

Mushrooms



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1989-90 MUSHROOM PRODUCTION AND VALUE CONTINUE UPWARD TREND

U.S. total mushroom production continued to increase during 1989-90, jumping 7 percent to almost 721 million pounds. This production includes the conventional button mushrooms (*Agaricus*) and also specialties (*Shiitake*, *Oyster*, and all other specialty varieties). The value of the all mushroom crop, at \$667 million, was 8 percent higher than the previous season. Growers received an average of 92.5 cents per pound, up 0.7 cents from the previous season. Prices for mushrooms are the average prices producers receive at the point of first sale. Please refer to footnote 1 on page 3 for further explanation. The number of growers decreased 7 percent from last season. This decrease was encountered evenly between the *Agaricus* and specialty mushroom growers. However, grower numbers are up 11 percent from the 1987-88 season. This increase is due mostly to a definitional change implemented during the 1988-89 season for specialty mushroom producers. Specialty mushroom estimates through the 1987-88 crop year represented commercial growers with annual sales of over \$10,000. Statistics after 1987-88 represent growers who have at least 200 natural wood logs in production or commercial indoor growing area. This change occurred because there are many small growers of specialty mushrooms who make a considerable contribution to total specialty production and were not included by the earlier definition. An *Agaricus* grower is defined as any commercial producer of *Agaricus* mushrooms. Most of these producers have relatively large operations.

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AGARICUS AND SPECIALTY MUSHROOMS COMBINED: NUMBER OF GROWERS, VOLUME OF SALES, PRICE PER POUND, AND VALUE OF SALES, JULY 1 - JUNE 30

YEAR	GROWERS 1/	VOLUME OF SALES	ALL SALES	
			PRICE PER POUND 2/	VALUE OF SALES
	NUMBER	1,000 POUNDS	DOLLARS	1,000 DOLLARS
1987-88	421	636,804	.890	566,979
1988-89	502	673,273	.918	618,354
1989-90	466	720,865	.925	667,023

1/ NUMBER OF GROWERS COUNTED ONCE IF GROWING BOTH AGARICUS AND SPECIALTY.
2/ SEE FOOTNOTE 1 ON PAGE 3.

AGARICUS MUSHROOMS: AREA, PRODUCTION, PRICE AND VALUE
JULY 1, 1987 TO JUNE 30, 1990

STATE AND YEAR	AREA IN PRODUCTION				PRODUCTION TOTAL	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							
1987-88	3,984	3,972	13,859	21,815	112,580	.979	110,189
1988-89	3,651	3,643	15,742	23,036	129,054	1.000	129,457
1989-90	4,216	4,216	15,305	23,737	132,998	.960	127,701
DE							
1987-88	560	544	578	1,682	5,831	.640	3,732
1988-89	478	471	481	1,430	4,933	.718	3,540
1989-90	548	548	665	1,761	6,698	.762	5,107
GA							
1987-88	166	166	879	1,211	4,914	1.080	5,310
1988-89	166	166	879	1,211	6,501	1.070	6,940
1989-90	308	308	616	1,232	6,475	1.070	6,916
IN							
1987-88	320	320	1,590	2,230	13,108	1.020	13,368
1988-89	320	320	1,590	2,230	13,141	1.040	13,660
1989-90	320	320	1,602	2,242	11,239	1.160	13,029
MD							
1987-88	221	195	246	662	2,058	.790	1,625
1988-89	205	205	254	664	2,056	.769	1,582
1989-90	247	229	317	793	2,335	.696	1,625
MI							
1987-88	1,079	1,079	2,121	4,279	23,359	.887	20,719
1988-89	1,105	1,105	2,288	4,498	22,512	.918	20,675
1989-90	1,025	1,025	1,960	4,010	19,408	1.020	19,756
N Y							
1987-88	275	305	192	772	1,818	.727	1,321
1988-89	360	360	244	964	2,610	.847	2,211
1989-90	248	248	94	590	1,527	.707	1,079
OH							
1987-88	636	636	1,303	2,575	11,065	.952	10,531
1988-89	636	636	1,673	2,945	13,336	.943	12,570
1989-90	462	462	1,562	2,486	13,648	1.030	14,049

