

# Mushrooms

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## New Records Set for Value and Volume of Sales of All Mushrooms

The value of the 1998-99 mushroom crop in the U.S. totaled a record high \$867 million, up 8 percent from 1997-98 and 13 percent above 1996-97. Sales of all mushrooms during the 1998-99 season were 861 million pounds, 5 percent above last year and 9 percent above 1996-97. Growers received an average \$1.01 per pound, up three cents from the previous season. The number of growers fell to 340 from last season's figure of 354.

The value of Agaricus mushrooms for fresh market continued to rise, reaching a record \$709 million, 6 percent above the 1997-98 season. The value of sales of Agaricus mushrooms for processing was \$119 million, up 15 percent from 1997-98. The value of sales of specialty mushrooms increased 35 percent to \$38.6 million for the 1998-99 season with the value of Shiitake mushroom sales 31 percent above the previous year.

(Agaricus and Specialty highlights continued on page 14)

**Agaricus and Specialty Mushrooms: Number of Growers, Volume of Sales, Price, and Value of Sales, July 1, 1996 - June 30, 1999**

Year	Growers <sup>1</sup>	All Sales		
		Volume of Sales	Price per Pound <sup>2</sup>	Value of Sales
	<i>Number</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
1996-97	341	787,365	0.973	766,434
1997-98 <sup>3</sup>	354	818,200	0.981	802,290
1998-99	340	861,378	1.010	867,146

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

<sup>2</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>3</sup> Revised

**Agaricus Mushrooms: Area, Sales, Price, and Value by State  
and United States, July 1, 1996 - June 30, 1999**

State, Region, <sup>1</sup> and Year	Area in Production		Volume of Sales	Price per Pound <sup>2</sup>	Value of Sales
	Growing Area	Total Fillings			
	<i>1,000 Square Feet</i>	<i>1,000 Square Feet</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
CA					
1996-97	4,325	23,028	130,152	1.200	155,554
1997-98	4,784	24,513	133,848	1.190	158,638
1998-99	4,722	23,858	132,166	1.220	161,612
DE					
1996-97	211	706	1,970	0.783	1,542
1997-98	201	758	2,687	0.754	2,026
1998-99	201	802	2,687	0.758	2,036
FL					
1996-97	1,577	6,708	40,327	1.060	42,827
1997-98	1,662	7,082	40,650	1.060	43,286
1998-99	1,633	6,960	39,413	1.030	40,720
GA					
1996-97	190	1,438	6,281	0.943	5,920
1997-98	245	1,625	6,458	0.865	5,589
1998-99	245	1,354	4,238	0.825	3,496
IN					
1996-97	469	2,379	12,800	1.070	13,638
1997-98	469	2,378	13,847	1.240	17,163
1998-99	469	2,453	15,022	1.160	17,389
MD					
1996-97	184	545	1,940	0.802	1,556
1997-98	185	606	2,178	0.817	1,780
1998-99	169	678	2,470	0.786	1,941
MI					
1996-97	511	2,572	13,638	1.080	14,679
1997-98	525	2,760	14,731	1.150	17,014
1998-99	356	2,767	10,106	1.200	12,141
OH					
1996-97	554	2,965	16,322	1.030	16,786
1997-98	509	2,965	16,123	1.090	17,613
1998-99	554	3,373	15,981	1.260	20,082

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**Agaricus Mushrooms: Area, Sales, Price, and Value by State  
and United States, July 1, 1996 - June 30, 1999 (continued)**

