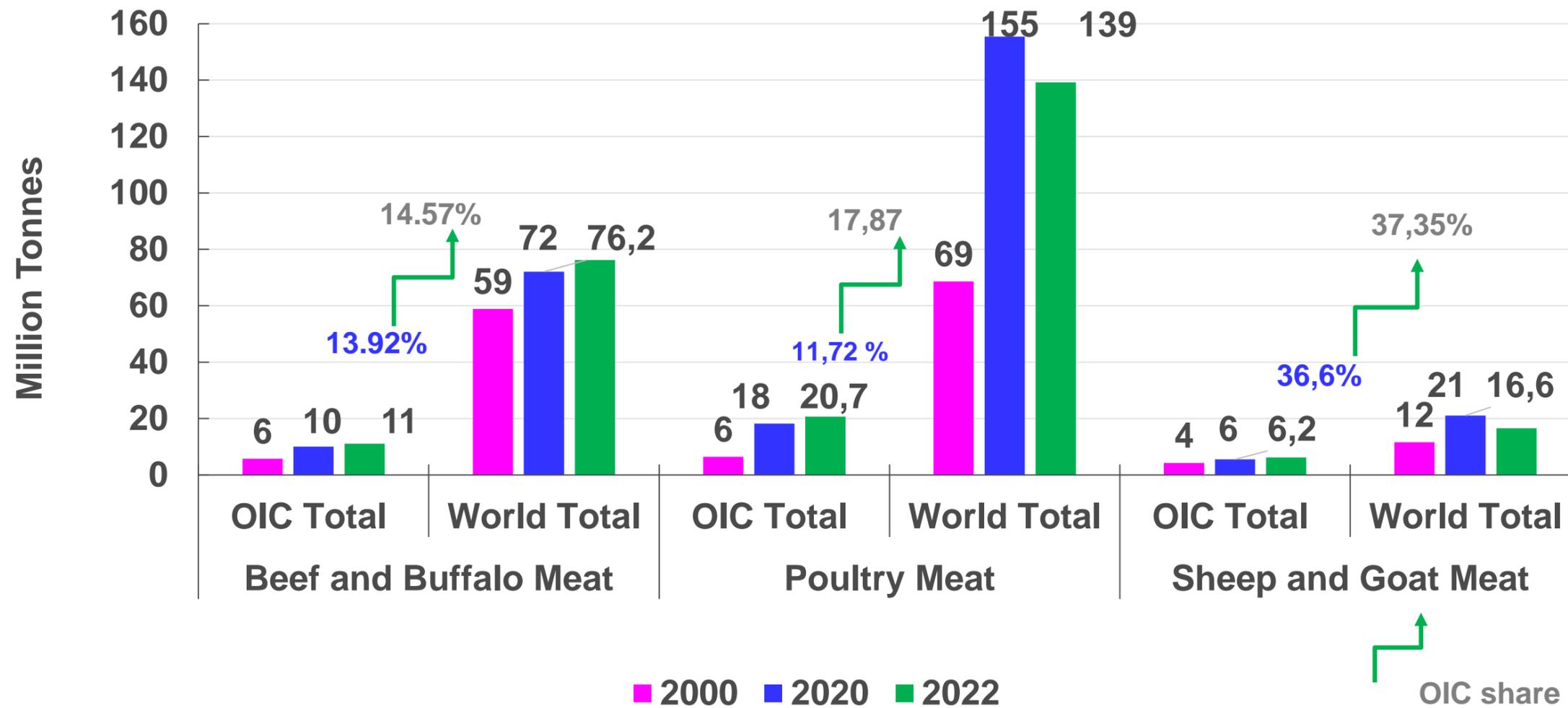
Source Estimated from <https://www.fao.org/faostat/en/#data/QCL>



2. Sectorial Indicators

➤ Livestock Production

Meat Production in the OIC and the World



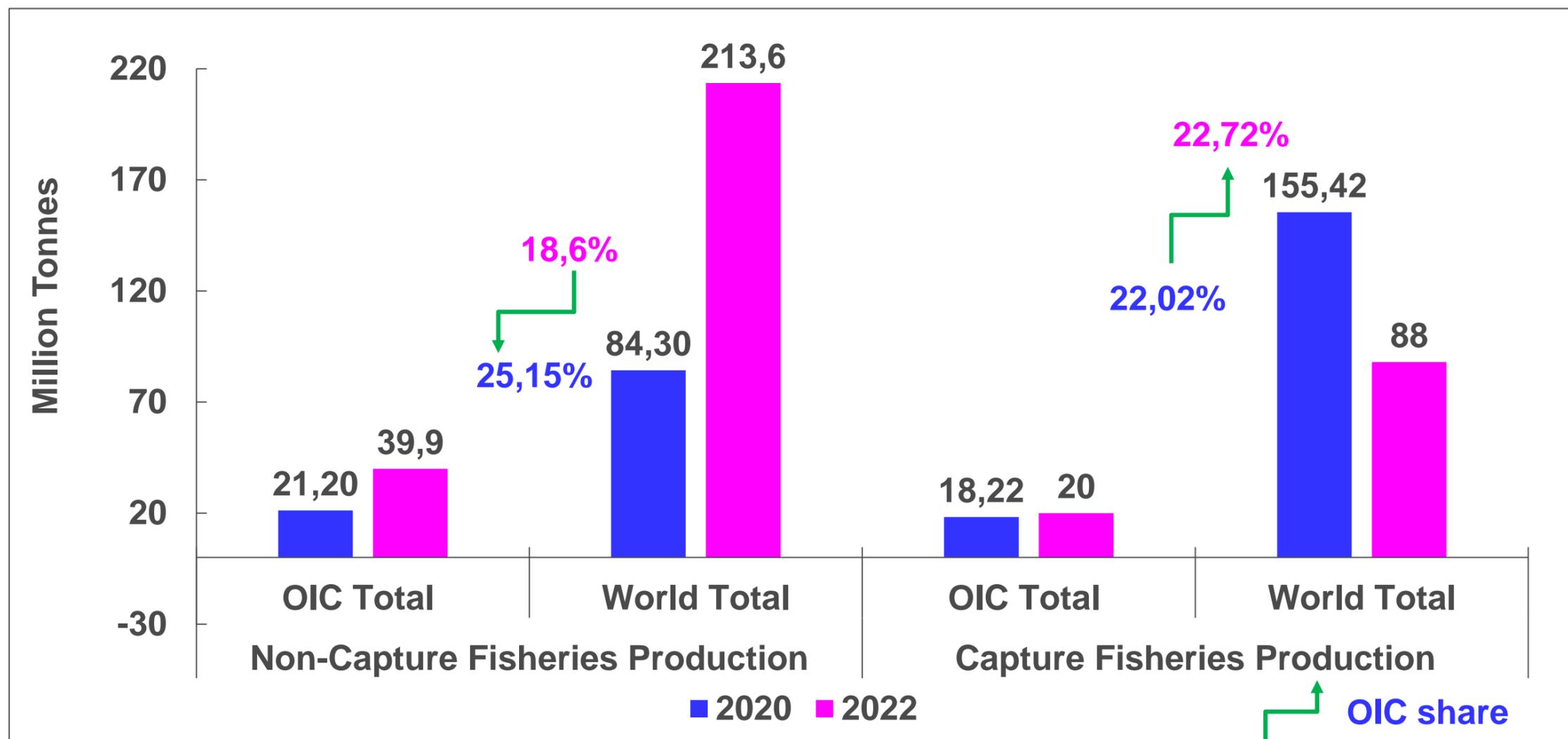
Source: Estimated from <https://www.fao.org/faostat/en/#data/QCL>



2. Sectorial Indicators

➤ Fish Production

Fish Production in the OIC and the World



Source: Estimated from <https://databank.worldbank.org/source/world-development-indicators#>

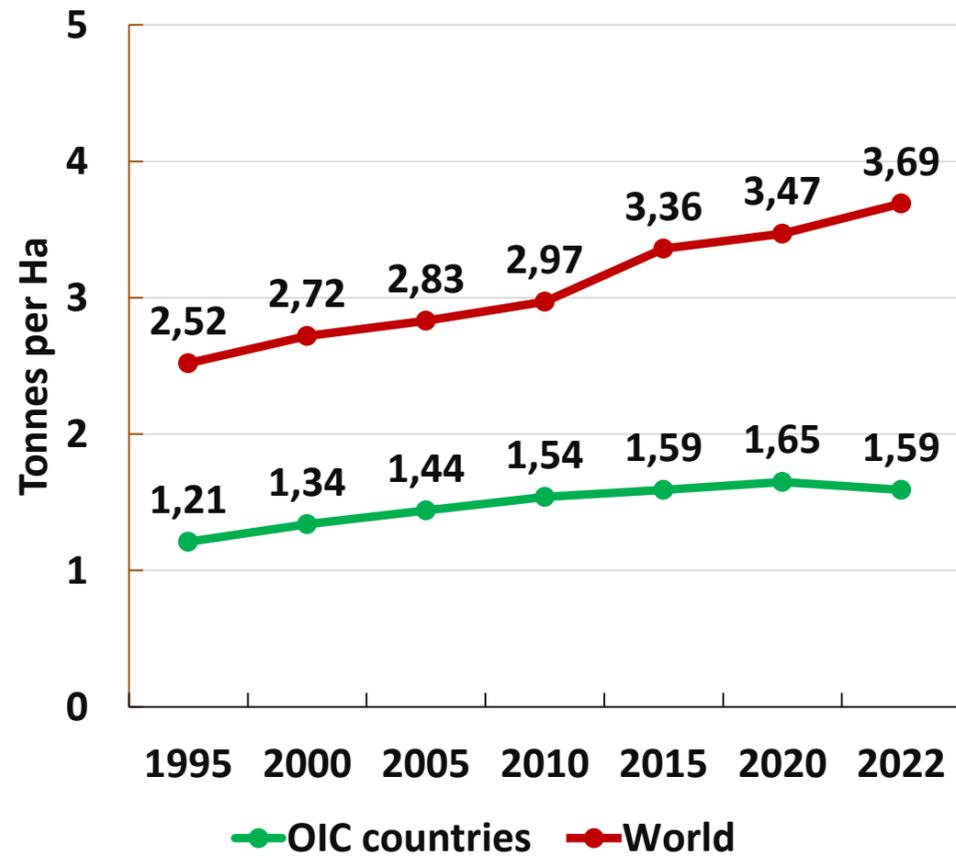


2. Sectorial Indicators

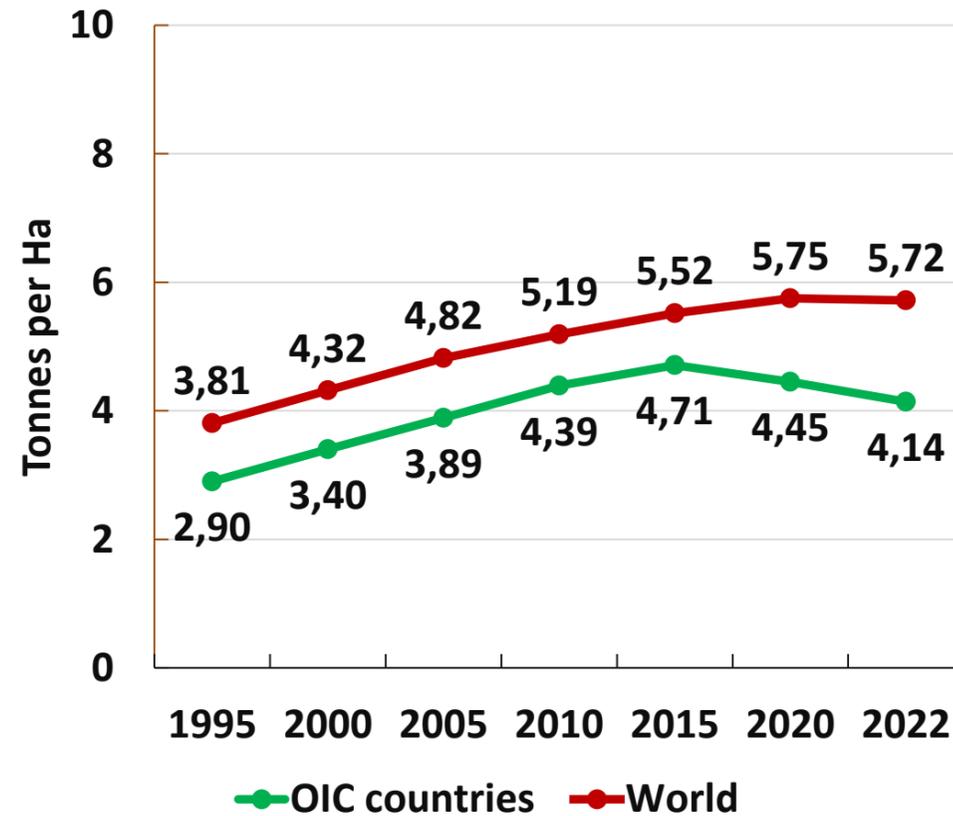
➤ Agricultural Productivity: Crop productivity