AGARICUS MUSHROOMS: AREA, PRODUCTION, PRICE AND VALUE
JULY 1, 1987 TO JUNE 30, 1990

STATE 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							
1987-88	17,722	17,245	25,495	60,462	284,783	.720	205,100
1988-89	16,905	16,472	26,665	60,042	294,070	.736	216,436
1989-90	17,954	17,678	29,277	64,909	332,449	.771	256,225
OIH STS 2/							
1987-88	4,485	4,489	21,423	30,397	151,581	1.020	155,334
1988-89	6,202	4,492	24,945	35,639	179,546	1.050	189,267
1989-90	6,531	4,688	24,888	36,107	188,233	1.060	199,267
EAST 3/							
1987-88	20,236	19,747	37,726	77,709	368,691	.774	285,189
1988-89	19,098	18,618	39,858	77,574	383,180	.801	307,069
1989-90	20,182	19,880	42,779	82,841	424,159	.827	350,834
CENTRAL 3/							
1987-88	3,481	3,480	8,079	15,040	76,555	.970	74,267
1988-89	3,546	3,540	8,636	15,722	80,013	.999	79,966
1989-90	3,538	3,521	7,853	14,912	77,780	1.050	81,892
WEST 3/							
1987-88	6,720	6,713	24,345	37,778	186,573	.991	184,844
1988-89	7,384	5,712	26,267	39,363	204,566	1.020	209,303
1989-90	8,139	6,321	25,654	40,114	213,071	.995	212,028
U S							
1987-88	30,437	29,940	70,150	130,527	631,819	.861	544,300
1988-89	30,028	27,870	74,761	132,659	667,759	.893	596,338
1989-90	31,859	29,722	76,286	137,867	715,010	.902	644,754

- 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 1989-90. CO, CT, FL, IL, IA, KS, MN, MO, NJ, OK, OR, SD, TN, TX, UT, WA, AND WI.
- 3/ STATES REPORTING IN 1989-90. 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, AND VALUE BY TYPE OF SALE,
BY REGIONS, YEARS JULY 1 - JUNE 30

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
1987-88						
PA	185,109	.793	146,791	99,674	.585	58,309
OTHER EAST	68,367	1.040	71,174	15,541	.574	8,915
EAST TOTAL	253,476	.860	217,965	115,215	.583	67,224
CENTRAL TOTAL	49,509	1.110	55,003	27,046	.712	19,264
WEST TOTAL	165,910	1.040	171,999	20,663	.622	12,845
U S	468,895	.949	444,967	162,924	.610	99,333
1988-89						
PA	176,442	.798	140,801	117,628	.643	75,635
OTHER EAST	76,597	1.080	82,841	12,513	.623	7,792
EAST TOTAL	253,039	.884	223,642	130,141	.641	83,427
CENTRAL TOTAL	54,588	1.120	60,978	25,425	.747	18,988
WEST TOTAL	177,048	1.070	190,055	27,518	.699	19,248
U S	484,675	.979	474,675	183,084	.665	121,663
1989-90						
PA	192,820	.869	167,561	139,629	.635	88,664
OTHER EAST	77,835	1.110	86,220	13,875	.605	8,389
EAST TOTAL 2/	270,655	.938	253,781	153,504	.632	97,053
CENTRAL TOTAL 2/	56,616	1.160	65,738	21,164	.763	16,154
WEST TOTAL 2/	184,651	1.040	192,552	28,420	.685	19,476
U S	511,922	1.000	512,071	203,088	.653	132,683

1/ SEE FOOTNOTE 1 ON PAGE 3.

2/ STATES REPORTING IN 1989-90. 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 REGIONS, YEARS JULY 1 - JUNE 30

YEAR, STATE, REGION	GROWERS	ALL SALES		
		VOLUME OF SALES	PRICE PER POUND 1/	VALUE OF SALES
	NUMBER	1,000 POUNDS	DOLLARS	1,000 DOLLARS
1987-88				
PA	230	284,783	.720	205,100
OTHER EAST	29	83,908	.954	80,089
EAST TOTAL	259	368,691	.774	285,189
CENTRAL TOTAL	43	76,555	.970	74,267
WEST TOTAL	55	186,573	.991	184,844
U S	357	631,819	.861	544,300
1988-89				
PA	192	294,070	.736	216,436
OTHER EAST	25	89,110	1.020	90,633
EAST TOTAL	217	383,180	.801	307,069
CENTRAL TOTAL	23	80,013	.999	79,966
WEST TOTAL	39	204,566	1.020	209,303
U S	279	667,759	.893	596,338
1989-90				
PA	170	332,449	.771	256,225
OTHER EAST	25	91,710	1.030	94,609
EAST TOTAL 2/	195	424,159	.827	350,834
CENTRAL TOTAL 2/	24	77,780	1.050	81,892
WEST TOTAL 2/	40	213,071	.995	212,028
U S	259	715,010	.902	644,754

1/ SEE FOOTNOTE 1 ON PAGE 3.

