



Economic Research Service
U.S. DEPARTMENT OF AGRICULTURE

ERS Resources & Statistics: Exploration of U.S. Dry Bean Statistics

2024 U.S. Dry Bean Convention
Savannah, Georgia
August 2024

Presenter: Wilma V. Davis¹

Greg Astill¹, Skyler Simnitt¹, Helen Wakefield¹, Catharine Weber¹, Seth Wechsler¹, and D. Adeline Yeh¹

¹ United States Department of Agriculture (USDA), Economic Research Service (ERS).

Note: Names listed with presenter first and all other members of the Specialty Crop Team listed in alphabetical order by last name.

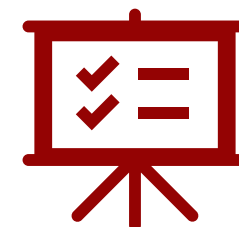
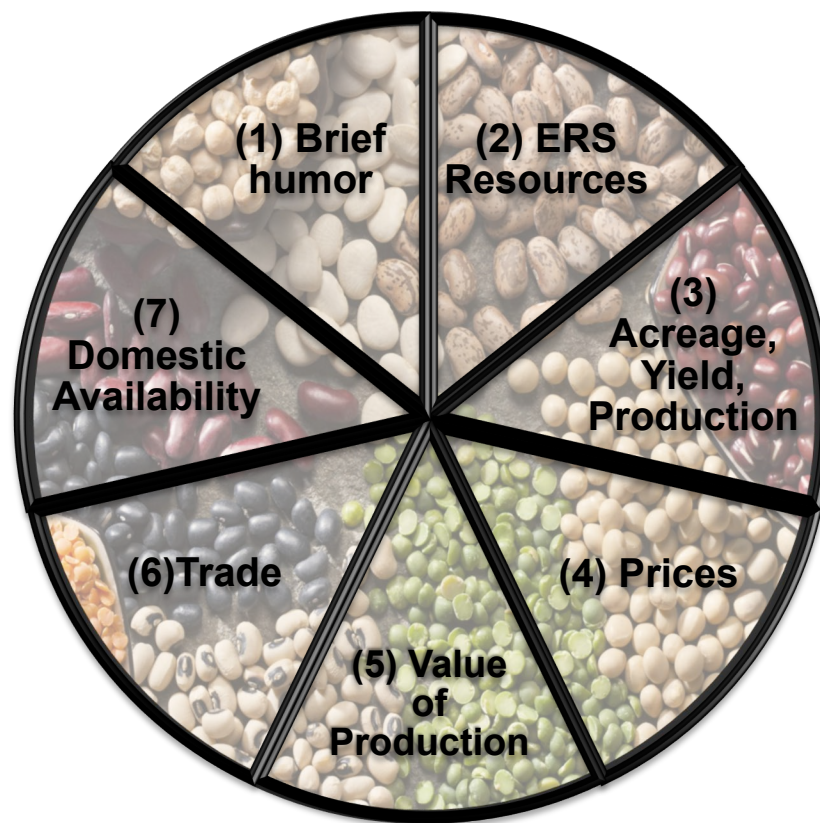
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Key Slices — Presentation Outline



Why were the dry beans eager for their interviews?



Brief Dry Humor

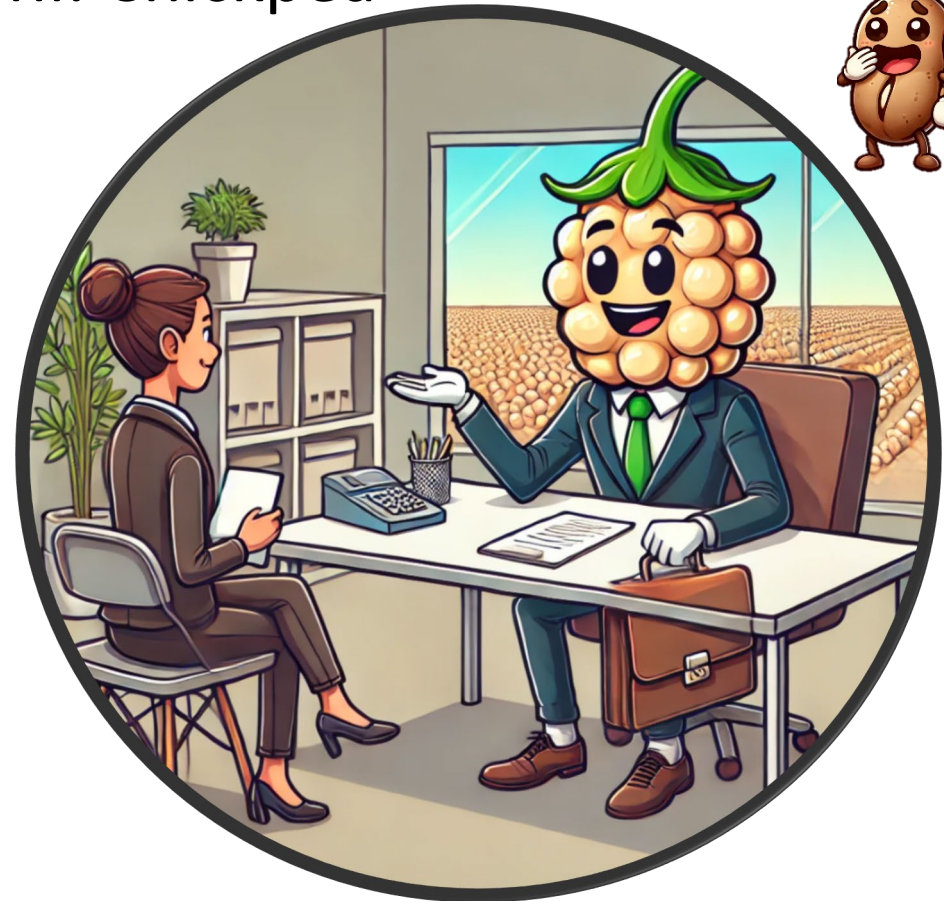
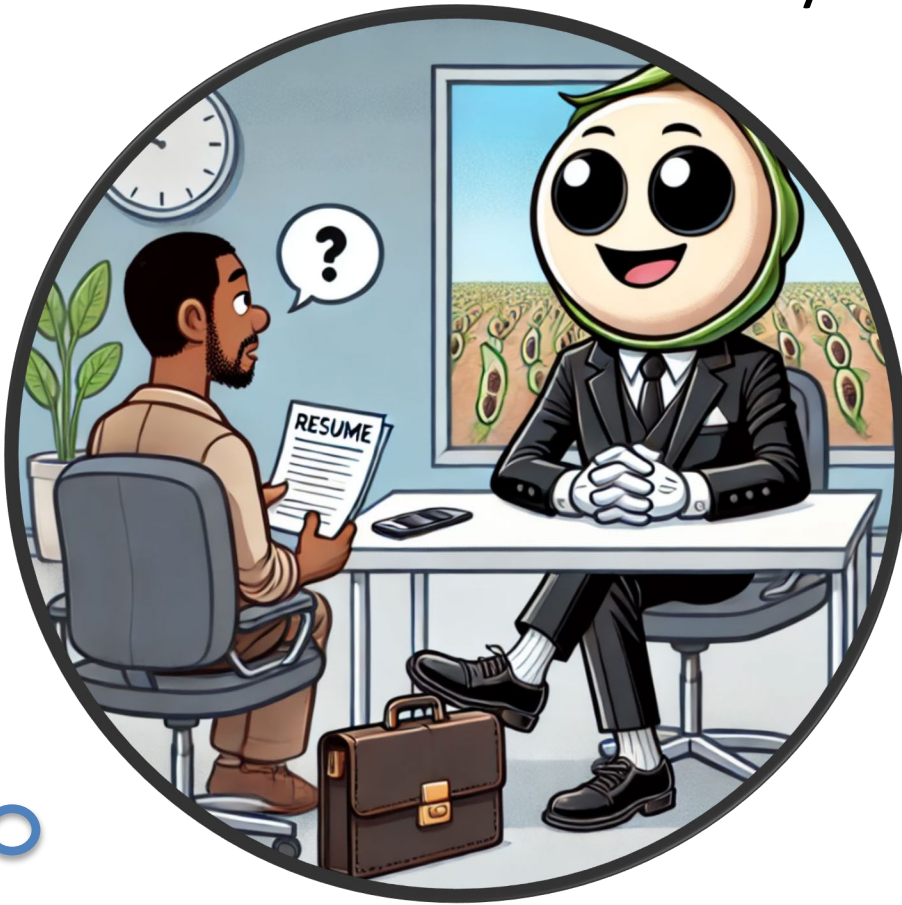


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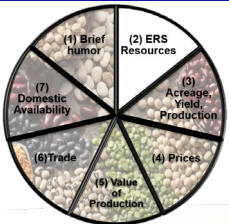
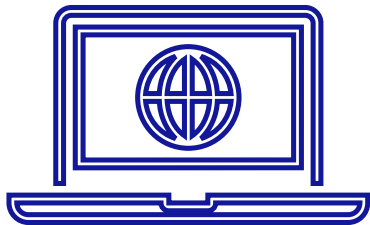
They couldn't wait to spill the beans about their talents...

Mr. Blackeye Pea and Mr. Chickpea



Brief Dry Humor





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Vegetables and Pulses

- [Overview](#)
- [Market Outlook](#)
- [Commodity Highlights](#)
- [Data](#)

Overview

- [Recent ERS publications related to vegetables and pulses](#)

The U.S. vegetables and pulses sector comprises hundreds of independent markets within the food marketing system. From 2017 to 2022, U.S. farm cash receipts from the sale of vegetables and pulses (including potatoes and mushrooms) averaged \$19.9 billion—approximately 10 percent of average U.S. crop cash receipts over the same time period. This amount was generated on approximately 2 percent of all U.S. harvested acreage. Annual per capita availability (a proxy for consumption) of vegetables and pulses over the same period averaged 414 pounds—down approximately 4 percent from a decade earlier when average per capita availability was 431 pounds.

USDA, ERS provides a range of data products and reports on vegetable and pulse markets including domestic supply, demand, trade, and prices.

Periodic, Scheduled Outputs

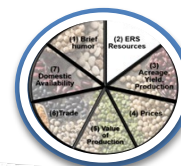
- [Outlook reports](#) are published three times a year and provide current intelligence and forecasts on changing conditions in the U.S. vegetable and pulses sector. Interactive charts and highlights of the most recent Outlook report are available on the [Market Outlook page](#).
- [Vegetables and Pulses Data](#) are updated monthly and provide prices, price indexes, and trade for the sector and for individual commodities.
- [Vegetables and Pulses Yearbook Tables](#) are updated annually and contain Excel spreadsheets detailing a 40 year time series of supply, availability (including per capita use), and price for a range of U.S. fresh and processing vegetables.

Recent USDA, ERS Reports Relating to Vegetables and Pulses

In addition to the periodic Outlook reports and data products, USDA, ERS disseminates reports covering issues important to vegetable and pulse crop markets in the United States and around the world. Recent USDA, ERS reports relating to vegetable and pulse crops include:

- [Trends, Insights, and Future Prospects for Production in Controlled Environment Agriculture and Agrivoltaics Systems](#)
Public and private investments in alternative food production systems have increased in recent years. Two systems, controlled environment agriculture (CEA) and agrivoltaics (AV), have been highlighted for their potential to provide socioeconomic benefits

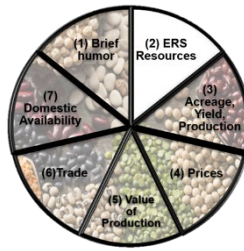
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ERS Resources



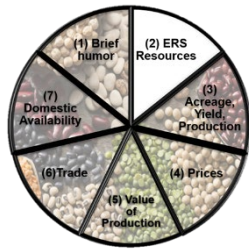
ERS Specialty Crop Resources for Pulse Crops



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Annual Yearbook Tables – High Level Inventory



Pulse Yearbook Tables

Supply and availability (13)

Import and export value (2)

Per capita availability (2)

Harvest, production, and crop value (1)

Table 60--U.S. dry edible beans and chickpeas: supply, availability, and price, farm weight/1

Year	Supply				Availability				Season average price		
	Production/2	Imports/3	Beginning stocks/4	Total supply	Exports/3	Seed use/5	Ending stocks/4	Domestic availability	Per capita availability	Current	Constant
										dollars/2,6	dollars/7
— Pounds — — U.S. dollars/cwt —											
1984	2,107.0	58.3	921.3	3,086.6	593.8	84.0	1,130.8	1,278.0	5.41	18.70	35.35
1985	2,217.5	58.1	1,130.8	3,406.4	638.4	84.9	1,034.8	1,648.2	6.91	17.60	32.25
1986	2,288.6	47.5	1,034.8	3,370.9	846.0	93.4	901.2	1,530.2	6.36	19.10	34.31
1987	2,603.1	53.3	901.2	3,557.6	758.6	78.6	1,413.3	1,307.2	5.38	18.50	28.92
1988	1,925.3	64.5	1,413.3	3,403.1	838.7	92.2	794.6	1,677.6	6.85	29.90	50.63
1989	2,372.9	97.2	794.6	3,264.7	832.1	110.6	981.6	1,340.5	5.42	28.50	46.44
1990	3,237.9	90.3	981.6	4,309.7	1,107.3	97.1	1,422.2	1,683.2	6.73	18.50	29.06
1991	3,376.5	75.8	1,422.2	4,874.5	1,011.3	81.3	1,919.4	1,862.5	7.35	15.60	23.70
1992	2,261.5	67.7	1,919.4	4,248.7	620.3	92.2	1,527.7	2,008.5	7.82	19.90	29.56
1993	2,186.2	67.4	1,527.7	3,781.3	653.2	96.4	1,118.0	1,880.8	7.23	24.60	35.69
1994	2,886.7	75.9	1,118.0	4,080.5	797.0	104.5	1,158.5	2,030.5	7.71	22.50	31.96
1995	3,069.0	84.8	1,158.5	4,312.3	831.7	93.6	1,386.2	2,000.8	7.51	20.80	28.94
1996	2,791.2	88.0	1,386.2	4,265.4	754.3	96.7	1,458.6	2,004.8	7.43	23.50	32.11
1997	2,937.0	100.6	1,458.6	4,447.4	803.2	105.2	1,520.3	2,018.7	7.40	19.30	25.93
1998	3,041.8	92.4	1,520.3	4,654.5	1,106.3	105.7	1,438.0	2,004.4	7.26	19.00	25.24
1999	3,314.6	125.0	1,438.0	4,877.6	843.9	91.9	1,762.7	2,179.1	7.80	16.40	21.47
2000	2,654.3	128.9	1,762.7	4,545.9	788.4	75.7	1,512.2	2,169.7	7.68	15.50	19.85
2001	1,961.0	192.5	1,512.2	3,665.7	755.5	100.4	800.8	2,009.0	7.04	22.10	27.70
2002	3,031.2	245.8	800.8	4,077.8	673.2	73.8	1,368.0	1,962.8	6.81	17.10	21.10
2003	2,249.2	190.6	1,368.0	3,807.7	648.4	70.3	1,119.6	1,969.2	6.77	18.40	22.29
2004	1,774.3	207.1	1,119.6	3,101.2	561.4	84.6	697.9	1,757.3	5.99	25.70	30.31
2005	2,657.6	224.9	697.9	3,580.4	564.1	84.6	1,118.3	1,813.4	6.12	18.50	21.16
2006	2,415.5	237.2	1,118.3	3,771.1	791.8	79.8	971.9	1,927.5	6.45	22.10	24.54
2007	2,558.6	283.8	971.9	3,814.3	668.3	78.1	1,145.4	1,922.6	6.37	28.80	31.14
2008	2,558.8	327.1	1,145.4	4,029.3	916.0	81.0	1,066.5	1,965.8	6.45	34.60	36.70
2009	2,542.7	296.9	1,066.5	3,906.1	1,035.1	99.9	1,002.4	1,768.7	5.75	30.00	31.58
2010	3,180.1	288.8	1,002.4	4,471.3	1,000.6	65.3	1,184.7	2,220.8	7.17	28.00	27.66
2011	1,989.0	320.3	1,184.7	3,493.9	983.3	91.3	772.9	1,646.4	5.28	42.10	40.79
2012	3,192.5	310.2	772.9	4,275.6	1,237.5	72.2	1,257.7	1,798.2	6.44	38.00	36.13
2013	2,458.7	265.7	1,257.7	3,982.1	1,086.6	90.1	1,172.5	1,632.8	5.16	39.10	36.57
2014	2,891.0	335.0	1,172.5	4,386.5	1,179.3	94.2	1,211.8	1,913.2	6.01	32.30	29.72
2015	3,005.7	349.5	1,211.8	4,587.0	946.6	88.3	1,248.8	2,283.2	7.12	27.30	26.05
2016	2,872.4	339.3	1,248.8	4,460.5	1,023.3	114.2	1,160.4	2,182.5	6.69	29.20	27.56
2017	3,596.1	350.7	1,160.5	5,115.4	1,181.1	116.0	1,346.0	2,472.3	7.60	26.70	24.78
2018	3,774.5	392.9	1,354.0	5,521.3	913.9	95.9	1,770.2	2,741.3	8.39	25.40	23.02
2019	2,701.2	314.2	1,778.8	4,794.2	1,127.7	107.8	1,586.6	1,972.2	6.00	31.80	28.32
2020	3,675.2	439.3	1,592.1	5,706.6	1,144.1	96.4	1,802.7	2,863.4	8.07	30.89	27.16
2021	2,558.2	420.9	1,807.7	4,786.7	1,031.3	91.5	1,266.6	2,397.4	7.23	38.98	32.89

-- = Not available. Cwt = hundredweight. Most recent year is preliminary.

1/ Includes garbanzo beans (chickpeas).

2/ Source: USDA, National Agricultural Statistics Service.

3/ Source: U.S. Department of Commerce, U.S. Census Bureau.

4/ Assumes no carryover into next crop year. Approximated from State dry bean marketing patterns.

