

Mushrooms



National
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Service

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Department of
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Mushroom Production Down, Value Continues to Increase

U.S. total mushroom production decreased 1 percent during 1991-92 to 743 million pounds, but the value of the crop increased fractionally to \$665 million. Growers received slightly higher prices for both fresh and processed mushrooms as prices averaged 89.5 cents per pound, up 1.6 cents from the previous season. Prices for mushrooms are what producers receive at the point of first sale. Please refer to footnote 1 on page 3 for further explanation. The number of growers decreased as many specialty growers went out business due to difficult growing conditions and marketing problems.

Agaricus mushroom production totaled 739 million pounds, down 1 percent from the previous season. Pennsylvania led all States with 350 million pounds, slightly below last season. Pennsylvania supplied 47 percent of the Agaricus mushrooms grown in the U.S. California ranked second with production at 122 million pounds, down 7 percent from last season's crop. This output represented 17 percent of all Agaricus production.

(continued on page 14)

Agaricus and Specialty Mushrooms: Number of Growers, Volume of Sales, Price, and Value of Sales, July 1, 1989 - June 30, 1992

Year	Growers <u>1/</u>	Volume of Sales	All Sales	
			Price per Pound <u>2/</u>	Value of Sales
	Number	1,000 Pounds	Dollars	1,000 Dollars
1989-90	466	719,148	0.916	659,049
1990-91	460	753,429	0.879	662,013
1991-92	390	743,271	0.895	665,168

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

2/ See footnote 1 on page 3.

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Agaricus Mushrooms: Area, Production, Price, and Value, by State
and United States, July 1, 1989 - June 30, 1992

State, Region, and Year	Area in Production				Production	Price per Pound ^{1/}	Value of Production
	First Filling	Second Filling	Additional Fillings	Total			
	1,000 Square Feet				1,000 Pounds	Dollars	1,000 Dollars
CA							
1989-90	4,216	4,216	15,305	23,737	132,998	0.960	127,701
1990-91	2,982	2,982	17,200	23,164	130,530	0.976	127,446
1991-92	3,467	3,467	14,312	21,246	121,934	0.994	121,208
DE							
1989-90	548	548	665	1,761	6,698	0.762	5,107
1990-91	514	514	606	1,634	5,836	0.674	3,934
1991-92	475	475	534	1,484	5,659	0.659	3,729
FL							
1988-89	327	319	4,760	5,406	31,220	1.110	34,514
1990-91	325	285	4,850	5,460	30,677	1.120	34,439
1991-92	363	333	5,447	6,143	34,427	1.120	38,693
GA							
1989-90	166	166	900	1,232	6,475	1.070	6,916
1990-91	166	166	900	1,232	6,255	1.060	6,628
1991-92	166	166	900	1,232	4,754	0.828	3,938
IN							
1989-90	320	320	1,602	2,242	11,239	1.160	13,029
1990-91	326	326	1,630	2,282	12,168	1.040	12,709
1991-92	320	320	1,618	2,258	11,615	0.915	10,632
MD							
1989-90	247	229	317	793	2,335	0.696	1,625
1990-91	247	247	255	749	2,310	0.658	1,520
1991-92	196	219	292	707	1,983	0.703	1,394
MI							
1989-90	1,025	1,025	1,960	4,010	19,408	1.020	19,756
1990-91	1,321	1,321	2,678	5,320	25,451	0.940	23,934
1991-92	1,310	1,310	1,305	3,925	17,628	0.881	15,525
NY							
1989-90	248	248	94	590	1,527	0.707	1,079
1990-91	130	130	130	390	1,577	0.793	1,251
1991-92	114	114	708	936	4,533	0.886	4,015
OH							
1989-90	462	462	1,562	2,486	13,648	1.030	14,049
1990-91	647	647	1,721	3,015	14,178	0.988	14,005
1991-92	682	682	1,696	3,060	15,768	0.871	13,727

^{1/} See footnotes at end of table.