Wheat, Maize and Cotton Seed Yield

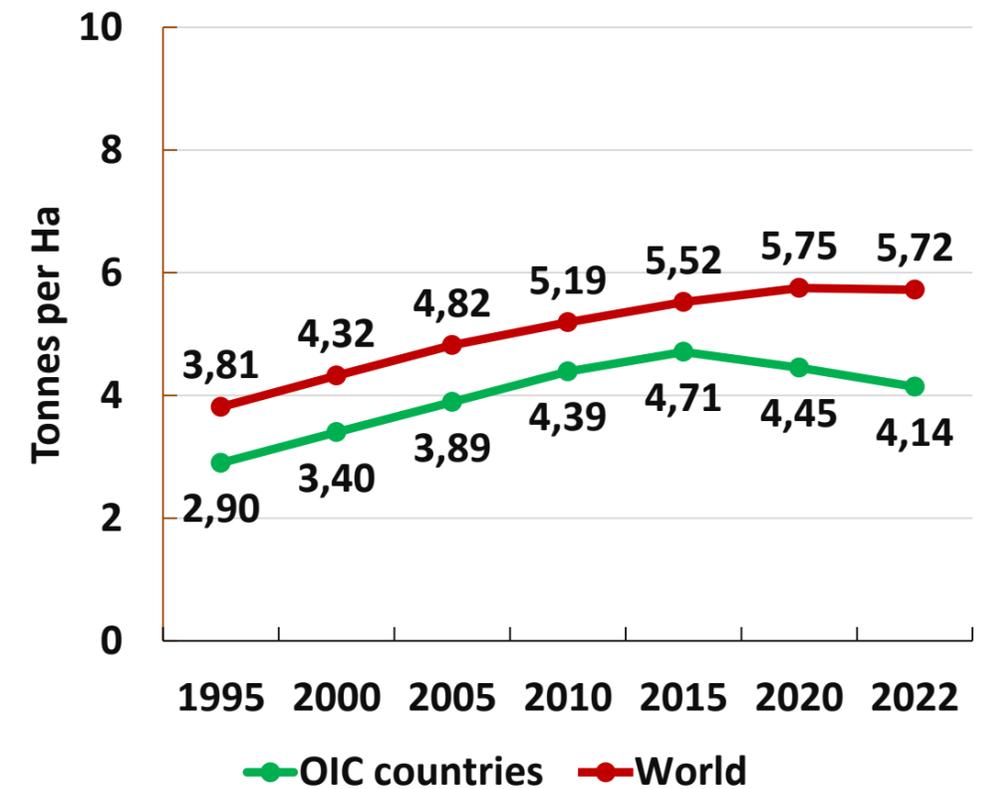
Wheat Yield in the OIC and the World



Maize Yield in the OIC and the World



Cotton Yield in the OIC and the World



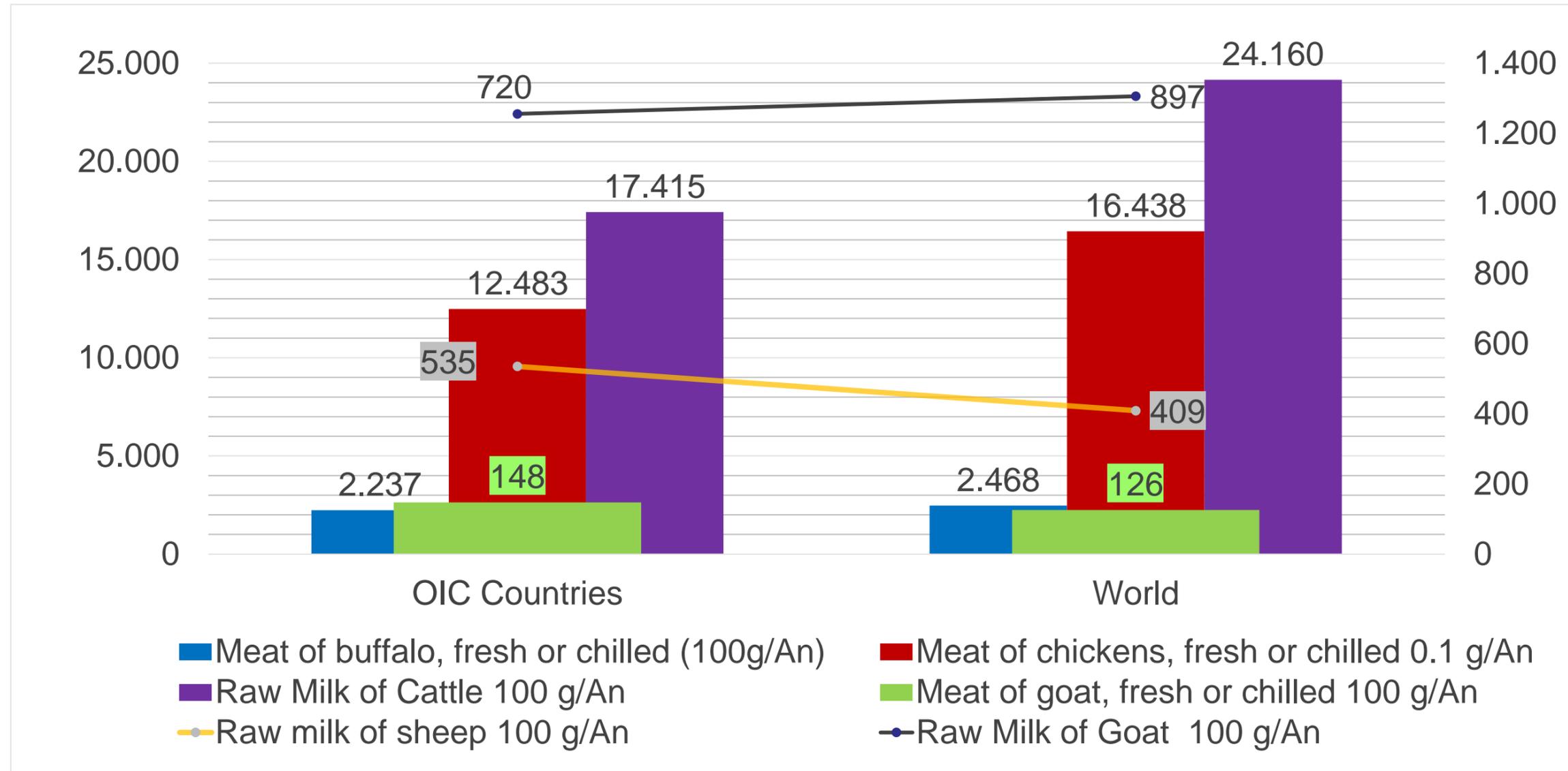
Source: Estimated from <https://www.fao.org/faostat/en/#data/QCL>



2. Sectorial Indicators

➤ Livestock productivity

Meat and Milk Yield in the OIC and the World (2022)



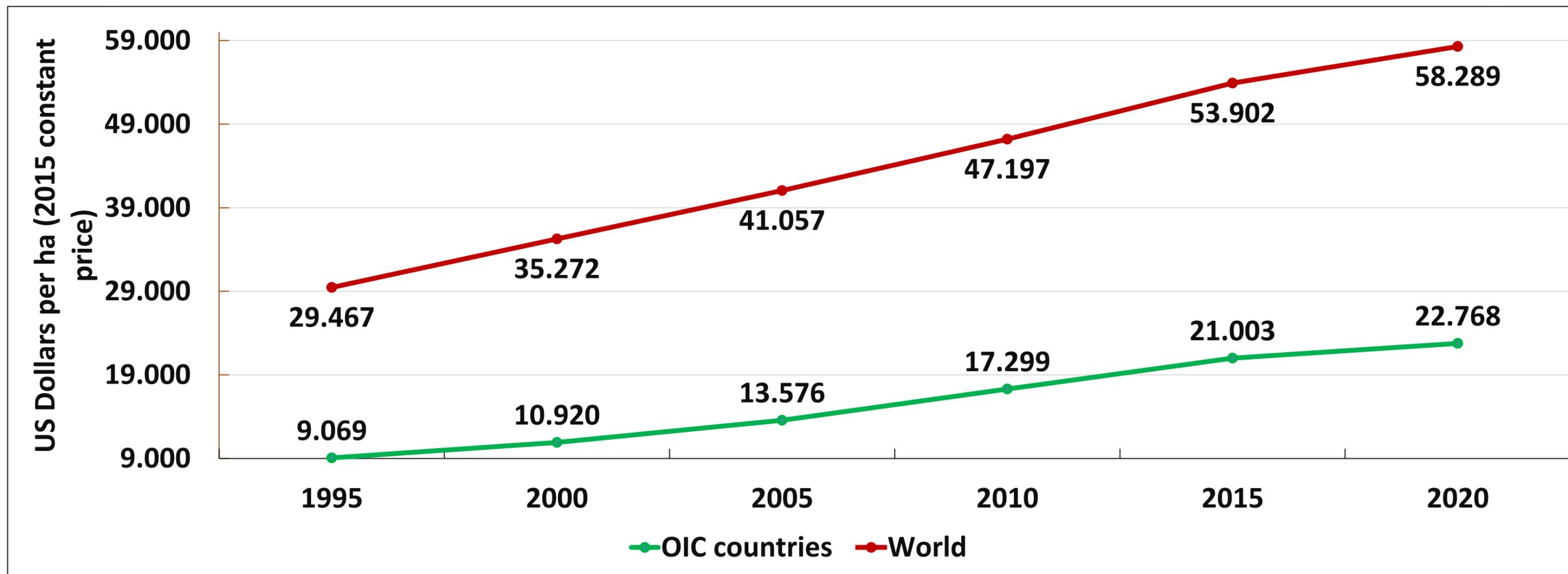
Source: Estimated from <https://www.fao.org/faostat/en/#data/QCL>



2. Sectorial Indicators

➤ Agricultural Productivity: Land Productivity

Land Productivity in the OIC and the World (US Dollar per hectare, Agr. GDP at

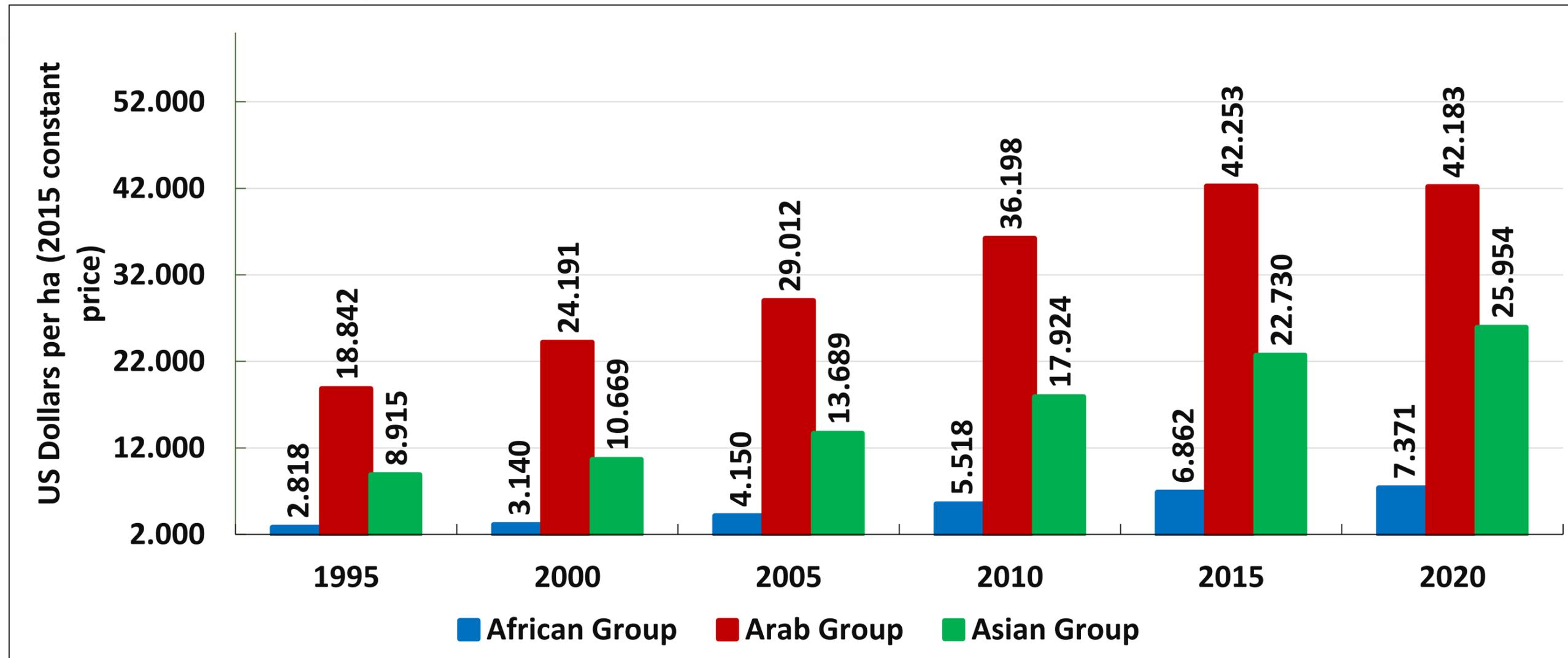


Source: Estimated from
<https://www.fao.org/faostat/en/#data/QCL>

2. Sectorial Indicators

➤ Agricultural Productivity

Land Productivity in the OIC by Sub-Regions (US Dollar per hectare, Agr. GDP at 2015 constant prices)

