



# Mushrooms

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## All Mushroom Value of Sales at \$1.09 Billion

Volume of sales of the 2023-2024 United States mushroom crop totaled 659 million pounds, down 9 percent from last season. Value of sales for the 2023-2024 United States mushroom crop was \$1.09 billion, down 4 percent from the previous season. The average reported price was \$1.65 per pound, up 9 cents from the previous year.

## Agaricus and Specialty Mushroom Sales, Price, and Value – United States: 2021-2022, 2022-2023, and 2023-2024

[For 2021-2022 and 2022-2023, includes California, Florida, Illinois, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas. For 2023-2024, includes California, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas]

Year	All sales		
	Volume of sales	Price per pound <sup>1</sup>	Value of sales
	(1,000 pounds)	(dollars)	(1,000 dollars)
2021-2022 .....	702,391	1.45	1,018,281
2022-2023 .....	724,608	1.56	1,128,484
2023-2024 .....	658,739	1.65	1,088,003

<sup>1</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

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## Contents

Agaricus Mushroom Area in Production and Yield – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	4
Agaricus Mushroom Sales, Dollar Volume per Square Foot of Growing Area, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	4
Agaricus Mushroom Fresh Market Sales, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	5
Agaricus Mushroom Processing Sales, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	5
Brown Mushrooms (Portabello and Crimini) Sales, Price, and Value – United States: 2021-2022, 2022-2023, and 2023-2024 .....	6
Agaricus Mushroom Growing Area Intended for Production by Utilization – States and United States: July 2024-June 2025 .....	6
Specialty Mushroom Area in Production by Variety – United States: 2021-2022, 2022-2023, and 2023-2024.....	7
Specialty Mushroom Total Production, Volume of Sales, Price, and Value of Sales by Variety – United States: 2021-2022, 2022-2023, and 2023-2024 .....	7
Certified Organic Mushroom Production and Volume of Sales by Variety – United States: 2021-2022, 2022-2023, and 2023-2024 .....	8
Mushroom Comments.....	9
Statistical Methodology .....	10
Information Contacts .....	10

**Agaricus Mushroom Area in Production and Yield – States and United States: 2021-2022, 2022-2023, and 2023-2024**

State	Area in production						Yield per square foot		
	Growing area			Total filings			2021-2022	2022-2023	2023-2024
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024			
	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)	(pounds)	(pounds)	(pounds)
California .....	1,663	1,591	1,352	12,912	12,611	10,207	5.71	6.54	6.63
Pennsylvania .....	15,254	15,378	17,209	74,770	78,426	93,280	5.97	5.94	4.73
Other States <sup>1</sup> .....	3,845	4,070	3,740	26,749	28,426	21,894	5.96	5.45	6.11
United States .....	20,762	21,039	22,301	114,431	119,462	125,381	5.94	5.89	5.13

<sup>1</sup> For 2021-2022 and 2022-2023, Other States include Florida, Illinois, Maryland, Oklahoma, Tennessee, and Texas. For 2023-2024, Other States include Maryland, Oklahoma, Tennessee, and Texas.

**Agaricus Mushroom Sales, Dollar Volume per Square Foot of Growing Area, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024**

State	Volume of sales			Dollar volume per square foot			Price per pound <sup>1</sup>			Value of sales		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(dollar)	(dollar)	(dollar)	(dollar)	(dollar)	(dollar)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
California .....	73,780	82,515	67,706	13.41	16.01	18.32	2.35	2.45	2.76	173,143	201,945	187,011
Pennsylvania .....	446,586	465,785	441,303	6.14	6.76	5.72	1.03	1.14	1.21	459,389	530,184	534,002
Other States <sup>2</sup> .....	159,522	154,807	133,822	11.16	10.66	12.80	1.87	1.96	2.09	298,398	302,990	280,238
United States .....	679,888	703,108	642,831	8.14	8.66	7.99	1.37	1.47	1.56	930,930	1,035,119	1,001,250

<sup>1</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>2</sup> For 2021-2022 and 2022-2023, Other States include Florida, Illinois, Maryland, Oklahoma, Tennessee, and Texas. For 2023-2024, Other States include Maryland, Oklahoma, Tennessee, and Texas.

**Agaricus Mushroom Fresh Market Sales, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024**

State	Volume of sales			Price per pound <sup>1</sup>			Value of sales		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
Pennsylvania .....	387,884	370,910	365,925	1.09	1.25	1.32	420,922	464,851	482,497
Other States <sup>2</sup> .....	227,976	234,093	198,273	2.04	2.15	2.34	464,847	502,572	464,830
United States .....	615,860	605,003	564,198	1.44	1.60	1.68	885,769	967,423	947,327

<sup>1</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>2</sup> For 2021-2022 and 2022-2023, Other States includes California, Florida, Illinois, Maryland, Oklahoma, Tennessee, and Texas. For 2023-2024, Other States includes California, Maryland, Oklahoma, Tennessee, and Texas.