2/ STATES REPORTING IN 1989-90. 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, JULY 1, 1987 TO JUNE 30, 1990

STATE AND REGION	YIELD PER SQUARE FOOT		
	1987-88	1988-89	1989-90
	POUNDS		
PA	4.71	4.90	5.12
EAST 1/	4.74	4.94	5.12
CENTRAL 1/	5.09	5.09	5.22
CA	5.16	5.60	5.60
WEST 1/	4.94	5.20	5.31
U S	4.84	5.03	5.19
STATE AND REGION	DOLLAR VOLUME PER SQUARE FOOT		
	1987-88	1988-89	1989-90
	DOLLARS		
PA	3.39	3.60	3.95
EAST 1/	3.67	3.96	4.24
CENTRAL 1/	4.94	5.09	5.49
CA	5.05	5.62	5.38
WEST 1/	4.89	5.32	5.29
U S	4.17	4.50	4.68

1/ STATES REPORTING IN 1989-90. 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, 1967-90 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	511,922	72	203,088	28	715,010

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 INCLUDE SPECIALITY MUSHROOMS THROUGH 1986-87. STATISTICS AFTER 1986-87 ARE FOR AGARICUS ONLY.

MUSHROOMS: PRICE AND VALUE BY TYPE OF SALE, 1966-90 1/ 2/

YEAR	FRESH MARKET		PROCESSING		ALL SALES	
	PRICE PER POUND	VALUE OF SALES 1,000 DOLLARS	PRICE PER POUND	VALUE OF SALES 1,000 DOLLARS	PRICE PER POUND	VALUE OF SALES 1,000 DOLLARS
1966-67	.465	19,520	.313	38,505	.352	58,025
1967-68	.449	21,384	.303	40,269	.341	61,653
1968-69	.461	25,845	.316	42,011	.359	67,856
1969-70	.451	28,004	.339	44,701	.375	72,705
1970-71	.544	31,688	.390	57,932	.433	89,620
1971-72	.579	38,386	.415	68,496	.462	106,882
1972-73	.555	42,596	.380	67,379	.433	109,975
1973-74	.571	58,407	.367	64,947	.441	123,354
1974-75	.607	76,552	.409	70,690	.492	147,242
1975-76	.719	102,234	.530	88,864	.617	191,098
1976-77	.824	124,613	.669	131,065	.737	255,678
1977-78	.901	172,159	.652	135,429	.771	307,588
1978-79	.949	217,770	.642	144,030	.797	361,800
1979-80	.958	245,201	.576	123,396	.784	368,597
1980-81	.947	260,439	.586	114,060	.798	374,499
1981-82	.968	308,805	.555	109,901	.810	418,706
1982-83	1.000	338,048	.608	93,373	.879	431,421
1983-84	.965	374,327	.646	112,061	.866	486,388
1984-85	.935	392,762	.574	100,886	.829	493,648
1985-86	.948	404,914	.549	88,179	.839	493,093
1986-87	.969	443,037	.564	88,621	.865	531,658
1987-88	.949	444,967	.610	99,333	.861	544,300
1988-89	.979	474,675	.665	121,663	.893	596,338
1989-90	1.000	512,071	.653	132,683	.902	644,754

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, 1966-90 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	137,867	5.19	4.68

- 1/ NUMBER OF GROWERS, AREA IN PRODUCTION, YIELD AND DOLLAR VOLUME PER SQUARE FOOT ESTIMATES ARE PRIMARILY AGARICUS, BUT ALSO INCLUDE SPECIALITY 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

STATE	INTENTIONS JUL 1990 - JUN 1991				INTENTIONS AS PERCENT OF 1989-90			
	FIRST FILLING	SECOND FILLING	ADDITIONAL FILLINGS	TOTAL	FIRST FILLING PERCENT	SECOND FILLING PERCENT	ADDITIONAL FILLINGS PERCENT	TOTAL PERCENT
	1,000 SQUARE FEET				PERCENT			
CA	4,209	4,209	15,380	23,798	100	100	100	100
DE	548	548	681	1,777	100	100	102	101
GA	308	308	616	1,232	100	100	100	100
IN	320	320	1,602	2,242	100	100	100	100
MD	247	229	292	768	100	100	92	97
MI	1,025	1,025	1,960	4,010	100	100	100	100
NY	248	248	94	590	100	100	100	100
OH	462	462	1,562	2,486	100	100	100	100
PA	17,760	17,521	30,055	65,336	99	99	103	101
OTH								
STS 1/	6,561	4,706	27,465	38,732	100	100	110	107
EAST 2/	19,993	19,716	43,862	83,571	99	99	103	101
CENTRAL 2/	3,558	3,541	10,105	17,204	101	101	129	115
WEST 2/	8,137	6,319	25,740	40,196	100	100	100	100
U S	31,688	29,576	79,707	140,971	99	100	104	102

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

2/ STATES REPORTING IN 1989-90. 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 PER POUND, AND VALUE OF SALES, JULY 1 - JUNE 30 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	
1987-88					
SHIITAKE		3,734	3,606	5.34	19,258
OYSTER		961	931	2.33	2,167
OTHER		495	448	2.80	1,254
U S	73	5,190	4,985	4.55	22,679
1988-89					
SHIITAKE		3,724	3,542	4.71	16,669
OYSTER		1,512	1,439	2.72	3,920
OTHER		564	533	2.68	1,427
U S	233	5,800	5,514	3.99	22,016
1989-90					
SHIITAKE		3,968	3,754	4.43	16,616
OYSTER		1,597	1,516	2.61	3,964
OTHER		639	585	2.89	1,689
U S 5/	215	6,204	5,855	3.80	22,269