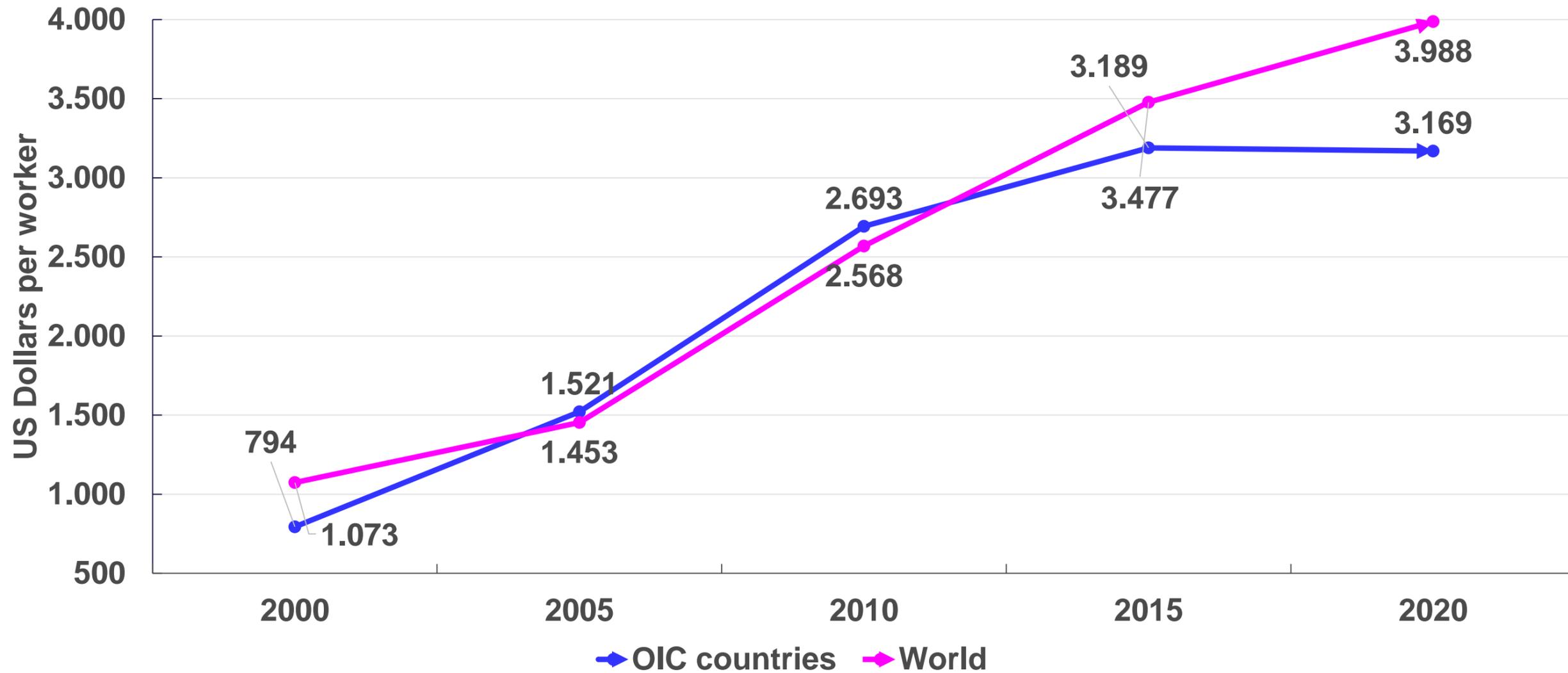


Source: Estimated from World Development Indicator

2. Sectorial Indicators

➤ Agricultural Productivity: Labour productivity

Agricultural Labor Productivity in the OIC and World



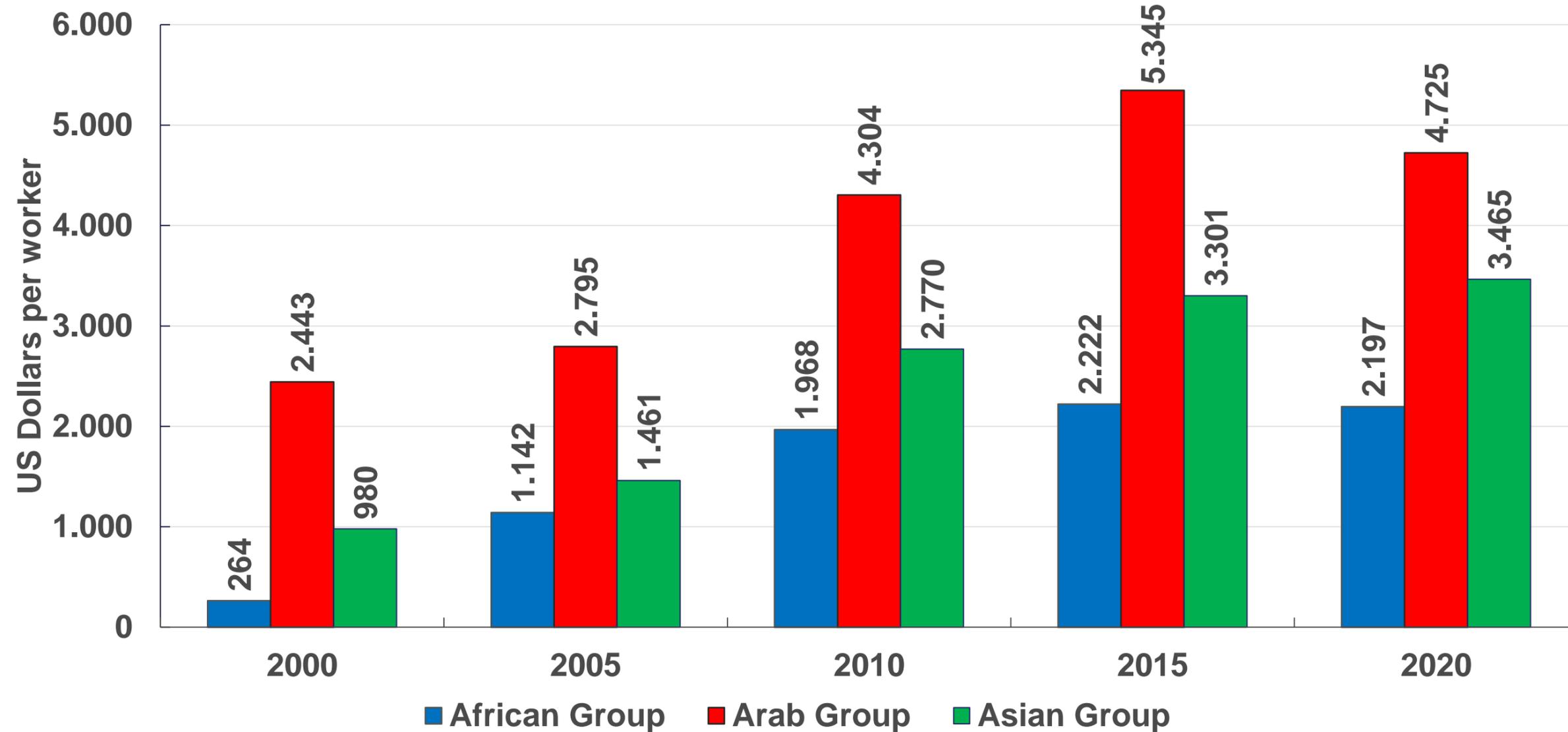
Source: World Development Indicator
<https://ourworldindata.org/grapher/agriculture-value-added-per-worker-wdi>



2. Sectorial Indicators

➤ Labour productivity

Agricultural Labor Productivity in the OIC by Sub-Regions



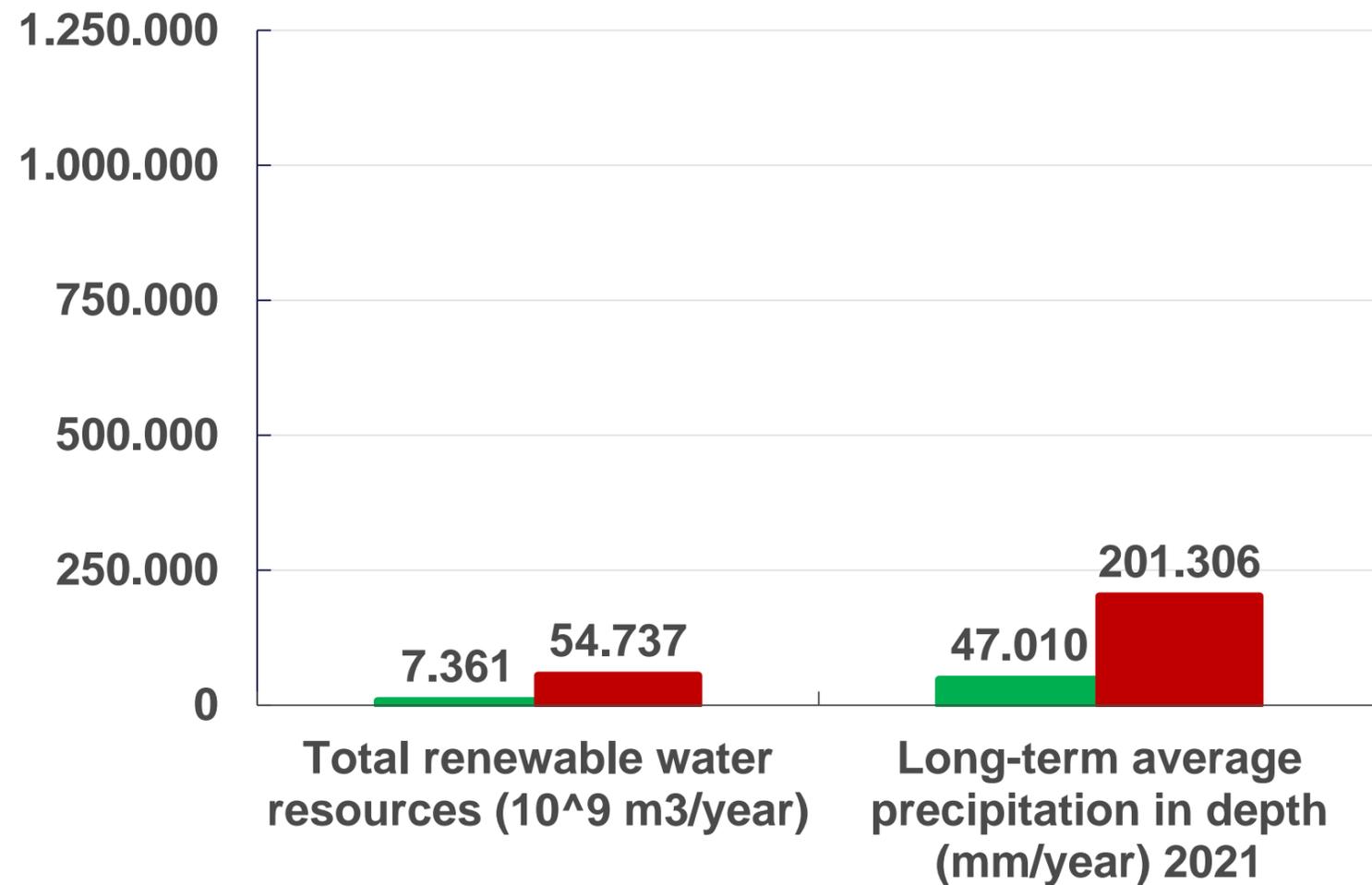
Source: FAOSTAT
<https://ourworldindata.org/grapher/agriculture-value-added-per-worker-wdi>



2. Sectorial Indicators

➤ Agricultural Input Usage: Resource Use (WATER)

Renewable Water Potential in the OIC/ Main countries (2019-2021)



■ OIC countries ■ World

Source: <https://data.apps.fao.org/aquastat/?lang=en&share=f-f8046cee-bff4-450a-9ce3-f5ee40bf5ffd>

Rank	Renewable Water-Rich Country (Top 10)	Renewable Water Resources Per Hectare (m ³ /ha)
1	Indonesia	2.018,70
2	Bangladesh	1.227,03
3	Malaysia	580,00
4	Guyana	271,00
5	Cameroon	283,15
6	Nigeria	286,20
7	Pakistan	246,00
8	Guinea	226,00
9	Mozambique	217,00
10	Türkiye	211,60