**Agaricus Mushroom Processing Sales, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024**

State	Volume of sales			Price per pound <sup>1</sup>			Value of sales		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
Pennsylvania .....	58,702	94,876	75,378	0.655	0.689	0.683	38,467	65,333	51,505
Other States <sup>2</sup> .....	5,326	3,229	3,255	1.260	0.732	0.743	6,694	2,364	2,419
United States .....	64,028	98,104	78,633	0.705	0.690	0.686	45,161	67,696	53,923

<sup>1</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>2</sup> For 2021-2022 and 2022-2023, Other States includes California, Florida, Illinois, Maryland, Oklahoma, Tennessee, and Texas. For 2023-2024, Other States includes California, Maryland, Oklahoma, Tennessee, and Texas.

**Brown Mushrooms (Portabello and Crimini) Sales, Price, and Value – United States: 2021-2022, 2022-2023, and 2023-2024**

[Brown mushrooms are part of Agaricus mushrooms. For 2021-2022 and 2022-2023, includes California, Florida, Illinois, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas. For 2023-2024, includes California, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas]

State	Volume of sales			Price per pound <sup>1</sup>			Value		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
United States .....	202,568	215,789	181,118	1.67	1.83	1.88	337,726	395,140	341,175

<sup>1</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

**Agaricus Mushroom Growing Area Intended for Production by Utilization – States and United States: July 2024-June 2025**

State	Intentions July 2024 - June 2025			
	Fresh market	Processed market	Total fillings	Percent of last year
	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)	(percent)
Pennsylvania .....	108,931	11,856	120,787	129
Other States <sup>1</sup> .....	31,899	22	31,921	99
United States .....	140,830	11,878	152,708	122

<sup>1</sup> Other States include California, Maryland, Oklahoma, Tennessee, and Texas.

## Specialty Mushroom Area in Production by Variety – United States: 2021-2022, 2022-2023, and 2023-2024

[Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or some commercial indoor growing area, and \$200 in sales. Totals may not add due to rounding. For 2021-2022 and 2022-2023, includes California, Florida, Illinois, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas. For 2023-2024, includes California, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas]

Variety	Area in production								
	Natural wood outdoor logs			Natural wood undercover and indoor logs			All other production media		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 logs)	(1,000 logs)	(1,000 logs)	(1,000 logs)	(1,000 logs)	(1,000 logs)	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)
Shiitake .....	(D)	(D)	(D)	(D)	(D)	(D)	257	374	1,325
Oyster .....	(D)	(D)	(D)	(D)	(D)	(D)	641	790	1,362
Other .....	(D)	(D)	(D)	(D)	(D)	(D)	543	544	897
Total .....	22	21	16	1,674	1,344	1,490	1,441	1,708	3,585

(D) Withheld to avoid disclosing data for individual operations.

## Specialty Mushroom Total Production, Volume of Sales, Price, and Value of Sales by Variety – United States: 2021-2022, 2022-2023, and 2023-2024

[Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or some commercial indoor growing area, and \$200 in sales. Totals may not add due to rounding. For 2021-2022 and 2022-2023, includes California, Florida, Illinois, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas. For 2023-2024, includes California, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas]

Variety	Total production <sup>1</sup>			All sales								
				Volume of sales <sup>2</sup>			Price per pound <sup>3</sup>			Value of sales		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(dollar)	(dollar)	(dollar)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
Shiitake .....	8,073	5,717	4,020	7,749	5,652	3,967	3.51	3.82	4.90	27,162	21,589	19,420
Oyster .....	5,267	7,783	3,735	5,007	7,695	3,717	3.04	3.07	4.80	15,209	23,591	17,840
Other .....	10,265	8,473	8,543	9,748	8,153	8,224	4.61	5.91	6.02	44,980	48,185	49,494
Total .....	23,606	21,972	16,298	22,504	21,500	15,908	3.88	4.34	5.45	87,351	93,365	86,753

<sup>1</sup> Total production includes all fresh market and processing sales plus amount harvested but not sold (shrinkage, cullage, dumped, etc.).

<sup>2</sup> Virtually all specialty mushroom sales are for fresh market.

<sup>3</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

**Certified Organic Mushroom Production and Volume of Sales by Variety – United States: 2021-2022, 2022-2023, and 2023-2024**

[For 2021-2022 and 2022-2023, includes California, Florida, Illinois, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas. For 2023-2024, includes California, Maryland, Oklahoma, Pennsylvania, Tennessee, and Texas]

Variety	Certified Organic					
	Production			Volume of sales		
	2021-2022	2022-2023	2023-2024	2021-2022	2022-2023	2023-2024
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Agaricus .....	141,384	90,370	115,819	62,701	54,541	52,240
Specialty .....	14,647	14,578	11,801	13,439	13,831	11,060
Shiitake .....	4,383	3,442	2,171	3,642	3,356	2,083
Oyster .....	2,410	3,133	1,425	2,177	3,111	1,411
Other .....	7,855	8,004	8,206	7,620	7,364	7,566
Total .....	156,031	104,948	127,620	76,141	68,371	63,300



