

Mushrooms



United States
Department of
Agriculture

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Mushroom Production and Value Hit Record High

Total volume of mushroom sales in the U.S. during the 1994-95 production year increased 4 percent over last year to a record high of 789 million pounds. The value of the mushroom crop increased 6 percent to \$759 million. Growers received an average of 96.2 cents per pound, up 1.80 cents per pound from last season. The number of growers increased from 358 last year to 371 this year due to a rise in the number producing specialty mushrooms.

Agaricus mushroom production totaled 781 million pounds, up 4 percent from the previous season. Pennsylvania led all States in production with 355 million pounds, down fractionally from last growing season. Pennsylvania growers supplied 45 percent of all Agaricus mushrooms grown in the U.S. California ranked second in production with 135 million pounds. This production represented 17 percent of all Agaricus mushrooms grown in the U.S.

The value of the 1994-95 Agaricus crop totaled \$731 million, up 6 percent from last season. Growers received an average 93.6 cents per pound, up 2.00 cents per pound from a year earlier. Prices increased for both fresh and processing mushrooms. Prices averaged \$1.05 per pound for fresh mushrooms and 68.4 cents per pound for processing mushrooms. Fresh market sales accounted for 68 percent of the Agaricus crop while 32 percent went to processors. When mushroom statistics began in 1967, fresh market sales accounted for 25 percent of the sales while processing made up 75 percent of the sales.

(continued on page 14)

Agaricus and Specialty Mushrooms: Number of Growers, Volume of Sales, Price, and Value of Sales, July 1, 1992 - June 30, 1995

All Sales				
Year	Growers 1/	Volume of Sales	Price per Pound 2/	Value of Sales
	Number	1,000 Pounds	Dollars	1,000 Dollars
1992-93	364	780,926	0.878	685.754
1993-94 3/	358	759,236	0.944	716.464
1994-95	371	788,970	0.962	758.964

1/ Number of growers counted once if growing both Agaricus and specialty.

2/ See footnote 1 on page 3.

3/ Revised.

Agaricus Mushrooms: Area, Sales, Price, and Value by State
and United States, July 1, 1992 - June 30, 1995

State, Region, and Year	Area in Production		Volume of Sales	Price per Pound 1/	Value of Sales
	Growing Area	Total Fillings			
	-- 1,000 Square Feet --		1,000 Pounds	Dollars	1,000 Dollars
CA					
1992-93	3,937	22,998	128,545	1.010	129,866
1993-94	3,578	21,822	124,019	1.060	130,911
1994-95	3,585	21,889	134,897	1.040	140,796
DE					
1992-93	409	1,305	5,079	0.645	3,277
1993-94	471	1,661	6,055	0.711	4,308
1994-95	332	1,252	4,456	0.748	3,335
FL					
1992-93	1,554	6,751	39,563	1.020	40,416
1993-94	1,554	6,736	37,886	1.080	41,005
1994-95	1,600	6,905	40,306	1.100	44,408
GA					
1992-93	166	1,232	3,994	0.771	3,079
1993-94	166	1,438	4,406	0.804	3,542
1994-95	166	1,438	6,207	0.780	4,841
IN					
1992-93	326	2,379	14,696	0.927	13,628
1993-94	326	2,230	14,252	0.990	14,108
1994-95	297	2,379	14,107	0.939	13,249
MD					
1992-93	211	583	1,702	0.609	1,037
1993-94	211	957	2,417	0.695	1,680
1994-95	221	603	2,425	0.726	1,761
MI					
1992-93	333	2,590	15,411	0.985	15,174
1993-94	339	2,578	14,736	0.942	13,881
1994-95	326	2,581	14,877	0.938	13,958
NY 2/					
1992-93	228	976	4,500	0.876	3,940
1993-94					
1994-95					
OH					
1992-93	359	2,848	16,117	1.010	16,242
1993-94	359	2,848	15,451	1.010	15,561
1994-95	359	2,965	16,323	0.944	15,409

1/ See footnote 1 on page 3.
2/ See footnote 2 on page 3.