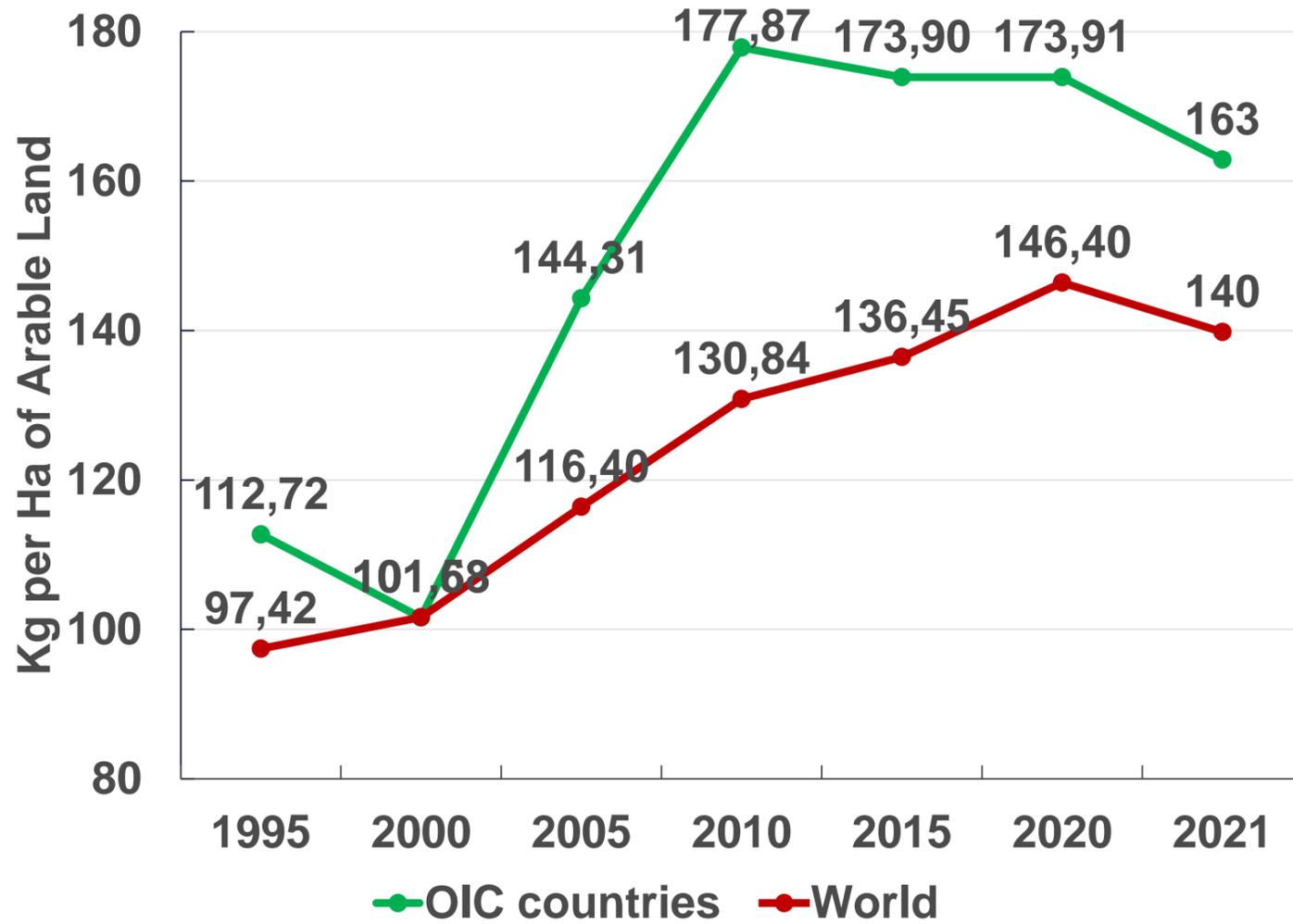
Rank	Renewable Water-Poor Country (Top 10)	Renewable Water Resources Per Hectare (m ³ /ha)
1	Kuwait	0,02
2	Maldives	0,03
3	Qatar	0,06
4	United Arab Emirates	0,15
5	Bahrain	0,12
6	Djibouti	0,30
7	Libya	0,70
8	Palestine	0,84
9	Jordan	0,96
10	Comoros	1,20

Source: <https://data.apps.fao.org/aquastat/?lang=en&share=f-61599cf1-510f-4087-94a8-5f00e36866bc>

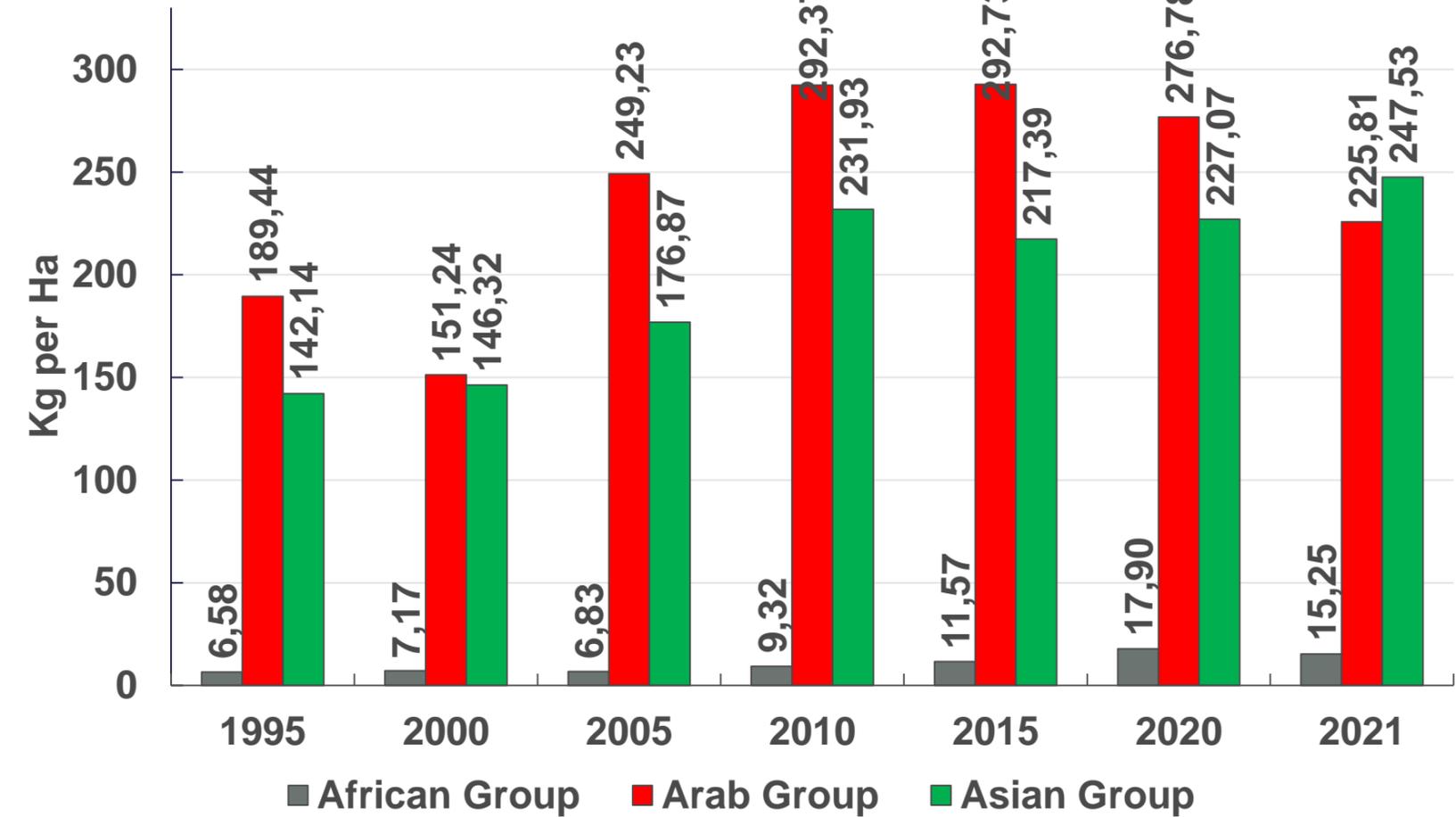
2. Sectorial Indicators

➤ Agricultural Input Usage: Resource Use (FERTILIZER)

Fertilizer Use in the OIC and the World



Fertilizer Use in the OIC by sub-Regions



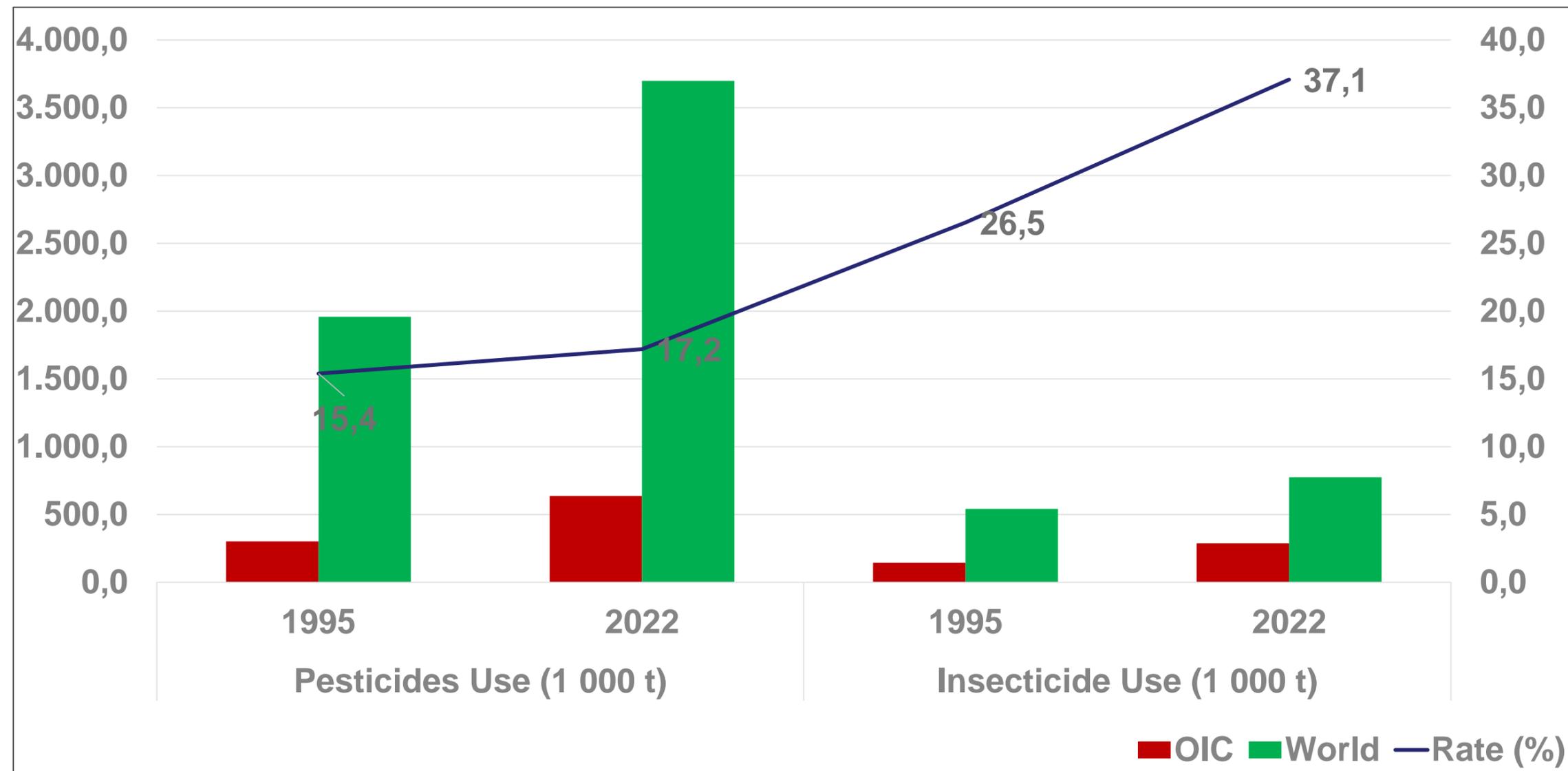
Source: Estimated from <https://databank.worldbank.org/source/world-development-indicators#>



2. Sectorial Indicators

➤ Agricultural Input Usage: Resource Use (PESTICIDE&INSICIDIES)

Pesticide and Insecticide use the OIC and World (2022)

