



CURRENT STATUS OF TURKEY'S AGRICULTURAL SECTOR: Statistics and Trends

Contents

- Introduction
- Agricultural Land Statistics in Turkey
- Organic Production and Good Agricultural Practices
- Usage of Agricultural Fertilizers and Plant Nutrients
- Seed Production, Import and Export
- Agricultural Equipment and Machinery Statistics
- References

Introduction

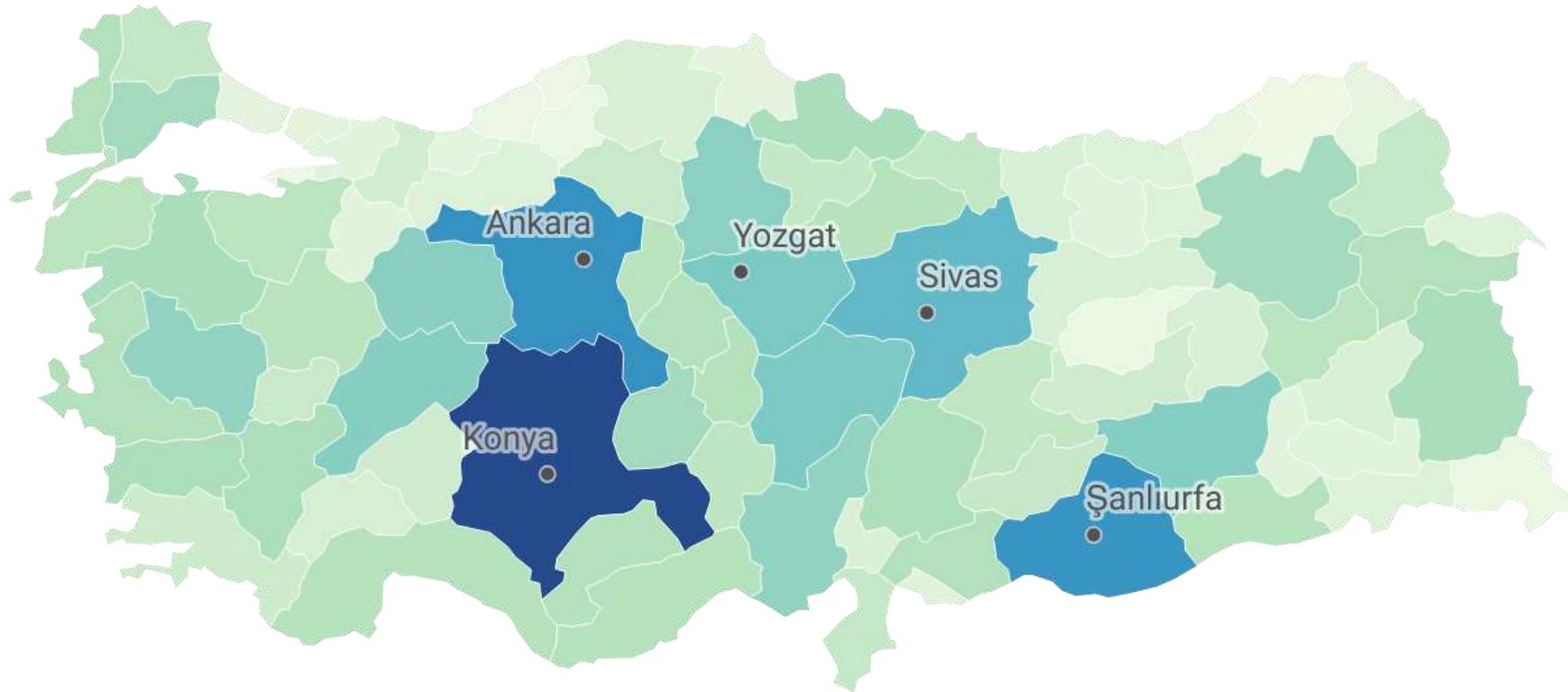
The agricultural sector plays an important role in Türkiye's economic and social structure. This report aims to provide an understanding of the current state of Türkiye's agricultural sector.

Various data on agriculture in Türkiye have been comprehensively covered and important factors such as agricultural lands, fertilizers, seed production, usage, imports and exports, organic food production, agricultural equipments and machinery have been analyzed.

Agricultural Lands in Türkiye

Agricultural Lands in Turkey

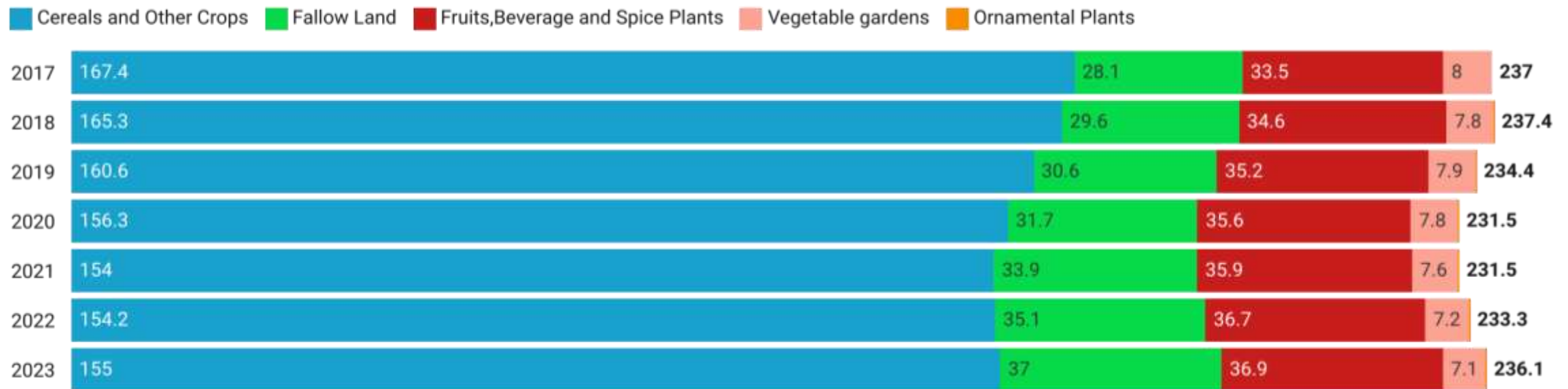
The total agricultural land in Turkey is 239.7 million decares (2023). The province Konya ranks first with 18,806 decares agricultural land. Ankara, Şanlıurfa, Sivas, and Yozgat follow, ranking among the top five provinces in terms of agricultural land area.



Land Use and Cultivated Fields

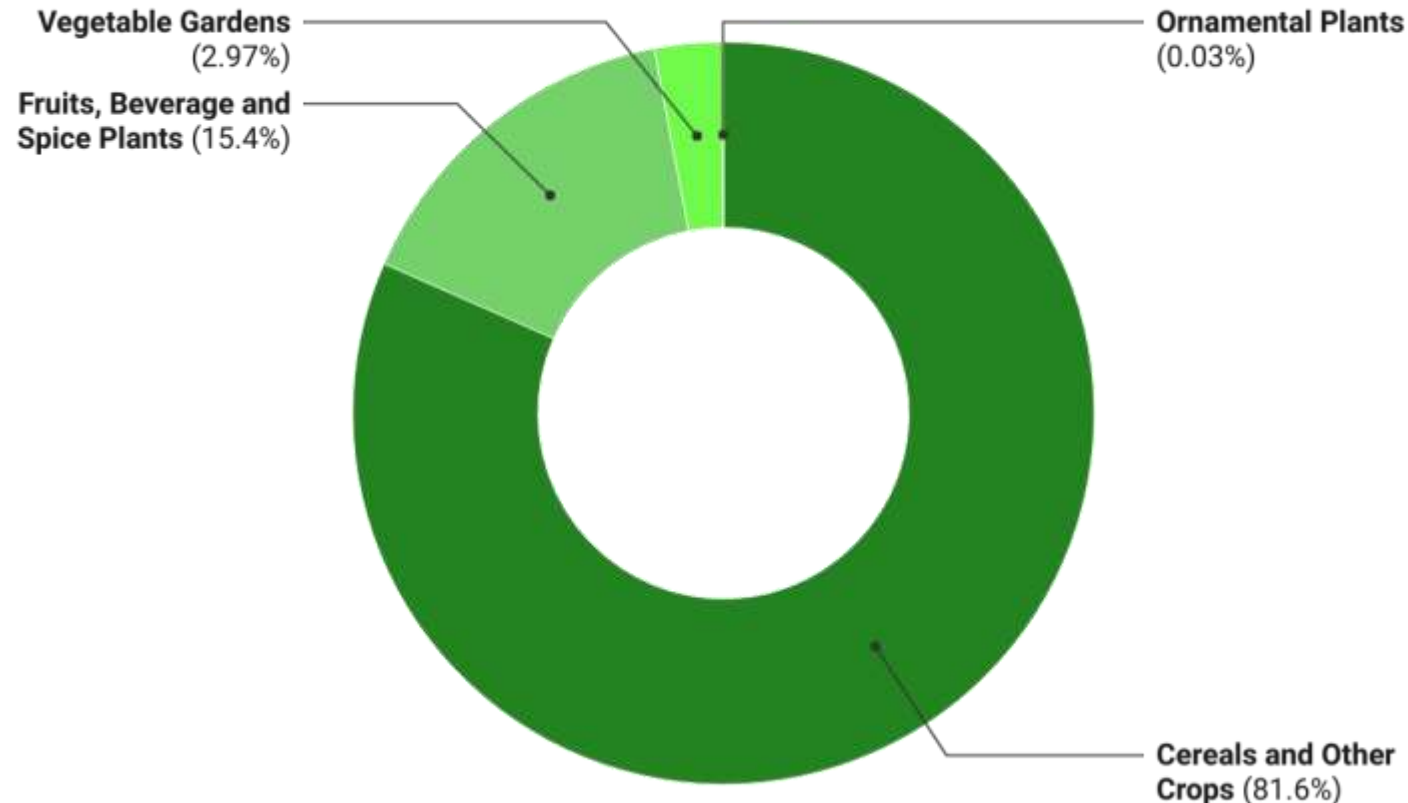
Agricultural lands have increased over the past five years; in 2023, the total agricultural area in Turkey, excluding pastures and meadows, is 236.1 million decares. Agricultural lands in Turkey are used for the cultivation of cereals and other crops, fruits, beverage and spice plants, vegetable crops and ornamental plants. Since 2021, agricultural areas have increased but significant changes in the purposes of usage and proportions of land use have not been observed.

Agricultural Land Distribution in Turkey (2017-2023, Million Decares)



For 2023, the area for cereals and other crops is the largest, accounting for 81.6%. The area for fruits, beverage, and spice plants makes up 15.4%, while vegetable gardens account for 2.97%. The area dedicated to ornamental plants constitutes only 0.03% of the total cultivated area.