State, Region, <sup>1</sup> and Year	Area in Production		Volume of Sales	Price per Pound <sup>2</sup>	Value of Sales
	Growing Area	Total Fillings			
	<i>1,000 Square Feet</i>	<i>1,000 Square Feet</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
PA					
1996-97	19,318	61,543	360,905	0.717	258,768
1997-98	19,773	67,010	379,295	0.738	279,911
1998-99	20,675	72,279	427,632	0.773	330,720
WA					
1996-97	391	2,227	12,298	1.200	14,731
1997-98	391	2,228	12,043	1.200	14,392
1998-99	391	2,228	12,764	1.230	15,751
Oth Sts <sup>3</sup>					
1996-97	6,870	32,350	180,044	1.130	204,295
1997-98	5,821	33,169	186,818	1.160	216,205
1998-99	5,761	33,285	185,922	1.200	222,669
East					
1996-97	23,197	79,708	463,254	0.801	371,277
1997-98	22,947	86,000	482,130	0.815	393,003
1998-99	23,804	90,985	525,377	0.837	439,733
Central					
1996-97	4,648	22,813	127,045	1.120	142,570
1997-98	4,294	23,592	130,188	1.210	157,327
1998-99	4,107	24,180	128,466	1.260	161,406
West					
1996-97	6,755	33,940	186,378	1.160	216,449
1997-98	7,324	35,502	196,360	1.140	223,287
1998-99	7,265	34,872	194,558	1.170	227,418
US					
1996-97	34,600	136,461	776,677	0.940	730,296
1997-98	34,565	145,094	808,678	0.957	773,617
1998-99	35,176	150,037	848,401	0.977	828,557

<sup>1</sup> Regions: East: CT, DE, FL, GA, MD, NY, PA, and TN. Central: IL, IN, IA, MI, MO, OH, OK, TX, and WI. West: CA, CO, ND, OR, UT, and WA.

<sup>2</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>3</sup> CO, CT, IL, IA, MO, NY, ND, OK, OR, TN, TX, UT, and WI.

**Agaricus Mushrooms: Utilization, Volume of Sales, Price, and Value  
by Region and United States, July 1, 1996 - June 30, 1999**

Year, State, Region <sup>1</sup>	Fresh Market			Processing		
	Volume of Sales	Price per Pound <sup>2</sup>	Value of Sales	Volume of Sales	Price per Pound <sup>2</sup>	Value of Sales
	<i>1,000 Lbs</i>	<i>Dollars</i>	<i>1,000 Dols</i>	<i>1,000 Lbs</i>	<i>Dollars</i>	<i>1,000 Dols</i>
1996-97						
PA	206,384	0.860	177,490	154,521	0.526	81,278
Other East	86,780	1.200	104,313	15,569	0.526	8,196
East Total	293,164	0.961	281,803	170,090	0.526	89,474
Central Total	94,514	1.250	118,615	32,531	0.736	23,955
CA	115,293	1.280	147,575	14,859	0.537	7,979
Other West	50,809	1.140	57,735	5,417	0.583	3,160
West Total	166,102	1.240	205,310	20,276	0.549	11,139
US	553,780	1.090	605,728	222,897	0.559	124,568
1997-98						
PA	256,881	0.849	218,092	122,414	0.505	61,819
Other East	85,754	1.200	103,138	17,081	0.583	9,954
East Total	342,635	0.938	321,230	139,495	0.515	71,773
Central Total	103,173	1.330	136,901	27,015	0.756	20,426
CA	118,727	1.260	149,596	15,121	0.598	9,042
Other West	57,002	1.100	62,441	5,510	0.401	2,208
West Total	175,729	1.210	212,037	20,631	0.545	11,250
US	621,537	1.080	670,168	187,141	0.553	103,449
1998-99						
PA	294,281	0.861	253,376	133,351	0.580	77,344
Other East	82,654	1.200	98,976	15,091	0.665	10,037
East Total	376,935	0.935	352,352	148,442	0.589	87,381
Central Total	100,701	1.390	139,962	27,765	0.772	21,444
CA	119,026	1.290	153,544	13,140	0.614	8,068
Other West	57,813	1.100	63,634	4,579	0.474	2,172
West Total	176,839	1.230	217,178	17,719	0.578	10,240
US	654,475	1.080	709,492	193,926	0.614	119,065

<sup>1</sup> Regions: East: CT, DE, FL, GA, MD, NY, PA, and TN. Central: IL, IN, IA, MI, MO, OH, OK, TX, and WI. West: CA, CO, ND, OR, UT, and WA.