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Agaricus Mushrooms: Area, Production, Price, and Value, by State
and United States, July 1, 1989 - June 30, 1992 (continued)

State, Region, and Year	Area in Production				Production	Price per Pound ^{1/}	Value of Production
	First Filling	Second Filling	Additional Fillings	Total			
	1,000 Square Feet				1,000 Pounds	Dollars	1,000 Dollars
PA							
1989-90	17,954	17,678	29,277	64,909	332,449	0.771	256,225
1990-91	17,889	17,469	30,148	65,506	351,204	0.701	246,197
1991-92	16,337	16,327	30,183	62,847	350,270	0.730	255,582
Oth Sts ^{2/}							
1989-90	4,401	4,392	21,902	30,695	156,995	1.050	164,737
1990-91	4,340	4,299	22,531	31,170	168,965	1.040	175,852
1991-92	4,565	4,567	23,704	32,836	170,261	1.050	179,560
East ^{3/}							
1989-90	20,040	19,738	43,063	82,841	424,159	0.827	350,834
1990-91	19,857	19,365	44,348	83,570	444,045	0.768	340,969
1991-92	18,323	18,306	45,397	82,026	447,175	0.790	353,455
Central ^{3/}							
1989-90	3,532	3,521	7,853	14,906	77,762	1.050	81,876
1990-91	3,814	3,805	9,446	17,065	88,072	0.996	87,737
1991-92	3,827	3,828	8,260	15,915	80,787	0.981	79,224
West ^{3/}							
1989-90	6,342	6,344	27,428	40,114	213,071	1.000	212,028
1990-91	5,216	5,216	28,855	39,287	217,034	1.010	219,209
1991-92	5,845	5,846	27,042	38,733	210,870	1.020	215,324
US							
1989-90	29,914	29,603	78,344	137,861	714,992	0.902	644,738
1990-91	28,887	28,386	82,649	139,922	749,151	0.865	647,915
1991-92	27,995	27,980	80,699	136,674	738,832	0.877	648,003

^{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/} CO, CT, IL, IA, KS, MN, MO, NJ, OK, OR, SD, TN, TX, UT, WA, and WI.

^{3/} States reporting in 1991-92. East: Federal Regions I-IV include CT, DE, FL, GA, MD, NJ, NY, PA, and TN. Central: Federal Regions V and VII include IL, IA, IN, KS, MI, MN, MO, OH, and WI. West: Federal Regions VI, VIII, IX, and X include CA, CO, OK, OR, SD, TX, UT, and WA.

Agaricus Mushrooms: Volume of Sales, Price, Value, and Type
of Sale, by Region, July 1, 1989 - June 30, 1992

Year, State, Region	Fresh Market			Processing		
	Volume of Sales	Price per Pound <u>1</u> /:	Value of Sales	Volume of Sales	Price per Pound <u>1</u> /:	Value of Sales
	1,000 Pounds	Dollars	1,000 Dollars	1,000 Pounds	Dollars	1,000 Dollars
1989-90						
PA	192,820	0.869	167,561	139,629	0.635	88,664
Oth East	77,835	1.110	86,220	13,875	0.605	8,389
Total	270,655	0.938	253,781	153,504	0.632	97,053
Central Total	56,598	1.160	65,722	21,164	0.763	16,154
West Total	184,651	1.040	192,552	28,420	0.685	19,476
US	511,904	1.000	512,055	203,088	0.653	132,683
1990-91						
PA	189,500	0.800	151,600	161,704	0.585	94,597
Oth East	76,560	1.110	85,097	16,281	0.594	9,675
Total	266,060	0.890	236,697	177,985	0.586	104,272
Central Total	57,891	1.140	65,792	30,181	0.727	21,945
West Total	187,970	1.060	199,478	29,064	0.679	19,731
US	511,921	0.981	501,967	237,230	0.615	145,948
1991-92						
PA	180,400	0.832	150,093	169,870	0.621	105,489
Oth East	74,497	1.120	83,795	22,408	0.628	14,078
Total <u>2</u> /	254,897	0.918	233,888	192,278	0.622	119,567
Central Total <u>2</u> /	56,716	1.090	61,603	24,071	0.732	17,621
West Total <u>2</u> /	181,226	1.080	195,421	29,644	0.671	19,903
US	492,839	0.996	490,912	245,993	0.639	157,091

1/ See footnote 1 on page 3.