Excluding pastures and meadows

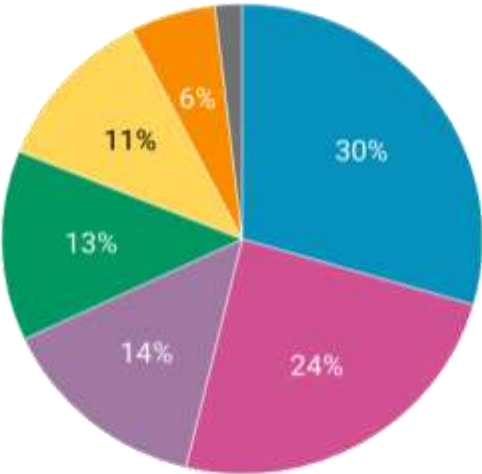


Organic Production and Good Agricultural Practices

Good Agricultural Practices

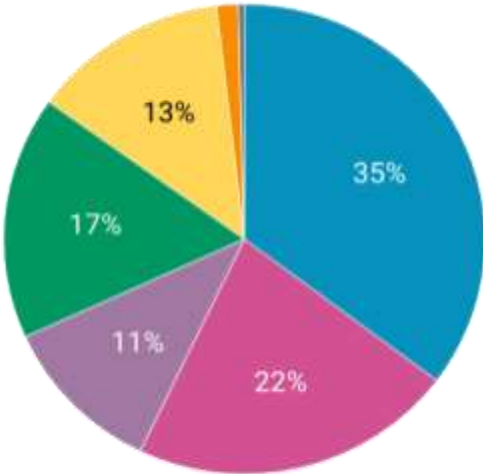
Good Agricultural Practices (GAP) is a method of agricultural production that ensures the production of crops without harming the environment, human and animal health, while also protecting natural resources, ensuring traceability and sustainability in agriculture, and providing reliable products. GAP is implemented in 70 provinces. Since 2007, the number of producers has increased by 70 times and production volume has risen by 109 times. Data for the year 2023 is provided at the regional level.

■ Mediterranean
 ■ Southeastern Anatolia Region
 ■ Aegean Region
 ■ Central Anatolia Region
 ■ Marmara
 ■ Black Sea Region
 ■ Eastern Anatolia Region



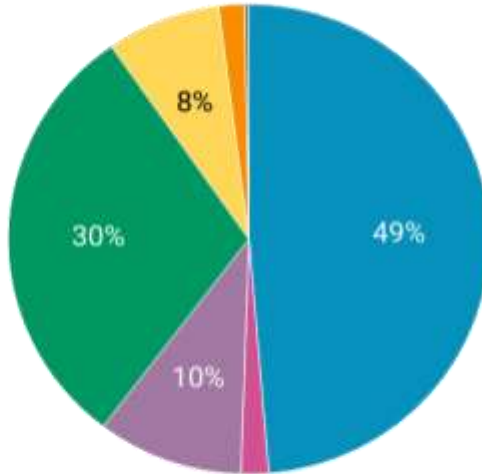
Number of producers

Total:
9,570



Production area (decares)

Total:
2,068.93



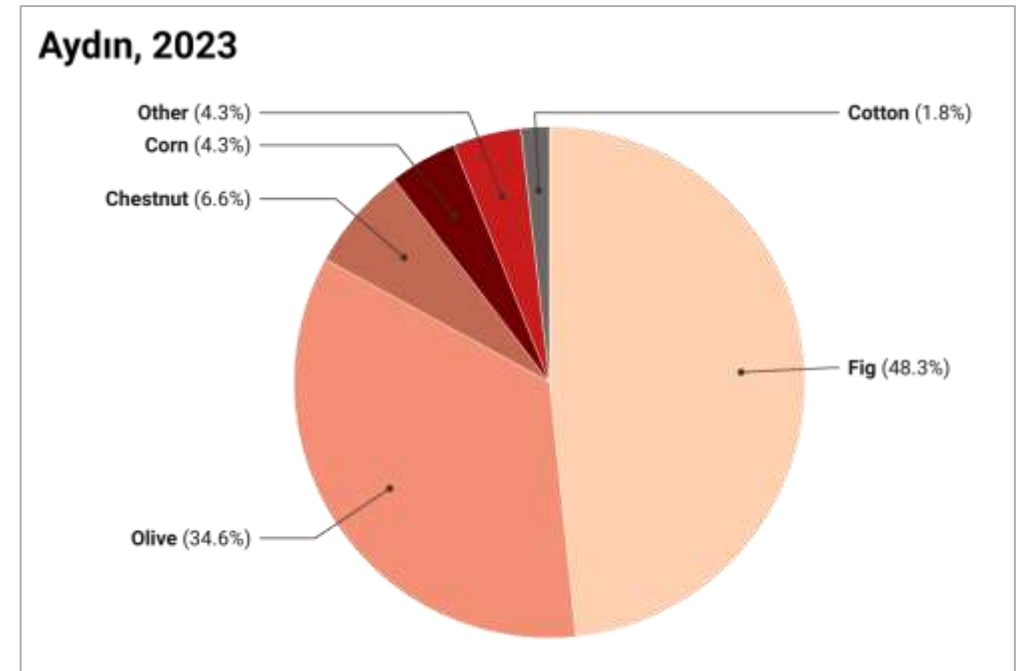
Production volume (kg)

Total:
5,336,251,605

Organic Production

In 2023, a total of 1.028 million tons of organic plant products were produced across Türkiye. The highest production was recorded in Aydın, where 142.7 tons of organic plant products were produced. This amount represents 13.9% of the total organic plant production. Figs, with 48.3%, are the most produced organic product in Aydın.

Province	Production volume (tons)	Total Organic Production %
Aydın	142.7	13.9%
Manisa	128.0	12.4%
Niğde	110.65	10.8%
ŞanlıUrfa	86.39	8.4%
Ağrı	75.46	7.3%
Kars	69.97	6.8%
Mardin	52.49	5.1%
Malatya	37.11	3.6%
Afyonkarahisar	36.23	3.5%
Konya	32.16	3.1%
Others	257.69	25.1%



Organic Product Import

In 2023, 10,233 tons of organic products were imported. The most imported organic product is baby and toddler complementary food, which accounts for 32.6% of the total organic product imports.

	Product name	Quantity (Tons)	Importing country
1	Baby and Toddler Complementary Food	3344.55	Spain, Germany, Portugal, France, Poland
2	Dates (dried)	1845.04	Algeria, Tunisia, Pakistan, UAE, Saudi Arabia
3	Sunflower	1362.54	Ukraine
4	Licorice Root	845.28	Uzbekistan, Georgia
5	Flavored Beverage	516.98	Switzerland, Austria
6	Lentils (green)	494.58	Russia
7	Plums (dried)	259.60	Argentina, France, Serbia
8	Tonic	240.46	Austria, Australia, Switzerland
9	Beans	195.00	Kyrgyzstan
10	Coconut Oil	136.87	Sri Lanka, Netherlands

Organic Product Export

In 2023, a total of 59,185 tons of organic products were exported. Wheat and wheat products held the leading position in organic product exports in terms of quantity. A total of 21,633 tons of organic wheat and wheat products were exported in 2023, with a total export value of 13.27 million USD.

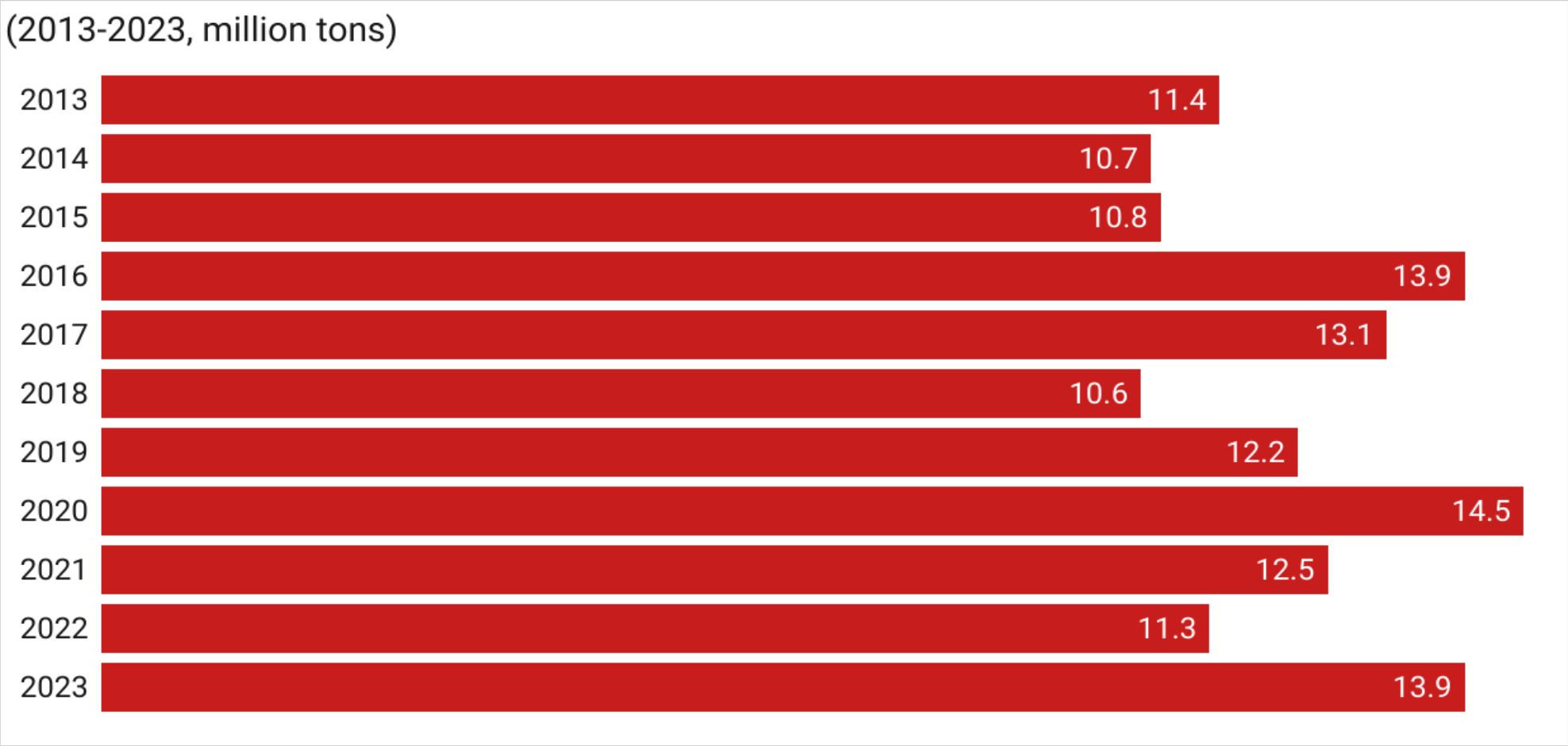
Figs contributed the highest financial value to organic product exports. In 2023, 6,929 tons of organic figs were exported, generating an export revenue of 38.61 million USD.