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Agaricus Mushrooms: Area, Sales, Price, and Value by State
and United States, July 1, 1992 - June 30, 1995 (continued)

State, Region, and Year	Area in Production		Volume of: Sales	Price per Pound 1/	Value of Sales
	Growing Area	Total Fillings			
	-- 1,000 Square Feet --		1,000 Pounds	Dollars	1,000 Dollars
OK 2/					
1992-93	418	2,312	12,237	1.040	12,766
1993-94	418	2,312	12,412	1.220	15,148
1994-95					
PA					
1992-93	16,246	66,746	370,113	0.707	261,729
1993-94	17,131	62,081	354,793	0.765	271,262
1994-95	19,334	65,100	354,500	0.772	273,661
Oth Sts 3/					
1992-93	6,448	31,189	164,400	1.020	168,244
1993-94	6,534	31,040	164,372	1.070	176,267
1994-95	7,498	34,482	192,880	1.140	219,292
East 4/					
1992-93	20,396	86,181	472,179	0.762	359,913
1993-94	21,218	81,596	455,342	0.824	375,388
1994-95	23,367	84,235	460,363	0.845	389,049
Central 4/					
1992-93	2,554	14,476	83,491	1.020	84,836
1993-94	2,564	14,249	80,375	1.010	80,863
1994-95	2,876	14,769	82,320	1.030	84,969
West 4/					
1992-93	7,685	41,252	220,687	1.020	224,649
1993-94	7,305	39,858	215,082	1.080	231,422
1994-95	7,475	40,590	238,295	1.080	256,692
US					
1992-93	30,635	141,909	776,357	0.862	669,398
1993-94	31,087	135,703	750,799	0.916	687,673
1994-95	33,718	139,594	780,978	0.936	730,710

- 1/ 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.
- 2/ Data not published to avoid disclosure of individual operations.
- 3/ CO, CT, IL, IA, NY, ND, OK, OR, TN, TX, UT, WA, and WI in 1994-95.
- 4/ States reporting in 1994-95. East: CT, DE, FL, GA, MD, NY, PA, and TN. Central: IL, IA, IN, MI, OH, and WI. West: CA, CO, ND, OK, OR, TX, UT, and WA.

Agaricus Mushrooms: Volume of Sales, Price, Value, and Type
of Sale by Region, July 1, 1992 - June 30, 1995

Year, State, Region	Fresh Market			Processing		
	Volume of Sales	Price per Pound 1/	Value of Sales	Volume of Sales	Price per Pound 1/	Value of Sales
	1,000 Pounds	Dollars	1,000 Dollars	1,000 Pounds	Dollars	1,000 Dollars
1992-93						
PA	197,993	0.849	168,096	172,120	0.544	93,633
Other East	79,345	1.070	85,035	22,721	0.579	13,149
East Total	277,338	0.913	253,131	194,841	0.548	106,782
Central Total	57,026	1.140	65,249	26,465	0.740	19,587
CA	113,179	1.060	119,970	15,366	0.644	9,896
Other West	74,838	1.110	83,216	17,304	0.668	11,567
West Total	188,017	1.080	203,186	32,670	0.657	21,463
US	522,381	0.998	521,566	253,976	0.582	147,832
1993-94						
PA	184,913	0.879	162,539	169,880	0.640	108,723
Other East	81,716	1.120	91,620	18,833	0.664	12,506
East Total	266,629	0.953	254,159	188,713	0.642	121,229
Central Total	67,079	1.060	71,084	13,296	0.735	9,779
CA	108,628	1.100	119,491	15,391	0.742	11,420
Other West	74,500	1.180	88,129	16,563	0.748	12,382
West Total	183,128	1.130	207,620	31,954	0.745	23,802
US	516,836	1.030	532,863	233,963	0.662	154,810
1994-95						
PA	182,250	0.874	159,287	172,250	0.664	114,374
Other East	83,979	1.200	100,418	21,884	0.684	14,970
East Total 2/	266,229	0.975	259,705	194,134	0.666	129,344
Central Total 2/	66,522	1.090	72,728	15,798	0.775	12,241
CA	114,707	1.100	126,178	20,190	0.724	14,618
Other West	83,939	1.210	101,340	19,459	0.748	14,556
West Total 2/	198,646	1.150	227,518	39,649	0.736	29,174
US	531,397	1.050	559,951	249,581	0.684	170,759

1/ 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.