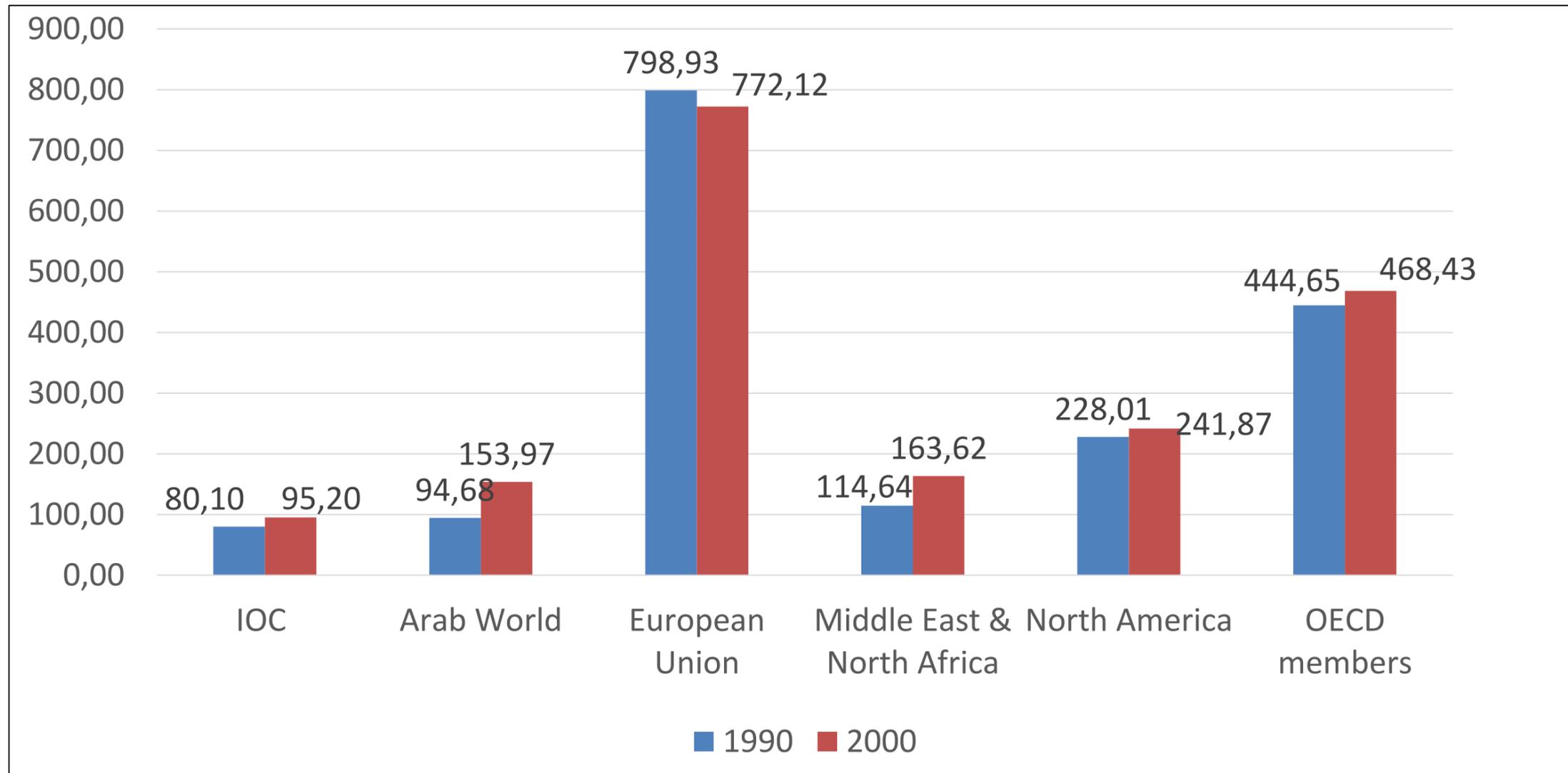


Source: <https://www.fao.org/faostat/en/#data/QCL>

2. Sectorial Indicators

➤ Agricultural Input Usage: Resource Use (MECHANIZATION)

Tractors per 100 sq. km of arable land



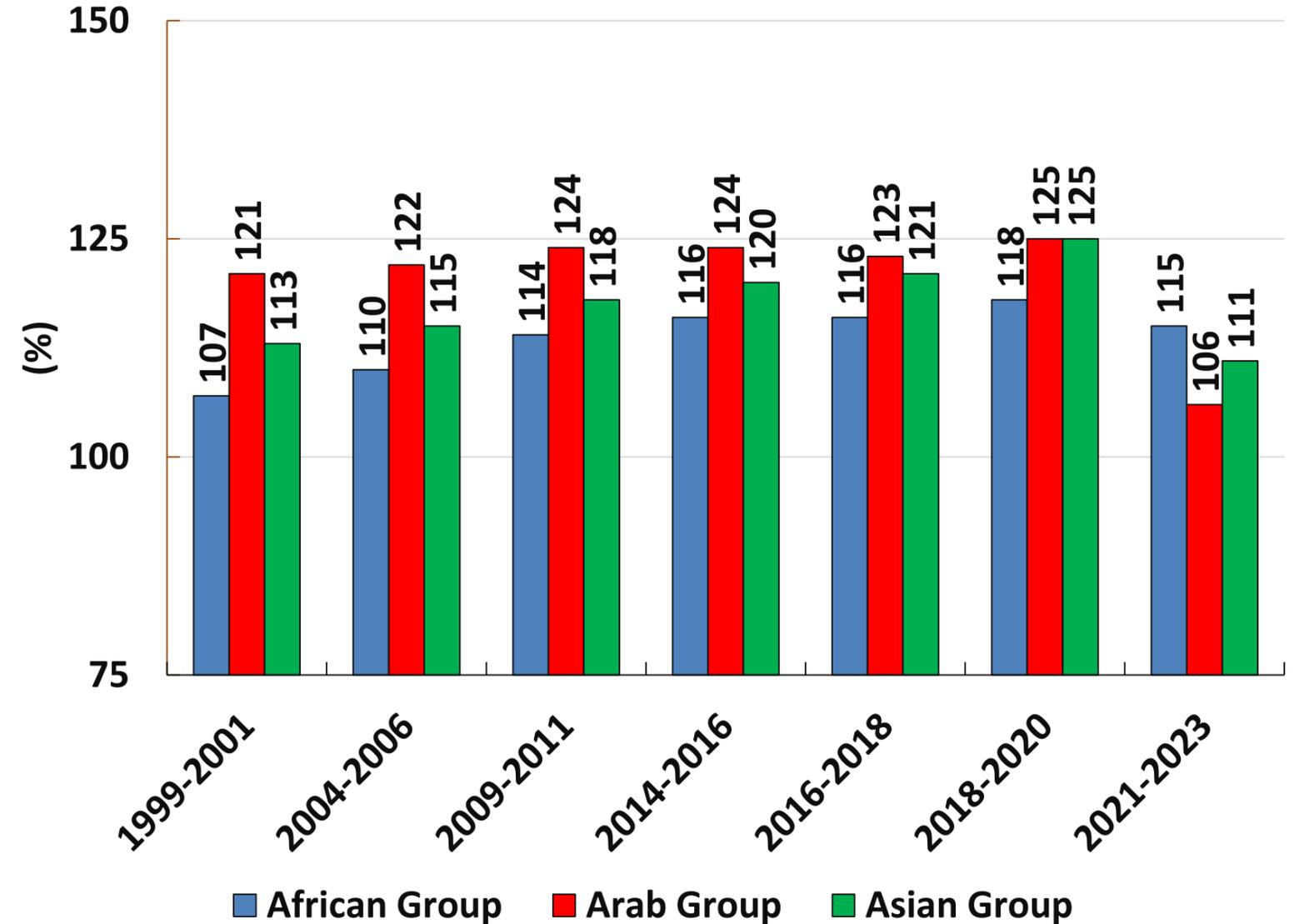
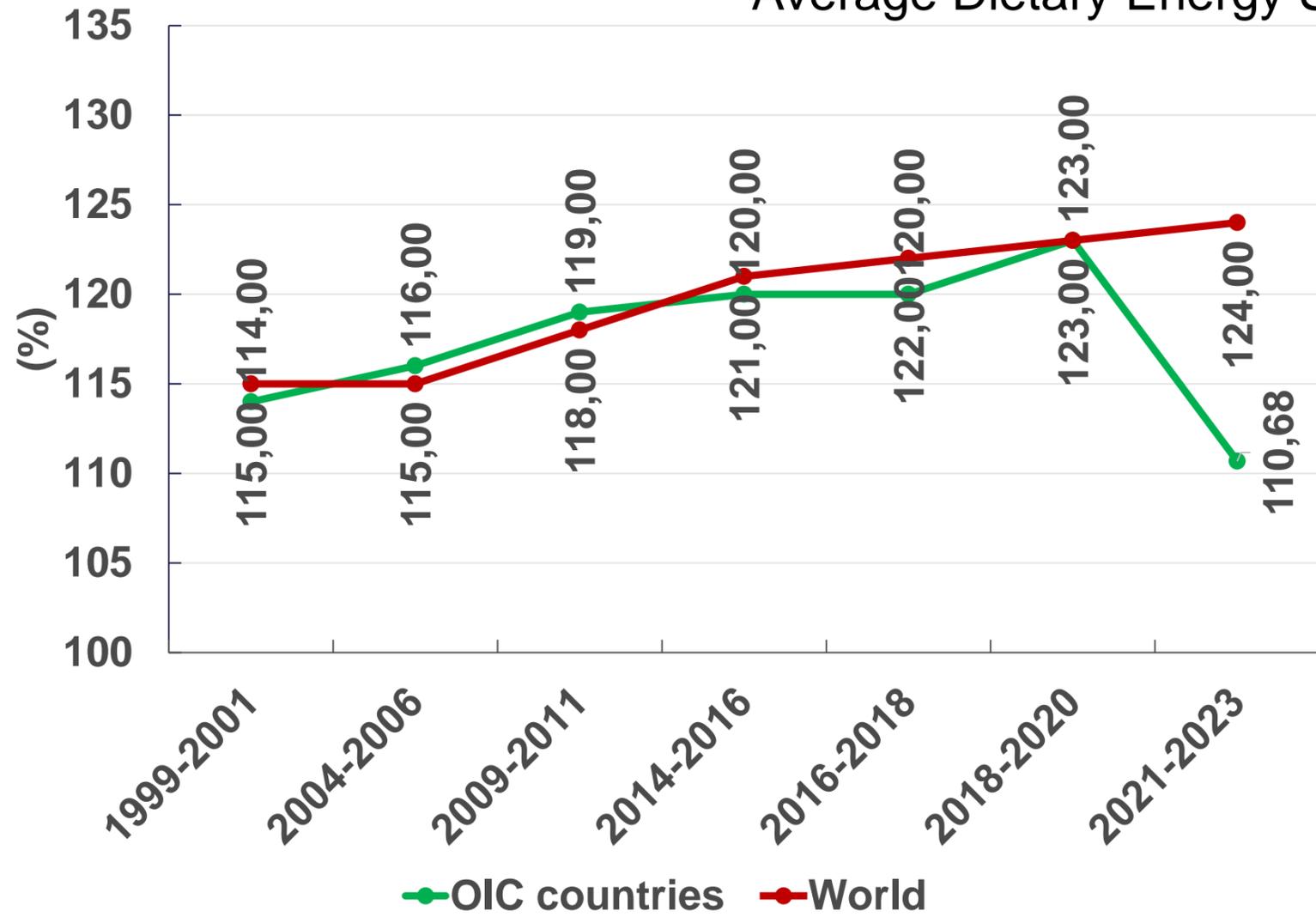
Sources: <https://databank.worldbank.org/source/world-development-indicators/Series/AG.LND.TRAC.ZS#>



3. The State of Food Security

➤ Availability (Dietary Energy Supply Adequacy)