	Product Name	Quantity (Tons) ▾	Value (Million USD)
1	Wheat and Wheat Products	21,663	13.27
2	Fruit Juice	8,625	20.69
3	Figs and Fig Products	6,929	38.61
4	Grapes and Grape Products	6,581	21.13
5	Fruits and Fruit Products	6,017	22.58
6	Hazelnuts and Hazelnut Products	2,953	21.01
7	Apricots and Apricot Products	2,318	15.85
8	Legumes	1,043	1.57
9	Animal Products	1,034	2.24
10	Vegetables and Vegetable Products	831	2.05
11	Aromatic and Medicinal Herbs	660	2.43
12	Olive and Olive Products	370	1.91
13	Cereals and Cereal Products	111	0.49
14	Oil Seeds and Products	48	0.17
15	Others	3	0.02

Usage of Agricultural Fertilizers and Plant Nutrients

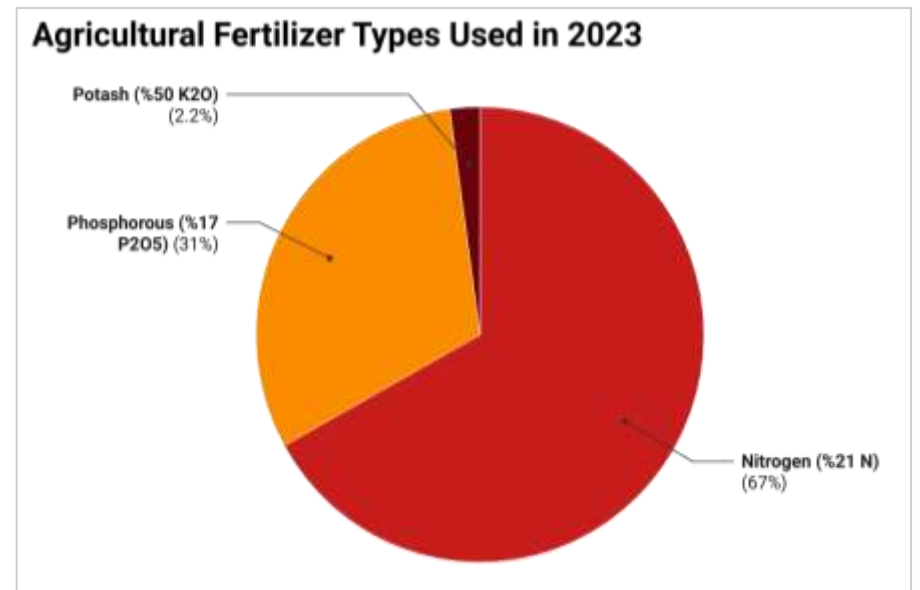
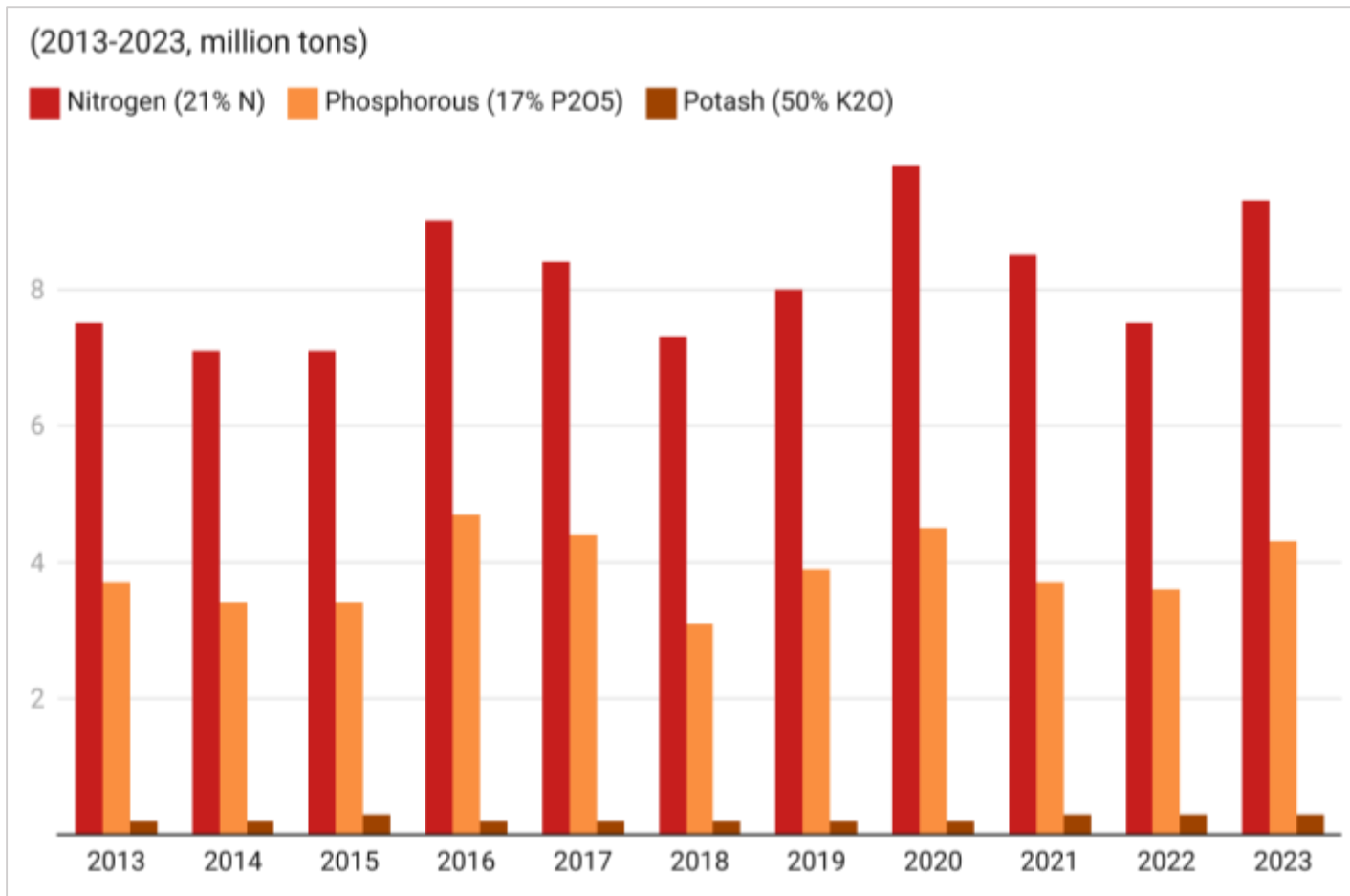
Agricultural Fertilizer Use

In 2023, total agricultural fertilizer use increased by 23% compared to 2022, reaching 13.9 million tons.



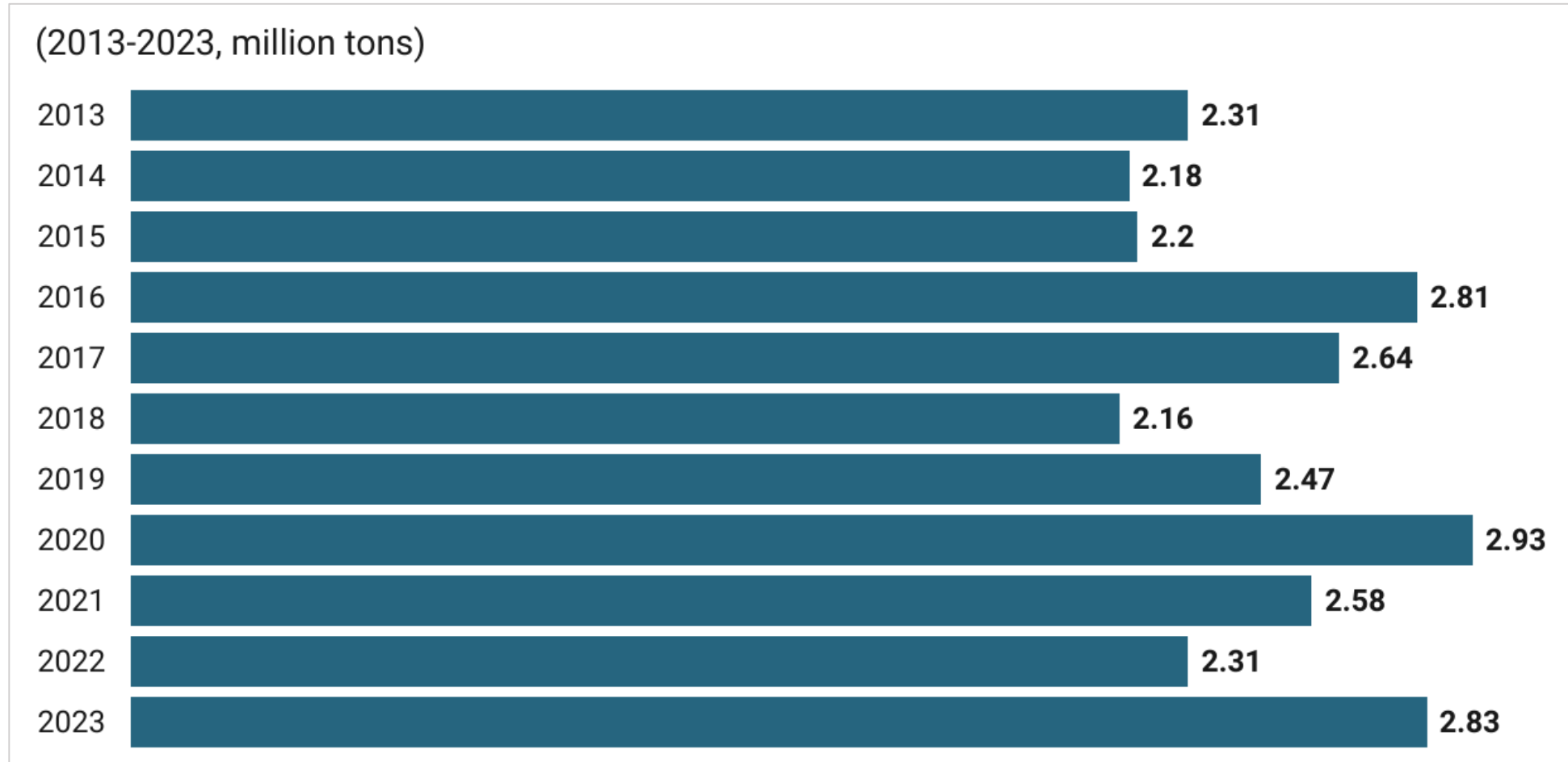
Agricultural Fertilizer Types Used by Year

The most commonly used agricultural fertilizer each year is nitrogenous fertilizer. The use of nitrogenous fertilizer increased by 22.6% compared to 2022. In 2023, nitrogenous fertilizers accounted for 67% of the total fertilizers used.