2/ States reporting in 1994-95. East: CT, DE, FL, GA, MD, NY, PA, and TN. Central: IL, IA, IN, MI, OH, and WI. West: CA, CO, ND, OK, OR, TX, UT, and WA.

Agaricus Mushrooms: Number of Growers, Volume of Sales, Price, and Value of All Sales, by Region, July 1, 1992 - June 30, 1995

Year, State, Region	All Sales			
	Growers	Volume of Sales	Price per Pound 1/	Value of Sales
	Number	1,000 Pounds	Dollars	1,000 Dollars
1992-93				
PA	125	370,113	0.707	261,729
Other East	17	102,066	0.962	98,184
East Total	142	472,179	0.762	359,913
Central Total	17	83,491	1.020	84,836
CA	23	128,545	1.010	129,866
Other West	13	92,142	1.030	94,783
West Total	36	220,687	1.020	224,649
US	195	776,357	0.862	669,398
1993-94				
PA	126	354,793	0.765	271,262
Other East	16	100,549	1.040	104,126
East Total	142	455,342	0.824	375,388
Central Total	17	80,375	1.010	80,863
CA	21	124,019	1.060	130,911
Other West	13	91,063	1.100	100,511
West Total	34	215,082	1.080	231,422
US	193	750,799	0.916	687,673
1994-95				
PA	119	354,500	0.772	273,661
Other East	17	105,863	1.090	115,388
East Total 2/	136	460,363	0.845	389,049
Central Total 2/	16	82,320	1.030	84,969
CA	21	134,897	1.040	140,796
Other West	13	103,398	1.120	115,896
West Total 2/	34	238,295	1.080	256,692
US	186	780,978	0.936	730,710

1/ 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.

2/ States reporting in 1994-95. East: CT, DE, FL, GA, MD, NY, PA, and TN. Central: IL, IA, IN, MI, OH, and WI. West: CA, CO, ND, OK, OR, TX, UT, and WA.

Agaricus Mushrooms: Yield and Dollar Volume per Square Foot
of Growing Area, by State and United States,
July 1, 1992 - June 30, 1995

State and Region	Yield per Square Foot		
	1992-93	1993-94	1994-95
	Pounds		
PA	5.55	5.72	5.45
East 1/	5.48	5.58	5.47
Central 1/	5.77	5.64	5.57
CA	5.59	5.68	6.16
West 1/	5.35	5.40	5.87
US	5.47	5.53	5.59
	Dollar Volume per Square Foot		
	Dollars		
PA	3.92	4.37	4.20
East 1/	4.18	4.60	4.62
Central 1/	5.86	5.67	5.75
CA	5.65	6.00	6.43
West 1/	5.45	5.81	6.32
US	4.72	5.07	5.23

1/ States reporting in 1994-95. East: CT, DE, FL, GA, MD, NY, PA, and TN.
Central: IL, IA, IN, MI, OH, and WI. West: CA, CO, ND, OK, OR, TX,
UT, and WA.