Average Dietary Energy Supply Adequacy in the OIC and the World



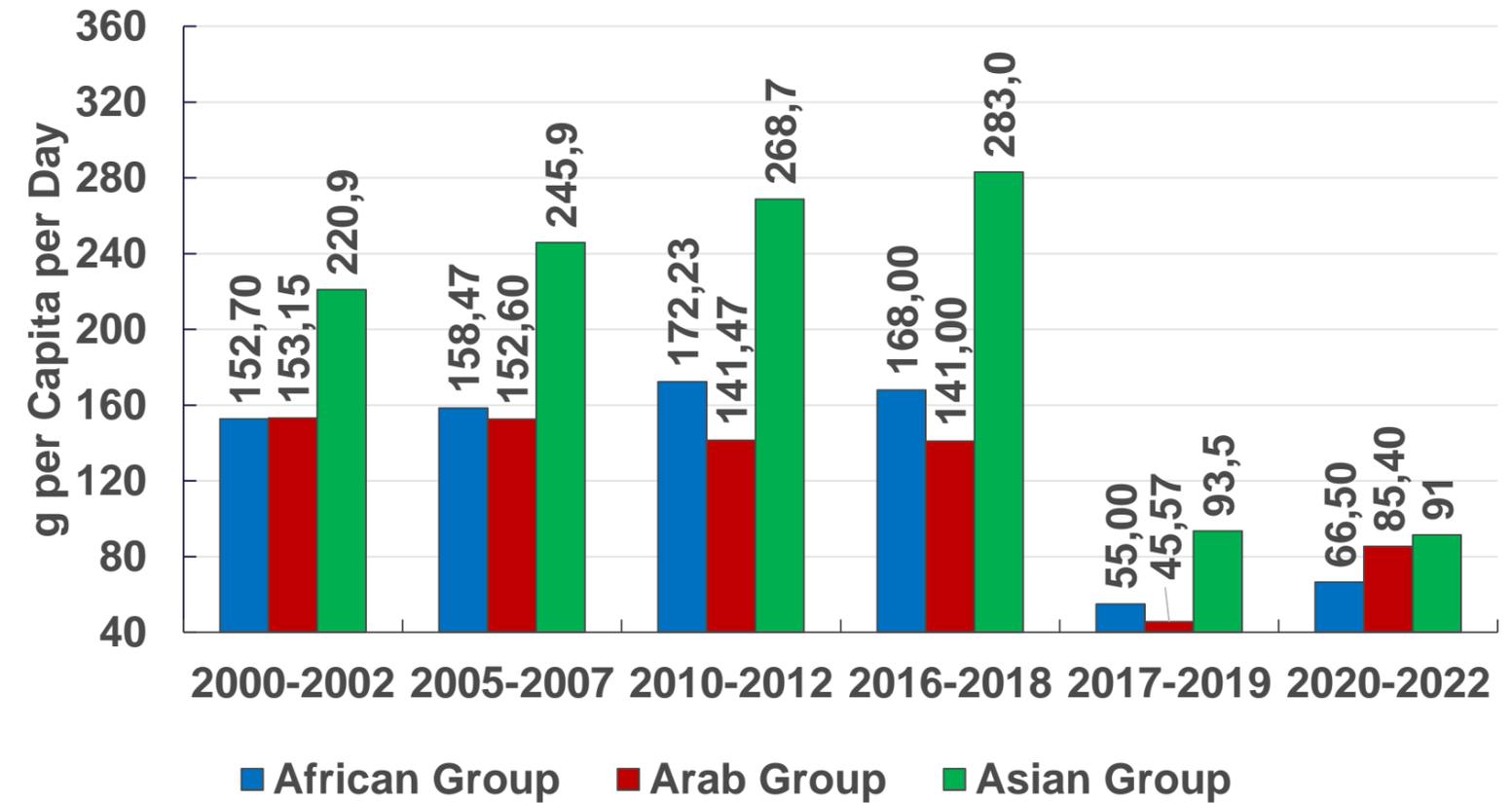
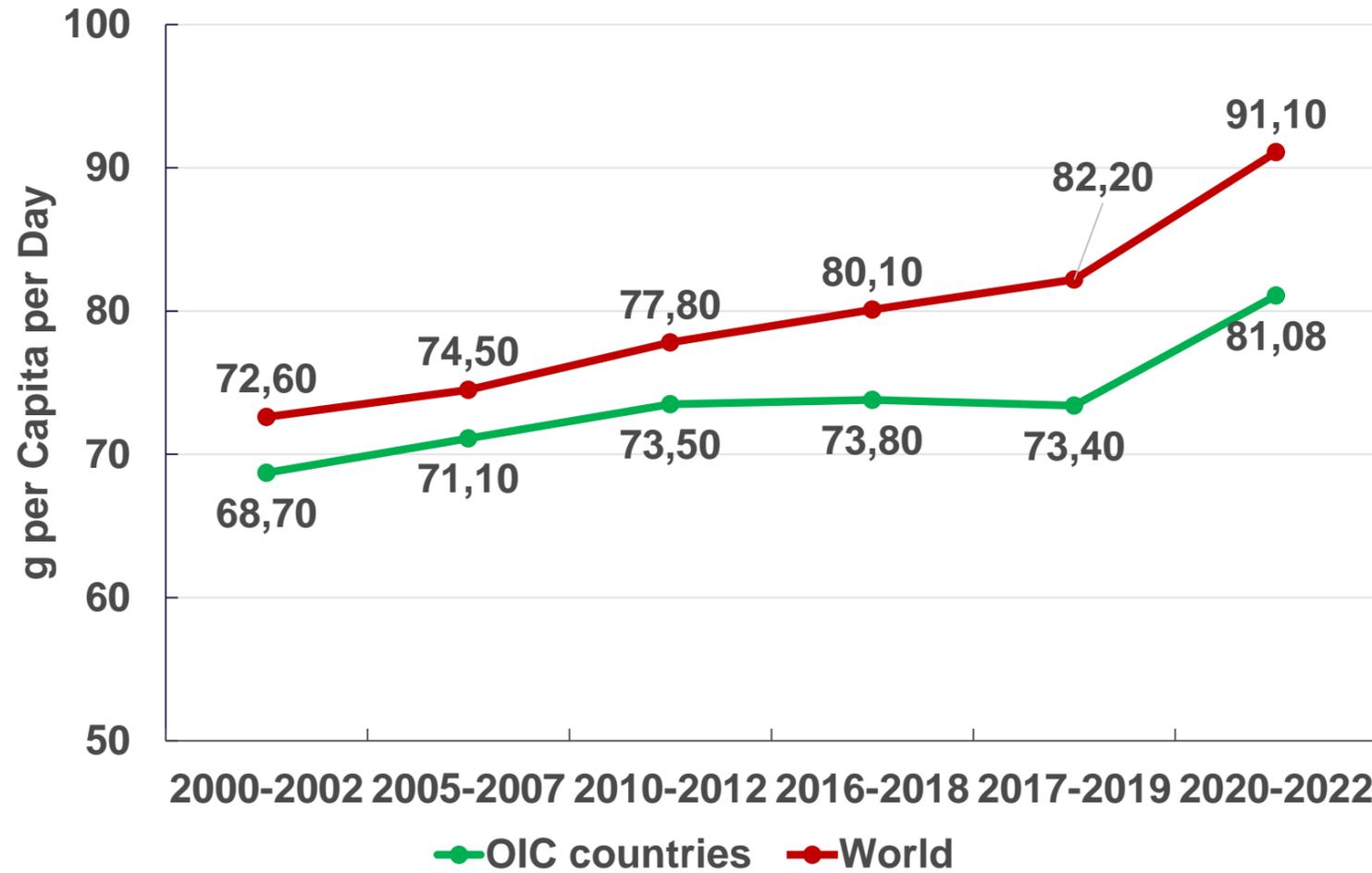
Sources: <https://www.fao.org/faostat/en/#data/FS>



3. The State of Food Security

➤ Availability (Average Protein Supply)

Average Protein Supply in the OIC and the World



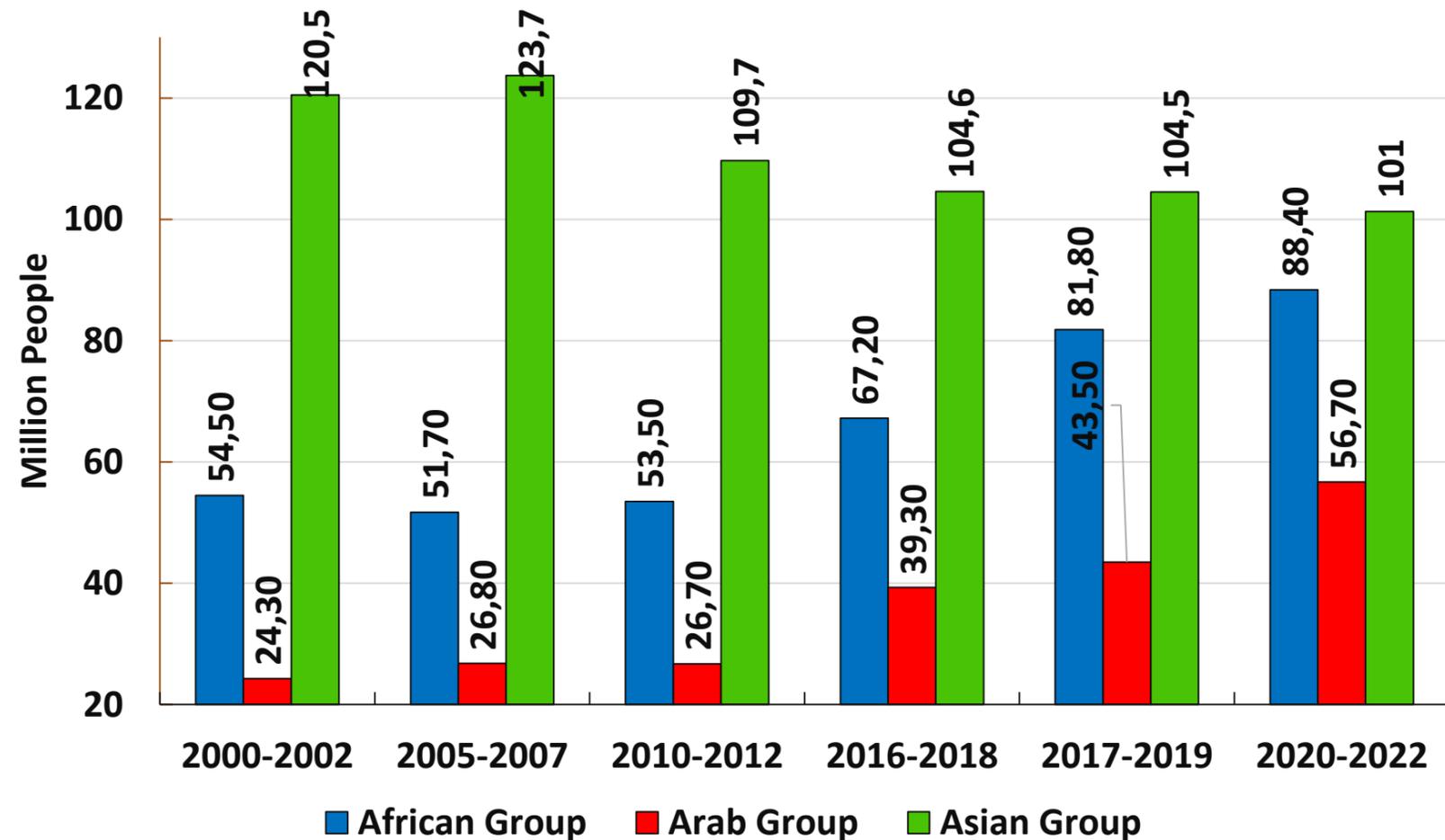
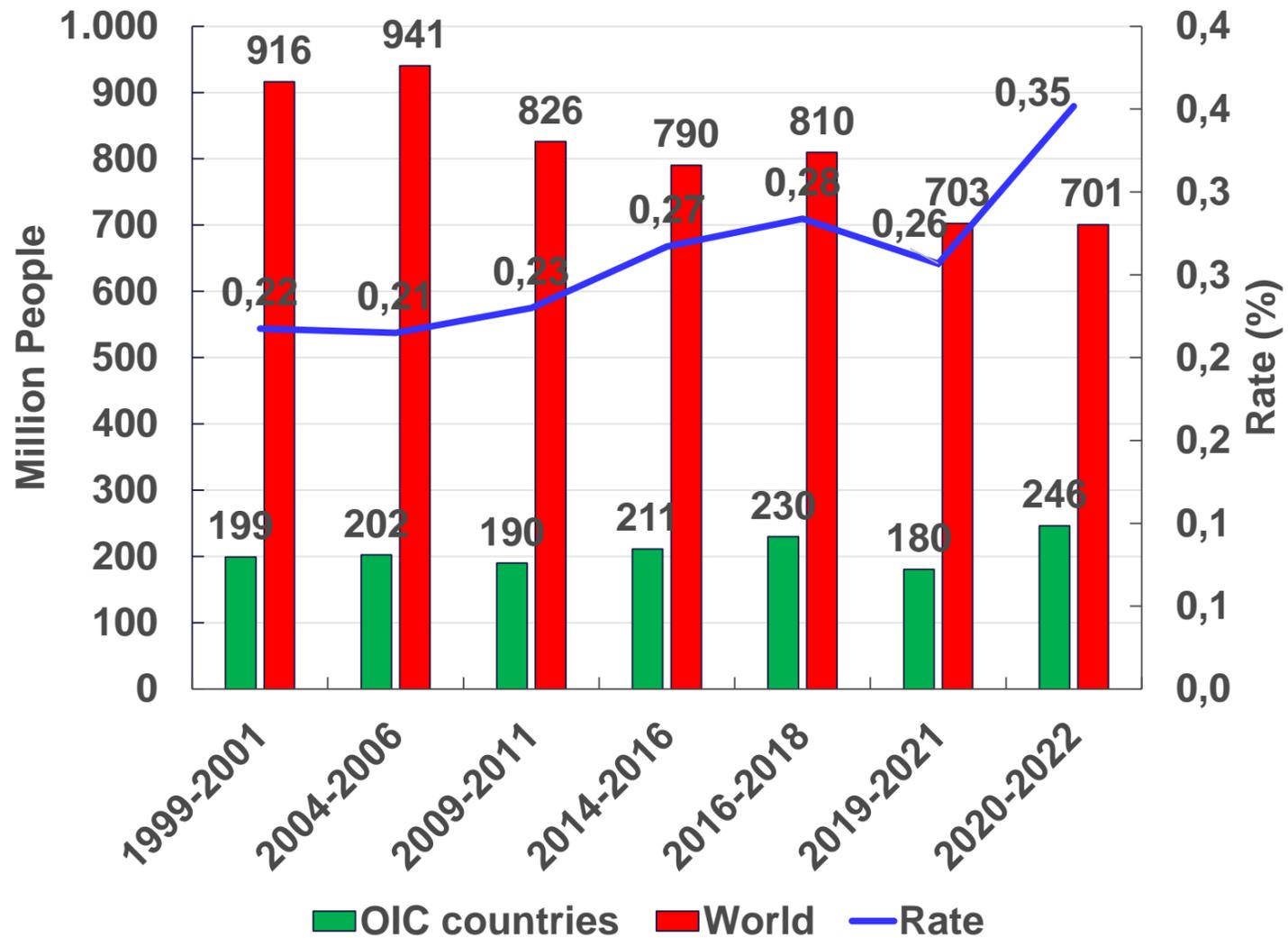
Sources: <https://www.fao.org/faostat/en/#data/FS>



3. The State of Food Security

➤ Availability (Undernourishment)