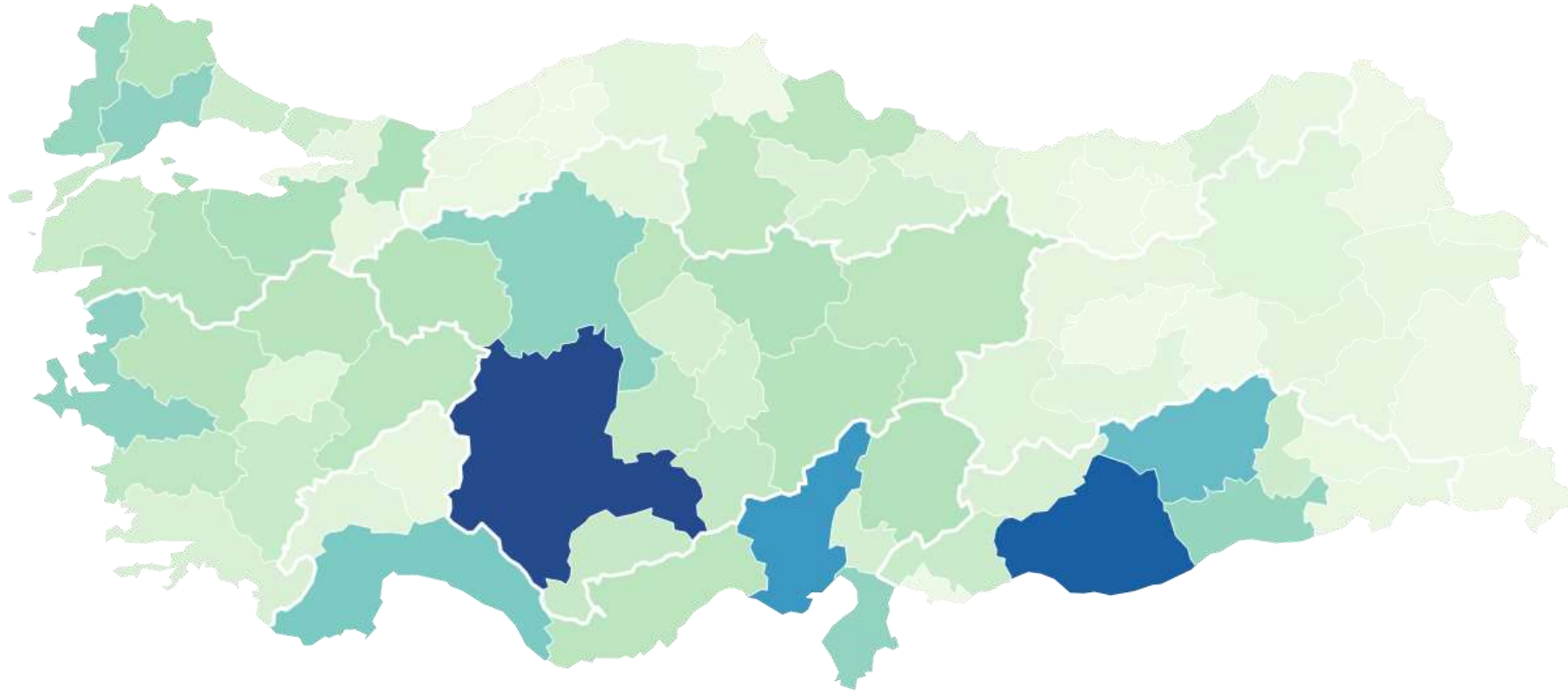


Plant Nutrient Use

Plant nutrient use in 2023 increased by 22.5% compared to 2022, reaching 2.83 million tons.

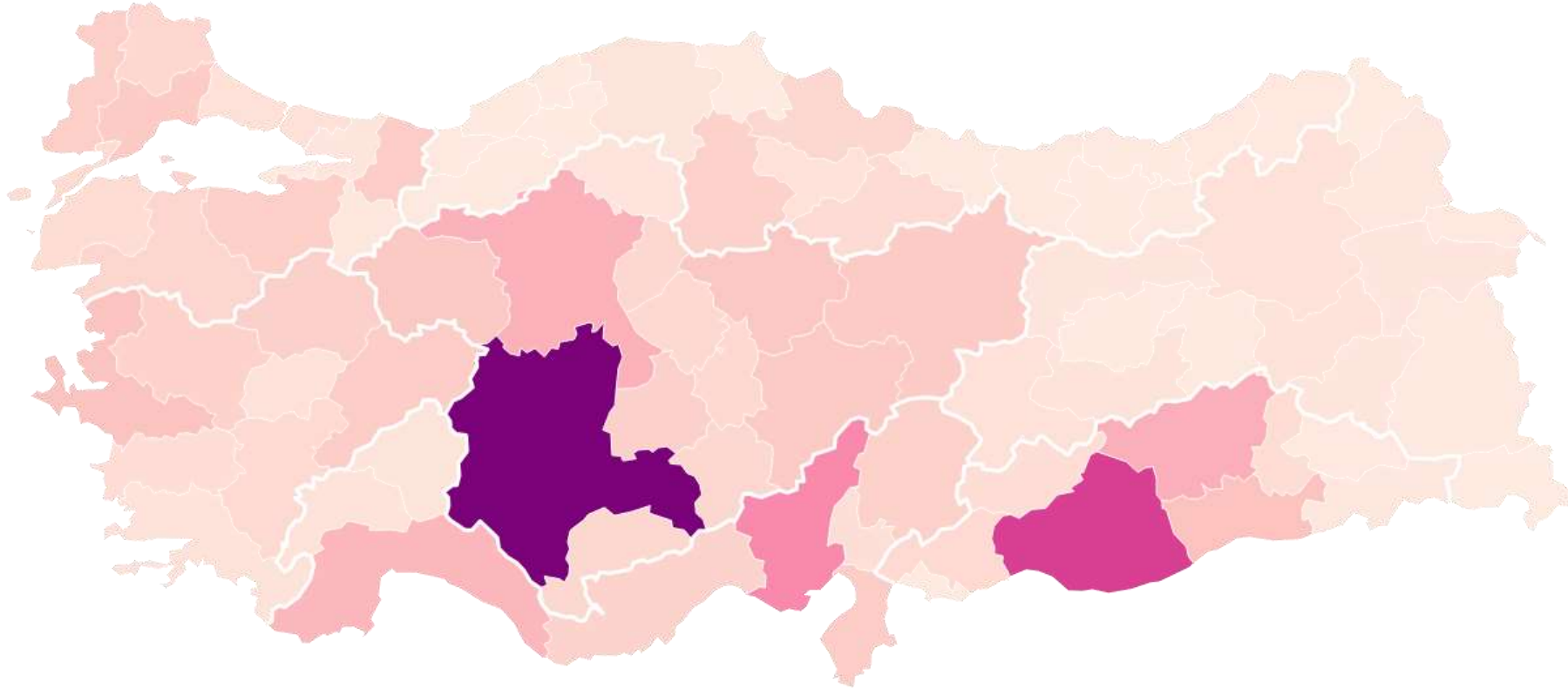


According to the agricultural input usage data for 2023, the highest plant nutrient use among provinces occurred in Şanlıurfa, with 207,590 tons. This is followed by Konya with 234,405 tons and Adana with 137,097 tons.



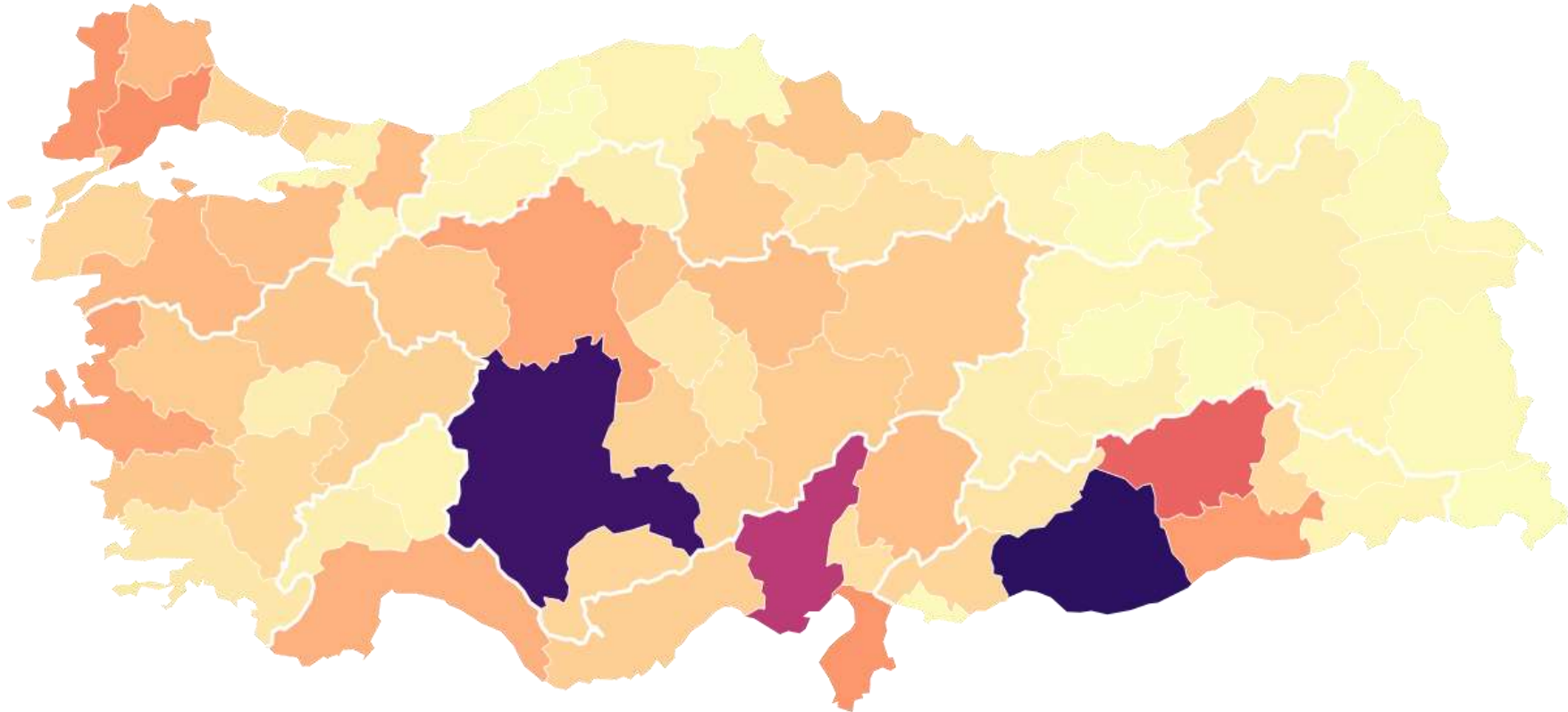
Phosphorus Use

According to the agricultural input usage data for 2023, the highest phosphorus use among provinces occurred in Konya, with 73,782 tons. This is followed by Şanlıurfa with 53,111 tons and Adana with 35,480 tons.