Mushrooms: Sales by Type and Percent of Total,
United States, 1967-95 1/

Year	Fresh Market		Processing		Total Volume of Sales
	Volume of Sales	Percent	Volume of Sales	Percent	
	1,000 Pounds		1,000 Pounds		1,000 Pounds
1966-67	41,951	25	122,964	75	164,915
1967-68	47,611	26	132,980	74	180,591
1968-69	56,024	30	132,783	70	188,807
1969-70	62,115	32	131,764	68	193,879
1970-71	58,269	28	148,541	72	206,810
1971-72	66,323	29	165,050	71	231,373
1972-73	76,728	30	177,274	70	254,002
1973-74	102,293	37	177,200	63	279,493
1974-75	126,118	42	172,963	58	299,081
1975-76	142,121	46	167,695	54	309,816
1976-77	151,247	44	195,882	56	347,129
1977-78	191,080	48	207,623	52	398,703
1978-79	229,538	51	224,469	49	454,007
1979-80	255,846	54	214,223	46	470,069
1980-81	275,052	59	194,524	41	469,576
1981-82	319,132	62	198,014	38	517,146
1982-83	337,234	69	153,592	31	490,826
1983-84	388,075	69	173,456	31	561,531
1984-85	419,913	70	175,768	30	595,681
1985-86	427,204	73	160,752	27	587,956
1986-87	454,800	74	157,094	26	611,894
1987-88	468,895	74	162,924	26	631,819
1988-89	484,675	73	183,084	27	667,759
1989-90	511,904	72	203,088	28	714,992
1990-91	511,921	68	237,230	32	749,151
1991-92	496,959	67	249,873	33	746,832
1992-93	522,381	67	253,976	33	776,357
1993-94	516,836	69	233,963	31	750,799
1994-95	531,397	68	249,581	32	780,978

1/ Fresh market, processing, and total volume of sales estimates are primarily Agaricus, but also include specialty mushrooms through 1986-87. Statistics after 1986-87 are for Agaricus only.

Mushrooms: Price and Value by Type of Sale,
United States, 1967-95 1/ 2/

Year	Fresh Market		Processing		All Sales	
	Price per Pound	Value of Sales	Price per Pound	Value of Sales	Price per Pound	Value of Sales
	Dollars	1,000 Dollars	Dollars	1,000 Dollars	Dollars	1,000 Dollars
1966-67	0.465	19,520	0.313	38,505	0.352	58,025
1967-68	0.449	21,384	0.303	40,269	0.341	61,653
1968-69	0.461	25,845	0.316	42,011	0.359	67,856
1969-70	0.451	28,004	0.339	44,701	0.375	72,705
1970-71	0.544	31,688	0.390	57,932	0.433	89,620
1971-72	0.579	38,386	0.415	68,496	0.462	106,882
1972-73	0.555	42,596	0.380	67,379	0.433	109,975
1973-74	0.571	58,407	0.367	64,947	0.441	123,354
1974-75	0.607	76,552	0.409	70,690	0.492	147,242
1975-76	0.719	102,234	0.530	88,864	0.617	191,098
1976-77	0.824	124,613	0.669	131,065	0.737	255,678
1977-78	0.901	172,159	0.652	135,429	0.771	307,588
1978-79	0.949	217,770	0.642	144,030	0.797	361,800
1979-80	0.958	245,201	0.576	123,396	0.784	368,597
1980-81	0.947	260,439	0.586	114,060	0.798	374,499
1981-82	0.968	308,805	0.555	109,901	0.810	418,706
1982-83	1.000	338,048	0.608	93,373	0.879	431,421
1983-84	0.965	374,327	0.646	112,061	0.866	486,388
1984-85	0.935	392,762	0.574	100,886	0.829	493,648
1985-86	0.948	404,914	0.549	88,179	0.839	493,093
1986-87	0.945	429,812	0.564	88,621	0.847	518,433
1987-88	0.949	444,967	0.610	99,333	0.861	544,300
1988-89	0.979	474,675	0.665	121,663	0.893	596,338
1989-90	1.000	512,055	0.653	132,683	0.902	644,738
1990-91	0.981	501,967	0.615	145,948	0.865	647,915
1991-92	0.995	494,340	0.638	159,501	0.875	653,841
1992-93	0.998	521,566	0.582	147,832	0.862	669,398
1993-94	1.030	532,863	0.662	154,810	0.916	687,673
1994-95	1.050	559,951	0.684	170,759	0.936	730,710

1/ 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.