2/ States reporting in 1991-92. East: Federal Regions I-IV include CT, DE, FL, GA, MD, NJ, NY, PA and TN. Central: Federal Regions V and VII include IL, IA, IN, KS, MI, MN, MO, OH, and WI. West: Federal Regions VI, VIII, IX, and X include CA, CO, OK, OR, SD, TX, UT, and WA.

Agaricus Mushrooms: Number of Growers, Volume of Sales, Price, and Value for All Sales, by Region, July 1, 1989 - June 30, 1992

Year, State, Region	Growers	All Sales		
		Volume of Sales	Price per Pound <u>1/</u>	Value of Sales
	Number	1,000 Pounds	Dollars	1,000 Dollars
1989-90				
PA	170	332,449	0.771	256,225
Oth East	25	91,710	1.030	94,609
Total	195	424,159	0.827	350,834
Central Total	24	77,762	1.050	81,876
West Total	40	213,071	1.000	212,028
US	259	714,992	0.902	644,738
1990-91				
PA	155	351,204	0.701	246,197
Oth East	23	92,841	1.020	94,772
Total	178	444,045	0.768	340,969
Central Total	22	88,072	0.996	87,737
West Total	38	217,034	1.010	219,209
US	238	749,151	0.865	647,915
1991-92				
PA	143	350,270	0.730	255,582
Oth East	20	96,905	1.010	97,873
Total <u>2/</u>	163	447,175	0.790	353,455
Central Total <u>2/</u>	22	80,787	0.981	79,224
West Total <u>2/</u>	38	210,870	1.020	215,324
US	223	738,832	0.877	648,003

1/ See footnote 1 on page 3.

2/ States reporting in 1991-92. East: Federal Regions I-IV include CT, DE, FL, GA, MD, NJ, NY, PA and TN. Central: Federal Regions V and VII include IL, IA, IN, KS, MI, MN, MO, OH, and WI. West: Federal Regions VI, VIII, IX, and X include CA, CO, OK, OR, SD, TX, UT, and WA.

Agaricus Mushrooms: Pounds Yield and Dollar Volume per Square Foot
of Growing Area, by State and United States,
July 1, 1989 - June 30, 1992

State and Region	Yield per Square Foot		
	1989-90	1990-91	1991-92
	Pounds		
PA	5.12	5.36	5.57
East <u>1</u> /	5.12	5.31	5.45
Central <u>1</u> /	5.22	5.16	5.08
CA	5.60	5.64	5.74
West <u>1</u> /	5.31	5.52	5.44
US	5.19	5.35	5.41
State and Region	Dollar Volume per Square Foot		
	1989-90	1990-91	1991-92
	Dollars		
PA	3.95	3.76	4.07
East <u>1</u> /	4.24	4.08	4.31
Central <u>1</u> /	5.49	5.14	4.98
CA	5.38	5.50	5.70
West <u>1</u> /	5.29	5.58	5.56
US	4.68	4.63	4.74

1/ States reporting in 1991-92. East: Federal Regions I-IV include CT, DE, FL, GA, MD, NJ, NY, PA, and TN. Central: Federal Regions V and VII include IL, IA, IN, KS, MI, MN, MO, OH, and WI. West: Federal Regions VI, VIII, IX, and X include CA, CO, OK, OR, SD, TX, UT, and WA.

Mushrooms: Sales by Type and Percent of Total,
United States, 1967-92 1/ 2/

Year	Fresh Market		Processing		Total Production
	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	457,299	74	157,094	26	614,393
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	492,839	67	245,993	33	738,832

1/ Total production is equivalent to fresh market and processing sales excluding shrinkage, culls, etc.