<sup>2</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 Mushrooms: Number of Growers, Volume, Price, and Value of All Sales  
by Region and United States, July 1, 1996 - June 30, 1999**

Year, State, Region <sup>1</sup>	Growers	All Sales		
		Volume of Sales	Price per Pound <sup>2</sup>	Value of Sales
	<i>Number</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
1996-97				
PA	102	360,905	0.717	258,768
Other East	14	102,349	1.100	112,509
East Total	116	463,254	0.801	371,277
Central Total	20	127,045	1.120	142,570
CA	21	130,152	1.200	155,554
Other West	8	56,226	1.080	60,895
West Total	29	186,378	1.160	216,449
US	165	776,677	0.940	730,296
1997-98				
PA	90	379,295	0.738	279,911
Other East	13	102,835	1.100	113,092
East Total	103	482,130	0.815	393,003
Central Total	20	130,188	1.210	157,327
CA	24	133,848	1.190	158,638
Other West	9	62,512	1.030	64,649
West Total	33	196,360	1.140	223,287
US	156	808,678	0.957	773,617
1998-99				
PA	86	427,632	0.773	330,720
Other East	12	97,745	1.120	109,013
East Total	98	525,377	0.837	439,733
Central Total	18	128,466	1.260	161,406
CA	26	132,166	1.220	161,612
Other West	8	62,392	1.050	65,806
West Total	34	194,558	1.170	227,418
US	150	848,401	0.977	828,557

<sup>1</sup> Regions: East: CT, DE, FL, GA, MD, NY, PA, and TN. Central: IL, IN, IA, MI, MO, OH, OK, TX, and WI. West: CA, CO, ND, OR, UT, and WA.

<sup>2</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 Mushrooms: Yield and Dollar Volume per Square Foot  
of Growing Area, by State and United States,  
July 1, 1996 - June 30, 1999**

State and Region <sup>1</sup>	Yield per Square Foot		
	1996-97	1997-98	1998-99
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
PA	5.86	5.66	5.92
East	5.81	5.61	5.77
Central	5.57	5.52	5.31
CA	5.65	5.46	5.54
West	5.49	5.53	5.58
US	5.69	5.57	5.65
	Dollar Volume per Square Foot		
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
PA	4.20	4.18	4.58
East	4.66	4.57	4.83
Central	6.25	6.67	6.68
CA	6.75	6.47	6.77
West	6.38	6.29	6.52
US	5.35	5.33	5.52

<sup>1</sup> Regions:  
East: CT, DE, FL, GA, MD, NY, PA, and TN.  
Central: IL, IN, IA, MI, MO, OH, OK, TX, and WI.  
West: CA, CO, ND, OR, UT, and WA.

**Brown Mushrooms (Portabello, Crimini): Number of Growers, Volume, and Value  
by Region and United States, July 1, 1996-June 30, 1999**

Region and Year <sup>1</sup>	Growers	Total Cut or Pulled <sup>2</sup>	Value	Region and Year <sup>1</sup>	Growers	Total Cut or Pulled <sup>2</sup>	Value
	<i>Number</i>	<i>1,000 Lbs</i>	<i>1,000 Dols</i>		<i>Number</i>	<i>1,000 Lbs</i>	<i>1,000 Dols</i>
East				West			
1996-97	29	22,095	23,547	1996-97	13	7,168	15,126
1997-98	30	35,444	35,817	1997-98	19	8,189	16,664
1998-99	32	33,968	37,261	1998-99	19	11,841	21,471
Central				US			
1996-97	11	3,390	8,560	1996-97	53	32,653	47,233
1997-98	13	3,052	8,021	1997-98	62	46,685	60,502
1998-99	10	4,287	8,797	1998-99	61	50,096	67,529

<sup>1</sup> Regions:  
East: CT, DE, FL, GA, MD, NY, PA, and TN.  
Central: IL, IN, IA, MI, MO, OH, OK, TX, and WI.  
West: CA, CO, ND, OR, UT, and WA.

<sup>2</sup> Includes harvested but not sold.