2/ Fresh market, processing, and all sales estimates are primarily Agaricus, but also include specialty mushrooms through 1986-87. Statistics after 1986-87 are for Agaricus only.

Mushrooms: Number of Growers, Area in Production, Yield,
and Dollar Volume per Square Foot, United States, 1967-95 1/

Year	Growers 2/	Area in Production	Yield per Square Foot	Dollar Volume per Square Foot
	Number	1,000 Square Feet	Pounds	Dollars
1966-67		80,595	2.05	0.72
1967-68		83,389	2.17	0.74
1968-69		84,728	2.23	0.80
1969-70		82,350	2.35	0.88
1970-71		87,490	2.36	1.02
1971-72		93,798	2.47	1.14
1972-73		102,315	2.48	1.07
1973-74		107,584	2.60	1.15
1974-75		110,921	2.70	1.33
1975-76		114,711	2.70	1.67
1976-77		117,692	2.95	2.17
1977-78		135,101	2.95	2.28
1978-79		146,738	3.09	2.47
1979-80		150,758	3.12	2.44
1980-81		140,346	3.35	2.67
1981-82		141,326	3.66	2.96
1982-83	440	135,395	3.63	3.19
1983-84	433	142,810	3.93	3.41
1984-85	441	139,133	4.28	3.55
1985-86	514	129,565	4.54	3.81
1986-87	413	129,496	4.73	4.00
1987-88	357	130,527	4.84	4.17
1988-89	279	132,659	5.03	4.50
1989-90	259	137,861	5.19	4.68
1990-91	238	139,922	5.35	4.63
1991-92	226	138,148	5.41	4.73
1992-93	195	141,909	5.47	4.72
1993-94	193	135,703	5.53	5.07
1994-95	186	139,594	5.59	5.23

1/ Number of growers, area in production, yield and dollar volume per square foot estimates are primarily Agaricus, but also include specialty mushrooms through 1986-87. Statistics after 1986-87 are for Agaricus only.

2/ Estimates for number of growers are not available prior to 1982-83. Estimates are based on growers with sales and include all known growing facilities.

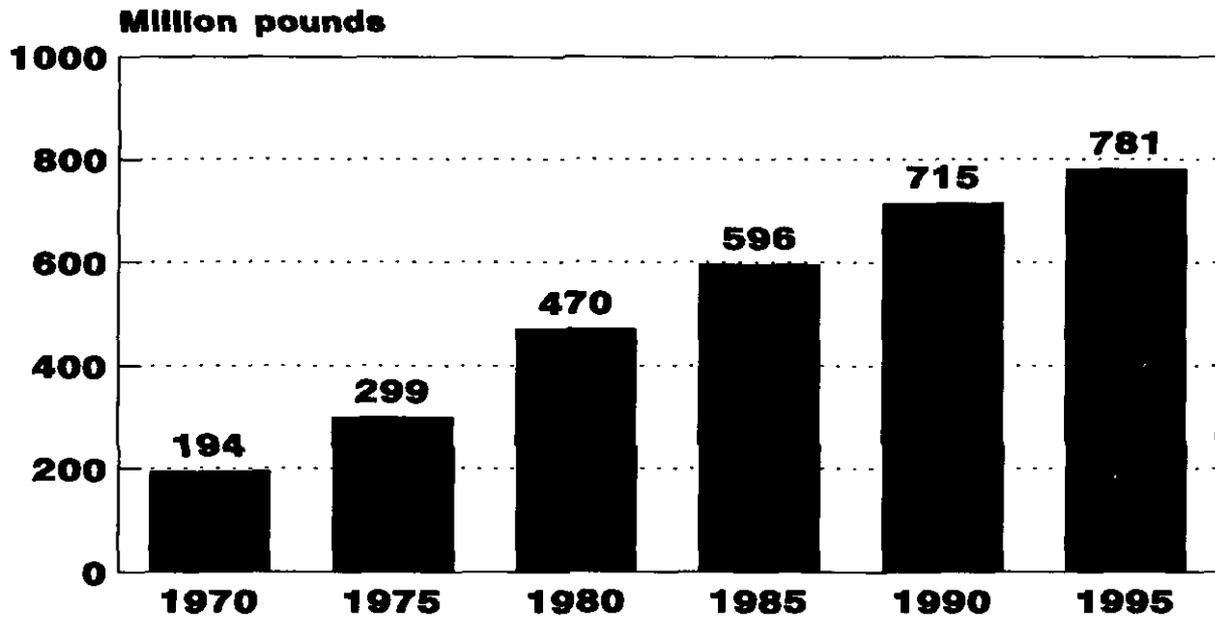
Agaricus Mushrooms: Bed or Tray Area Intended for Production
by State and United States, July 1, 1995 - June 30, 1996