5/ Estimated by USDA, Economic Research Service.

6/ Season-average grower price across all classes. Estimated by USDA, ERS after 2019.

7/ Deflated by the Gross Domestic Product implicit price deflator, 2012=100.

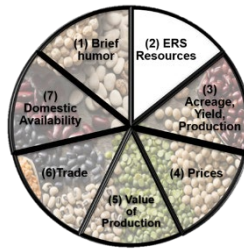
Source: USDA, Economic Research Service.



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Commodity Highlights – High Level Inventory



Pulse Visualizations

Production and Prices (13)

Area Harvested (2)

Imports and Exports (13)

Import and Export shares (13)

Per Capita Availability (13)



Commodity Highlights

The statistics shown in these interactive charts are available for download in a machine readable .csv file format. Download the complete [Commodity Highlights Data file](#).



Cwt = hundredweight.

Source: USDA, Economic Research Service, Vegetables and Pulses Yearbook 2022.

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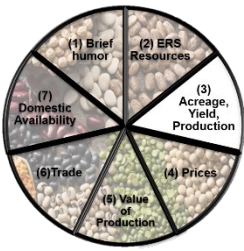
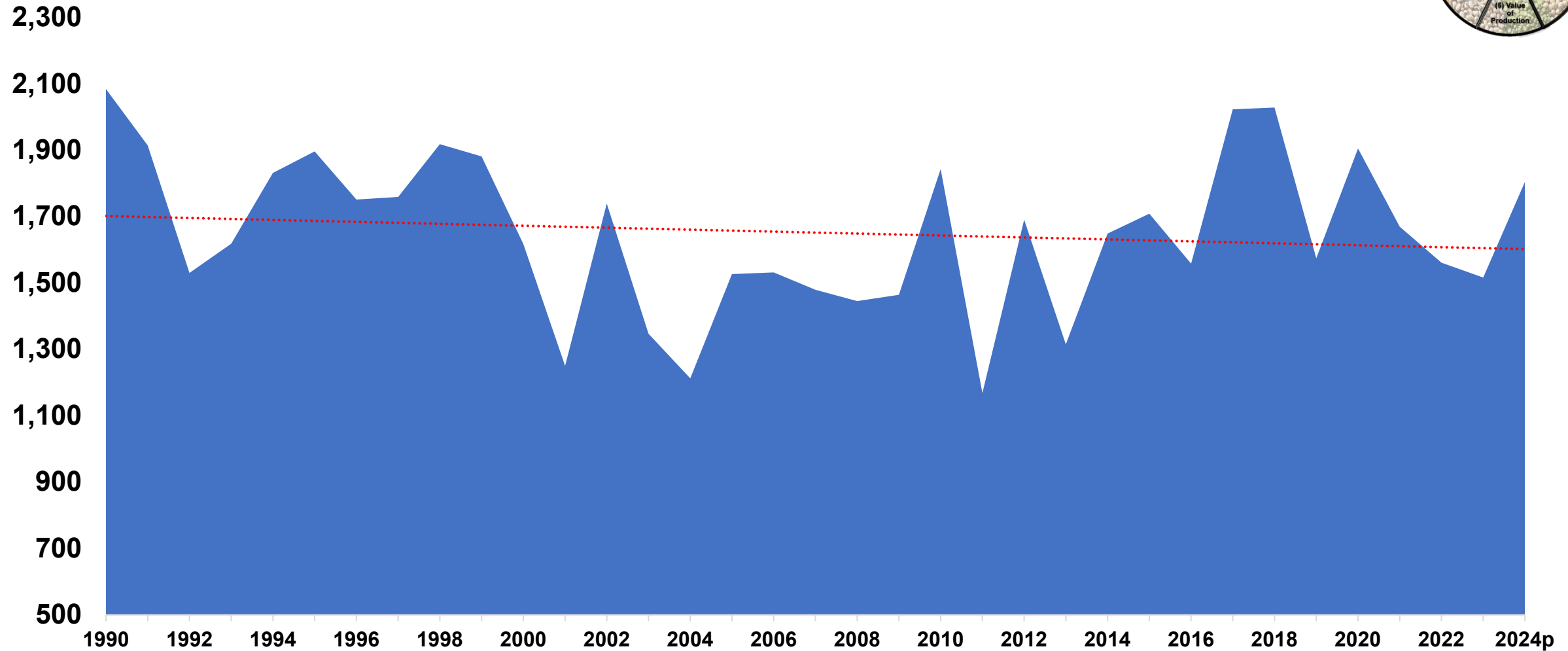


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U.S. dry beans¹: Acres harvested trending lower, 1990–2024

Thousand acres



Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service

1/Includes chickpeas in all years

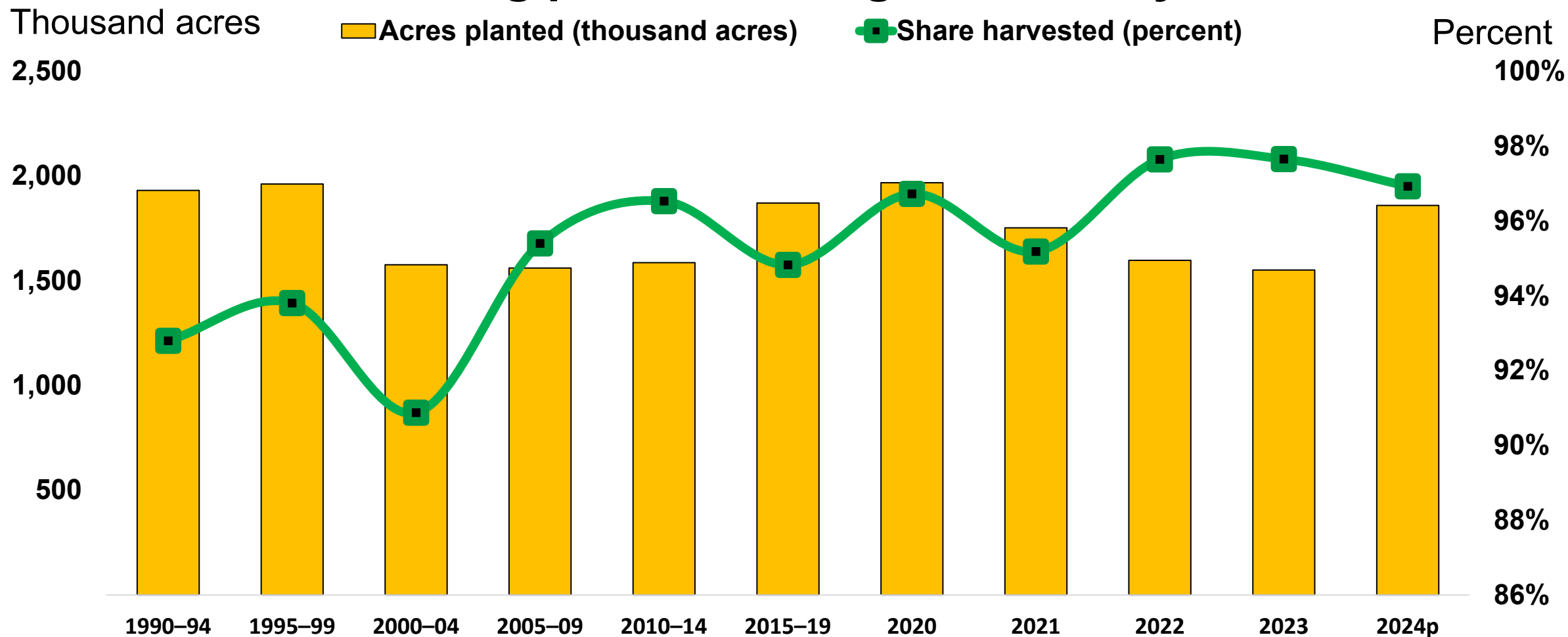
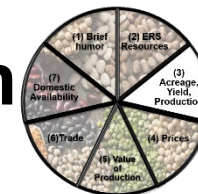


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U.S. dry beans¹: Area planted and share harvested with declining planted acreage in recent years

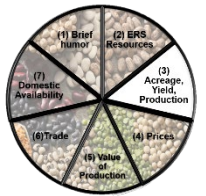


Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service
1/Includes chickpeas in all years

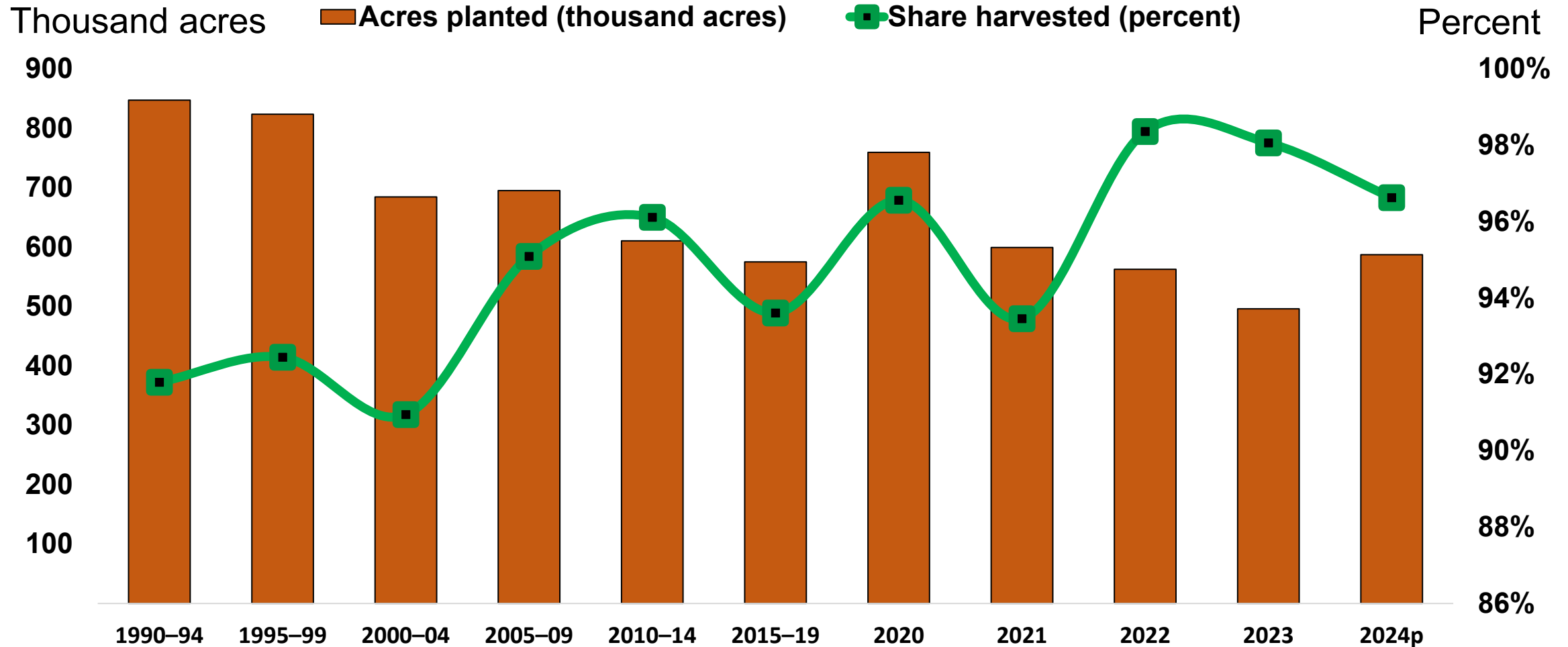


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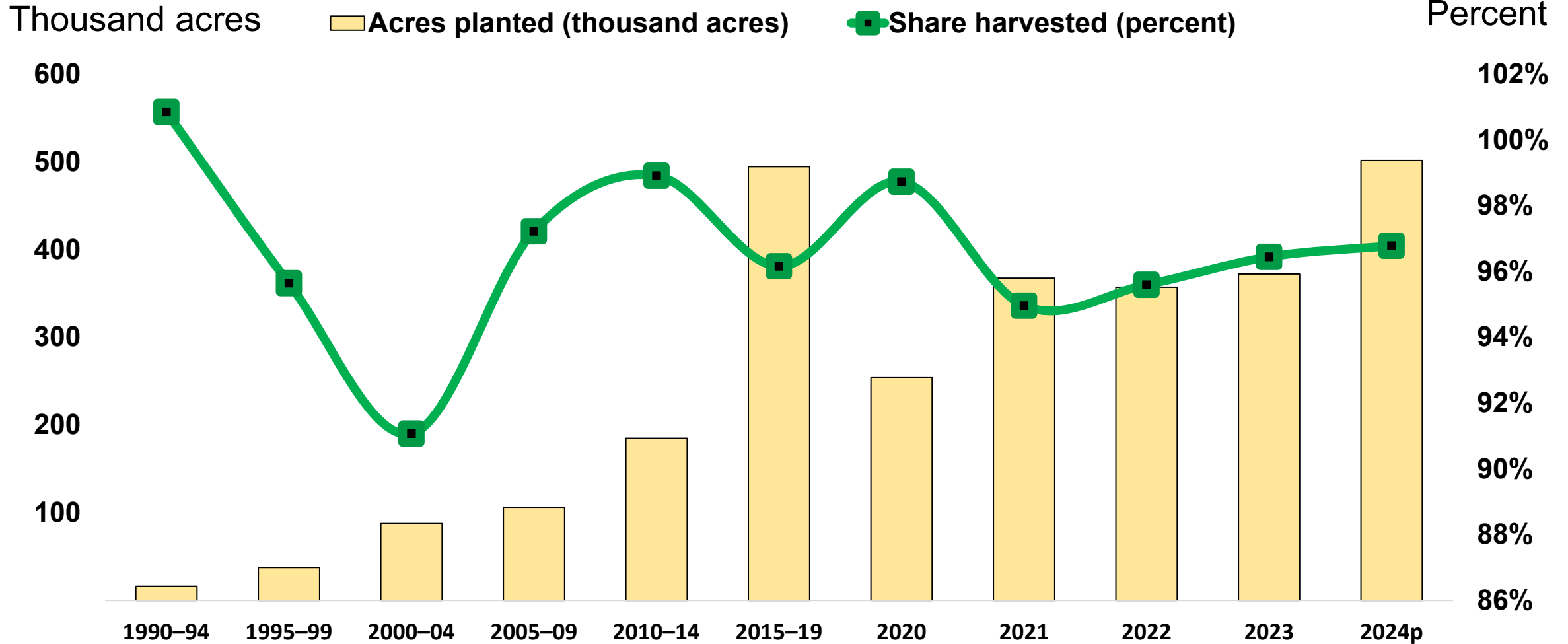
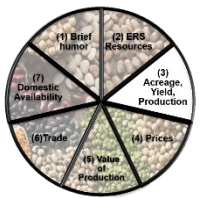
U.S. pinto beans: Area planted and share harvested



Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service

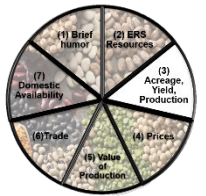


U.S. chickpeas: Area planted and share harvested

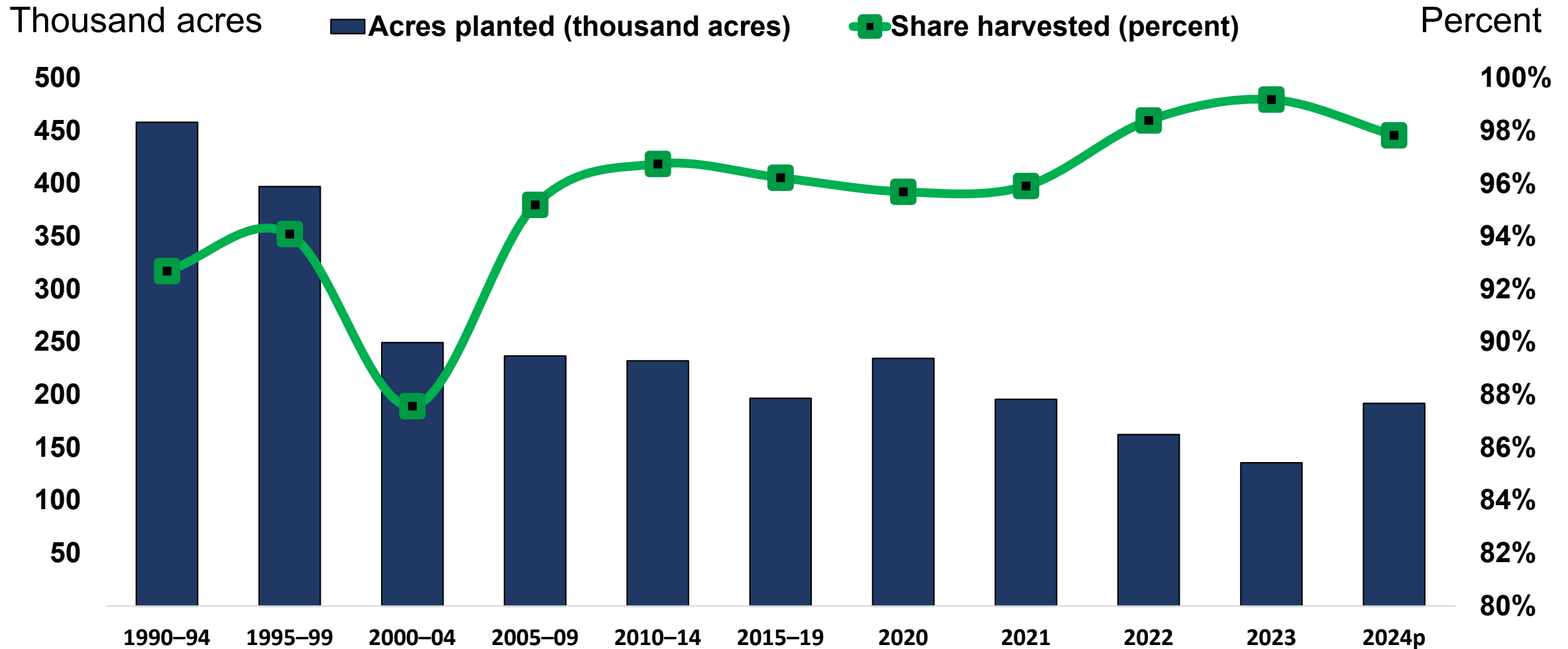


Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service





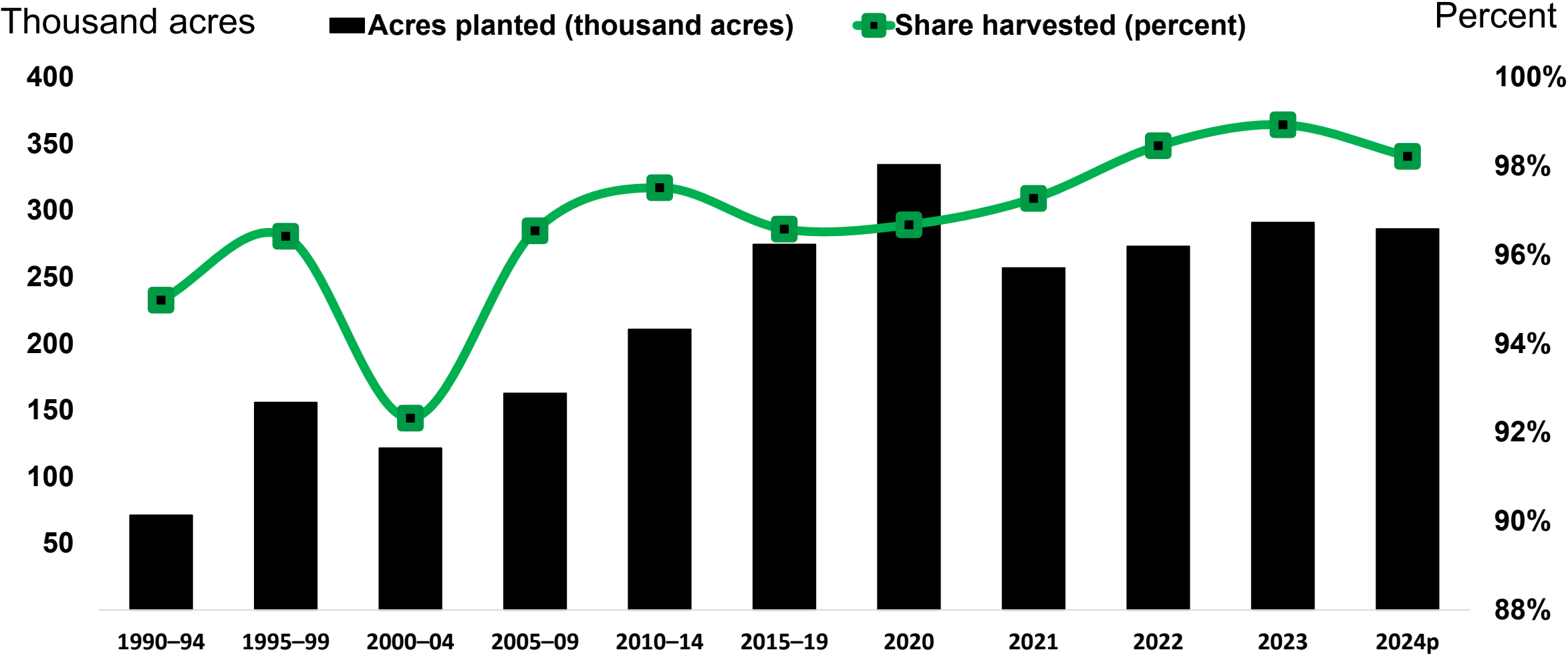
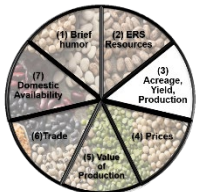
U.S. navy beans: Area planted and share harvested



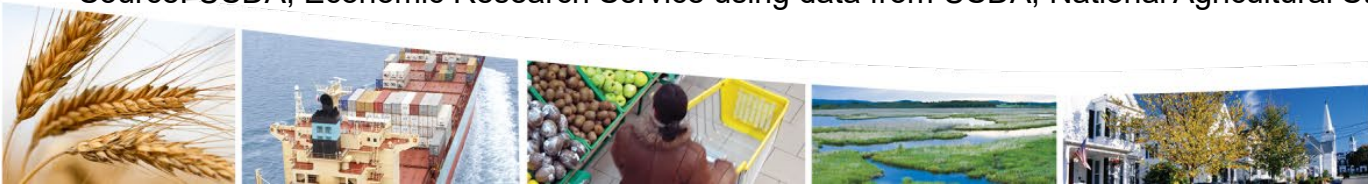
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service



U.S. black beans: Area planted and share harvested

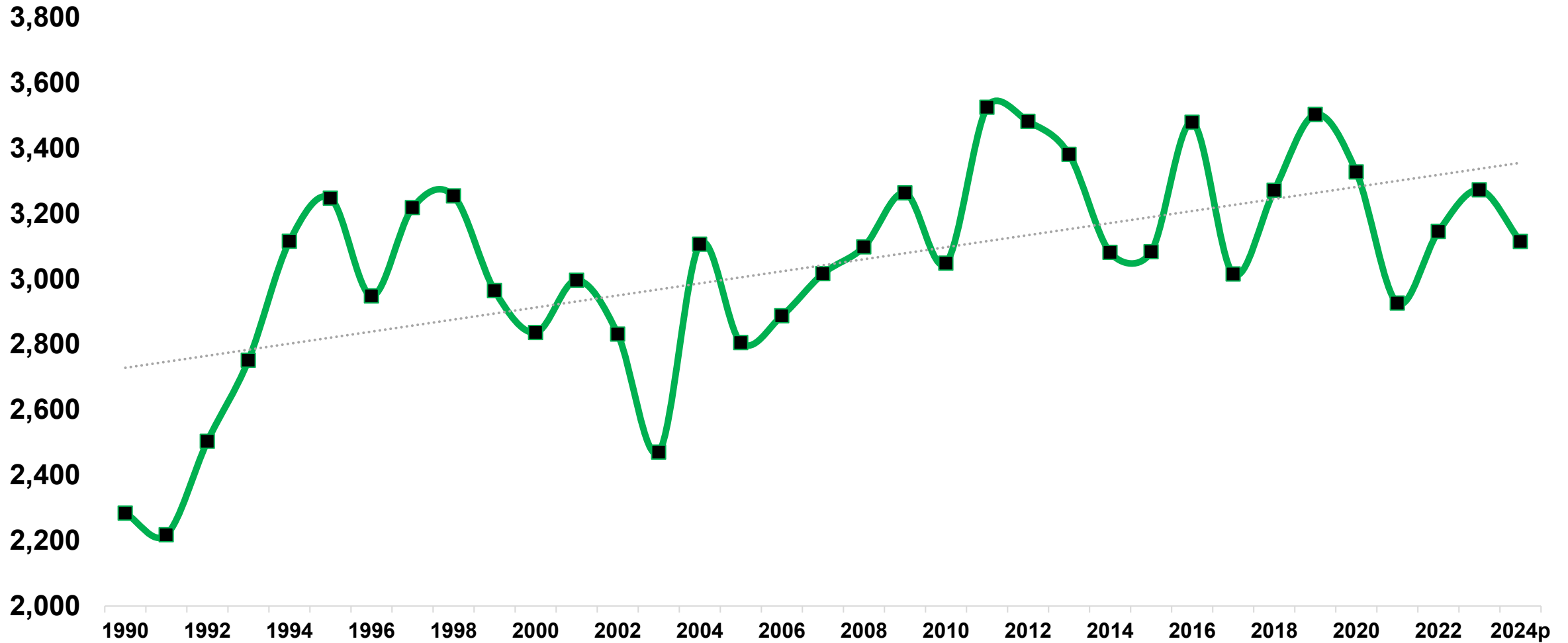


Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service



U.S. dry beans¹: Yield trending higher, 1990-2024p

Pounds per acre



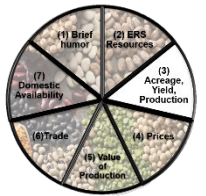
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service

¹/Includes chickpeas in all years



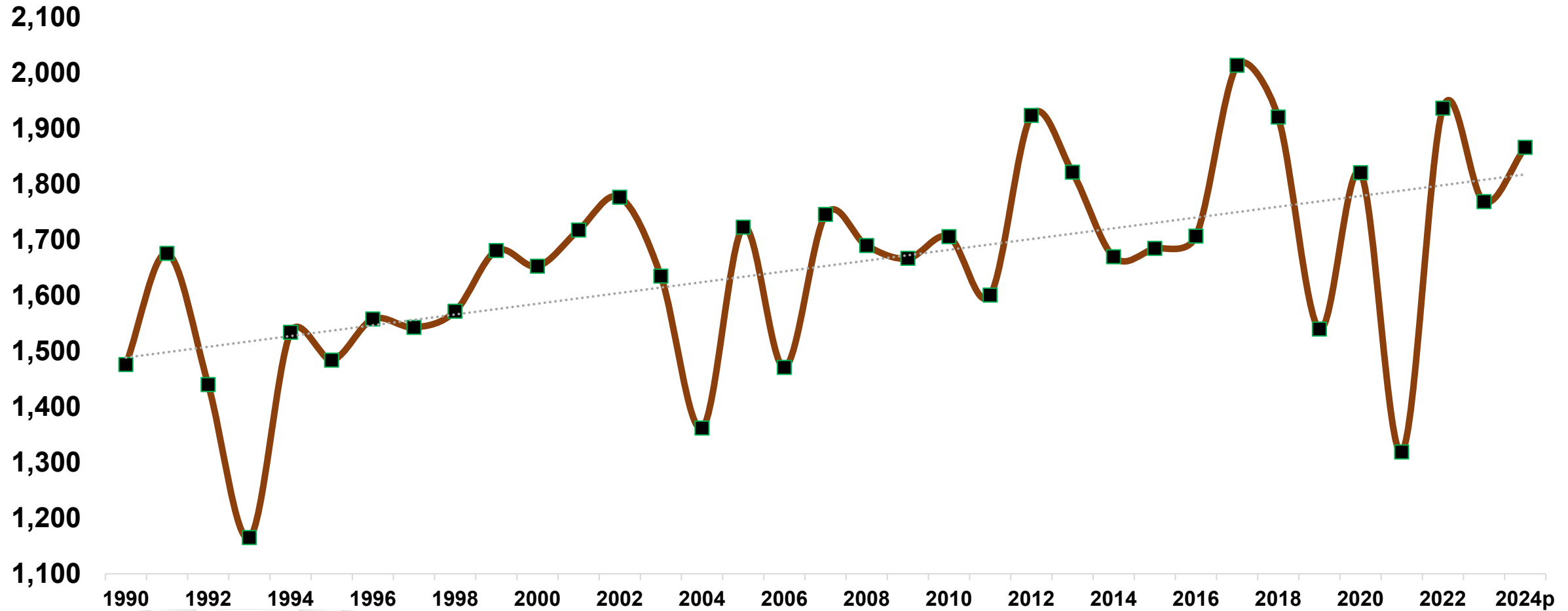
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U.S. pinto beans: Yield trending higher, 1990-2024p

Pounds per acre



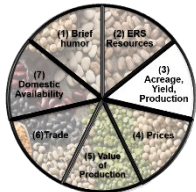
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service



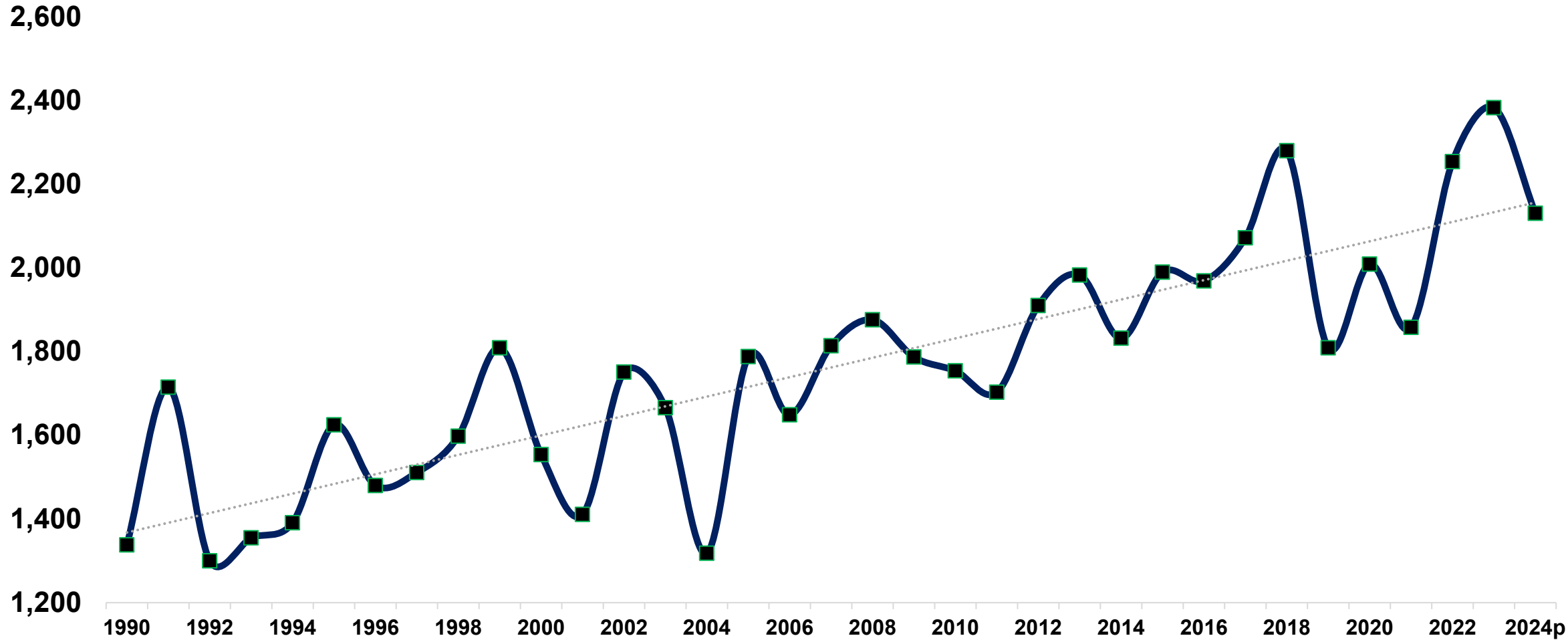
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U.S. navy beans: Yield trending higher, 1990-2024p



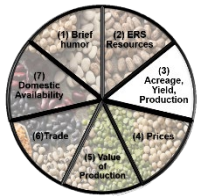
Pounds per acre



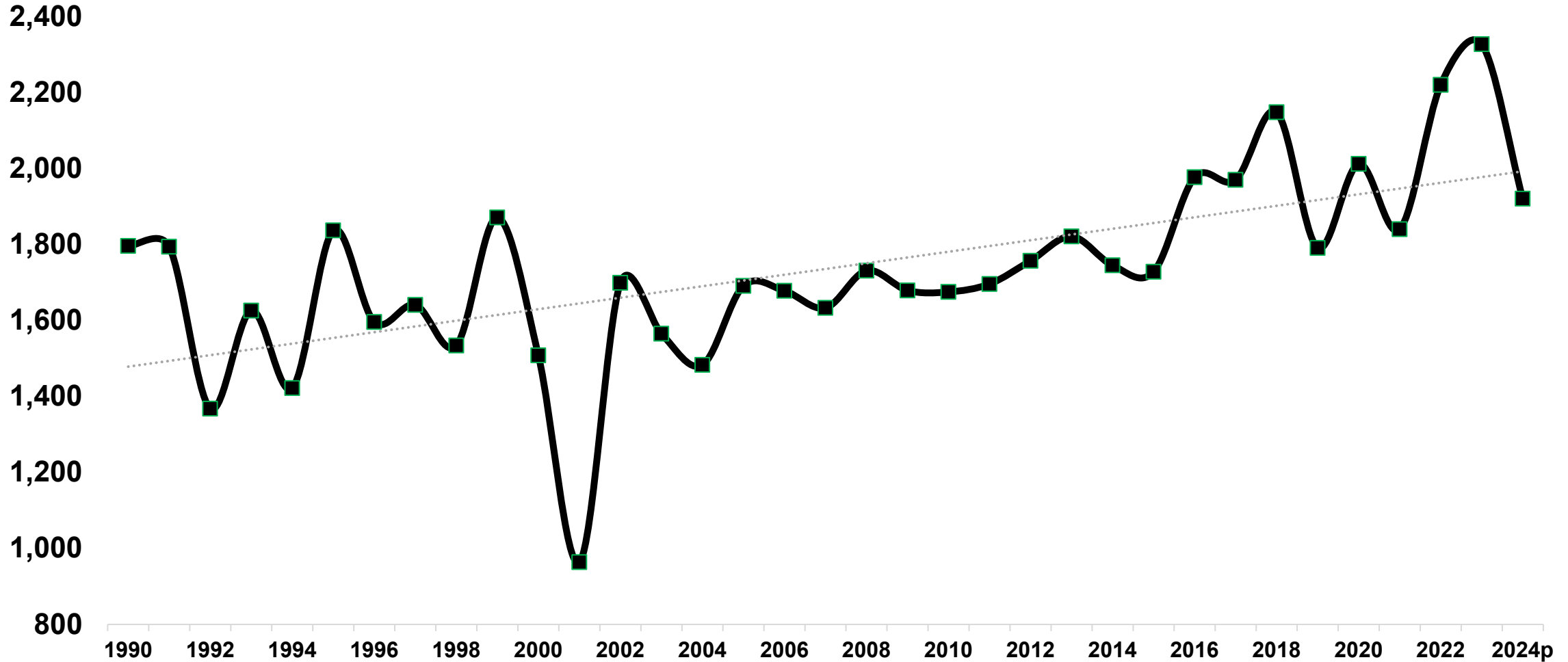
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service