**Mushrooms: Sales by Type and Percent of Total,  
United States, 1969-99 <sup>1</sup>**

Year	Fresh Market		Processing		Total Volume of Sales
	Volume of Sales	Percent	Volume of Sales	Percent	
	<i>1,000 Pounds</i>		<i>1,000 Pounds</i>		<i>1,000 Pounds</i>
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	532,232	68	250,108	32	782,340
1995-96	537,124	69	240,746	31	777,870
1996-97	553,780	71	222,897	29	776,677
1997-98	621,537	77	187,141	23	808,678
1998-99	654,475	77	193,926	23	848,401

<sup>1</sup> 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, 1969-99<sup>1 2</sup>**

Year	Fresh Market		Processing		All Sales	
	Price per Pound	Value of Sales	Price per Pound	Value of Sales	Price per Pound	Value of Sales
	<i>Dollars</i>	<i>1,000 Dols</i>	<i>Dollars</i>	<i>1,000 Dols</i>	<i>Dollars</i>	<i>1,000 Dols</i>
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	560,127	0.684	171,046	0.935	731,173
1995-96	1.090	588,126	0.579	139,452	0.935	727,578
1996-97	1.090	605,728	0.559	124,568	0.940	730,296
1997-98	1.080	670,168	0.553	103,449	0.957	773,617
1998-99	1.080	709,492	0.614	119,065	0.977	828,557

<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> 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, 1969-99 <sup>1</sup>**

Year	Growers <sup>2</sup>	Area in Production	Yield per Square Foot	Dollar Volume per Square Foot
	<i>Number</i>	<i>1,000 Square Feet</i>	<i>Pounds</i>	<i>Dollars</i>
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	440	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	139,617	5.60	5.24
1995-96	180	139,617	5.60	5.24
1996-97	165	136,461	5.69	5.35
1997-98	156	145,094	5.57	5.33
1998-99	150	150,037	5.65	5.52

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

<sup>2</sup> 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, 1999 - June 30, 2000**

State and Region <sup>1</sup>	Intentions Jul 1999 - Jun 2000			
	Fresh Market	Processed Market	Total Fillings	Percent of Last Year
	<i>1,000 Square Feet</i>	<i>1,000 Square Feet</i>	<i>1,000 Square Feet</i>	
CA	21,949	1,894	23,843	100
DE	802		802	100
FL	6,415	435	6,850	98
IN	2,528		2,528	103
MD	621	57	678	100
MI	1,794	769	2,563	93
OH	2,358	374	2,732	81
PA	61,045	13,114	74,159	103
WA	2,228		2,228	100
Oth Sts <sup>2</sup>	31,461	1,668	33,129	100
East	76,779	14,614	91,393	100
Central	21,536	1,726	23,262	96
West	32,886	1,971	34,857	100
US	131,201	18,311	149,512	100

<sup>1</sup> Regions:

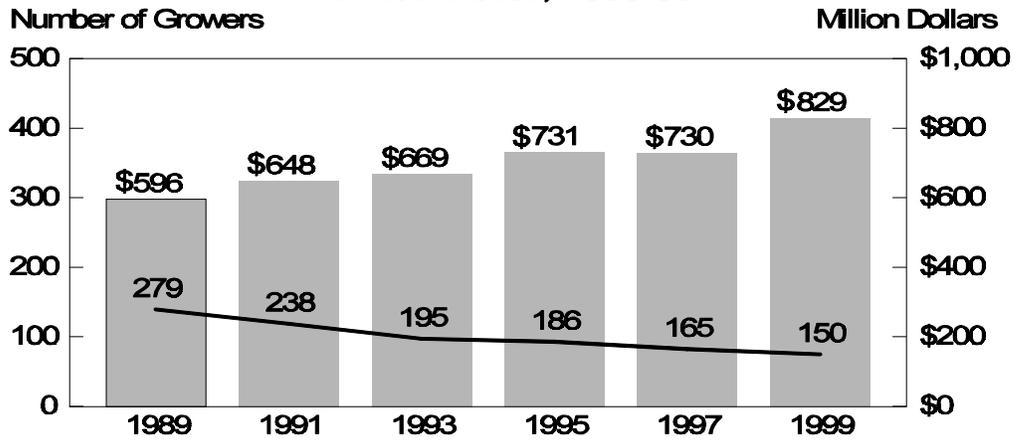
East: CT, DE, FL, MD, NY, PA, and TN.