## **Agaricus Mushrooms**

Agaricus mushroom volume of sales totaled 643 million pounds, down 9 percent from the 2022-2023 season. Pennsylvania accounted for 69 percent of the total volume of sales and second-ranked California contributed 11 percent. The value of the Agaricus crop was estimated at \$1.00 billion dollars, down 3 percent from a year ago. Brown mushrooms, including Portabello and Crimini varieties, accounted for 181 million pounds, down 16 percent from last season. Brown mushrooms accounted for 28 percent of the total Agaricus volume sold and 34 percent of the total Agaricus value.

United States fresh market sales of Agaricus mushrooms totaled 564 million pounds, down 7 percent from the previous season, while processed sales, at 78.6 million pounds, decreased 20 percent from the previous season. Growers reported United States fresh market production made up 88 percent of total sales volume, while processed production represented the remaining 12 percent. Grower total filling intentions for the 2024-2025 crop are 153 million square feet, up 22 percent from the total fillings in the 2023-2024 season.

Agaricus mushroom growers in Chester County, Pennsylvania produced 199 million pounds, a decrease of 29 percent compared with the 2022-2023 growing season. This production was valued at 223 million dollars, down 27 percent from the previous season. The growing area in Chester County was 11.1 million square feet, up 1 percent from last season. Total fillings were 55.1 million square feet, up 6 percent from the 2022-2023 growing season.

## **Specialty Mushrooms - Shiitake, Oyster, and all Other Exotics**

Value of sales for commercially grown specialty mushrooms in 2023-2024 totaled \$86.7 million, down 7 percent from the 2022-2023 season. A specialty grower is defined as having at least 200 natural wood logs in production or some commercial indoor growing area, and \$200 or more in sales. The average price received by growers, at \$5.45 per pound, was up \$1.11 from the previous season estimate.

## **Certified Organic Agaricus and Specialty Mushrooms**

Growers produced 128 million pounds of mushrooms that were certified organic during the 2023-2024 growing season, 22 percent above 2022-2023. Fifty percent of the total, or 63.3 million pounds, were sold as certified organic mushrooms. Agaricus mushrooms accounted for 83 percent of the mushrooms sold as certified organic, while all specialty mushrooms made up the remainder.

Beginning in 2024, mushroom estimates were discontinued for all varieties in Florida and Illinois.

## Statistical Methodology

**Survey procedures:** Grower surveys are conducted in preparation for this report. All known commercial mushroom producers are contacted utilizing mail, telephone, and personal enumeration. Unless other specific arrangements are made, data collection for multi-State operations is conducted by the State in which the firm's headquarters is located. Information is collected for Agaricus (including White Button, Crimini, and Portabello) and specialty mushrooms.

**Estimating procedures:** Information obtained from the mushroom grower surveys is used to establish estimates of area in production, yield per square foot, utilization, volume of sales, average price per pound, and value of sales. Estimates are also prepared for the total amount of mushrooms grown as certified organic and quantity sold from mushrooms certified as organically produced.

**Revision policy:** All mushroom estimates, except intentions, are subject to revision the following year based on a thorough review of all available data.

**Reliability:** The mushrooms grower surveys are subject to non-sampling errors, such as omissions, duplication, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

## Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@usda.gov](mailto:nass@usda.gov)

Fleming Gibson, Acting Chief, Crops Branch .....	(202) 720-2127
Joshua Bates, Acting Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Deonne Holiday – Almonds, Carrots, Coffee, Cranberries, Garlic, Onions, Plums, Prunes, Tobacco.....	(202) 720-4288
Bret Holliman – Apricots, Chickpeas, Nectarines, Peaches, Snap Beans, Sweet Corn, Tomatoes.....	(202) 720-7235
Robert Little – Blueberries, Cabbage, Dry Beans, Lettuce, Macadamia, Maple Syrup, Pears, Raspberries, Spinach .....	(202) 720-3250
Krishna Rizal – Artichokes, Asparagus, Celery, Grapefruit, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Pistachios .....	(202) 720-5412
Chris Singh – Apples, Cucumbers, Hazelnuts, Potatoes, Pumpkins, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes .....	(202) 720-4285
Antonio Torres – Cantaloupes, Dry Edible Peas, Grapes, Green Peas, Honeydews, Lentils, Sweet Cherries, Tart Cherries, Walnuts, Watermelons .....	(202) 720-2157
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cauliflower, Chile Peppers, Dates, Floriculture, Hops, Papayas, Pecans.....	(202) 720-4215

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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist [notifications@usda-esmis.library.cornell.edu](mailto:notifications@usda-esmis.library.cornell.edu) in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@usda.gov](mailto:nass@usda.gov).

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