U.S. black beans: Yield trending higher, 1990-2024p



Pounds per acre



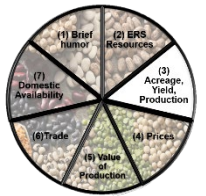
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service



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U.S. chickpeas: Yield trending higher, 1990-2024p



Pounds per acre

1,900

1,700

1,500

1,300

1,100

900

700

500

1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022 2024p

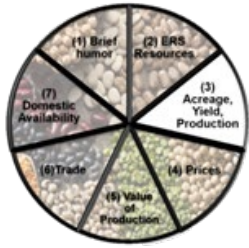
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service



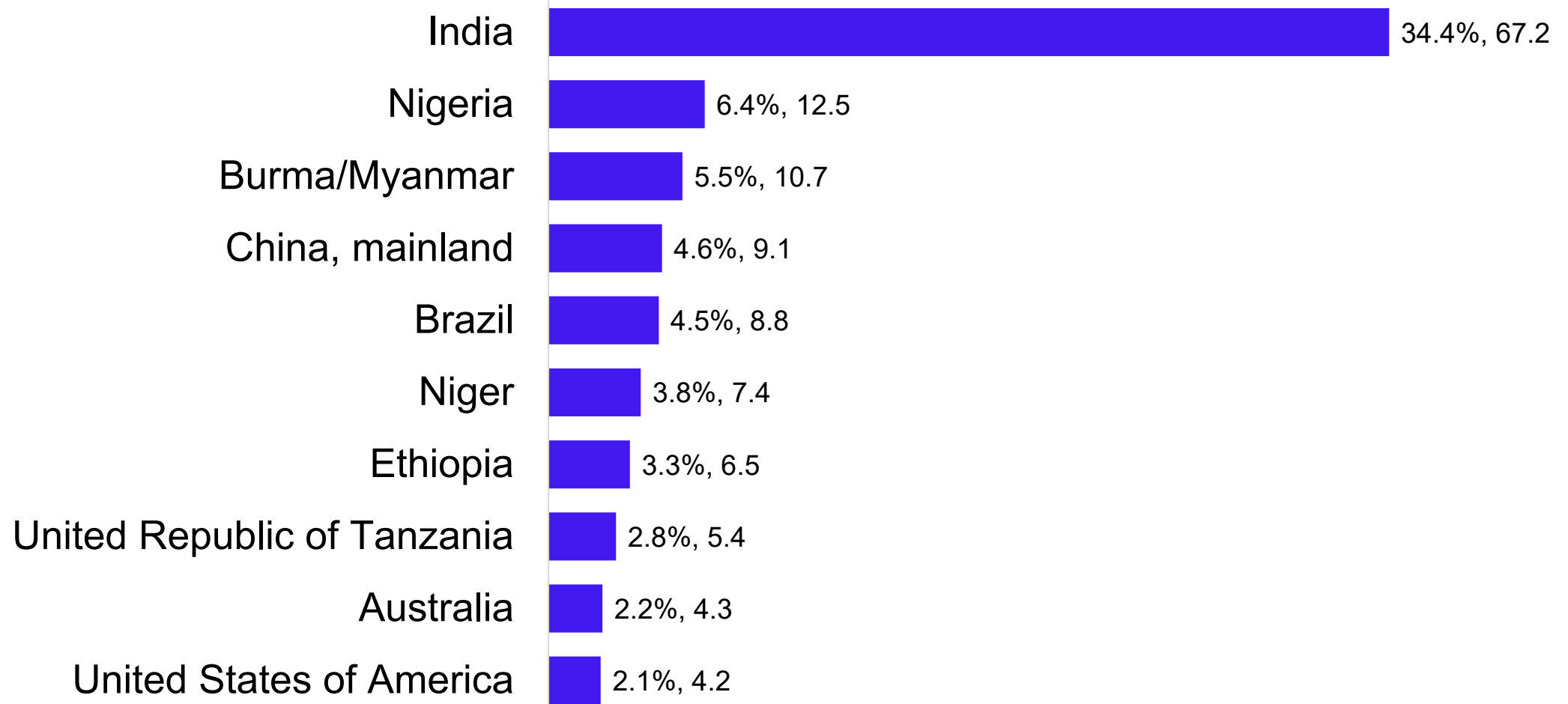
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World dry beans¹: Top 10 producers by country, 2020–22

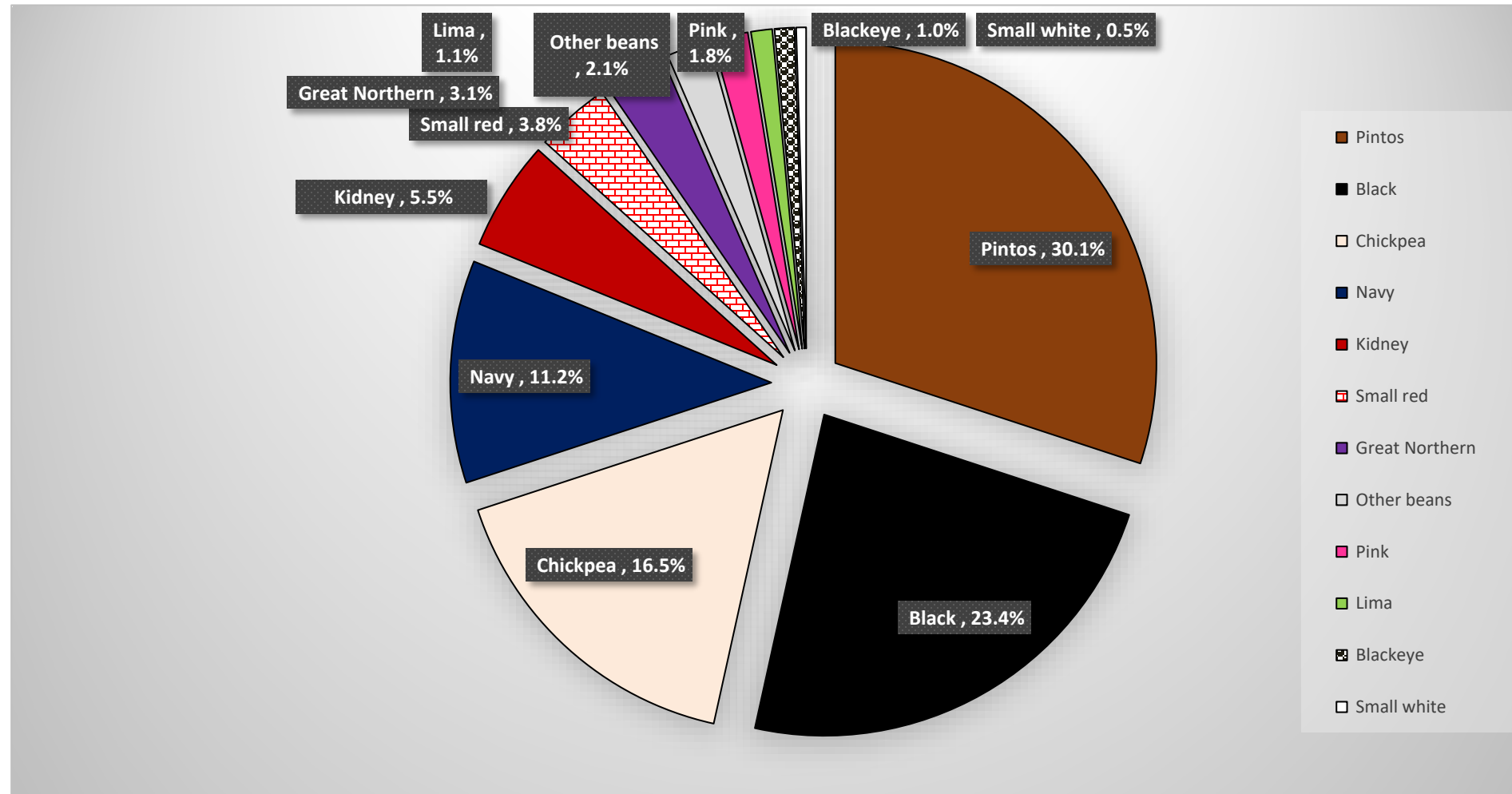
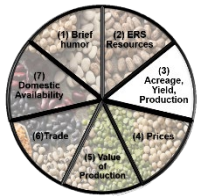


Source: USDA, Economic Research Service using data from FAOStat, Food and Agriculture Organization of the United Nations.

¹/Includes dry beans, Bambara beans, broad beans and horse beans, chickpeas, cowpeas/blackeye peas, and pigeon peas.

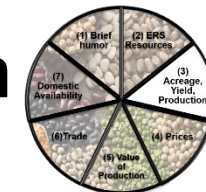


U.S. dry beans¹: Production by class, 2023



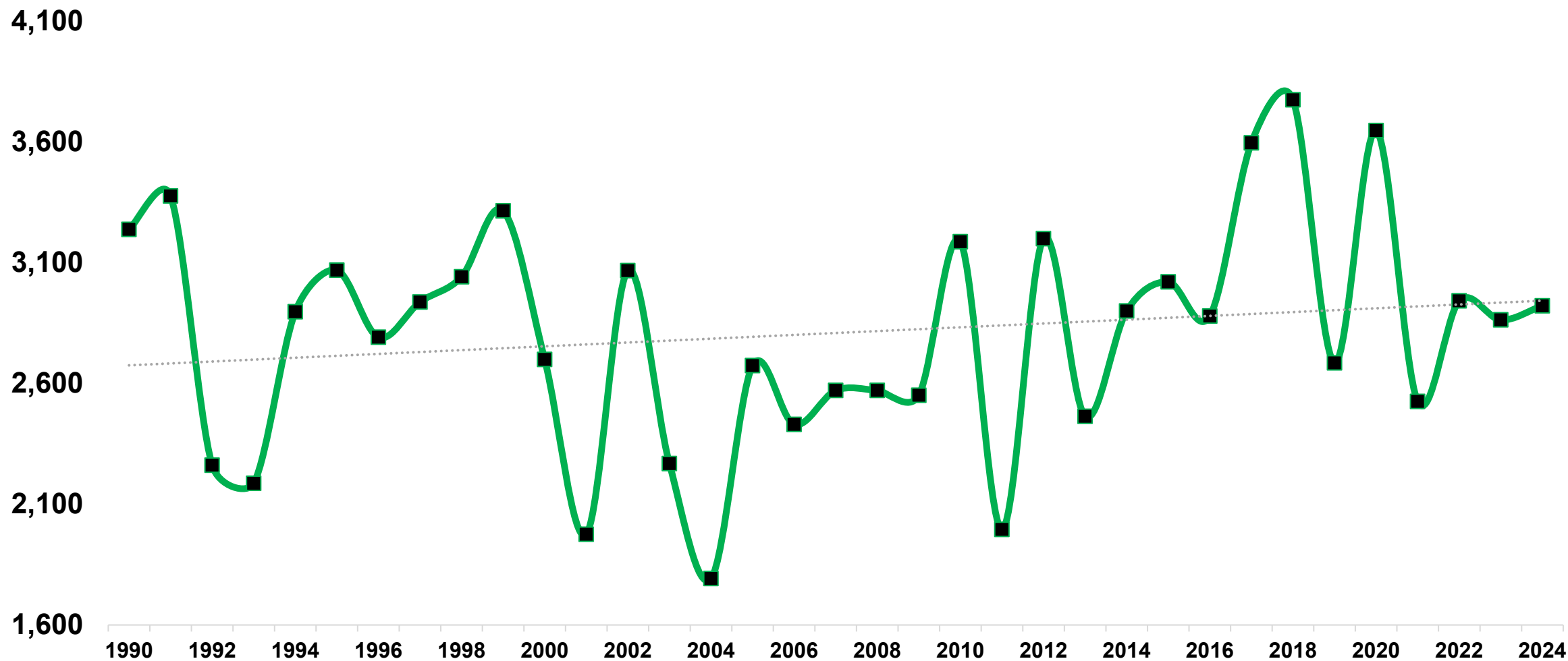
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service
1/Includes chickpeas in all years





U.S. dry beans¹: Production trends higher in the long-term

Million pounds



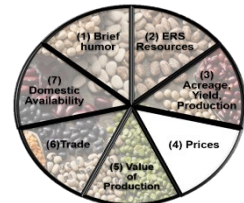
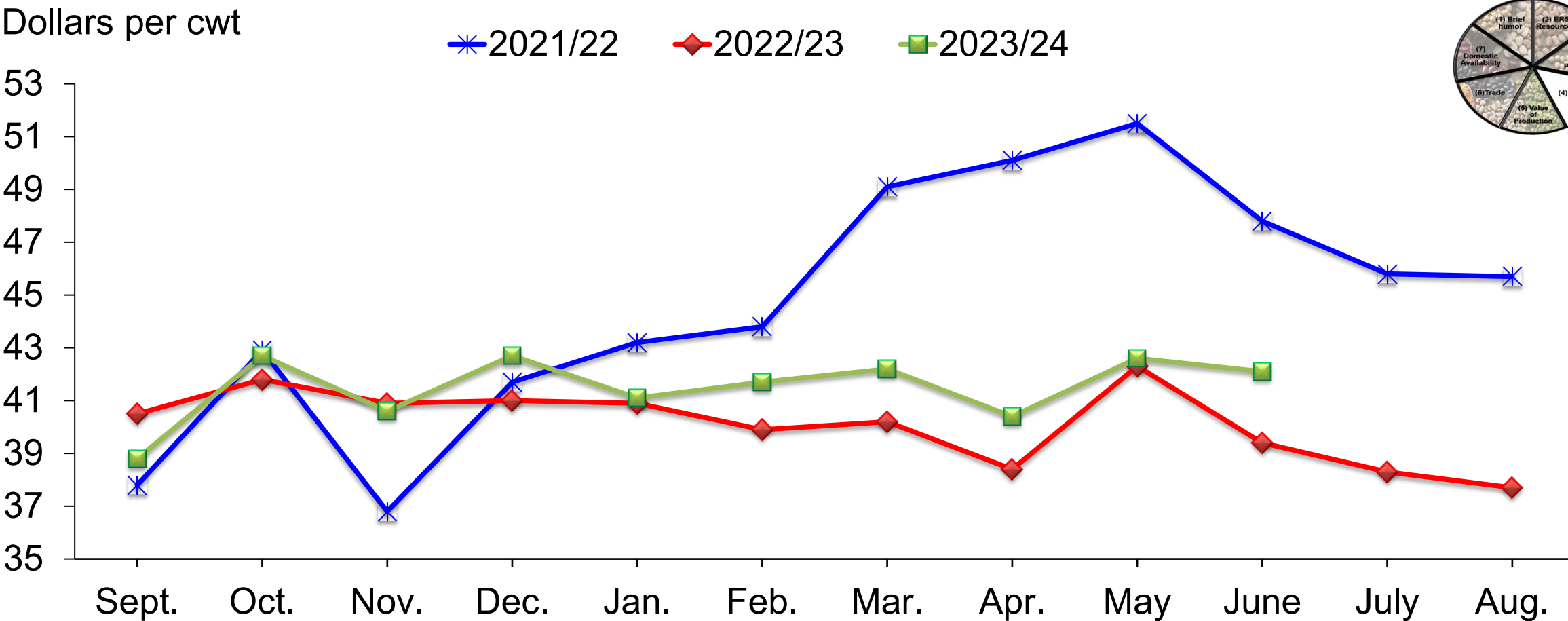
Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service
1/Includes chickpeas in all years



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U.S. dry beans, excluding chickpeas: Monthly grower prices in 2023/24 above previous year but below the high levels experienced in 2021/22



Source: USDA, Economic Research Service calculations using National Agricultural Statistics Service, *Agricultural Prices*.
Note: cwt = hundredweight, a unit of measure equal to 100 pounds.

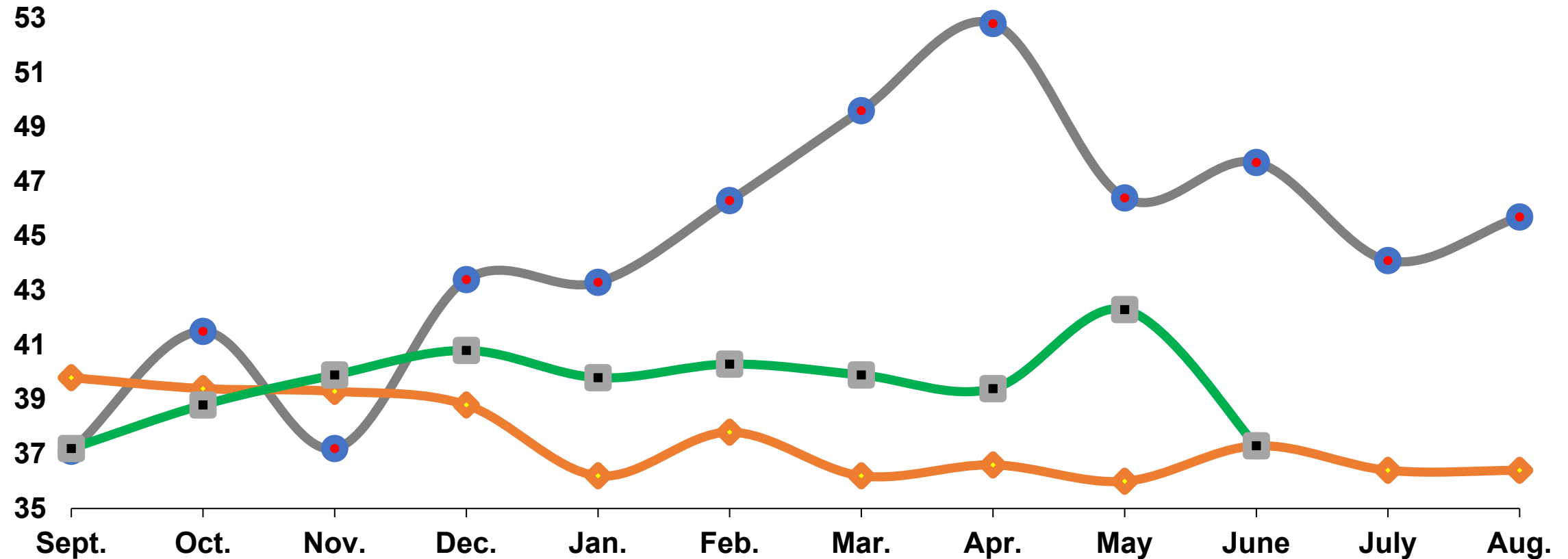


North Dakota dry beans: Monthly grower prices received



● 2021/22 ◆ 2022/23 ■ 2023/24

Dollars per cwt



Source: USDA, Economic Research Service calculations using National Agricultural Statistics Service, *Agricultural Prices*.