2/ Total production, fresh market and processing volume of sales estimates are primarily Agaricus, but also includes specialty mushrooms through 1986-87. Statistics after 1986-87 are for Agaricus only.

Mushrooms: Price and Value by Type of Sale,
United States, 1967-92 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	0.969	443,037	0.564	88,621	0.865	531,658
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	0.996	490,912	0.639	157,091	0.877	648,003

1/ See footnote 1 on page 3.

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, Pounds Yield
and Dollar Volume per Square Foot, United States, 1967-92 ^{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	129,660	4.70	3.94
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	223	136,674	5.41	4.74

^{1/} Number of growers, area in production, yield and dollar volume per square foot estimates are primarily Agaricus, but also include specialty mushrooms through 1985-86. Statistics after 1985-86 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 to be in Production
by State and United States, July 1, 1992 - June 30, 1993

State	Intentions Jul 1992 - Jun 1993				Intentions as Percent of 1991-92			
	First Filling:	Second Filling:	Additional Fillings:	Total:	First Filling:	Second Filling:	Additional Fillings:	Total:
	1,000 Square Feet				Percent			
CA	3,486	3,486	14,850	21,822	101	101	104	103
DE	475	475	576	1,526	100	100	108	103
FL	378	354	5,702	6,434	104	106	105	105
GA	166	166	900	1,232	100	100	100	100
IN	320	320	1,724	2,364	100	100	107	105
MD	174	174	293	641	89	79	100	91
MI	656	656	1,281	2,593	50	50	98	66
NY	114	114	712	940	100	100	101	100
OH	682	682	1,696	3,060	100	100	100	100
PA	15,963	16,057	28,803	60,823	98	98	95	97
Oth								
Sts <u>1</u> /	4,540	4,534	24,485	33,559	99	99	103	102
East <u>2</u> /	17,942	18,012	44,348	80,302	98	98	98	98
Central <u>2</u> /	3,162	3,164	8,343	14,669	83	83	101	92
West <u>2</u> /	5,850	5,842	28,331	40,023	100	100	105	103
US	26,954	27,018	81,022	134,994	96	97	100	99

1/ CO, CT, IL, IA, KS, MN, MO, NJ, OK, OR, SD, TN, TX, UT, WA, and WI.

2/ States reporting in 1991-92. East: Federal Regions I-IV include CT, DE, FL, GA, MD, NJ, NY, PA, and TN. Central: Federal Regions V and VII include IL, IA, IN, KS, MI, MN, MO, OH, and WI. West: Federal Regions VI, VIII, IX, and X include CA, CO, OK, OR, SD, TX, UT, and WA.

Specialty Mushrooms: Number of Growers, Total Production, Volume
of Sales, Price, and Value of Sales, by Variety, United States,
July 1, 1989 - June 30, 1992 1/

Year and Variety	Growers	All Sales			
		Total Production <u>2/</u>	Volume of Sales <u>3/</u>	Price per Pound <u>4/</u>	Value of Sales
	Number	--- 1,000 Pounds --		Dollars	1,000 Dollars
1989-90					
Shiitake		2,470	2,256	4.05	9,128
Oyster		1,402	1,315	2.66	3,494
Oth		639	585	2.89	1,689
US	215	4,511	4,156	3.44	14,311
1990-91					
Shiitake		2,556	2,401	3.66	8,776
Oyster		1,242	1,203	2.67	3,207
Oth		773	674	3.14	2,115
US	228	4,571	4,278	3.30	14,098
1991-92					
Shiitake		2,765	2,529	4.11	10,396
Oyster		1,211	1,176	3.47	4,079
Oth		826	734	3.66	2,690
US <u>5/</u>	172	4,802	4,439	3.87	17,165

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 1991-92. East: Federal Regions I-IV include CT, DE, FL, KY, MD, MA, MI, NY, NC, PA, TN, VA, VT, and WV. Central: Federal Regions V and VII include IL, IA, MN, MO, OH, and WI. West: Federal Regions VI, VIII, IX, and X include AR, CA, HI, ID, OR, and UT.