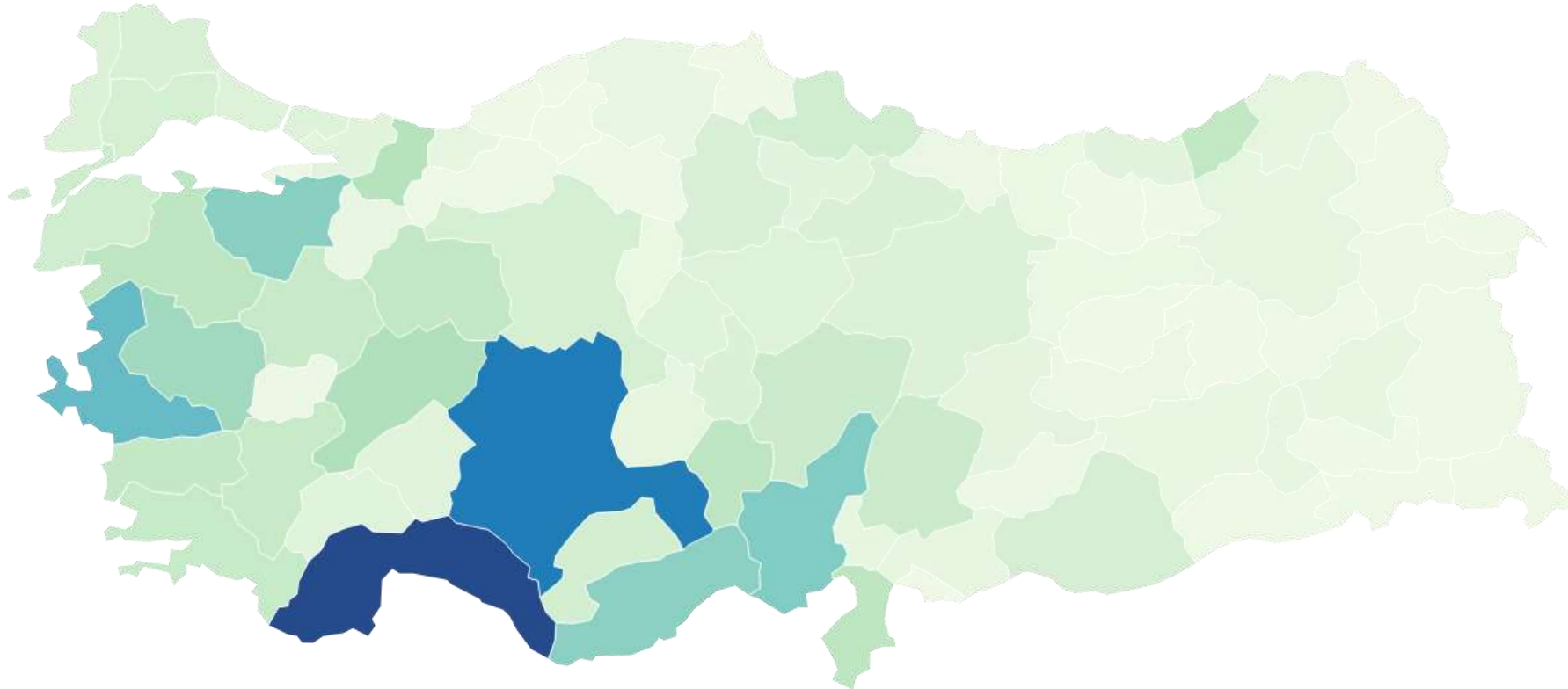
Nitrogen Use

According to the agricultural input usage data for 2023, the highest nitrogen use among provinces occurred in Şanlıurfa, with 153,016 tons. This is followed by Konya with 146,293 tons and Adana with 95,612 tons.



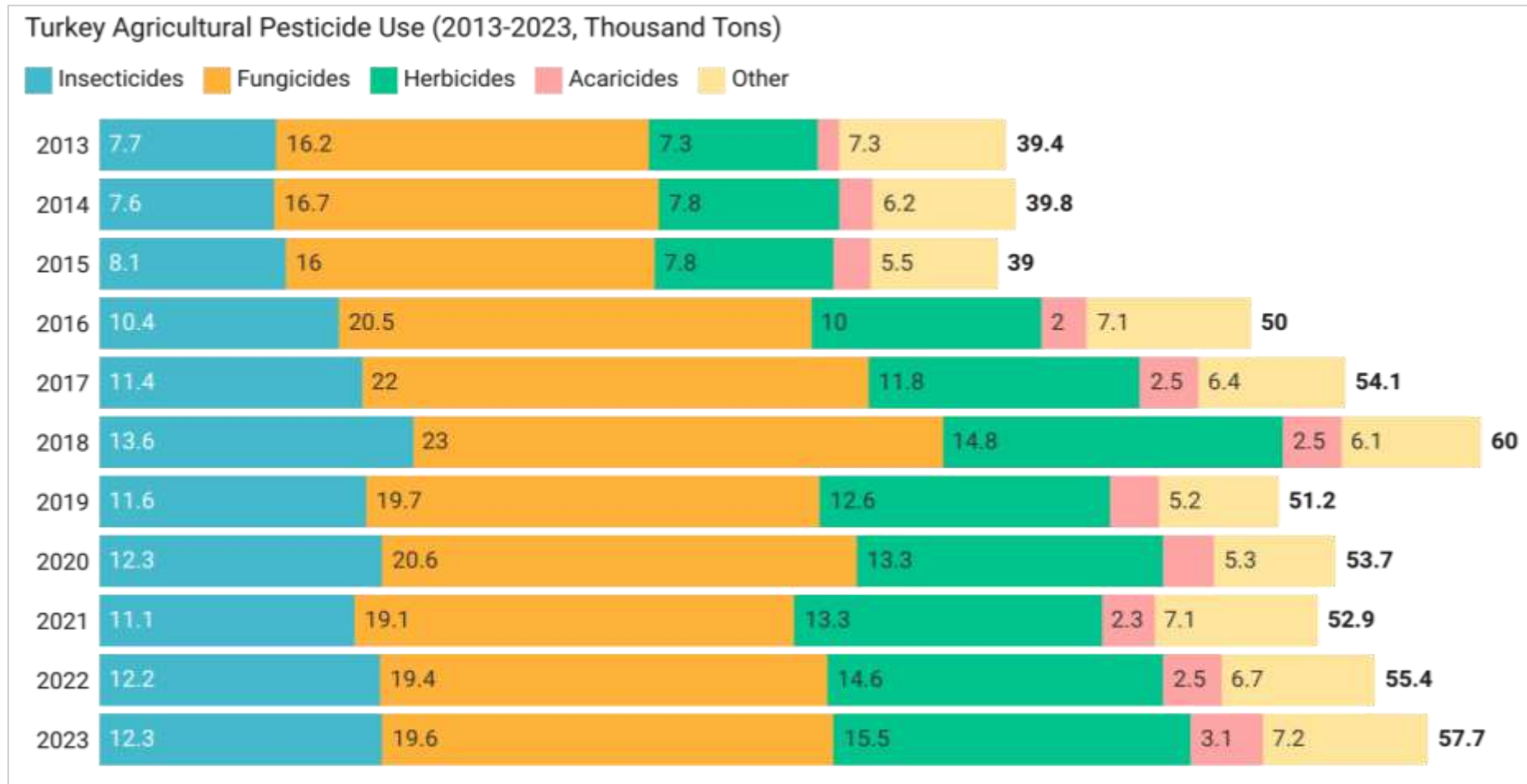
Potash Use

According to the agricultural input usage data for 2023, the highest potassium use among provinces occurred in Antalya, with 19,556 tons. This is followed by Konya with 14,330 tons and İzmir with 7,829 tons.



Pesticide Use

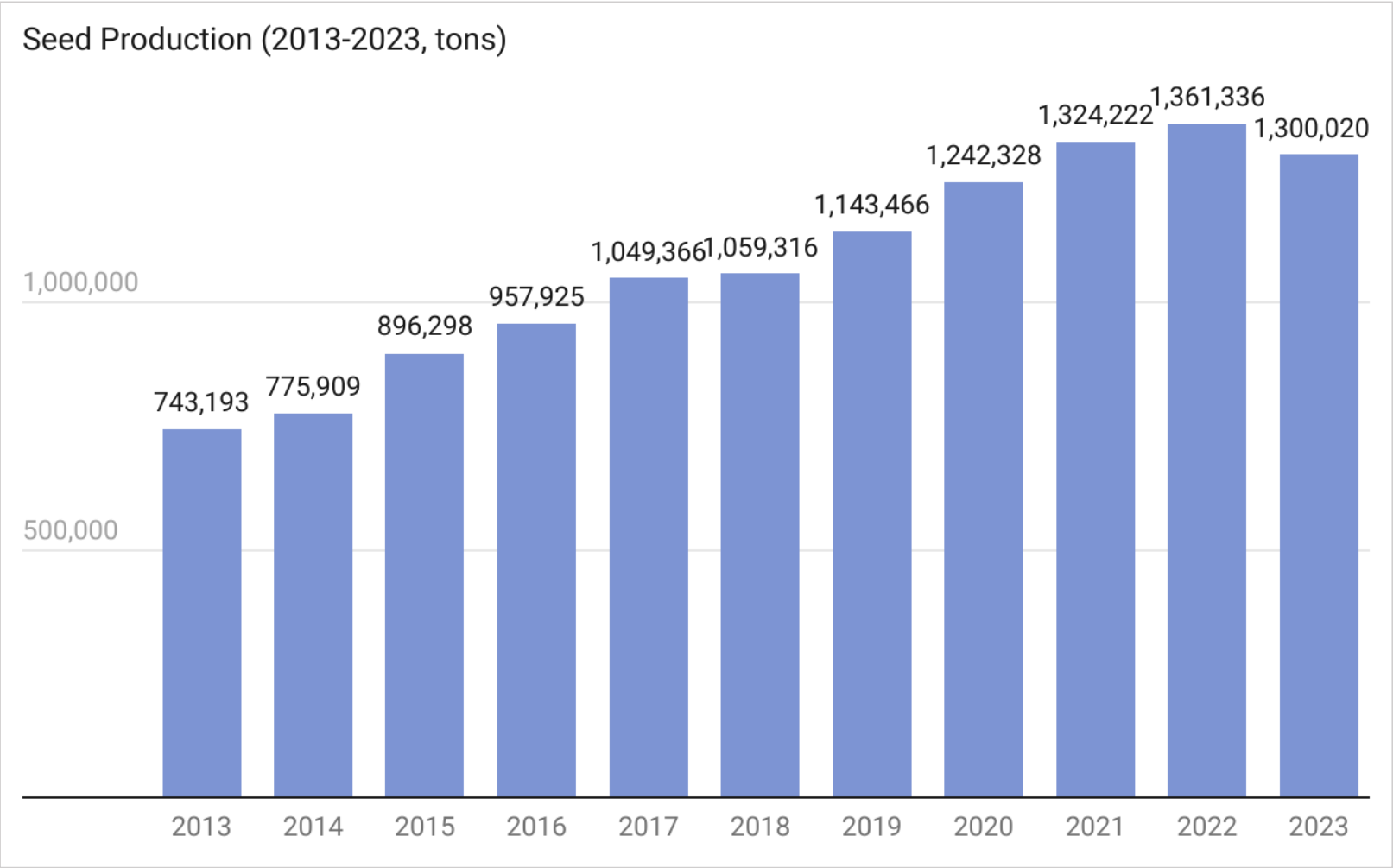
The total pesticide usage in 2023 increased by 4.2% compared to 2022, reaching 57.7 thousand tons. Pesticide usage by category reveals that fungicides (fungus control agents) constitute the largest group.