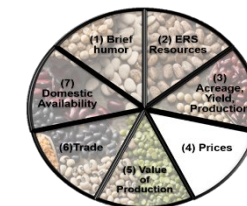
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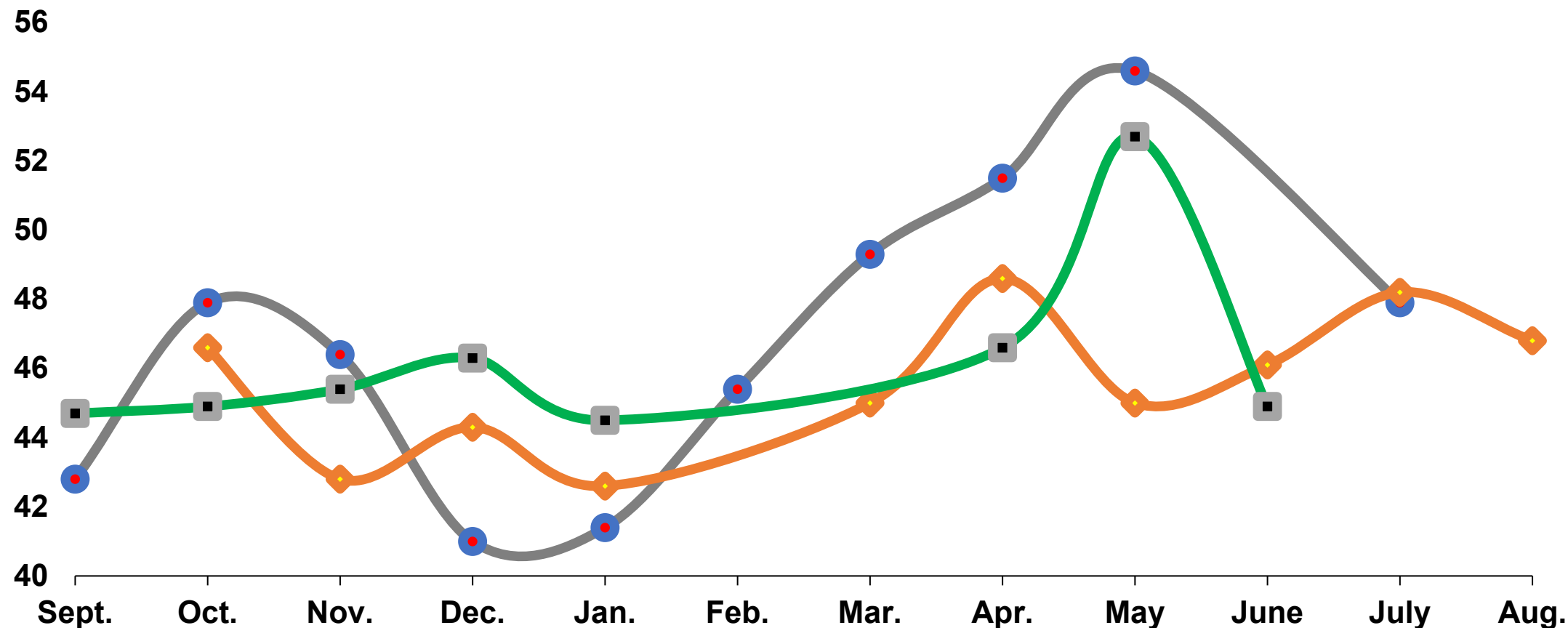


Michigan dry beans: Monthly grower prices received



● 2021/22 ◆ 2022/23 ■ 2023/24

Dollars per cwt



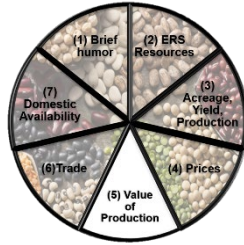
Source: USDA, Economic Research Service calculations using National Agricultural Statistics Service, *Agricultural Prices*.

Note: cwt = hundredweight, a unit of measure equal to 100 pounds.



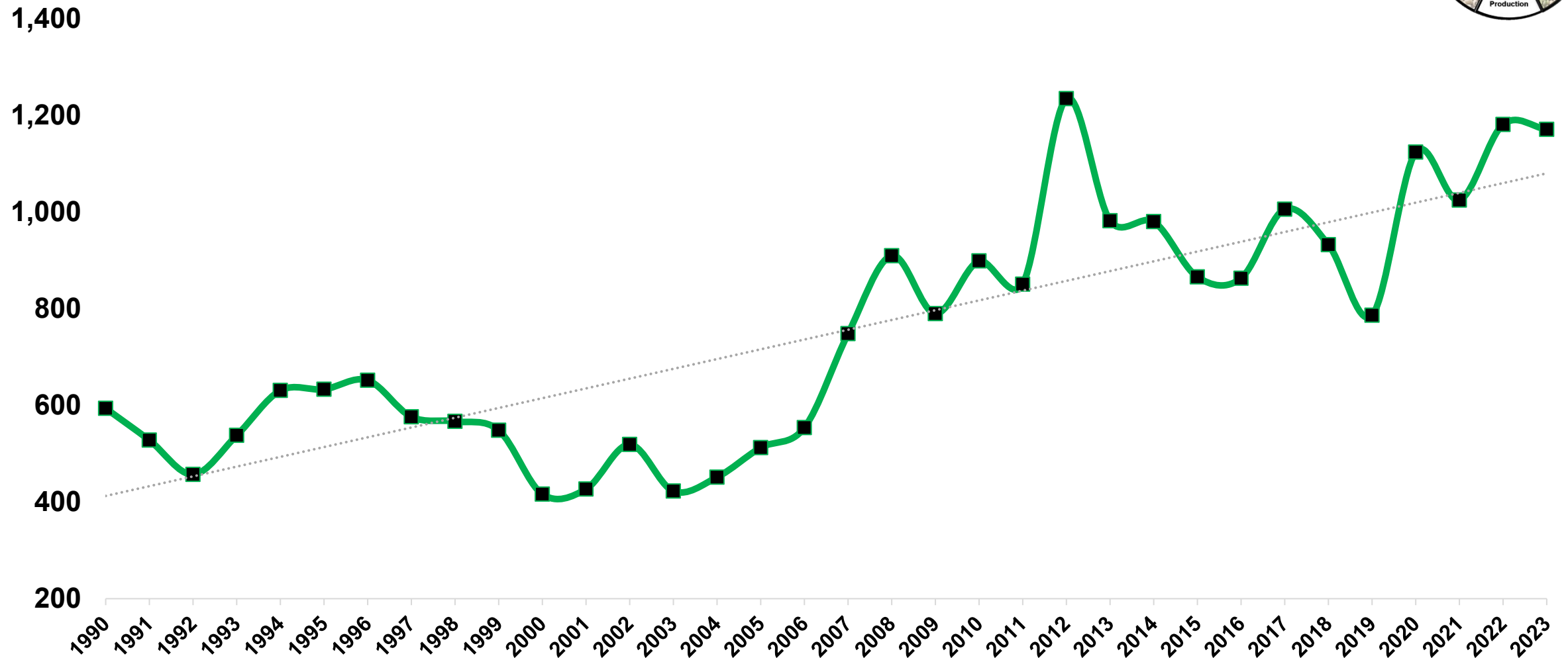
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U.S. dry beans¹: Value of production

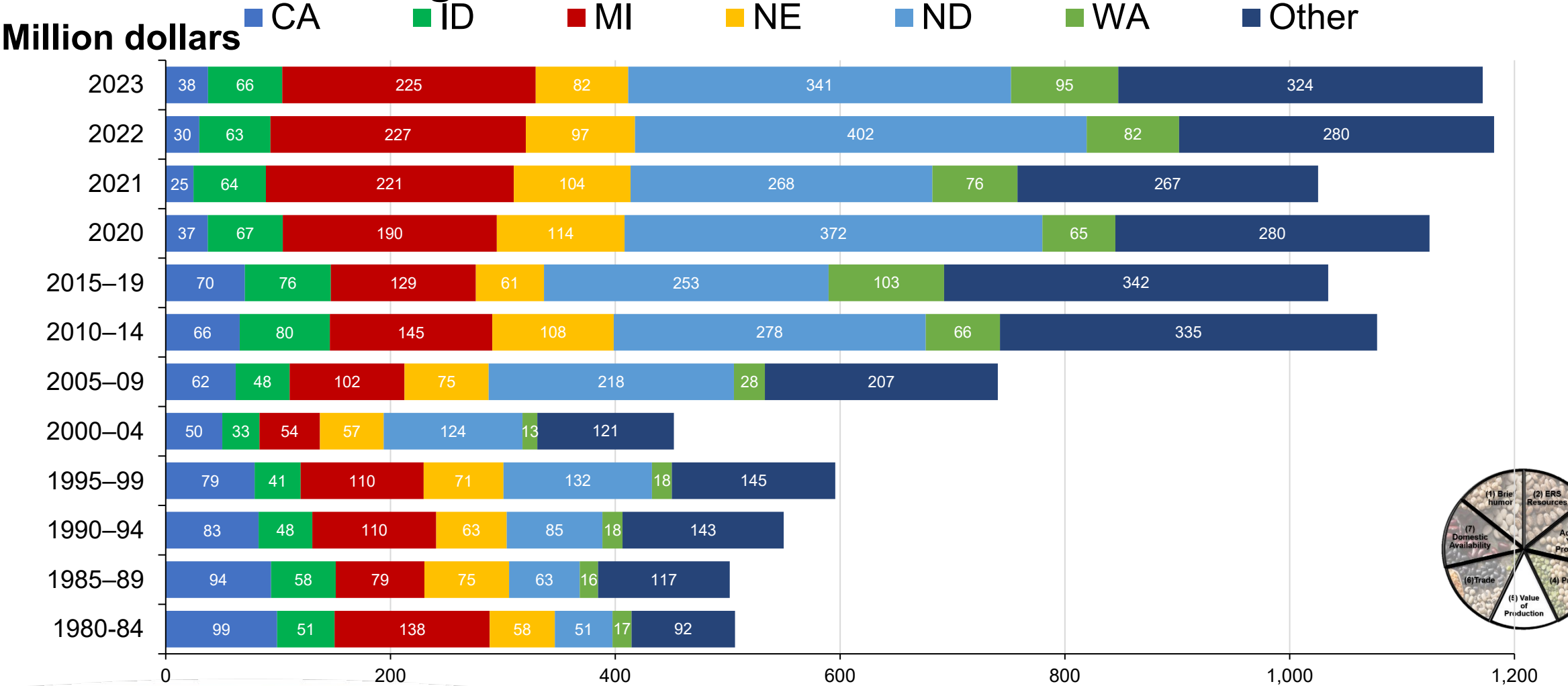
Million dollars



Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service
1/Includes chickpeas in all years

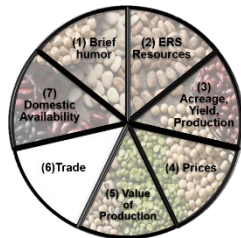


U.S. dry beans¹: State value of production rises in North Dakota, Michigan, Washington, and Idaho while California Shrinks

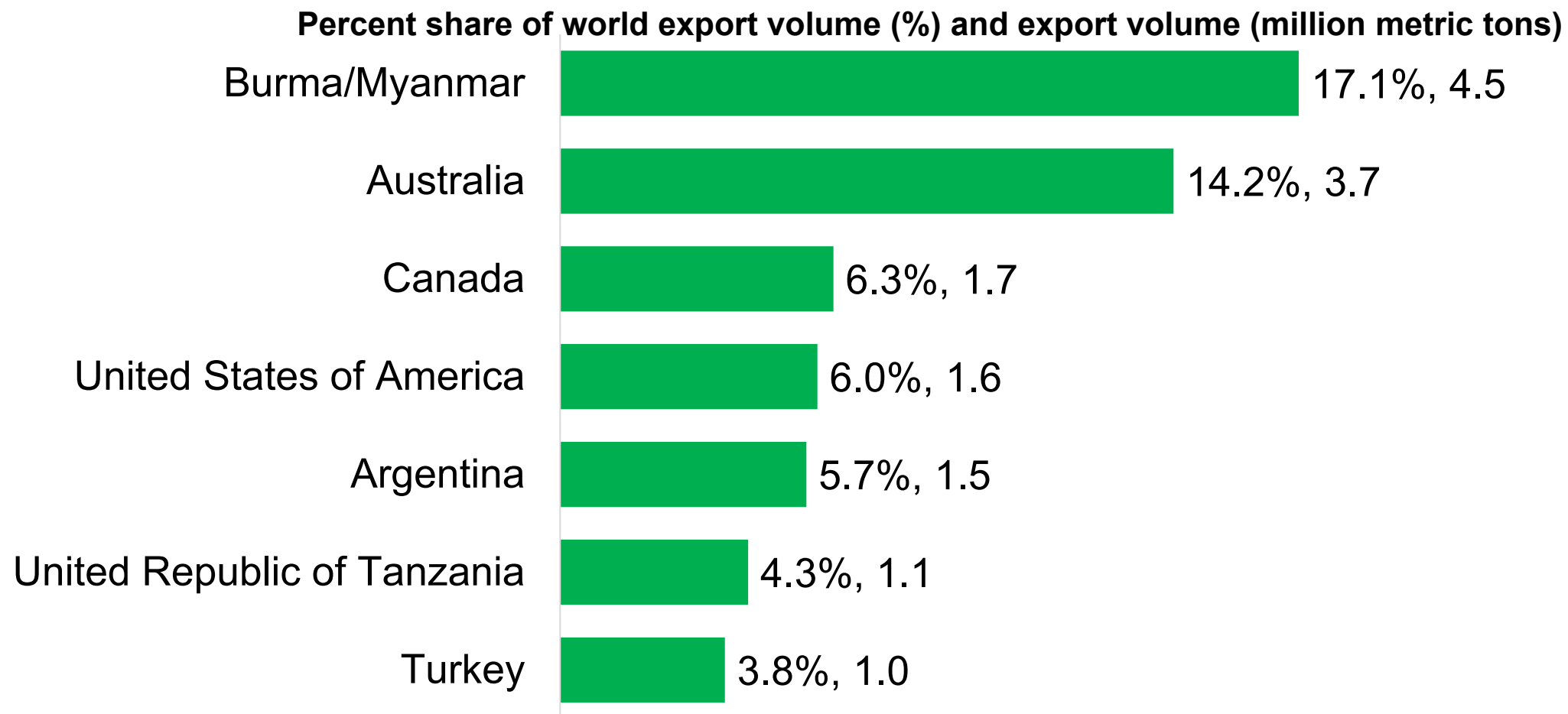


Source: USDA, Economic Research Service using data from USDA, National Agricultural Statistics Service
1/Includes chickpeas in all years





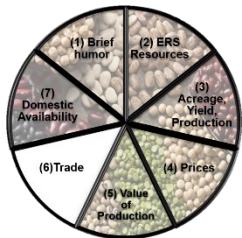
Top world dry bean¹ exporters, 2020–2022



Source: USDA, Economic Research Service using data from FAOStat, Food and Agriculture Organization of the United Nations.

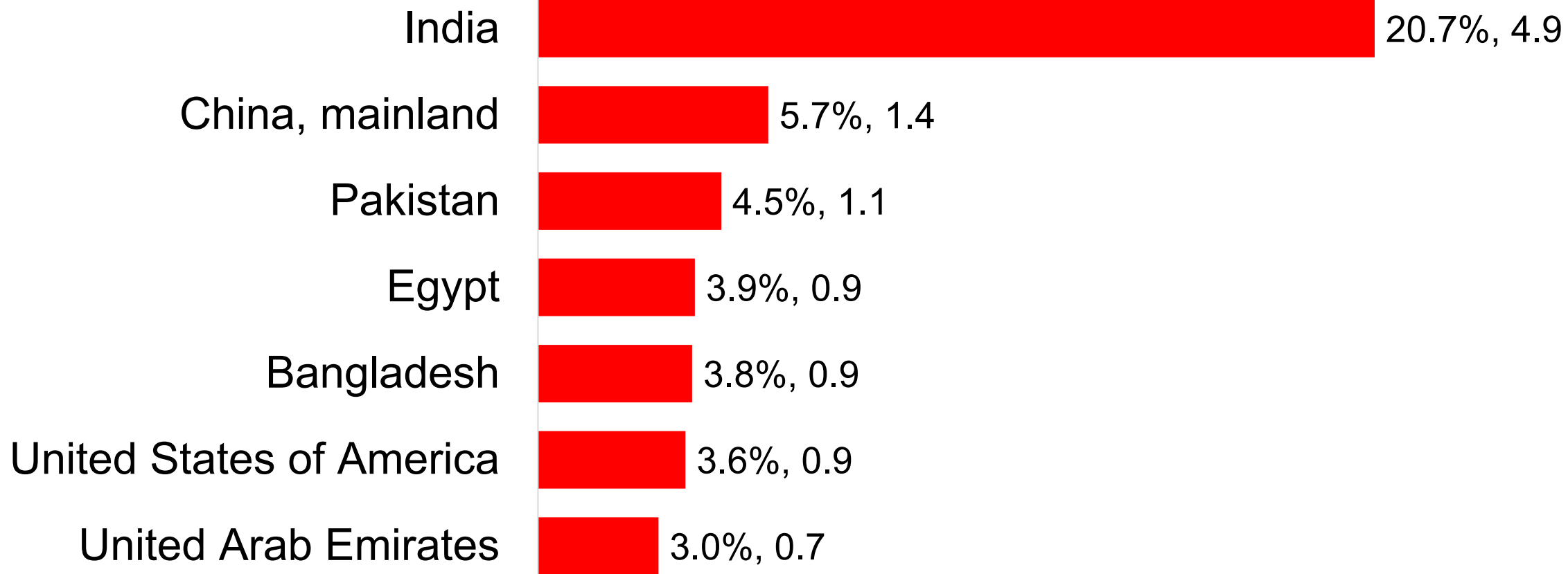
¹/Includes dry beans, Bambara beans, broad beans and horse beans, chickpeas, cowpeas/blackeye peas, and pigeon peas.