----- Intentions July 1995 - June 1996 -----				
State	Fresh Market	Processed Market	Total Fillings	Percent of Last Year
----- 1,000 Square Feet -----				
CA	21,866	52	21,918	100
DE	844	368	1,212	97
FL	6,640	291	6,931	100
GA	.	1,438	1,438	100
IN	2,379		2,379	100
MD	367	56	423	70
MI	2,568	1	2,569	100
OH	2,124	844	2,968	100
PA	38,212	27,957	66,169	102
Oth				
Sts 1/	31,987	2,838	34,825	101
East 2/	53,950	31,116	85,066	101
Central 2/	13,971	848	14,819	100
West 2/	39,066	1,881	40,947	101
US	106,987	33,845	140,832	101

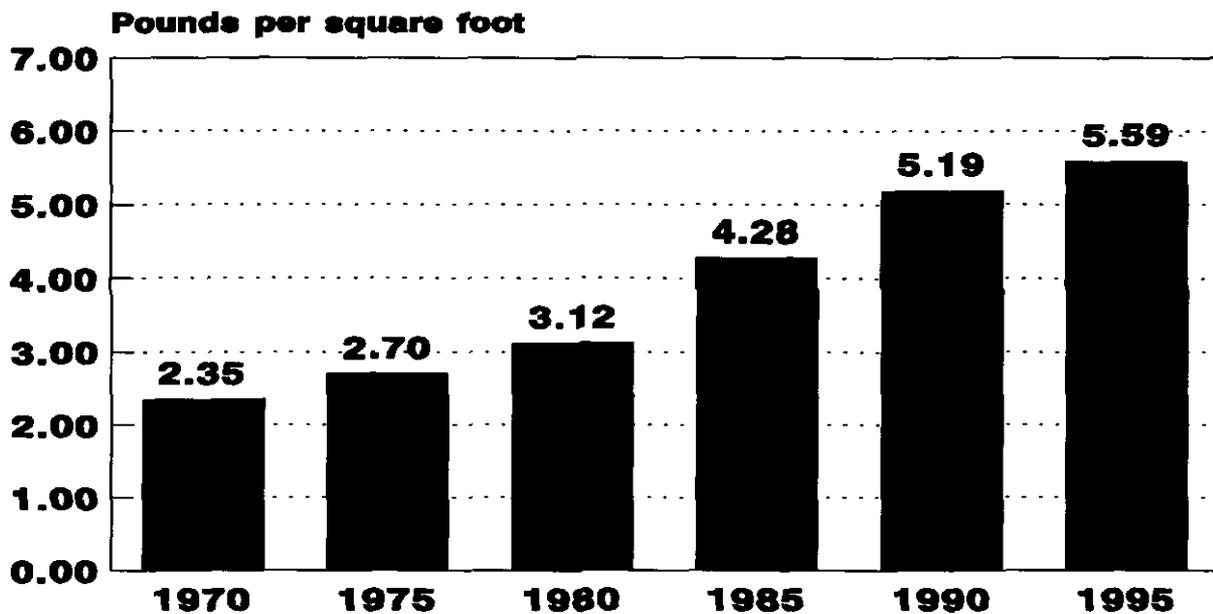
1/ CO, CT, IL, IA, NY, ND, OK, OR, TN, TX, UT, WA, and WI in 1994-95.