Seed Production, Import and Export

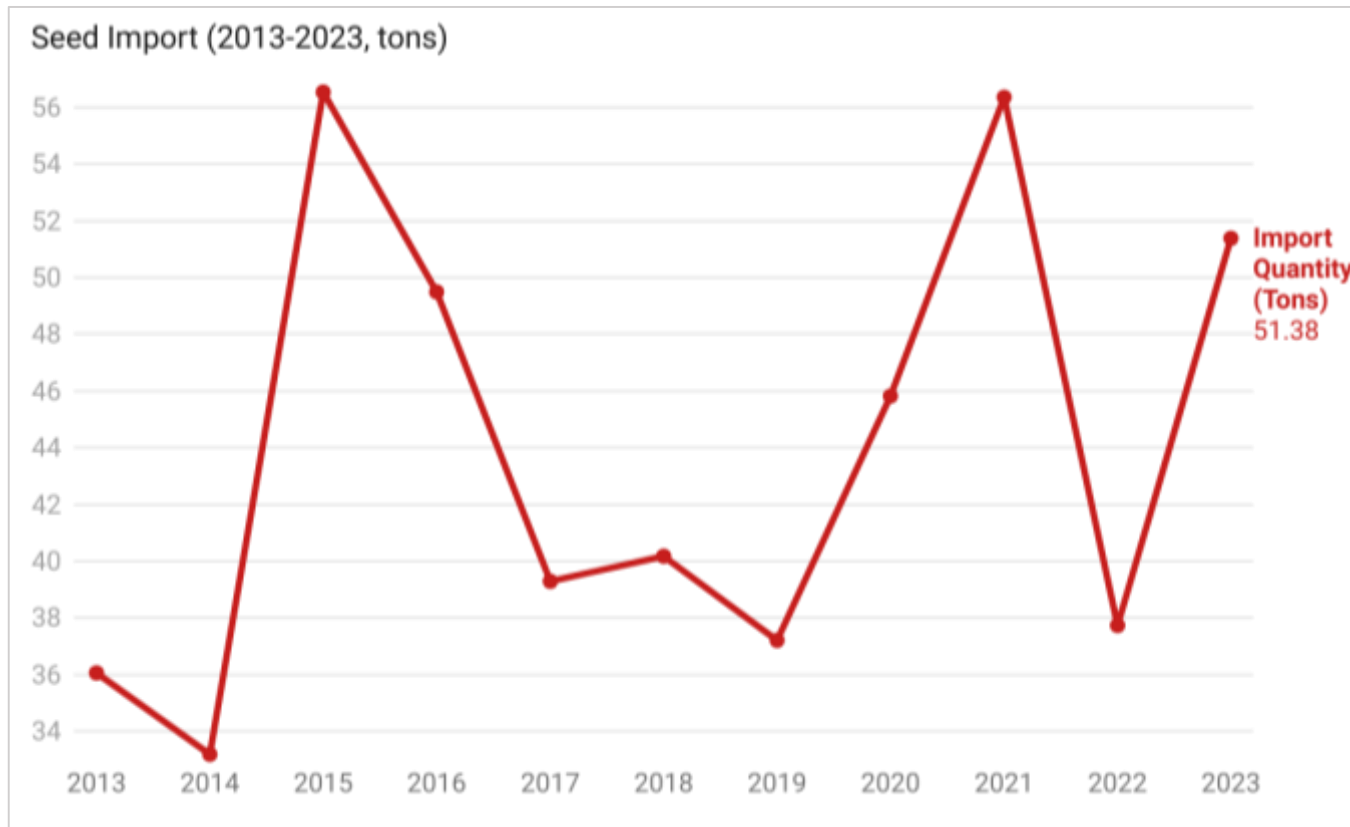
Seed Production

Seed production decreased by 4.6% compared to 2022, reaching 1.3 million tons in 2023.



Certified Seed Import Quantity

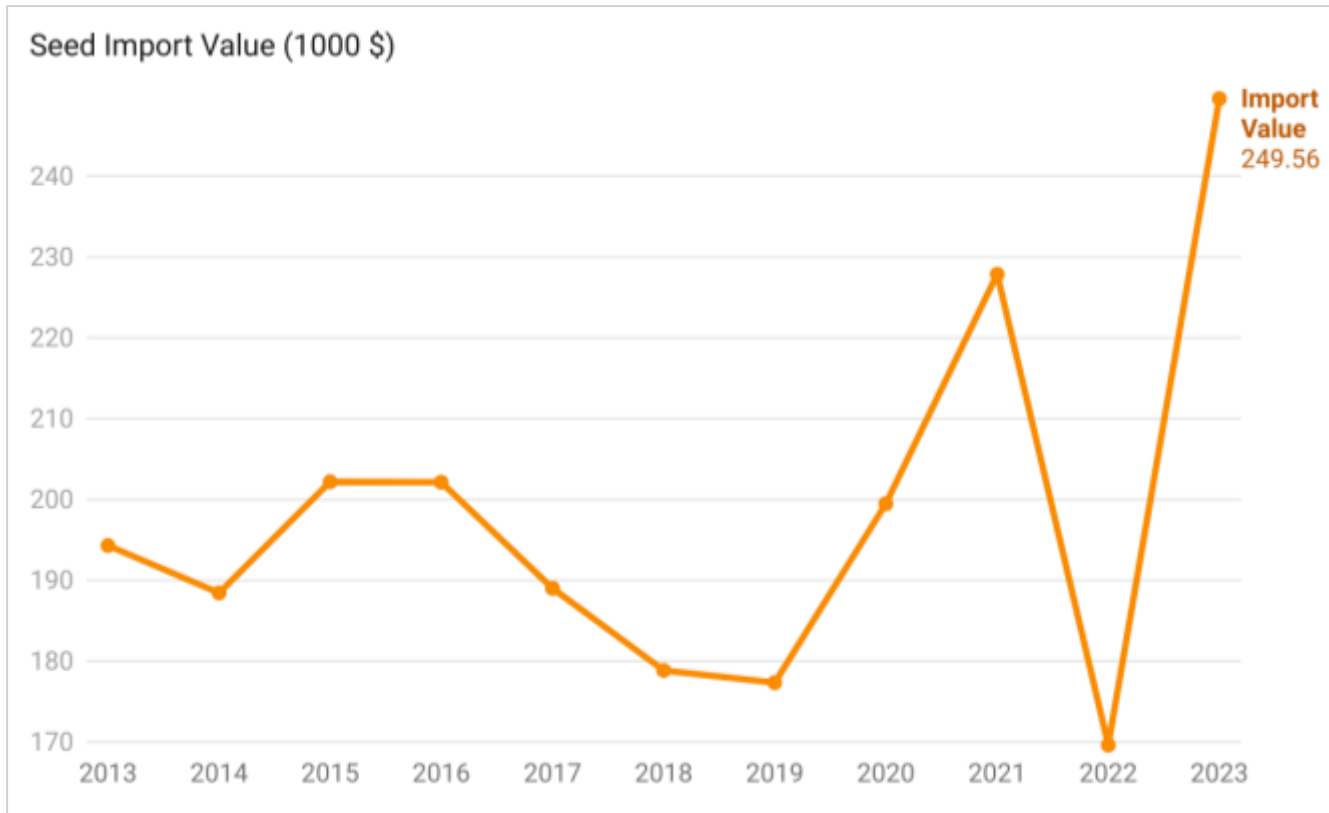
Seed import quantities have fluctuated between 2013 and 2023. In 2023, a total of 51,380 tons of seed were imported. The most imported seed was potato, with 29,788 tons, accounting for 57.9% of the total seed imports.



Seed Exports in 2023	
Species	Import Quantity (Tons)
Potato	29.788
Corn	7.612
Grass and Clover	5.400
Forage Crops	2.200
Vegetable Crops	1.611
Canola	848
Sunflower	809
Wheat	503
Sugar Beet	335
Others	2.278

Certified Seed Import Value

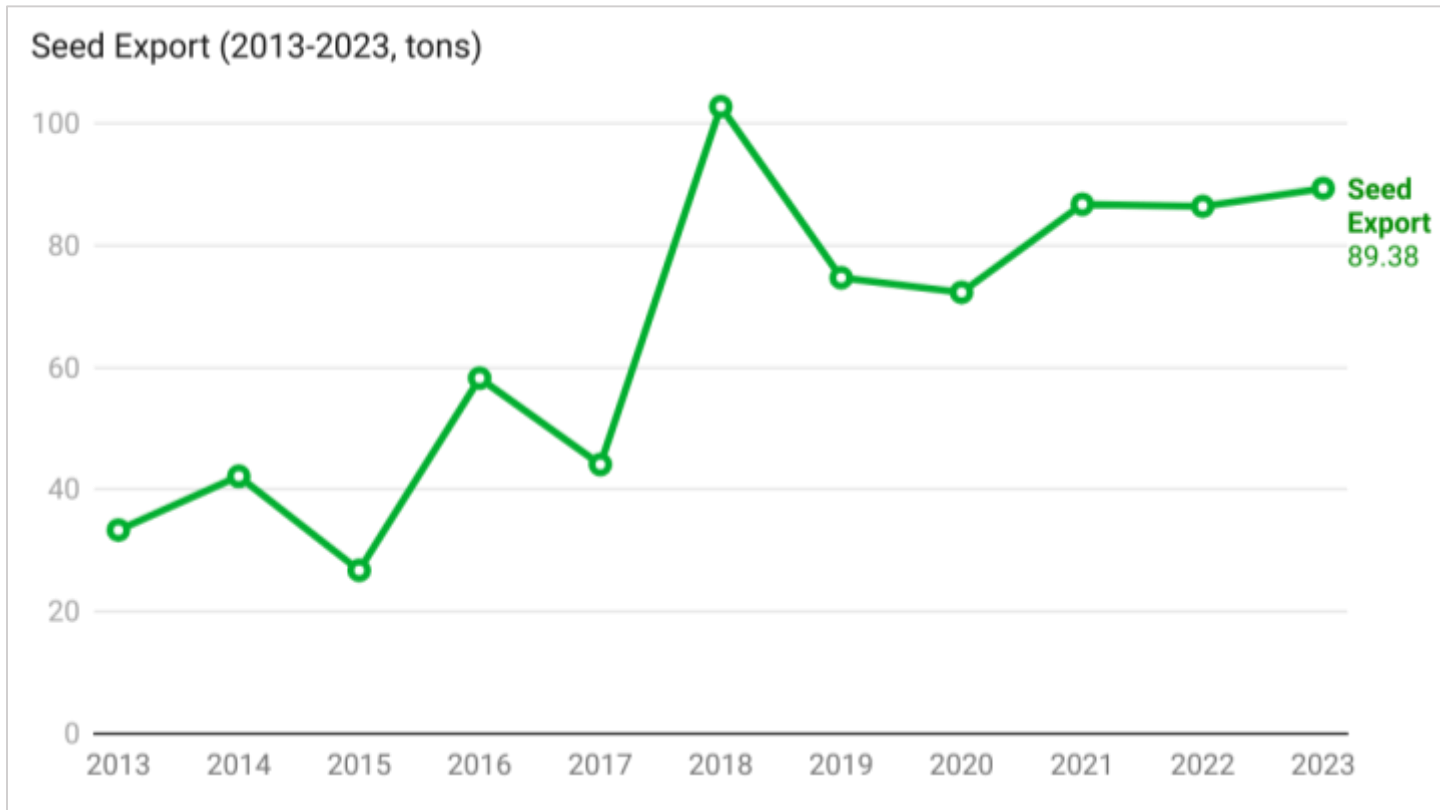
In 2023, the certified seed import value increased by 47% compared to 2022, reaching 249,560 thousand dollars. The product with the highest seed import value was vegetable crops.