Top world dry bean¹ importers, 2020–2022

Percent share of world import volume (%) and import volume (million metric tons)



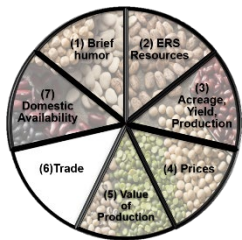
Source: USDA, Economic Research Service using data from FAOStat, Food and Agriculture Organization of the United Nations.

¹/Includes dry beans, Bambara beans, broad beans and horse beans, chickpeas, cowpeas/blackeye peas, and pigeon peas.



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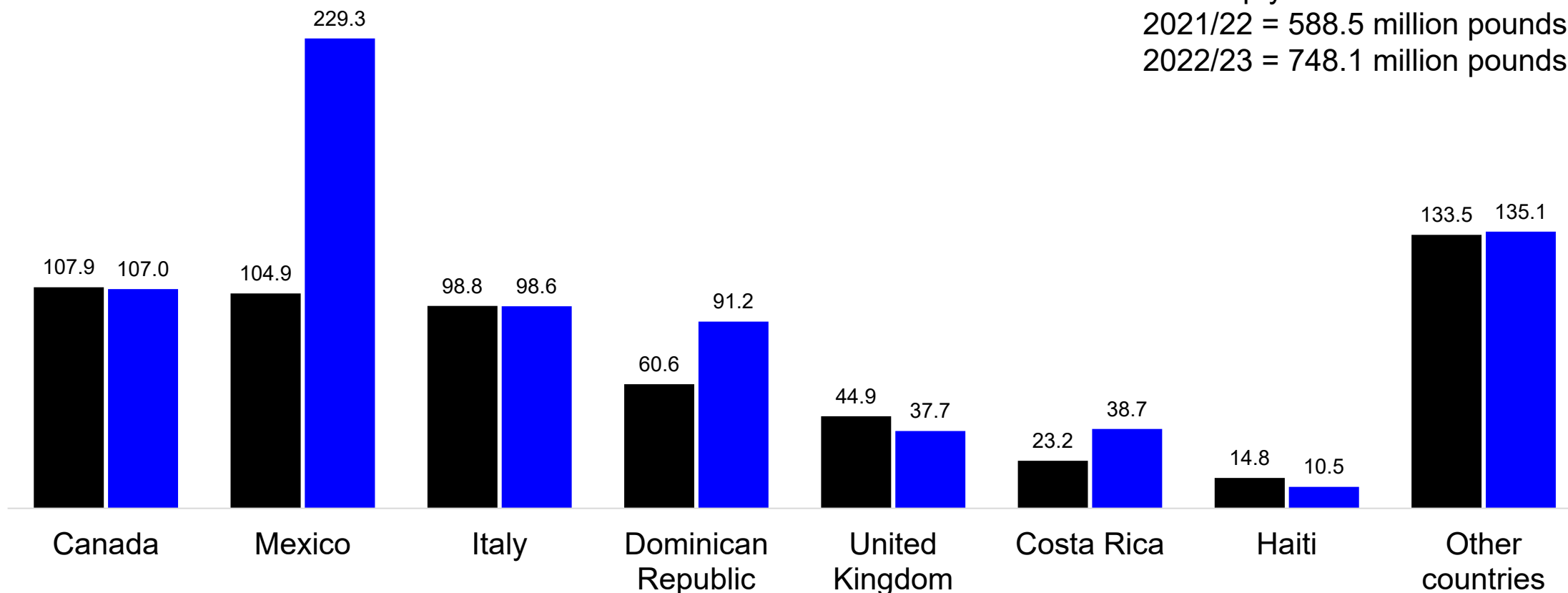




U.S. dry bean crop year export volume: Top markets

■ 2021/22 ■ 2022/23

Full crop years
2021/22 = 588.5 million pounds
2022/23 = 748.1 million pounds

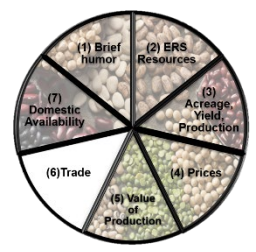


Source: USDA, Economic Research Service using data from U.S. Department of Commerce, Bureau of the Census.
Note: Excludes chickpeas



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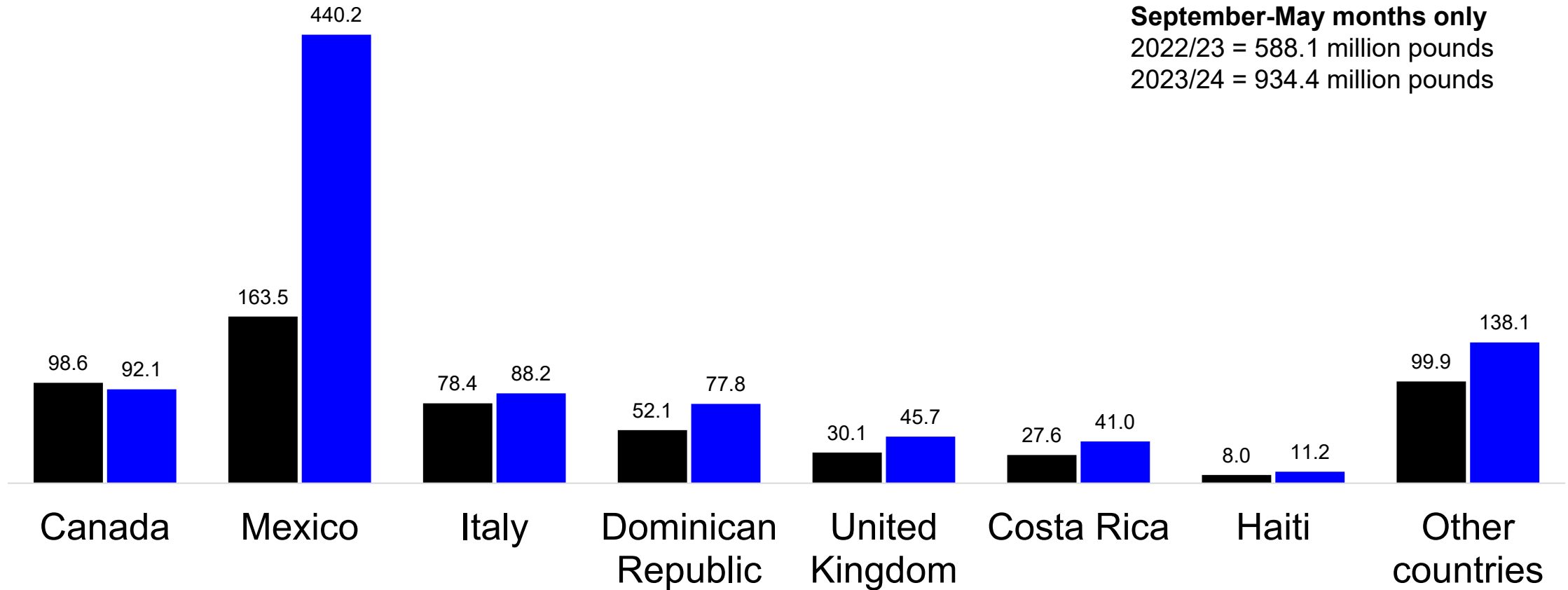




U.S. dry bean crop year export volume: Top markets

■ 2022/23 ■ 2023/24

September-May months only
2022/23 = 588.1 million pounds
2023/24 = 934.4 million pounds

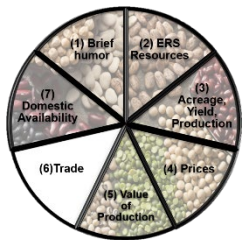


Source: USDA, Economic Research Service using data from U.S. Department of Commerce, Bureau of the Census.
Note: Excludes chickpeas



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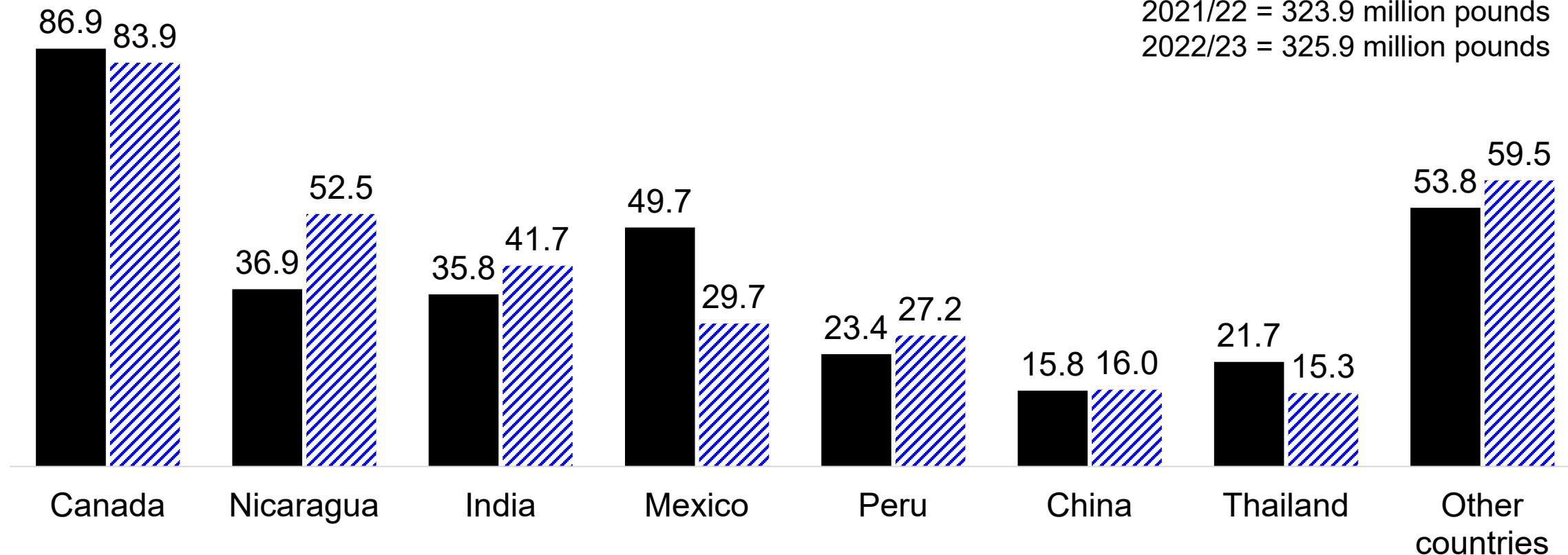




U.S. dry bean crop year import volume: Top markets

■ 2021/22 ▨ 2022/23

Full crop years
2021/22 = 323.9 million pounds
2022/23 = 325.9 million pounds

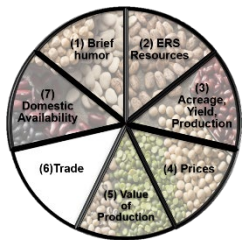


Source: USDA, Economic Research Service using data from U.S. Department of Commerce, Bureau of the Census.
Note: Excludes chickpeas



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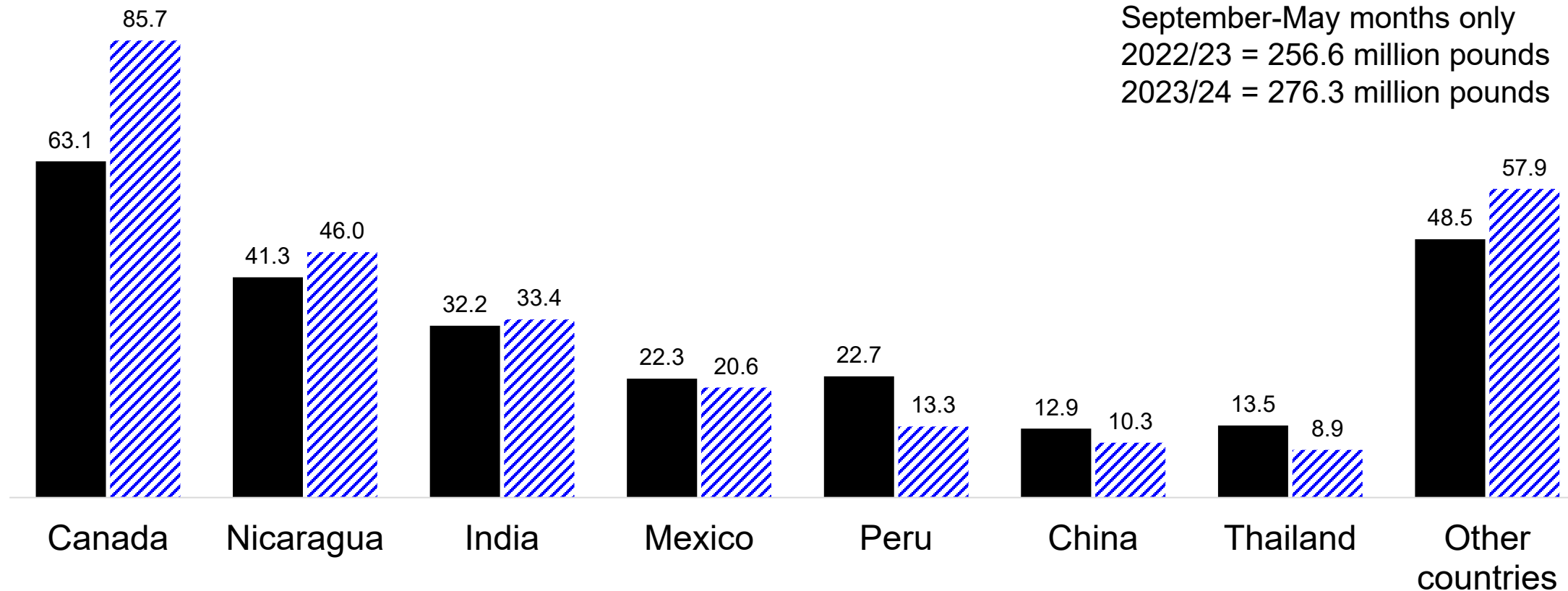




U.S. dry bean crop year import volume: Top markets

■ 2022/23 ▨ 2023/24

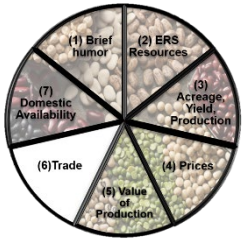
September-May months only
2022/23 = 256.6 million pounds
2023/24 = 276.3 million pounds



Source: USDA, Economic Research Service using data from U.S. Department of Commerce, Bureau of the Census.
Note: Excludes chickpeas

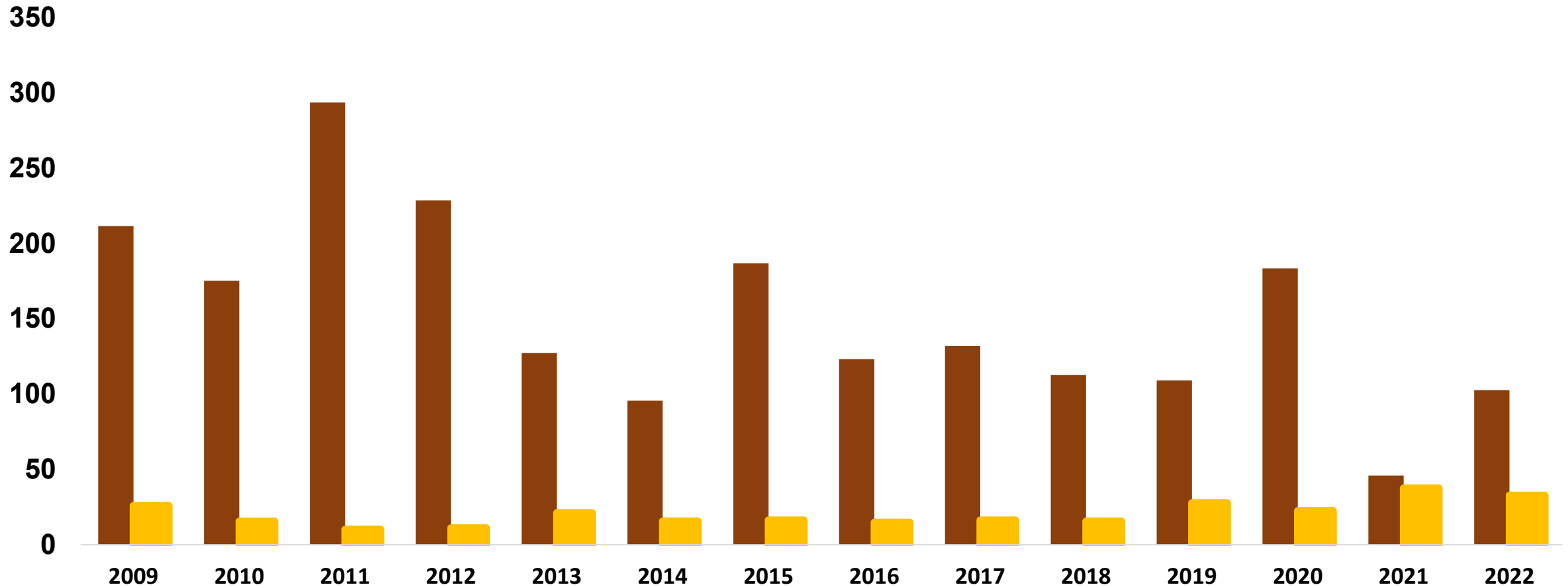


U.S. pinto beans: Crop year trade volume



Million pounds

■ Exports (million pounds) ■ Imports (million pounds)



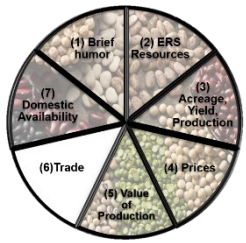
Source: U.S. Department of Commerce, Bureau of the Census.