Central: IL, IN, IA, MI, MO, OH, OK, TX, and WI.

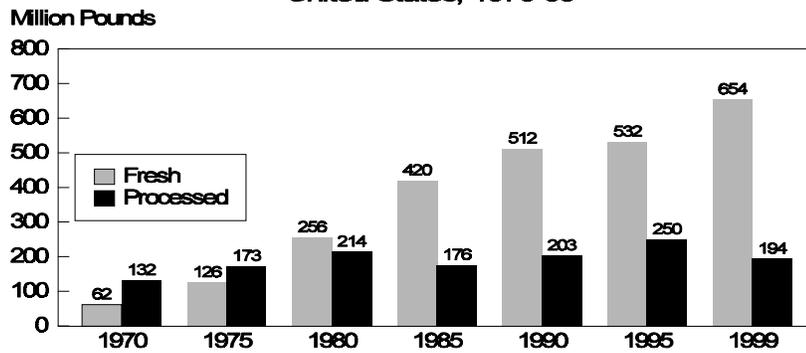
West: CA, CO, ND, OR, UT, and WA.

<sup>2</sup> CO, CT, IL, IA, MO, NY, ND, OK, OR, TN, TX, UT, and WI.

### Agaricus Mushrooms: Growers and Value of Sales United States, 1989-99



### Agaricus Mushrooms: Sales by Utilization United States, 1970-99



**Specialty Mushrooms: Number of Growers, Total Production, Volume of Sales, Price, and Value of Sales, by Variety and United States, July 1, 1996 - June 30, 1999 <sup>1</sup>**

Year and Variety	Growers	Total Production <sup>2</sup>	All Sales		
			Volume of Sales <sup>3</sup>	Price per Pound <sup>4</sup>	Value of Sales
	<i>Number</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
1996-97					
Shiitake		7,025	6,661	3.39	22,560
Oyster		2,695	2,542	2.59	6,595
Other		1,609	1,485	4.70	6,983
US <sup>5</sup>	182	11,329	10,688	3.38	36,138
1997-98					
Shiitake		6,624	6,281	3.15	19,774
Oyster		2,210	2,073	1.94	4,014
Other		1,277	1,168	4.18	4,885
US <sup>5</sup>	198	10,111	9,522	3.01	28,673
1998-99					
Shiitake		8,670	8,244	3.15	25,933
Oyster		3,714	3,532	2.15	7,599
Other		1,256	1,201	4.21	5,057
US <sup>5</sup>	188	13,640	12,977	2.97	38,589

<sup>1</sup> Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or commercial indoor growing areas.

<sup>2</sup> Total production includes all fresh market and processing sales plus amount harvested but not sold (shrinkage, cullage, dumped, etc.).

<sup>3</sup> Virtually all specialty mushroom sales are for fresh market.

<sup>4</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>5</sup> 1996-97: AR, CA, CO, CT, DE, FL, GA, HI, ID, IL, IA, KY, ME, MD, MA, MI, MN, MS, MO, NJ, NY, NC, OH, OK, OR, PA, SC, TN, VA, WA, WV, and WI.

1997-98: AR, CA, CT, FL, GA, HI, ID, IL, IA, KS, KY, ME, MD, MA, MI, MN, MO, NH, NJ, NY, NC, OH, OK, OR, PA, SC, VA, WA, WV, and WI.

1998-99: AR, CA, CT, FL, GA, HI, ID, IL, IA, KS, KY, ME, MD, MA, MI, MN, MO, NH, NJ, NY, NC, OH, OK, OR, PA, SC, VT, VA, WA, WV, and WI.