2/ States reporting in 1994-95. East: CT, DE, FL, GA, MD, NY, PA, and TN.
Central: IL, IA, IN, MI, OH, and WI. West: CA, CO, ND, OK, OR, TX,
UT, and WA.

U.S. Mushroom Sales Agaricus



U.S. Agaricus Yields Yield per Square Foot



Specialty Mushrooms: Number of Growers, Total Production, Volume
of Sales, Price, and Value of Sales, by Variety, United States,
July 1, 1992 - June 30, 1995 1/

Year and Variety	Growers	All Sales			
		Total Production 2/	Volume of Sales 3/	Price per Pound 4/	Value of Sales
	Number	--- 1,000 Pounds --		Dollars	1,000 Dollars
1992-93					
Shiitake		2,955	2,752	3.88	10,677
Oyster		1,089	1,000	2.58	2,579
Oth		961	817	3.79	3,100
US	174	5,005	4,569	3.58	16,356
1993-94					
Shiitake		5,762	5,585	3.70	20,672
Oyster		2,089	1,946	2.50	4,856
Oth		993	906	3.60	3,263
US	171	8,844	8,437	3.41	28,791
1994-95					
Shiitake		5,498	5,246	3.83	20,081
Oyster		1,974	1,711	2.63	4,505
Oth		1,154	1,035	3.54	3,668
US 5/	192	8,626	7,992	3.54	28,254

- 1/ Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or commercial indoor growing area.
2/ Total production includes all fresh market and processing sales plus amount harvested but not sold (shrinkage, cullage, dumped, etc.)
3/ Virtually all specialty mushroom sales are for fresh market.
4/ See footnote 1 on page 3.
5/ States reporting in 1994-95, AR, CA, CO, CT, FL, HI, IA, ID, IL, KY, MA, MI, MN, MO, MS, NC, NY, OH, OR, PA, SC, TN, VA, WA, WI, WV.

Specialty Mushrooms: Area in Production by Variety, United States.
July 1, 1992 - June 30, 1995 1/

Year and Variety	Area		
	Natural Wood Outdoor Logs	Natural Wood Undercover and Indoor Logs	All other Production Media
	----- 1,000 -----		1,000 Square Feet
1992-93			
Shiitake 2/	180	397	925
Oyster			183
Oth			93
US	180	397	1,201
1993-94			
Shiitake 2/	174	352	1,363
Oyster			364
Oth			90
US	174	352	1,817
1994-95			
Shiitake 2/	137	314	1,304
Oyster			281
Oth			98
US	137	314	1,683

1/ Specialty mushroom estimates represent growers who have at least 200 natural wood logs or commercial indoor growing area.

2/ Includes small quantity of logs producing oyster and other mushrooms. These logs are not published separately to avoid disclosure of operations.

Specialty Mushrooms

Volume of sales for commercially grown specialty mushrooms (Shiitake, Oyster, and all other specialties) in 1994-95 decreased to 7.99 million pounds, down 5 percent from the 1993-94 production. The average price received by growers increased 13.0 cents per pound to \$3.54 per pound. Value of sales declined 2 percent from last year to \$28.3 million. A specialty grower is defined as one having at least 200 natural wood logs in production or commercial indoor growing area.

Shiitake mushroom sales totaled 5.25 million pounds, down 6 percent from last year's sales. The average price that growers received was up 13.0 cents per pound. The value of the crop decreased 3 percent to \$20.1 million.

Oyster mushroom sales are estimated at 1.71 million pounds, down 12 percent from last year. Prices were up 5 percent or 13.0 cents per pound. The value of sales was \$4.51 million or 7 percent lower than the 1993-94 crop.

All other specialty mushroom sales totaled 1.04 million pounds, 14 percent larger than the previous season. The total value of the crop increased 12 percent to \$3.67 million. Prices declined 2 percent from \$3.60 per pound last season to \$3.54 per pound.

The next "Mushrooms" report will be released in August 1996.

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