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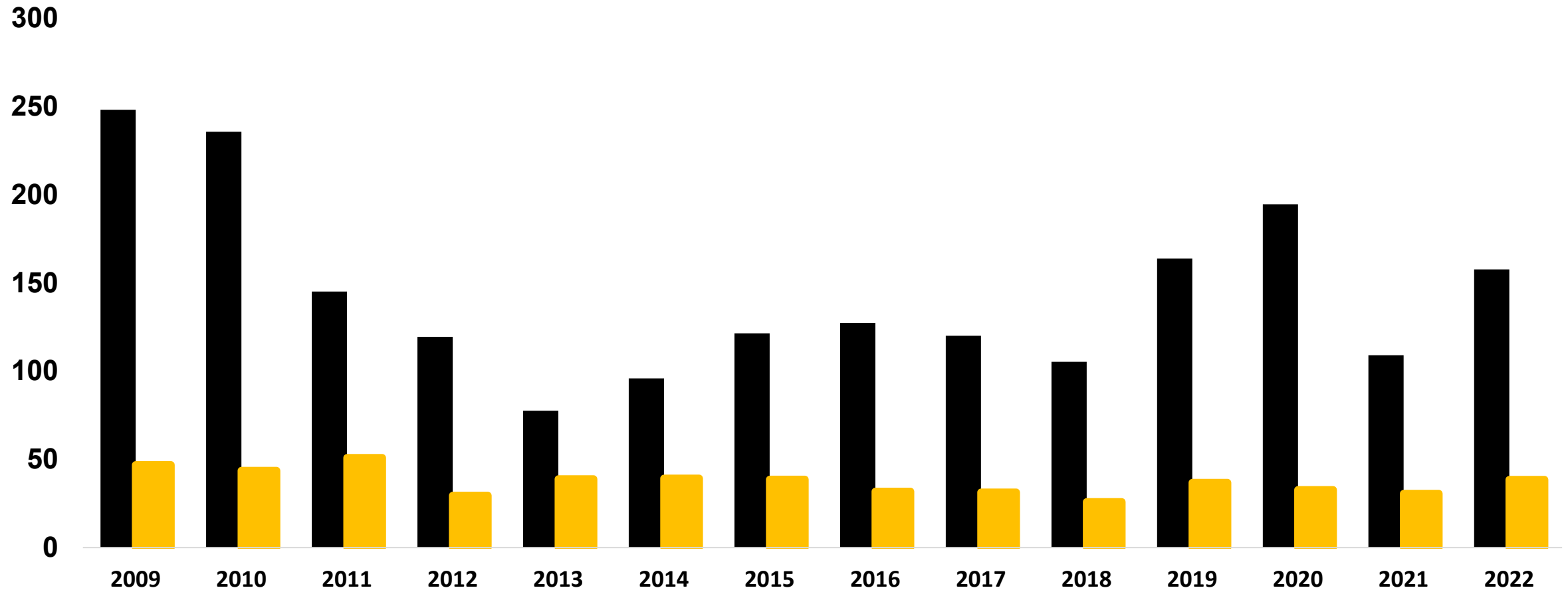


U.S. black beans: Crop year trade volume



Million pounds

■ Exports (million pounds) ■ Imports (million pounds)



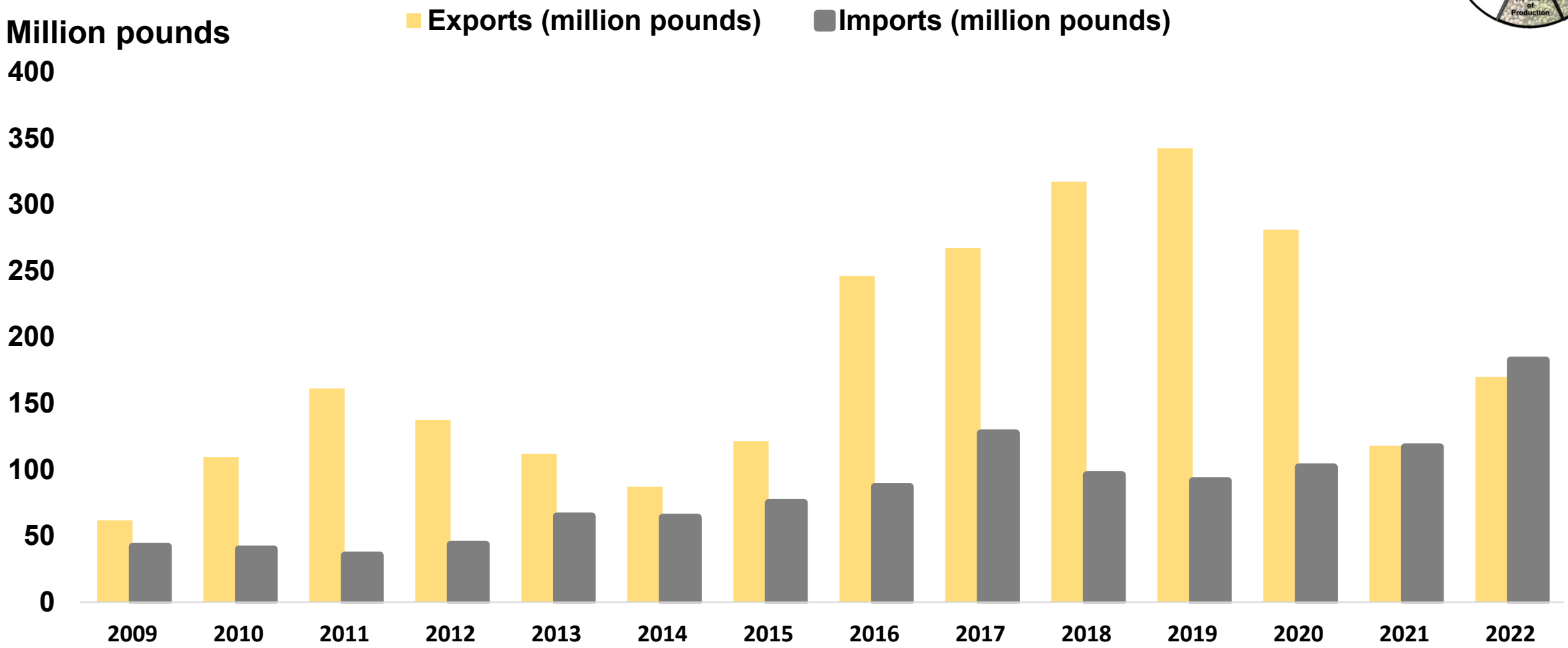
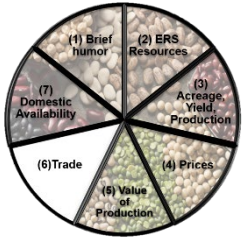
Source: U.S. Department of Commerce, Bureau of the Census.



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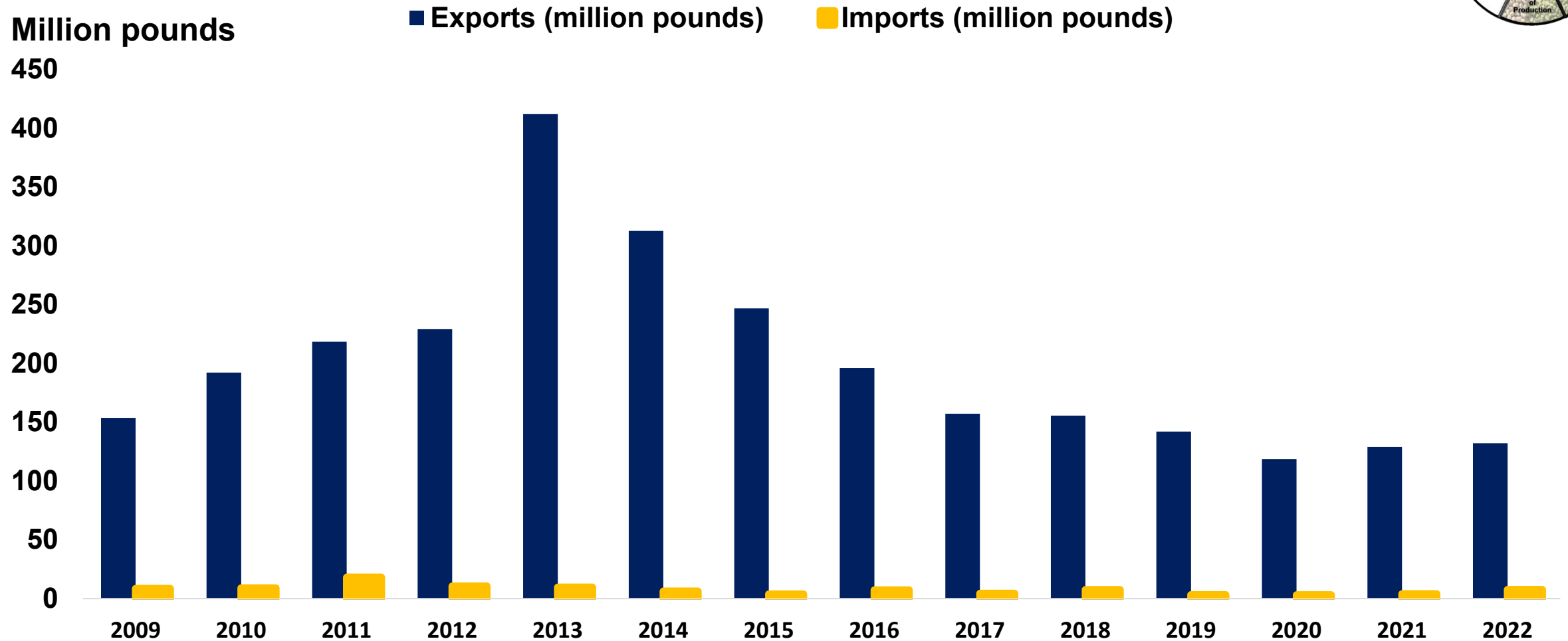
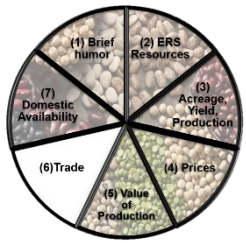
U.S. chickpeas: Crop year trade volume



Source: U.S. Department of Commerce, Bureau of the Census.



U.S. navy beans: Crop year trade volume



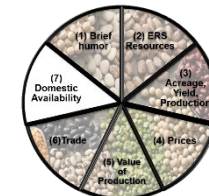
Source: U.S. Department of Commerce, Bureau of the Census.



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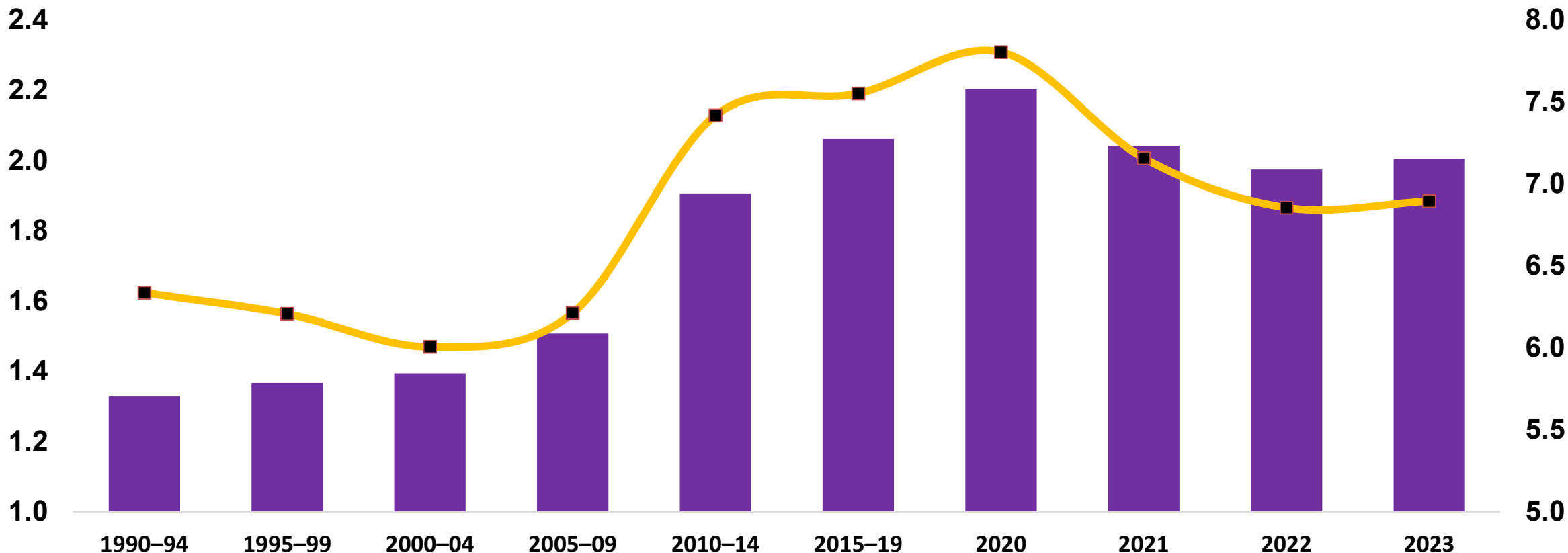
U.S. dry beans: Domestic and per capita availability



■ Domestic availability (left axis - billion pounds) ■ Per capita availability (right axis - pounds per person)

Billion pounds

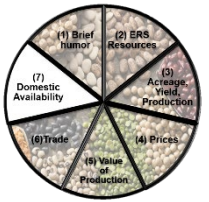
Pounds per person



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Source: USDA, Economic Research Service



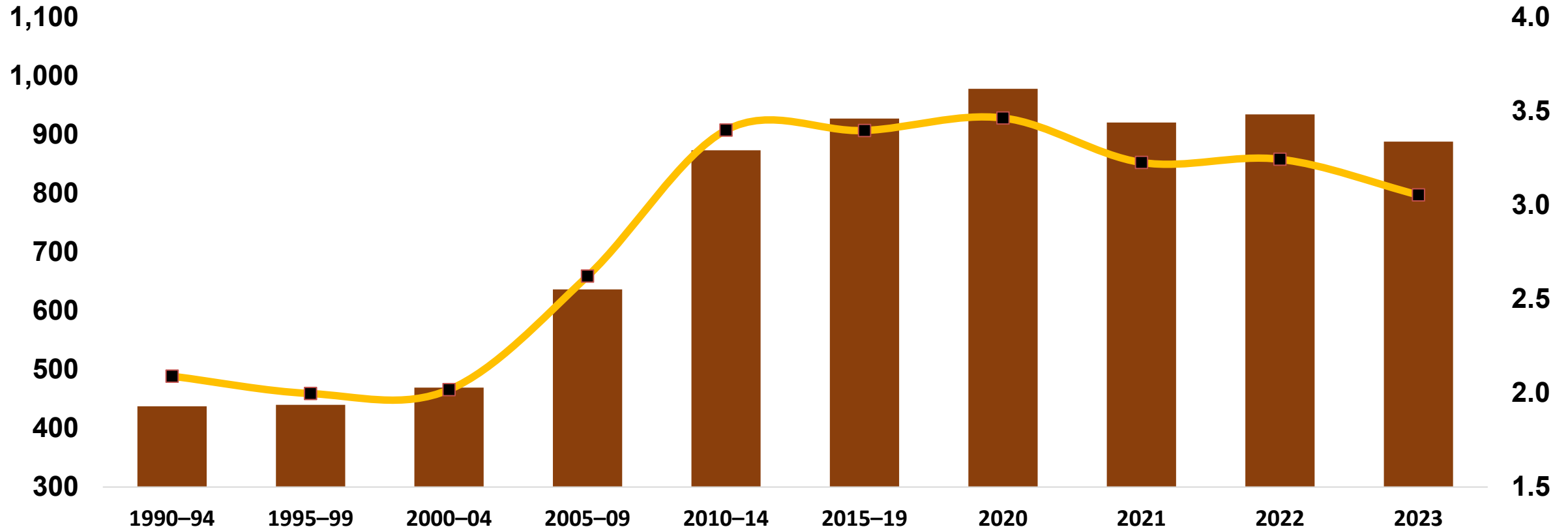


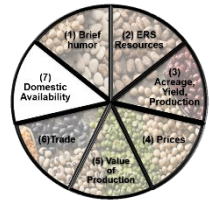
U.S. pinto beans: Domestic and per capita availability

■ Domestic availability (left axis - million pounds) ■ Per capita availability (right axis - pounds per person)