Undernourished People in the OIC and the World



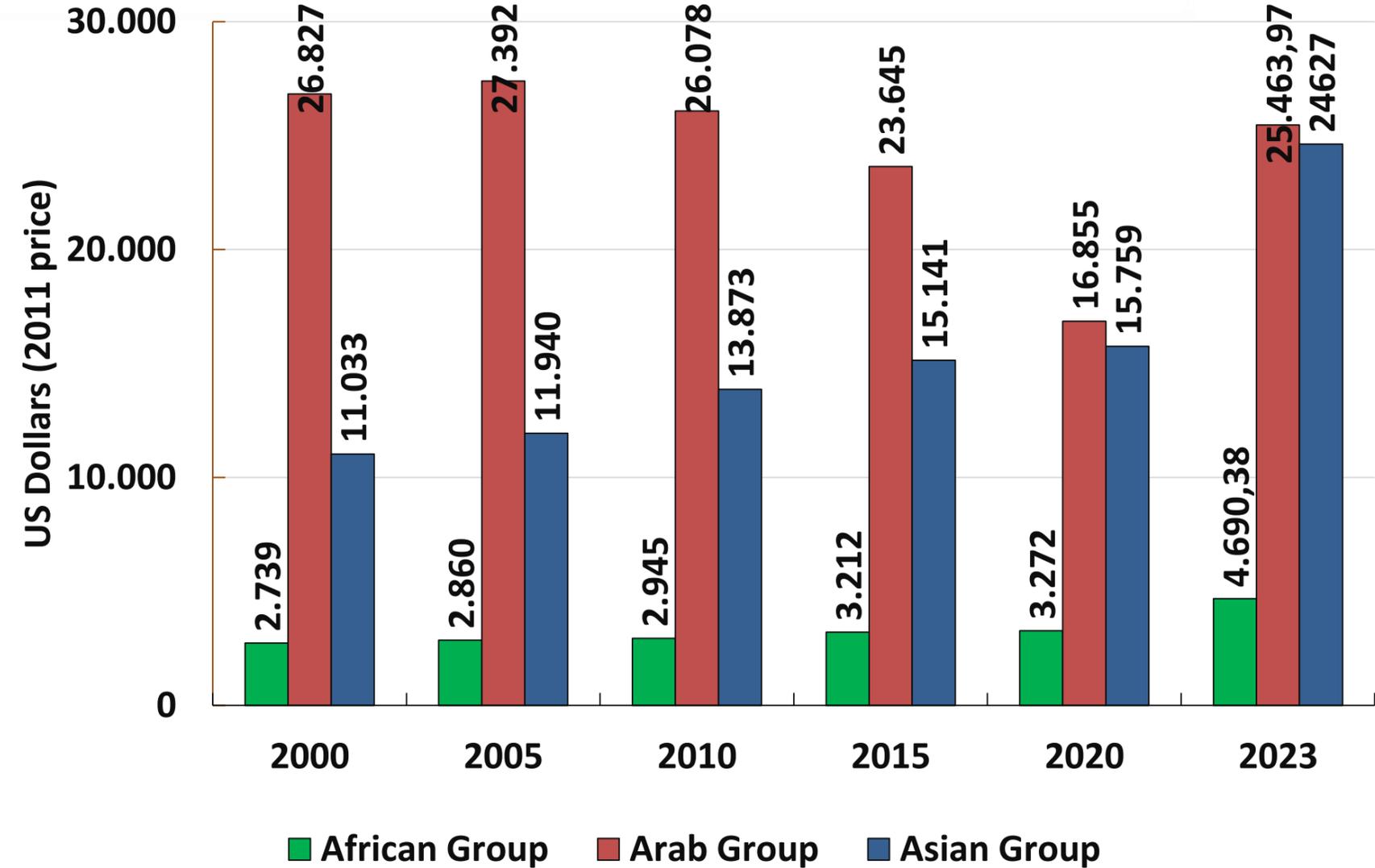
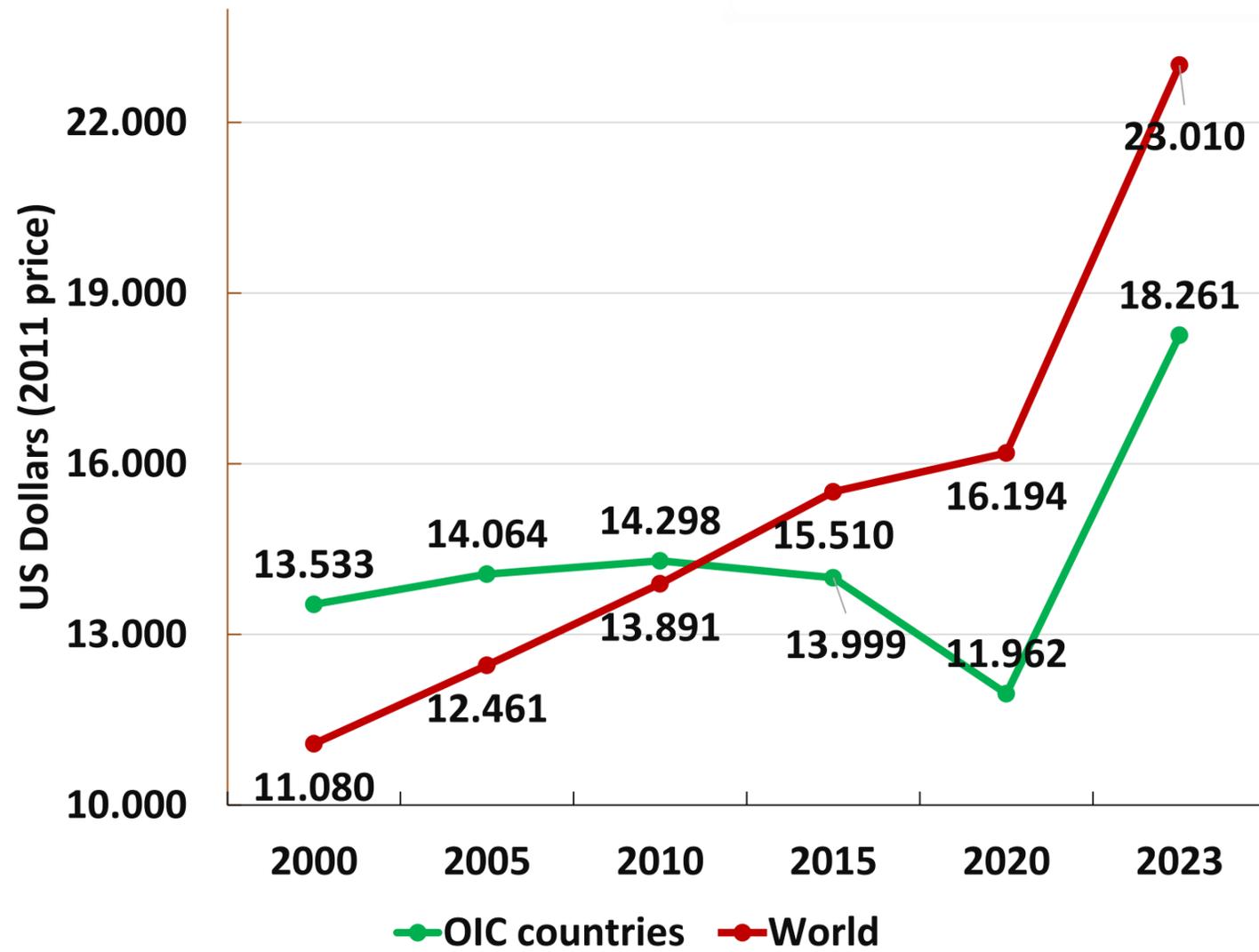
Sources: <https://www.fao.org/faostat/en/#data/FS>



3. The State of Food Insecurity

➤ Access

GDP Per Capita in the OIC and World



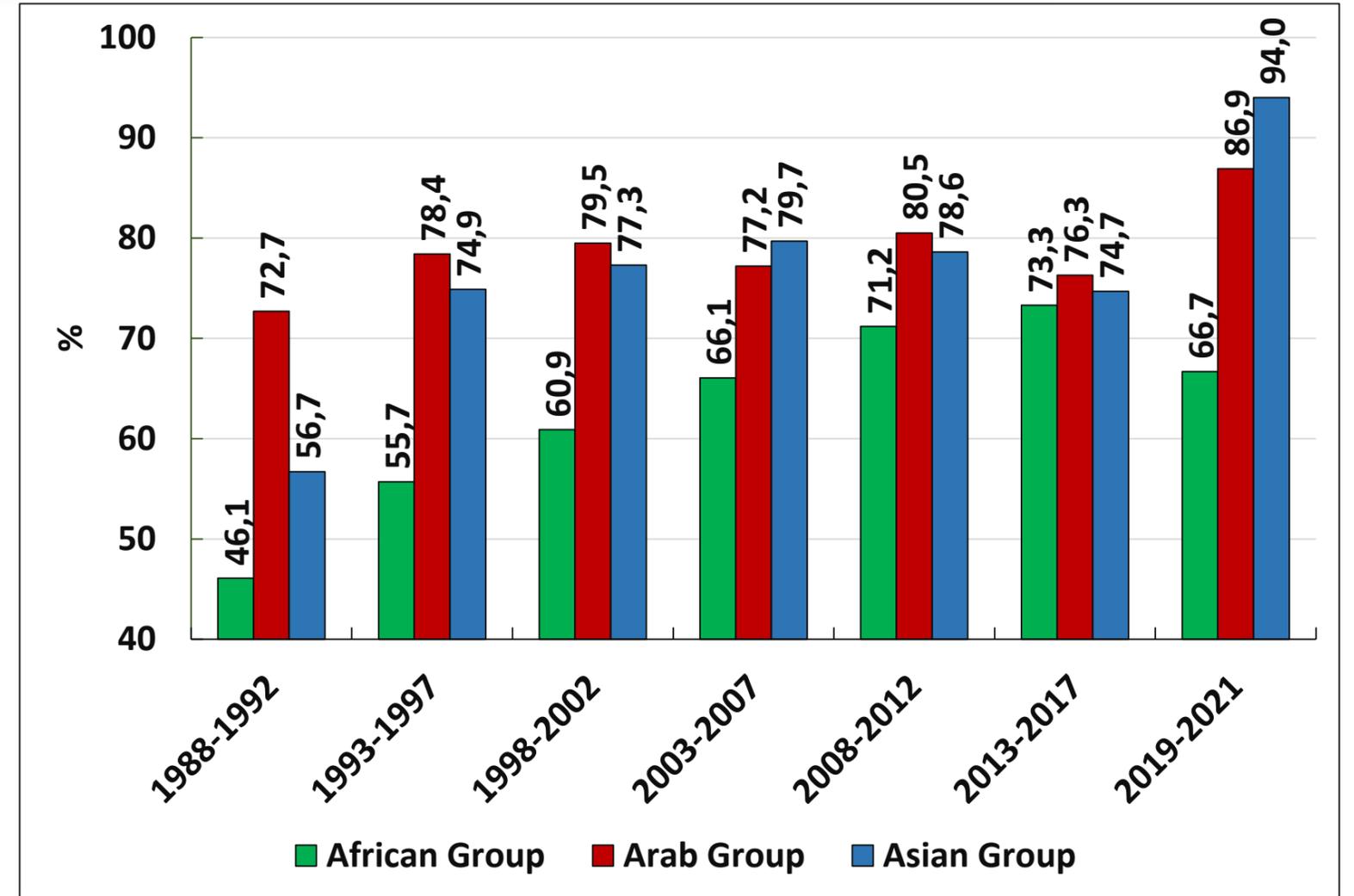
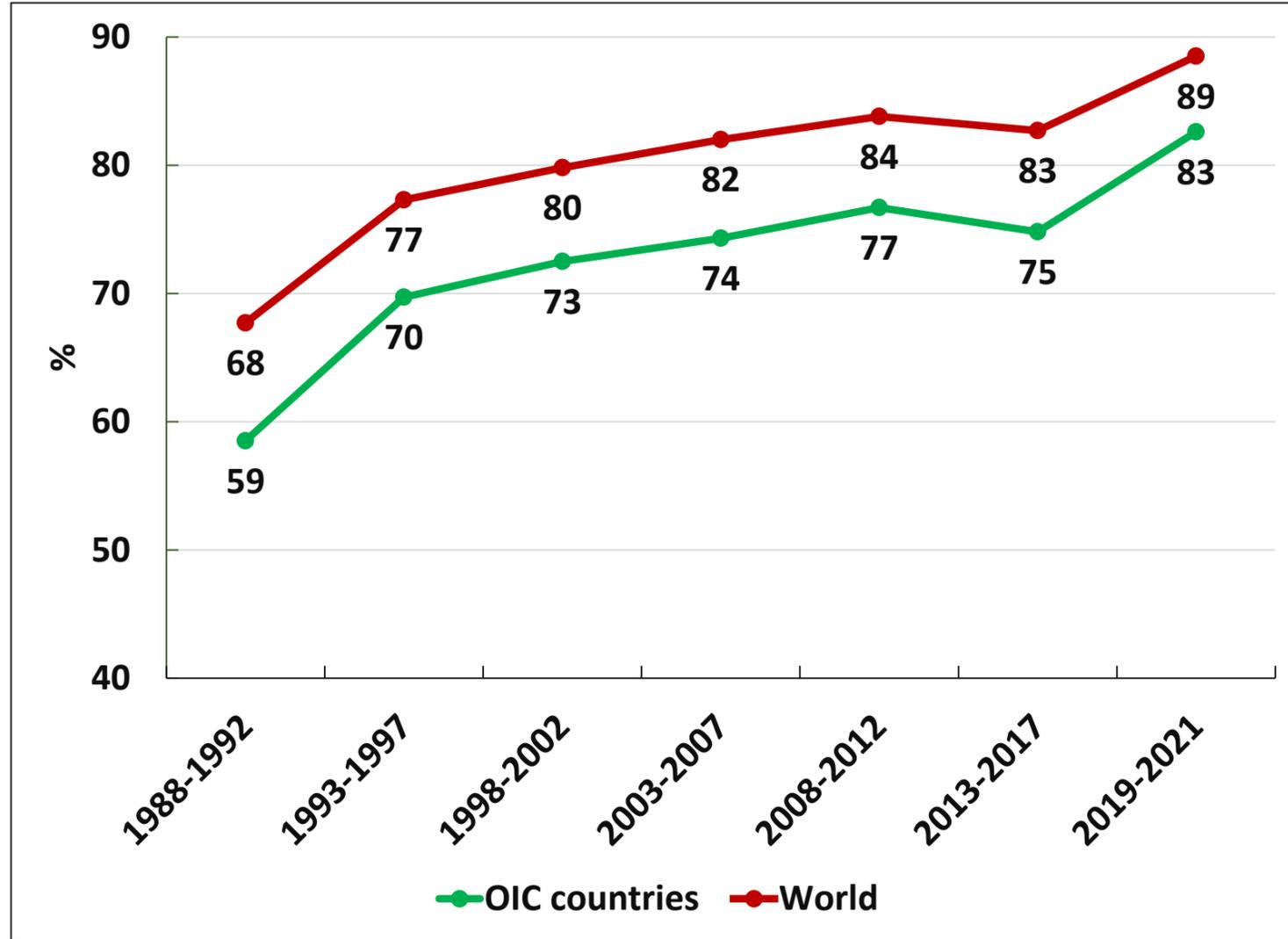
Sources: <https://data.worldbank.org/indicator/NY.GDP.PCAP.PP.CD>