**Specialty Mushrooms: Area in Production by Variety and United States,  
July 1, 1996 - June 30, 1999 <sup>1</sup>**

Year and Variety	Area		
	Natural Wood Outdoor Logs	Natural Wood Undercover and Indoor Logs	All Other Production Media
1996-97	<i>1,000</i>	<i>1,000</i>	<i>1,000 Square Feet</i>
Shiitake <sup>2</sup>	196	857	1,600
Oyster			286
Other			248
US <sup>3</sup>	196	857	2,134
1997-98			
Shiitake <sup>2</sup>	157	784	1,766
Oyster			359
Other			241
US <sup>3</sup>	157	784	2,366
1998-99			
Shiitake <sup>2</sup>	132	965	2,124
Oyster			616
Other			270
US <sup>3</sup>	132	965	3,010

<sup>1</sup> Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or commercial indoor growing areas.

<sup>2</sup> Includes small quantity of logs producing oyster mushrooms. These logs are not published separately to avoid disclosure of individual operations.

<sup>3</sup> 1996-97: AR, CA, CO, CT, DE, FL, GA, HI, ID, IL, IA, KY, ME, MD, MA, MI, MN, MS, MO, NJ, NY, NC, OH, OK, OR, PA, SC, TN, VA, WA, WV, and WI.

1997-98: AR, CA, CT, FL, GA, HI, ID, IL, IA, KS, KY, ME, MD, MA, MI, MN, MO, NH, NJ, NY, NC, OH, OK, OR, PA, SC, VA, WA, WV, and WI.

1998-99: AR, CA, CT, FL, GA, HI, ID, IL, IA, KS, KY, ME, MD, MA, MI, MN, MO, NH, NJ, NY, NC, OH, OK, OR, PA, SC, VT, VA, WA, WV, and WI.

## Agaricus Mushrooms

Production of Agaricus mushrooms totaled 848 million pounds, up 5 percent from the 1997-98 season and 9 percent above 1996-97. Pennsylvania accounted for half of the total volume of sales and California contributed 16 percent. The value of the Agaricus crop was estimated at \$829 million, compared with \$774 million for the 1997-98 season. Total production of Brown mushrooms, including Portabello and Crimini varieties, accounted for 50.1 million pounds, up 7 percent from 1997-98 and 53 percent higher than 1996-97. The value of the Brown mushroom crop for the 1998-99 season was \$67.5 million, up 12 percent from last year and a 43 percent increase over 1996-97.

The number of Agaricus growers in the U.S. totaled 150, down 6 from last season and 15 below two seasons ago. Of the 150 Agaricus mushrooms growers, 11 realized sales of more than 20 million pounds in the 1998-99 season. Growers with sales exceeding 10 million pounds accounted for 60 percent of U.S. Agaricus production, or 506 million pounds. The other sales groups are as follows:

- between 10.0 million and 19.9 million pounds, 14 growers;
- 5.0 million to 9.9 million pounds, 25 growers;
- 2.5 million to 4.9 million pounds, 26 growers;
- 1.0 million to 2.4 million pounds, 35 growers;
- 0.5 million to 1.0 million pounds, 13 growers;
- less than 0.5 million pounds of sales, 26 growers.

The growing area reached 35.2 million square feet, 2 percent above both the previous year and 1996-97. Yields averaged 5.65 pounds per square foot, the second highest on record; the highest average yield was 5.69 pounds per square foot during the 1996-97 season. Producers received an average return of \$5.52 per square foot, the highest on record. U.S. fresh market production was 77 percent of total sales volume with processed making up the remaining 23 percent, both unchanged from last year. For the 1999-2000 crop, most growers plan to keep their total fillings unchanged from the 1998-99 crop.

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

Volume of sales for commercially grown specialty mushrooms in 1998-99 was 13.0 million pounds, up 36 percent from the 1997-98 season and 21 percent above the 1996-97 season. A specialty grower is defined as having at least 200 natural wood logs in production or some commercial indoor growing area. The average price per pound received by growers, at \$2.97, was 4 cents below last year.

Sales of Shiitake mushrooms totaled 8.24 million pounds for the 1998-99 season, up 31 percent from last year. Price per pound received by growers, at \$3.15, was unchanged from last season. Sales volume of Oyster mushrooms at 3.53 million pounds was 70 percent larger than the 1997-98 season. Sales of exotic mushrooms other than Shiitake or Oyster was 1.20 million pounds, up 3 percent from last season.

The next "Mushrooms" report will be released in August 2000.

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