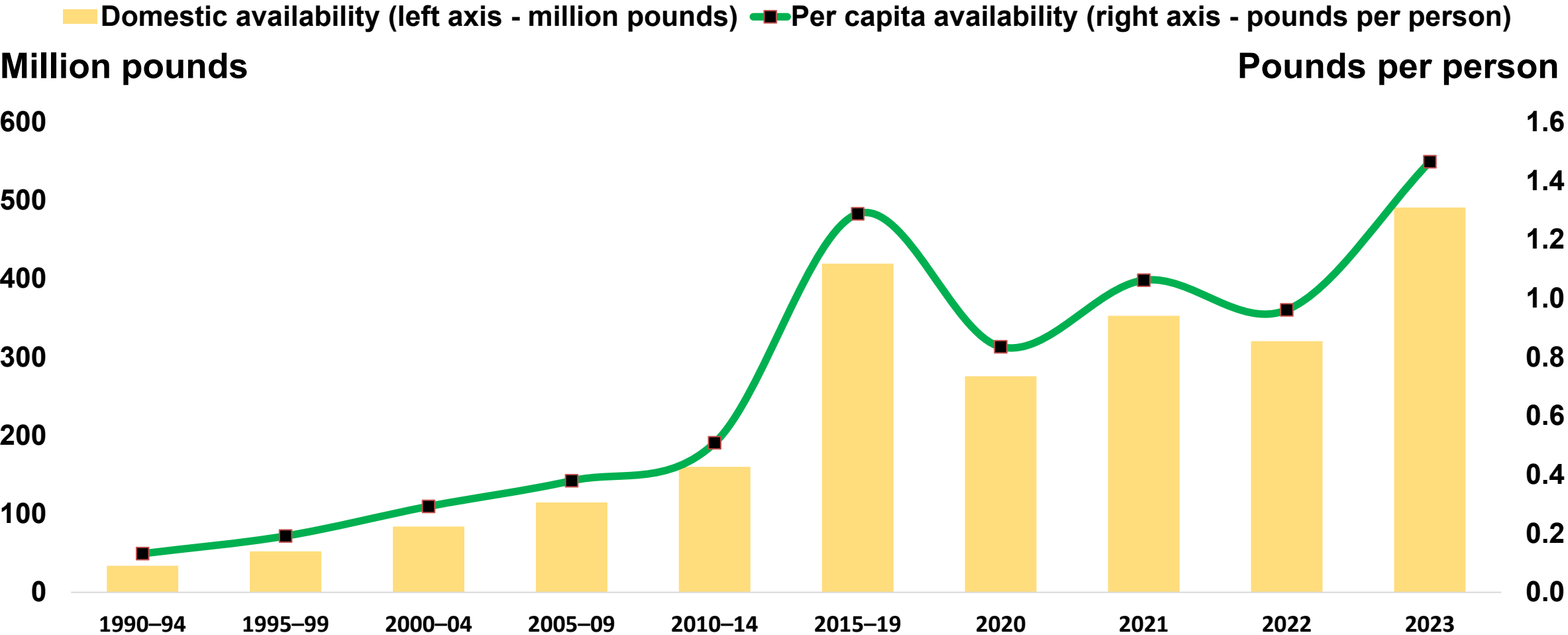
Million pounds

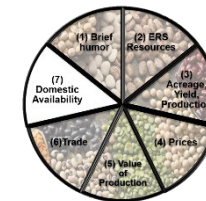
Pounds per person



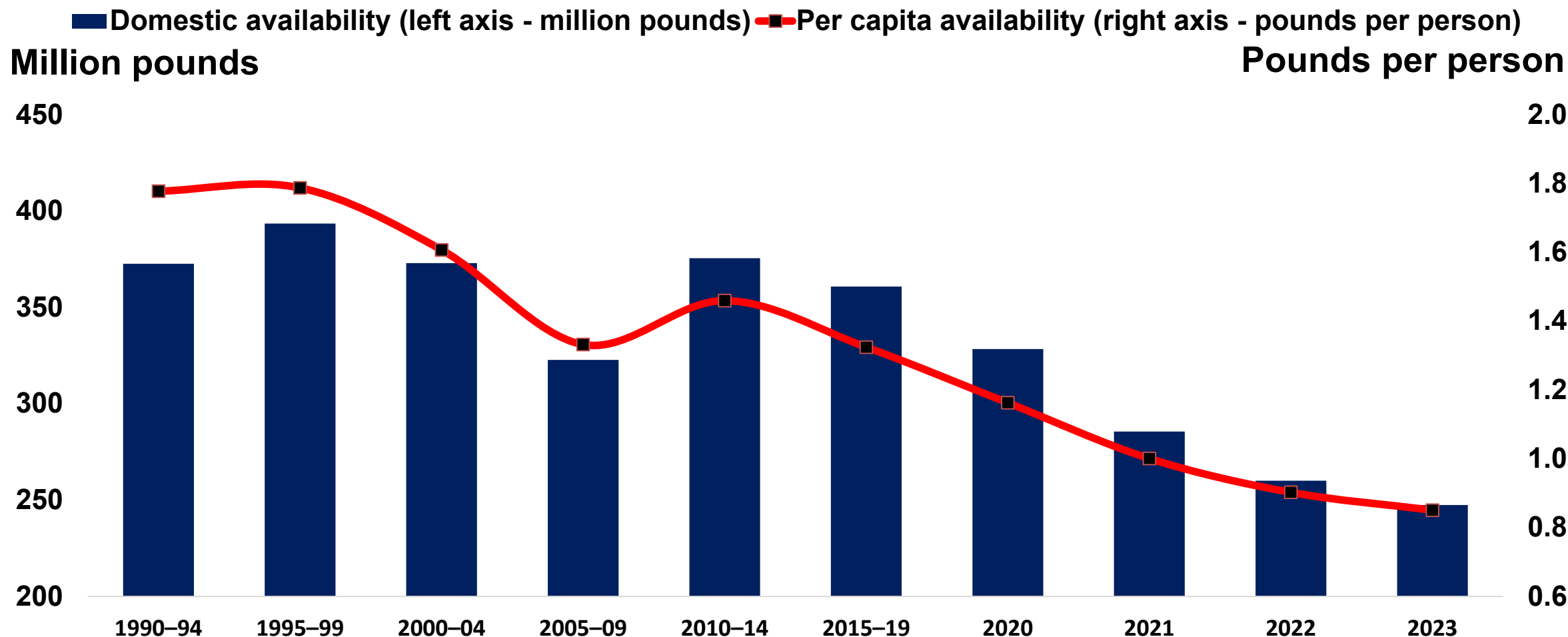


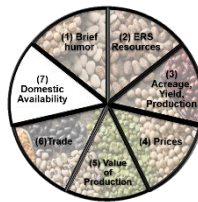
U.S. chickpeas: Domestic and per capita availability





U.S. navy beans: Domestic and per capita availability



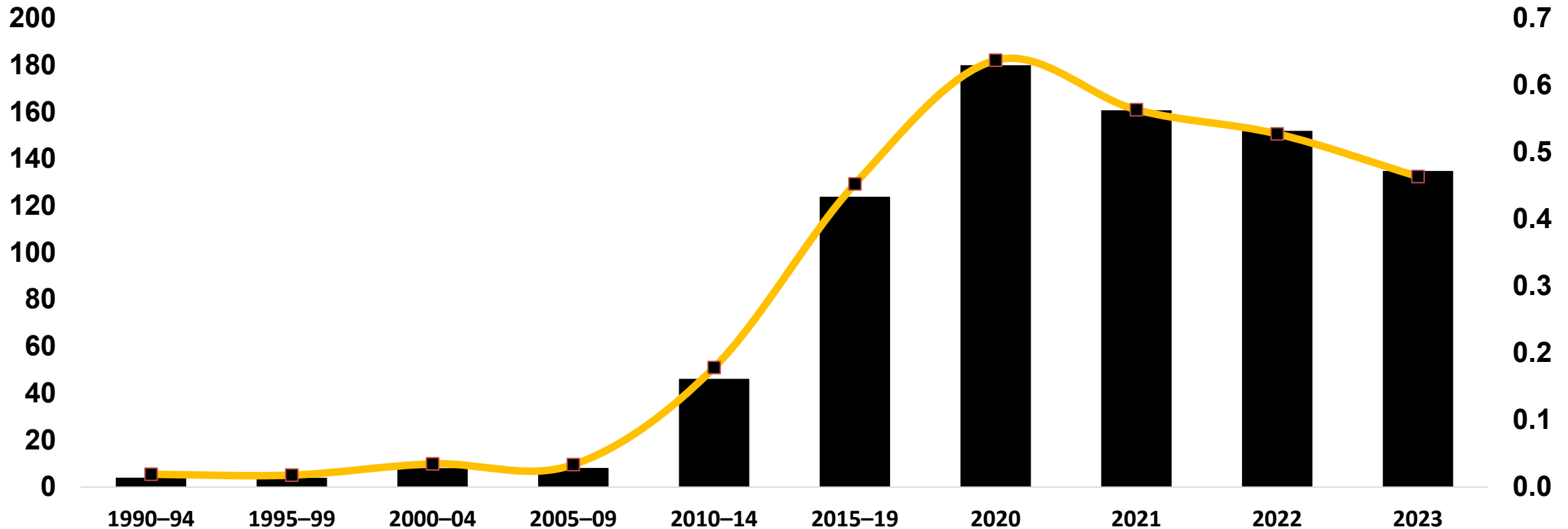


U.S. black beans: Domestic and per capita availability

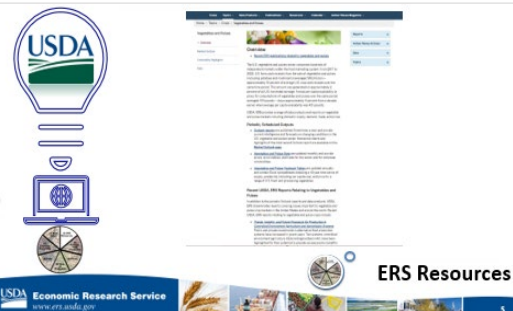
■ Domestic availability (left axis - million pounds) ■ Per capita availability (right axis - pounds per person)

Million pounds

Pounds per person

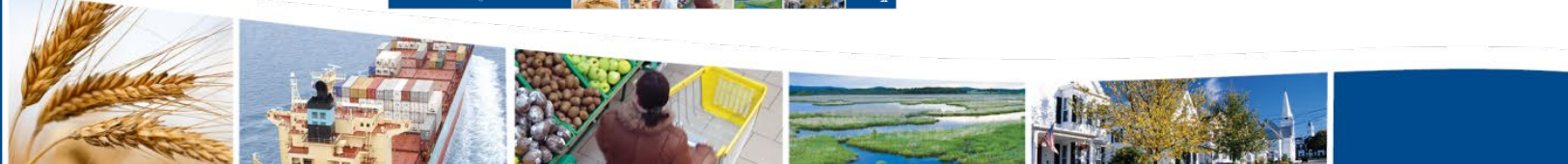
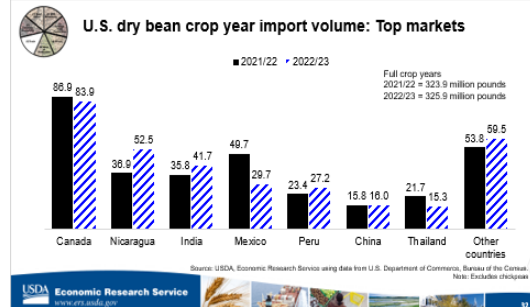
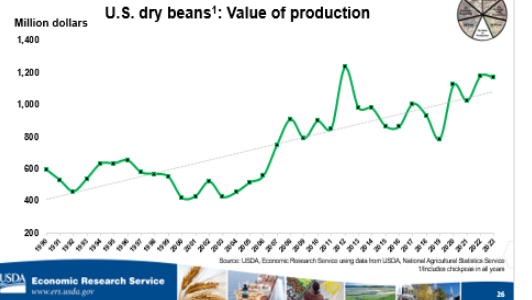
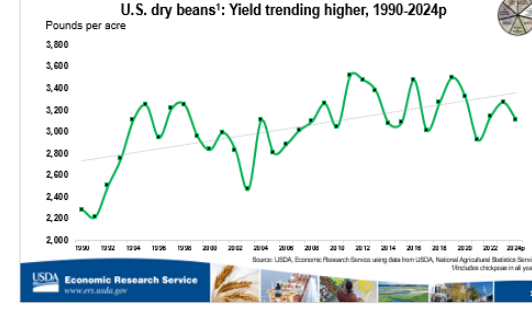
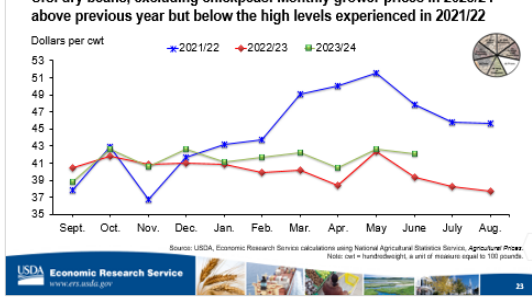
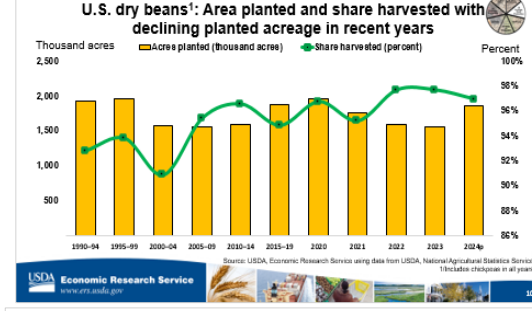
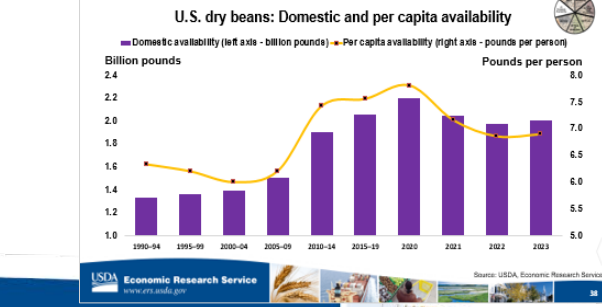
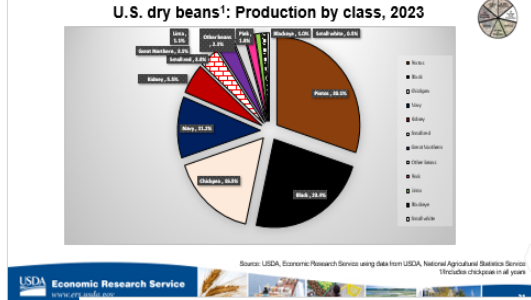
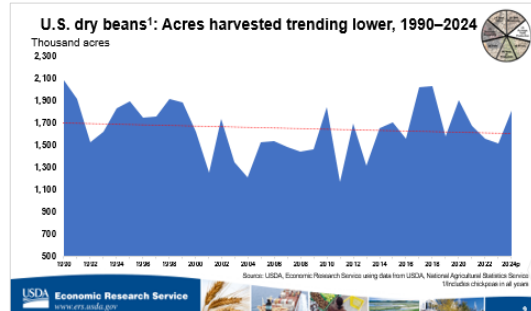
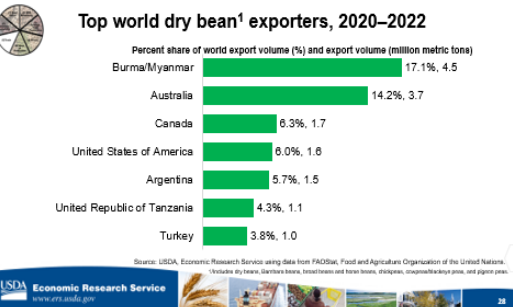
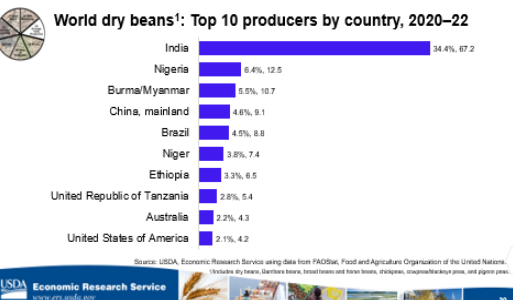


Recap, Resources, and Reach Out



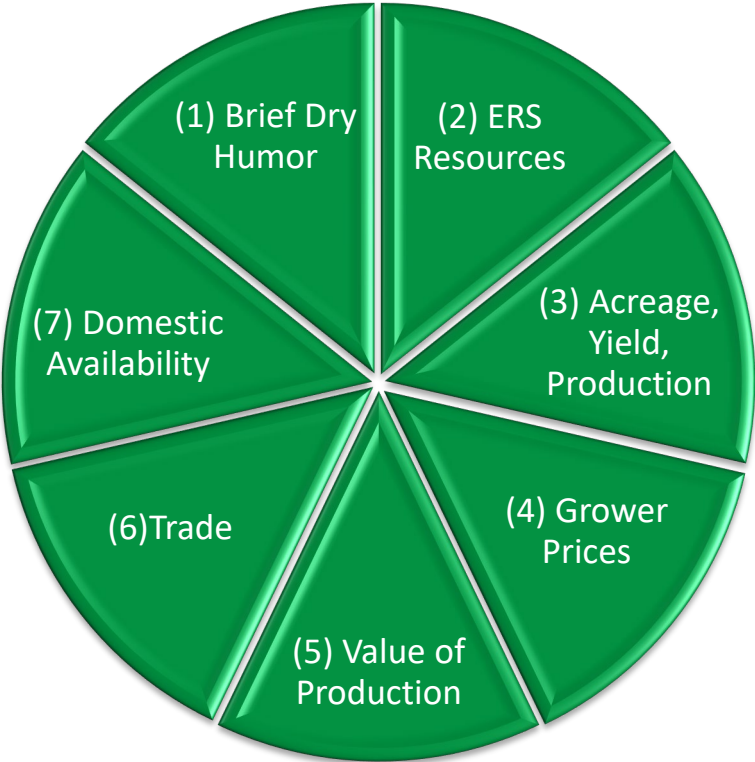
ERS Resources

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Recap, Resources, and Reach Out

Wilma V. Davis – Vegetables and Pulses Outlook Coordinator – Wilma.Davis@usda.gov



Vegetables and Pulses Resources

A large QR code with a blue border, located within a dark blue rounded rectangle. Above the QR code is the text "Vegetables and Pulses Resources".

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vegetables-and-pulses-data/](http://www.ers.usda.gov/data-products/vegetables-and-pulses-data/)



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Wilma V. Davis

Wilma.Davis@usda.gov



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