3. The State of Food Security

➤ Utilization

Access to Improved Water Sources in the OIC and the World



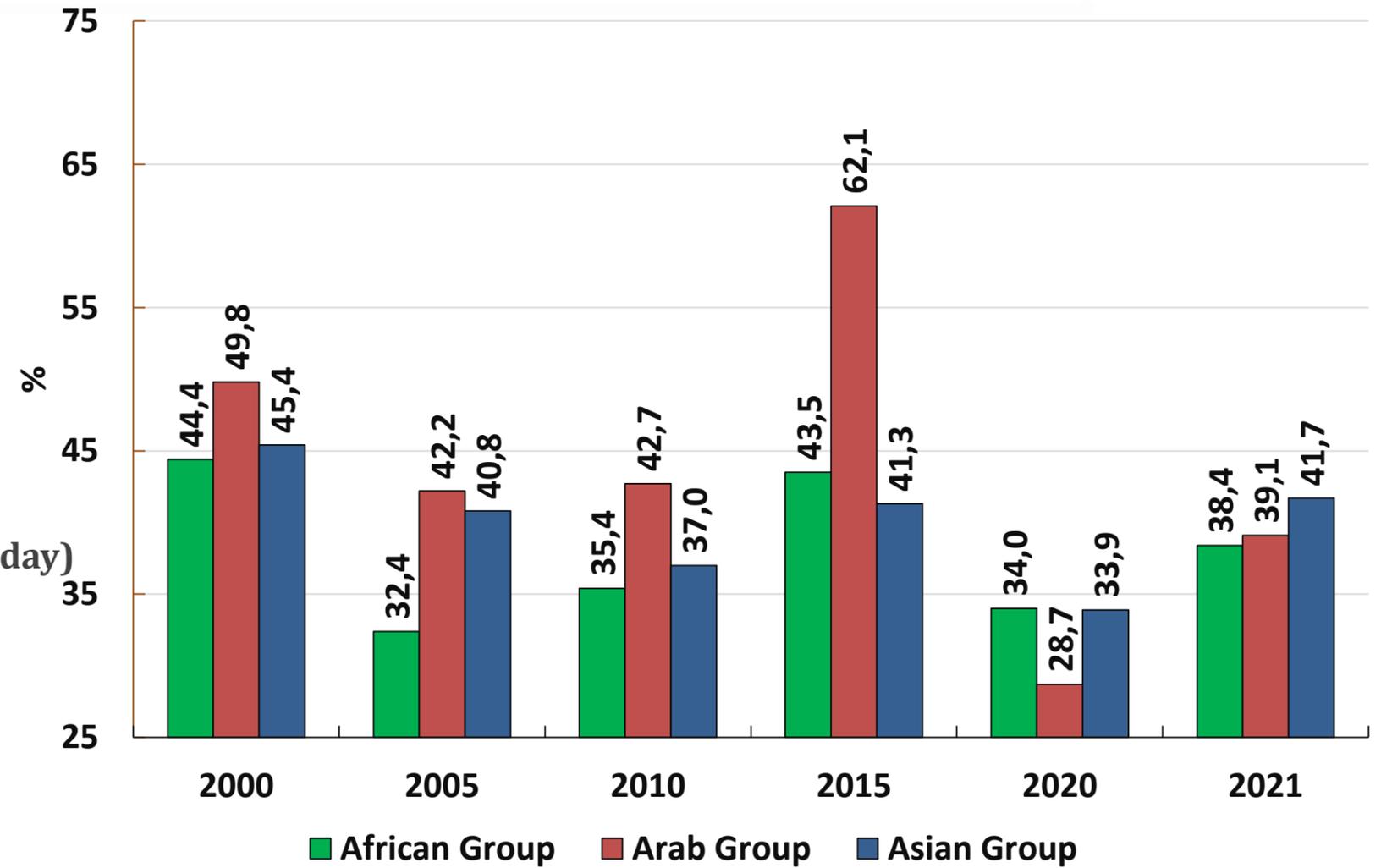
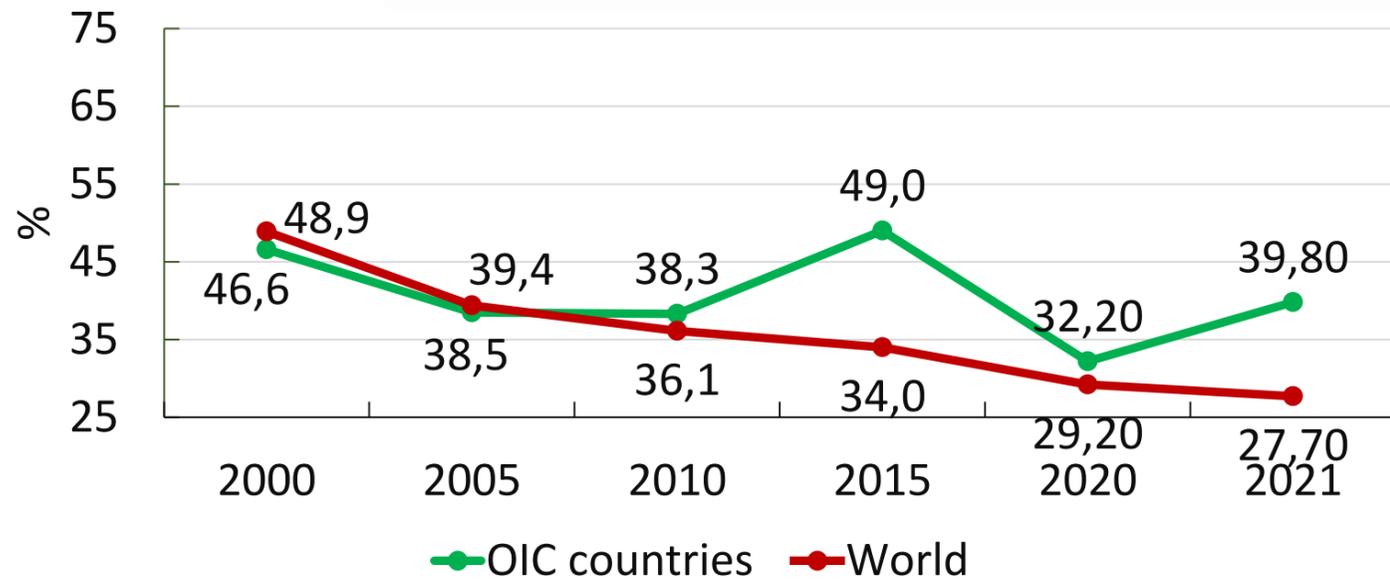
Sources: <https://www.fao.org/faostat/en/#data/FS>



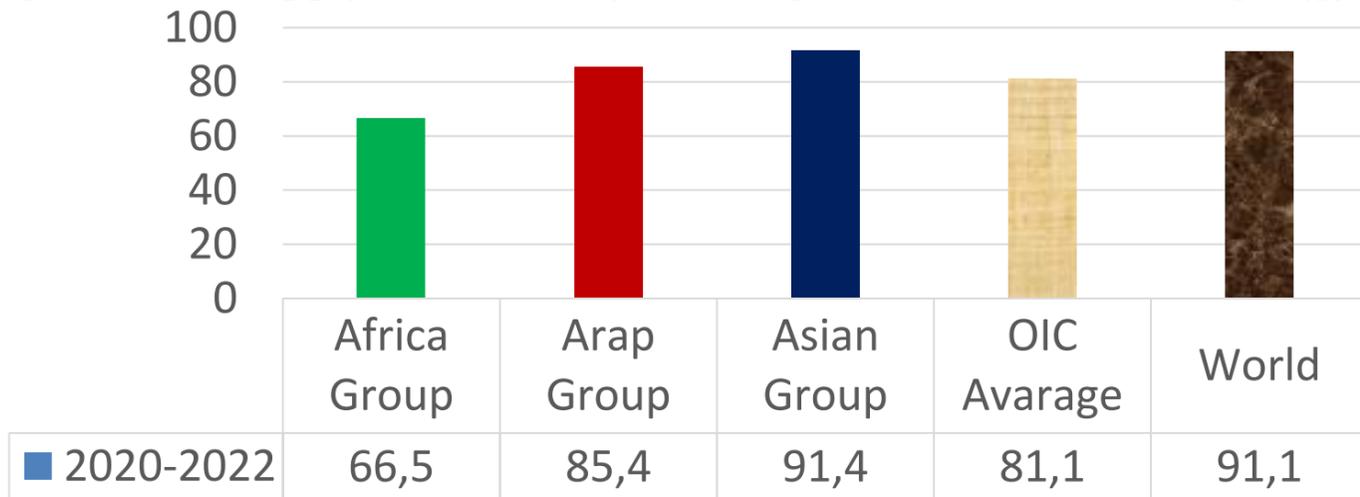
3. The State of Food Security

➤ Stability

Per Capita Food Supply Variability, kcal/capita/day



Average Protein Supply in the OIC by Sub-Regions and world average, (g/cap/day)



Sources: <https://index.nutrition.tufts.edu/data4diets/data-sources-and-methods>

Sources: <https://www.fao.org/faostat/en/#data/FS>



Main Agricultural Problems

- . Poverty and high unemployment rates
- . Underdeveloped Infrastructure
- . Rapid urbanization
- . Food Security and Agricultural Challenges
- . Low Agricultural Productivity
- . Environmental Degradation
- . Climate Change and high risk rate
- . Ongoing Conflicts and Wars
- . Political Instability and Conflict
- . Corruption and weak political

Recommendations to address agricultural problems

- Enhance Agricultural Infrastructure
- Promote Sustainable Agricultural Practices
- Increase Access to Agricultural Financing, market and inputs
- Adopt Modern Agricultural Technologies and digital agriculture solutions
- Reform Agricultural Extension Services: Boost Agricultural Research and Development , Improve Agricultural Education, Strengthen Policy and Institutional Frameworks
- Promote Agro-Processing and Value Addition
- Tackle Food Waste and Losses
- Develop Agricultural Trade and Export Capacity
- Implement Climate Change Adaptation Measures
- Invest in Rural Development and Poverty Alleviation
- Foster Regional and International Cooperation
- Foster Agroecology and Biodiversity Conservation

instit SOURCES:

Al-Sudairi, A. A., Al-Shayea, N. A., & Al-Hammad, A. A. (2016). Nasr, V. (2009). FAO & IDB. (2017), Ayoob, M. (2014), Kamrava, M. (Ed.) (2019), Qader, M. M. (2015), Ibrahim, I., & Wahab, M. A. (2016), OIC-SESRIC. (2020), Savasan, F. & Ersoy, H. (2017), UNDP & UN-Habitat. (2018), World Bank. (2020), Karbassi, A. R., & Abduli, M. (2015), OIC-SESRIC. (2019), M. (2020)



Conclusion

A global and local transformation of food and agriculture systems in this century is imperative for the future. Last period has offered lessons, innovations and opportunities that can help make food systems more resilient to future shocks and more inclusive, efficient, sustainable and healthy.

Identifying the most effective measures for sectoral transformation in agriculture can be achieved through research and analysis based on science-based research. Countries have gained important experience from past experiences.

Global cooperation and the dissemination of scientific innovations to the masses are seen as the basic conditions for global success. It is imperative for OIC countries to work together more closely for the rational solution of problems.





Making Cooperation Work

COMCEC STRATEGY

For Building an Interdependent Islamic World

Thank You...



23th Meeting of COMCEC Agriculture Working Group
September 19-20th, 2024, Ankara Türkiye