Seed Import Values in 2023	
Species	Import Value (1000 \$)
Vegetable Crops	110.856
Corn	40.262
Sugar Beet	24.973
Potatos	23.666
Sunflower	22.108
Grass and Clover	14.137
Forage Crops	6.952
Canola	1.713
Wheat	515
Barley	428
Others	3.952

Certified Seed Export Quantity

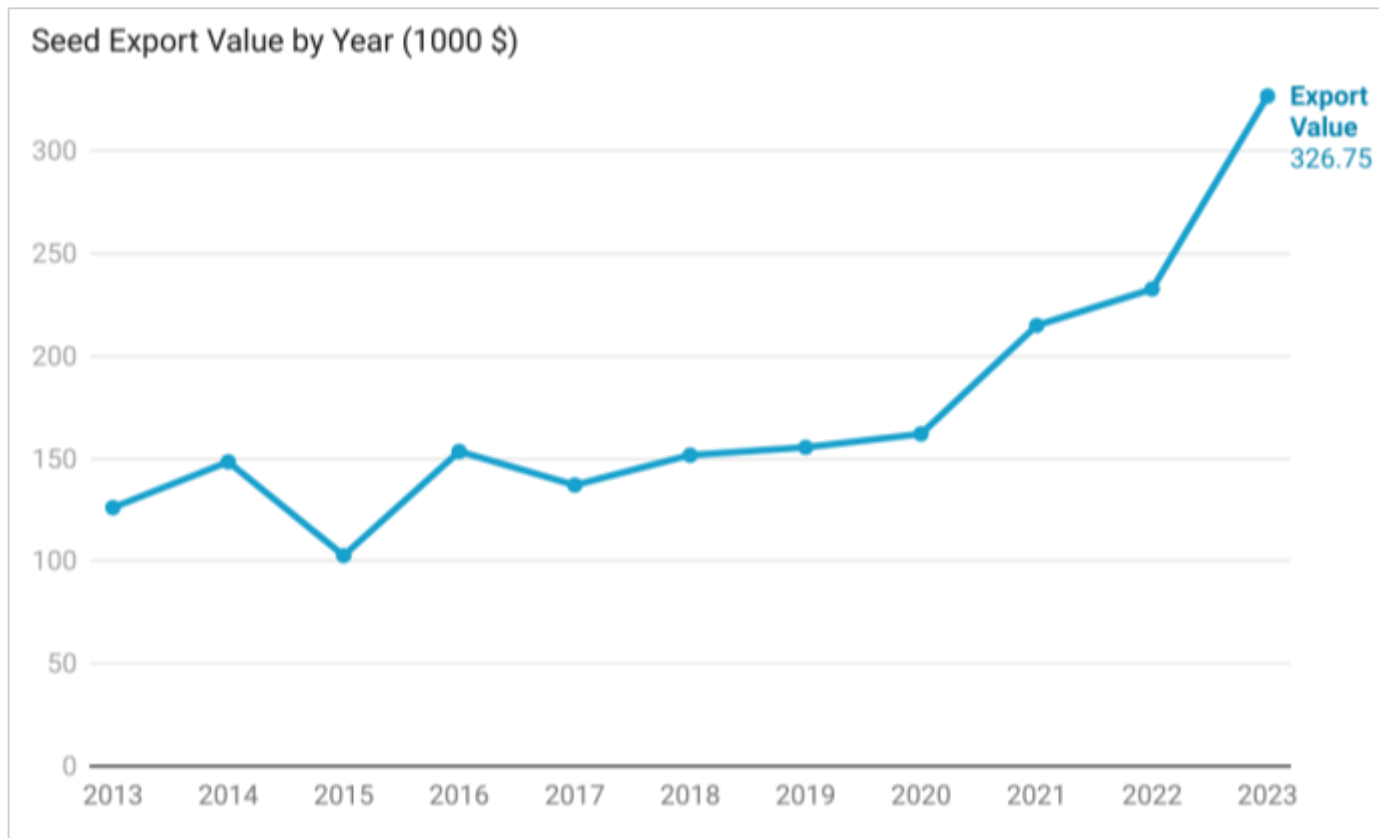
Seed exports have shown a similar trend since 2021, with no significant fluctuations in quantity. In 2023, a total of 89,380 tons of seed were exported. The most exported seed was corn, with 30,014 tons, accounting for 33.5% of total seed exports.



Seed Exports in 2023	
Species	Quantity (Tons)
Corn	30.014
Sunflower	23.710
Wheat	14.106
Forage Crops	9.642
Cotton	4.934
Potato	3.193
Barley	1.513
Vegetable Crops	471
Sugar Beet	180
Others	1.615

Certified Seed Export Value

The value of seed exports has increased every year since 2017. In 2023, it rose by 40.4% compared to 2022, reaching 326.75 million dollars. Sunflower was the product that made the highest financial contribution to seed exports.



Seed Export Value in 2023	
Species	Value (1000 \$)
Sunflower	153.342
Corn	101.016
Vegetable Crops	33.431
Cotton	13.087
Forage Crops	10.850
Wheat	7.527
Potato	1.811
Sugar Beet	1.113
Others	4.579

Agricultural Machinery Statistics

Agricultural Tools and Machinery

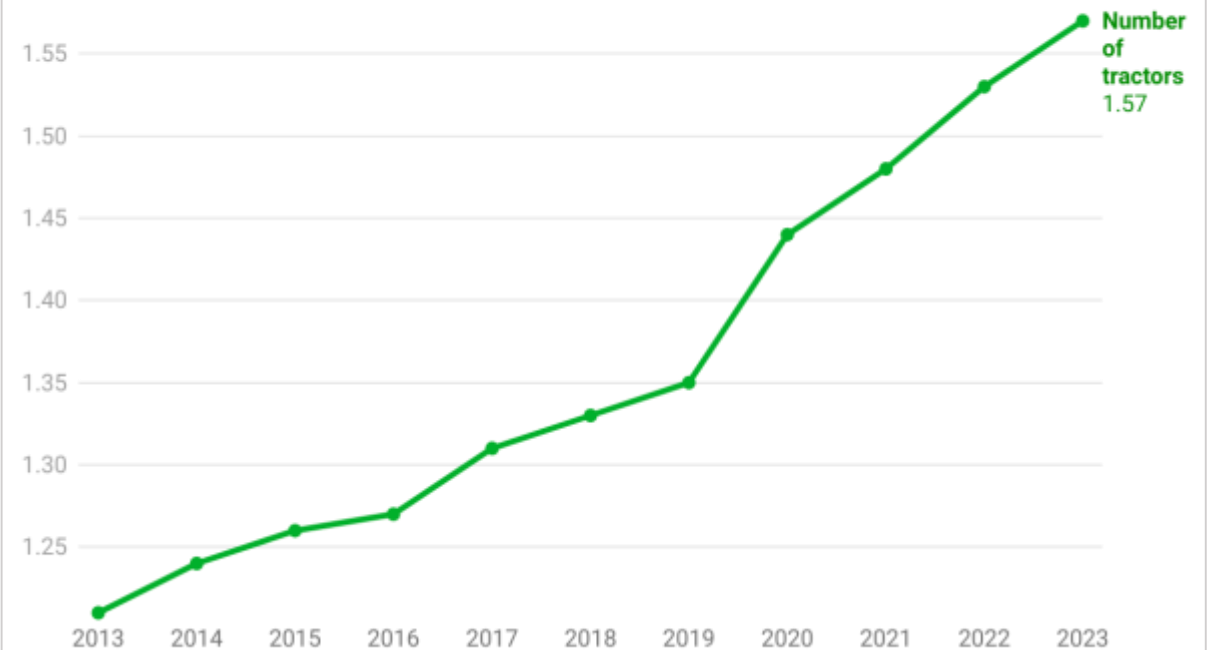
The 10 most commonly used agricultural tools and machinery in agricultural activities are listed below. Tractors, with 1.566 million units, have become the most widely used agricultural equipment. The number of tractors has been steadily increasing since 2013.

Agricultural Tools and Machinery Quantities, 2023





















	Agricultural Tools and Machinery	Quantity
1	Tractor	1,566,045
2	Trailer (Farm Cart)	1,323,921
3	Moldboard Tractor Plow	1,185,238
4	Backpack Sprayer	707,994
5	Drip Irrigation System	621,021
6	Cultivator	617,401
7	Chemical Fertilizer Spreader	481,988
8	PTO-Driven Sprayer	409,783
9	Mobile Milking Machine	397,509
10	Disk Harrow	376,996

Number of Tractors

(2013-2023, million units)























Export of Agricultural Tools and Machinery

	Country	2021	2022	Export Change (%)
1	 United States	237.0	254.8	7.5%
2	 Italy	135.3	138.8	2.6%
3	 Russia	54.0	79.5	47.3%
4	 Iraq	53.9	51.9	-3.6%
5	 Azerbaijan	52.6	49.4	-6.1%
6	 Uzbekistan	101.0	39.8	-60.6%
7	 Sudan	27.0	34.3	27.3%
8	 Bulgaria	23.2	34.3	47.9%
9	 Romania	21.9	31	41.2%
10	 France	26.8	30.9	15.1%
11	 Australia	18.7	30.3	61.9%
12	 Serbia	25.2	28.8	14.2%
13	 Kazakhstan	19.4	25.5	31.3%
14	 South Africa	20.4	24.3	18.9%
15	 Egypt	80.2	23.1	-71.2%
16	 Germany	17.1	21	22.8%
17	 Moldova	16.6	20.6	24.2%
18	 Ukraine	35.2	20.4	-42.1%
19	 Poland	16.2	19.4	19.4%
20	 Georgia	13.0	18.9	44.6%

19.2% of our agricultural tools and machinery exports are directed to the USA, 10.4% to Italy, and 6% to Russia.

The top 10 countries account for 58.4% of our exports, while the top 20 countries account for 73.7%.