Specialty Mushrooms: Area in Production by Variety,
United States, July 1, 1989 - June 30, 1992 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
1989-90			
Shiitake <u>2/</u>	487	541	742
Oyster			341
Oth			87
US	487	541	1,170
1990-91			
Shiitake <u>2/</u>	319	300	836
Oyster			210
Oth			95
US	319	300	1,141
1991-92			
Shiitake <u>2/</u>	184	274	904
Oyster			171
Oth			100
US	184	274	1,175

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 mushrooms. These logs are not published separately to avoid disclosure of individual operations.

Specialty Mushrooms: Area to be in Production by Variety,
United States, July 1, 1992 - June 30, 1993

Variety	Natural Wood Outdoor Logs	Natural Wood Undercover and Indoor Logs	All other Production Media
	----- 1,000 -----		1,000 Square Feet
	Intentions July 1, 1992 - June 30, 1993		
Shiitake <u>1/</u>	208	314	986
Oyster			191
Oth			101
US	208	314	1,278
	Intentions as Percent of 1991-92		
Shiitake <u>1/</u>	113	115	109
Oyster			112
Oth			101
US	113	115	109

1/ Includes small quantity of logs intended for production of oyster mushrooms. These logs are not published separately to avoid disclosure of individual operations.

(Continued from Page 1)

The value of the 1991-92 Agaricus crop totaled \$648 million, up slightly from the previous season. Growers received an average of 87.7 cents per pound, up 1.2 cents per pound from a year earlier. Prices increased for both fresh and processing mushrooms. Fresh market sales accounted for 67 percent of the Agaricus crop. The average fresh price to growers was 99.6 cents per pound. Sales to processors increased 4 percent to 246 million pounds. The price received by growers for processing mushrooms averaged 63.9 cents per pound.

Agaricus growers used 137 million square feet of bed and tray area to produce the 1991-92 crop. Yields averaged a record high 5.41 pounds per square foot. The dollar volume per square foot also averaged a record high \$4.74. An estimated 135 million square feet of production area is intended for use during the 1992-93 season, 1 percent below the area used during 1990-91. An Agaricus grower is defined as any commercial producer of Agaricus mushrooms.

Specialty Mushrooms

Volume of sales for commercially grown specialty mushrooms (Shiitake, Oyster, and all other specialties) in 1991-92 totaled 4.44 million pounds, 4 percent above the 1990-91 volume. Virtually all specialty mushrooms are sold fresh. The value of the 1991-92 specialty mushroom crop amounted to \$17.2 million, 22 percent over the previous season.

Shiitake sales totaled 2.53 million pounds, 5 percent above last season. This production grew on 184,000 natural wood outdoor logs, 274,000 natural wood undercover and indoor logs, and 904,000 square feet of indoor growing area. The value of sales was \$10.4 million or \$4.11 per pound.

Oyster mushroom sales totaled 1.18 million pounds, down 2 percent from last season. This production was grown on 171,000 square feet of indoor area. The sale of this crop reached a value of \$4.08 million or \$3.47 per pound.

All other specialty sales totaled 734,000 pounds, 9 percent higher than the previous season. Production was achieved on 100,000 square feet of indoor growing area. The value of sales totaled \$2.69 million or \$3.66 per pound.

If grower's 1992-93 intentions are carried out, the number of Shiitake natural wood outdoor logs in production will increase 13 percent, the number of natural wood undercover and indoor logs will increase 15 percent, and the square feet of other production area will increase 9 percent. Oyster producing area is expected to increase 12 percent. All other specialty intentions are up 1 percent. A specialty mushroom grower is defined as one having at least 200 natural wood logs in production or commercial indoor growing area.

The next "Mushrooms" report will be released in August 1993.