Import of Agricultural Tools and Machinery

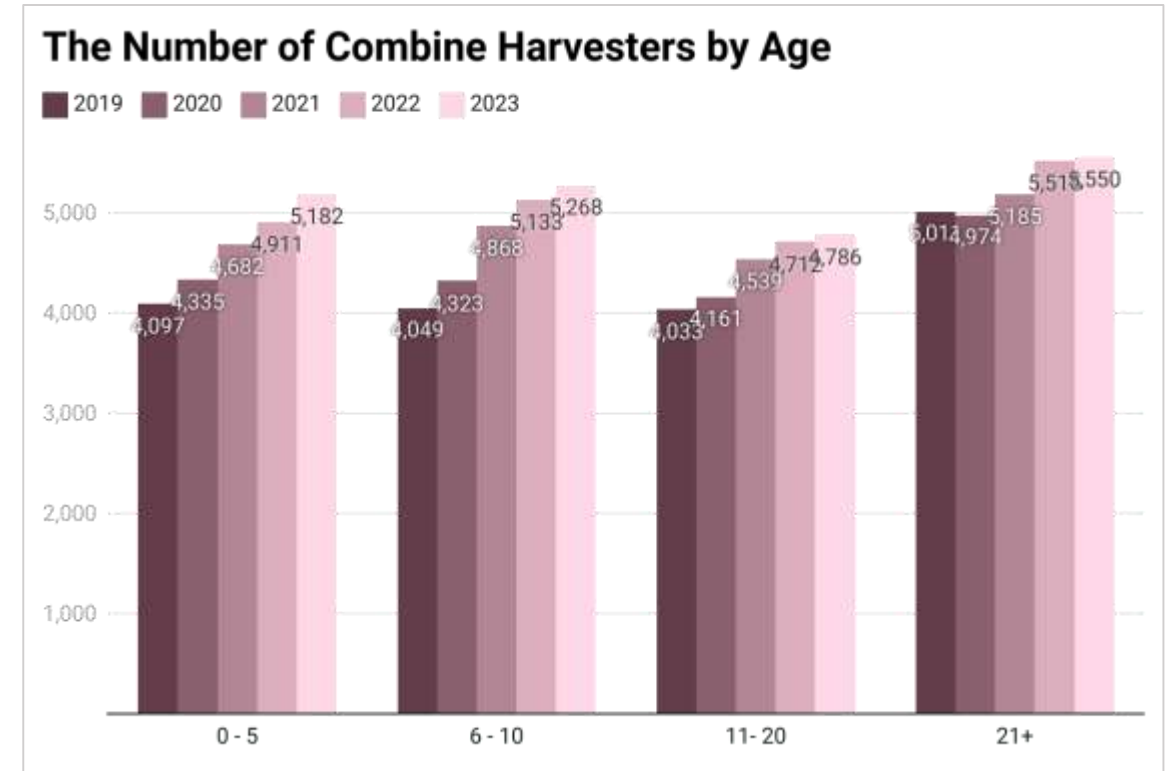
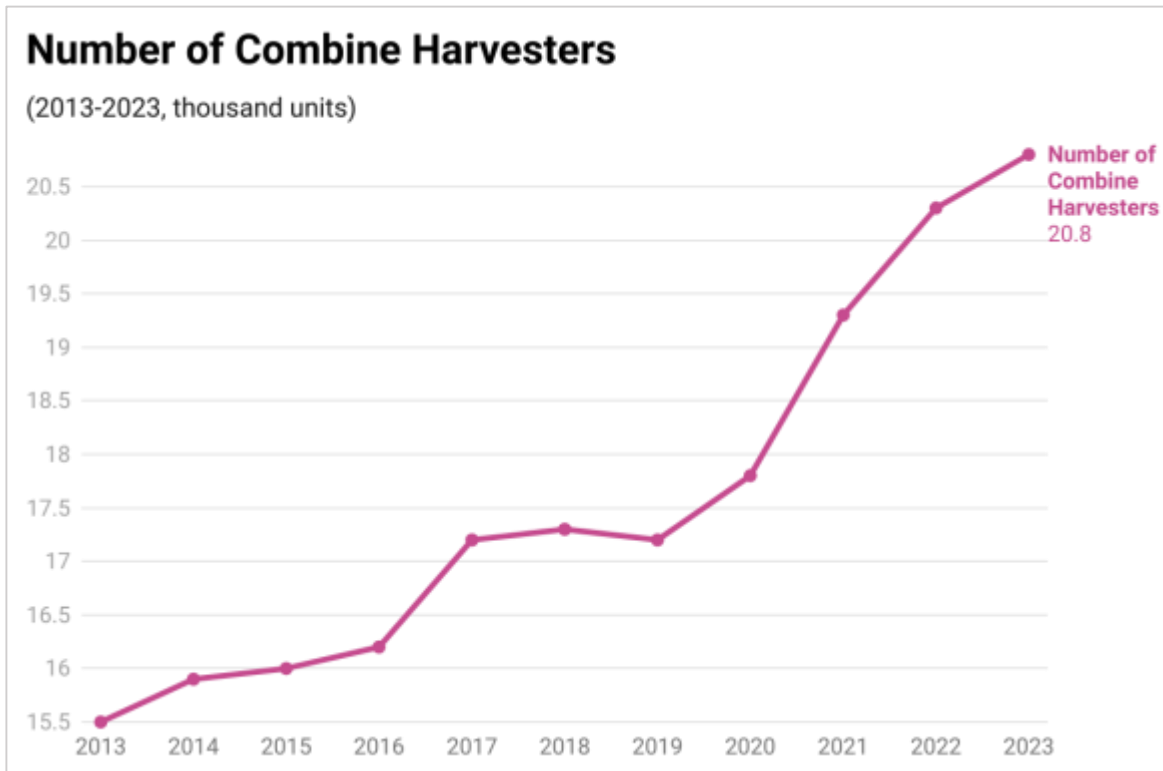
	Country	2021	2022	Import Change(%)
1	 Italy	159.4	132.1	-17.1%
2	 Poland	148.9	102.5	-31.1%
3	 France	101.1	101.4	0.2%
4	 Germany	102.4	97.9	-4.4%
5	 India	29.3	57.9	97.2%
6	 China	40.5	51	26%
7	 Japan	16.8	23.5	40.4%
8	 United States	18.2	19.4	6.6%
9	 Netherlands	19.1	18.7	-2.1%
10	 England	27.9	15.1	-46%
11	 Belgium	8.4	13.8	62.9%
12	 Slovakia	8.6	11.8	36.7%
13	 Austria	14.4	10.6	-26.3%
14	 Israel	7.5	7.6	2%
15	 Mexico	5.6	5.1	-9.4%
16	 Spain	3.8	5	32.4%
17	 Croatia	0.5	3.8	705.5%
18	 Denmark	5.7	2.9	-49%
19	 Ukraine	0.2	2.7	1227.6%
20	 Hungary	4.4	1.7	-61.3%

18.9% of our agricultural tools and machinery imports come from Italy, and 43.3% come from Poland, France, and Germany.

The top 10 countries account for 88.8% of our imports, while the top 20 countries account for 98.3%.

Number of Combine Harvesters

The number of combine harvesters has been increasing since 2019. In 2023, the number of combine harvesters is 20,800. The age-based distribution of combine harvesters is shown below.



Tractor Manufacturing (Units), 1992-2023

In 2023, 96,000 tractors were manufactured in Turkey.

Year	Units	Year	Units
2002	10.840	2013	56.929
2003	29.761	2014	66.922
2004	42.511	2015	69.978
2005	41.502	2016	71.955
2006	44.386	2017	76.071
2007	37.847	2018	52.357
2008	28.587	2019	34.393
2009	17.762	2020	58.710
2010	40.178	2021	89.000
2011	63.519	2022	82.500
2012	55.397	2023	96.000

The data covers the production of the companies Başak, Erkunt, Hattat, Karataş, Kubota, Massey Ferguson, SDF, TZDK, Traksan, Tümosan, Türk Traktör, Uzel, and Yanmar (1) Estimated value. Source: TARMAKBİR.

According to the 2023 data, TürkTraktör alone accounts for 56% of Turkey's total tractor production and 79% of tractor exports.

The other companies that manufacture tractors are as follows:

- BMC
- Başak
- Cumitaş
- Hattat
- TZDK
- Tümosan
- Traksan
- Erkunt
- Karataş
- Kubota
- Massey Ferguson
- SDF
- Yanmar

Tractor Market, Domestic Sales (Units), 1995-2023

In 2023, a total of 77,901 tractors were sold in Turkey.

Yıllar	Units	Year	Units
2002	6.810	2013	52.285
2003	16.636	2014	59.458
2004	29.583	2015	66.788
2005	34.996	2016	70.205
2006	39.706	2017	72.949
2007	34.399	2018	48.044
2008	27.022	2019	25.839
2009	13.758	2020	48.268
2010	36.072	2021	64.070
2011	60.466	2022	66.943
2012	50.320	2023	77.901

The values cover the last two model years. Source: Calculated by TURKSTAT, TARMAKBİR.

Tractor Exports (Units, Value; USD), 2001–2023

The export value of tractors has continuously increased in the last 4 years. In 2023, the export value was 598,256,000 USD.

Year	Units	Value (\$)	Year	Units	Value (\$)
2002	4.554	38.767.000	2013	15.486	340.679.000
2003	12.664	156.737.000	2014	17.739	434.241.000
2004	10.376	147.129.000	2015	17.471	374.472.000
2005	8.361	123.938.000	2016	15.766	338.701.000
2006	9.871	147.903.000	2017	14.544	320.937.000
2007	9.376	159.501.000	2018	19.282	423.603.000
2008	10.766	221.535.000	2019	23.401	481.298.000
2009	9.337	178.697.000	2020	21.762	417.211.000
2010	10.000	195.428.000	2021	23.135	524.757.000
2011	10.684	219.413.000	2022	26.492	584.664.000
2012	16.176	324.849.000	2023	20.968	598.256.000

The data does not include components and parts. Source: ITC.

Tractor Imports (Units, Value; USD), 2001-2023

The import value of tractors has continuously increased in the last 5 years. In 2023, the import value was 942,679,000 USD.

Year	Units	Value (\$)	Year	Units	Value (\$)
2002	279	6.137.000	2013	11.166	244.492.000
2003	988	22.048.000	2014	13.634	276.702.000
2004	4.207	115.899.000	2015	20.659	396.607.000
2005	5.977	163.806.000	2016	21.634	390.224.000
2006	7.345	210.551.000	2017	18.107	344.405.000
2007	4.925	148.994.000	2018	8.044	162.391.000
2008	5.441	161.915.000	2019	5.770	77.396.000
2009	3.803	90.800.000	2020	7.512	169.573.000
2010	8.896	200.090.000	2021	12.892	342.833.000
2011	14.961	345.233.000	2022	14.960	348.519.000
2012	11.699	259.295.000	2023	32.396	942.679.000

The data does not include components and parts. Source: ITC.

Agricultural Machinery Foreign Trade, (Value, Thousand USD), 2006-2023

Year	Exports (Tractors)	Exports (Equipment)	Exports (Total)	Imports (Tractors)	Imports (Equipment)	Imports (Total)	Balance (\$)
2006	252.106	93.975	346.081	257.819	278.626	536.445	-190.364
2007	319.064	135.719	454.783	195.071	263.223	458.294	-3.511
2008	415.962	178.159	594.121	210.868	216.843	427.711	166.410
2009	291.341	140.603	431.944	114.303	144.668	258.971	172.973
2010	339.618	165.586	505.204	238.979	255.524	494.503	10.701
2011	402.704	204.173	606.877	407.141	407.618	814.759	-207.882
2012	505.694	237.470	743.164	303.471	408.722	712.193	30.971
2013	494.509	263.932	758.441	295.646	473.276	768.922	-10.481
2014	557.207	299.909	857.116	315.676	352.219	667.895	189.221
2015	474.808	287.113	761.921	440.773	312.940	753.713	8.208
2016	448.007	277.468	725.475	441.977	300.209	742.186	-16.711
2017	437.786	333.460	771.246	422.223	313.925	736.148	35.098
2018	537.379	406.429	943.808	250.218	298.174	548.392	395.416
2019	574.670	467.624	1.042.294	134.608	143.820	278.428	763.866
2020	508.061	575.191	1.083.252	238.630	251.966	490.596	592.656
2021	642.579	795.792	1.438.371	462.872	380.736	843.608	594.763
2022	703.670	778.894	1.482.564	463.439	396.180	859.619	622.945
2023	714.610	749.256	1.463.866	1.120.296	592.700	1.712.996	-249.130

Comprehensive analysis. Source: ITC

References

- Turkish Statistical Institute (TURKSTAT)
- TARMAKBİR (Association of Turkish Agricultural Equipment and Machinery Manufacturers)
- ITC (International Trade Centre)