1/ SPECIALTY MUSHROOM ESTIMATES THROUGH THE 1987-88 CROP YEAR REPRESENT COMMERCIAL GROWERS WITH SALES OF OVER \$10,000. STATISTICS AFTER 1987-88 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 1989-90. EAST: FEDERAL REGIONS I-IV INCLUDE AL, CT, FL, KY, MA, NY, NC, PA, VA, VT, AND WV. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE IL, IA, MI, MN, MO, OH, AND WI. WEST: FEDERAL REGIONS VI, VIII, IX AND X INCLUDE AR, CA, HI, ID, NM, OK, OR, SD, AND UT.

SPECIALTY MUSHROOMS: AREA IN PRODUCTION, JULY 1 - JUNE 30 1/

YEAR AND VARIETY	AREA		
	NATURAL WOOD OUTDOOR LOGS	NATURAL WOOD UNDERCOVER AND INDOOR LOGS	ALL OTHER PRODUCTION MEDIA
1987-88		1,000	1,000 SQUARE FEET
SHIITAKE	390	27	994
OYSTER			176
OTHER			101
U S	390	27	1,271
1988-89			
SHIITAKE	561	244	1,062
OYSTER			325
OTHER			87
U S	561	244	1,474
1989-90			
SHIITAKE 2/	485	541	1,042
OYSTER			391
OTHER			87
U S	485	541	1,520

1/ SPECIALTY MUSHROOM ESTIMATES THROUGH THE 1987-88 CROP YEAR REPRESENT COMMERCIAL GROWERS WITH SALES OF OVER \$10,000. STATISTICS AFTER 1987-88 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

VARIETY	NATURAL WOOD OUTDOOR LOGS	NATURAL WOOD UNDERCOVER AND INDOOR LOGS	ALL OTHER PRODUCTION MEDIA
	1,000		1,000 SQUARE FEET
	INTENTIONS JULY 1, 1990 - JUNE 30, 1991		
SHIITAKE 1/	523	616	1,125
OYSTER			418
OTHER			238
U S	523	616	1,781
	INTENTIONS AS PERCENT OF 1989-90		
SHIITAKE 1/	108	114	108
OYSTER			107
OTHER			274
U S	108	114	117

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)

Agaricus production totaled 715 million pounds, up 7 percent from the previous season. Pennsylvania, the leading State, with 46 percent of the U.S. Agaricus crop, grew 332 million pounds in 1989-90. Pennsylvania also conducts a mushroom broker and repacker survey. This showed that, during the 1989-90 crop year, brokers and repackers purchased almost 156 million pounds of Agaricus mushrooms from Pennsylvania growers at a total value of \$110 million. This represents a 19 percent increase in mushrooms purchased from growers in that State by brokers and repackers and a 21 percent increase in total value from the 1988-89 season. Agaricus production in the Eastern States accounted for 59 percent of the U.S. total production; Central States, 11 percent; and Western States, 30 percent. This year's survey included 259 Agaricus growers with commercial production in 26 States. This was down 20 growers from the previous year. The value of the 1989-90 Agaricus crop was \$645 million, 8 percent above the 1988-89 season. Growers received an average of 90.2 cents per pound. Volume of fresh market sales was 72 percent of the Agaricus crop. The average fresh price to growers was \$1.00 per pound. Sales volume to processors totaled 203 million pounds. The average price received by growers for processing Agaricus mushrooms was 65.3 cents per pound. Agaricus growers used 138 million square feet of bed and tray area to produce the 1989-90 crop. Yields averaged 5.19 pounds per square foot. The dollar volume per square foot averaged \$4.68. An estimated 141 million square feet of production area is intended for use during the 1990-91 season, up 2 percent from the area used during 1989-90.

Volume of sales for commercially grown specialty mushrooms (Shiitake, Oyster, and all other specialties) in 1989-90 totaled 5.86 million pounds, 6 percent above the 1988-89 volume. Virtually all specialty mushrooms are sold fresh. The value of the 1989-90 specialty crop was \$22.3 million, up 1 percent from the previous year. These specialty mushrooms were grown on 485 thousand natural wood outdoor logs, 541 thousand natural wood undercover and indoor logs, and 1.52 million square feet of other indoor area. This compares with 561 thousand natural wood outdoor logs, 244 thousand natural wood undercover and indoor logs, and 1.47 million square feet used as other growing area during the 1988-89 season. This year's survey included 215 specialty growers with commercial production in 27 States. This compares with 233 growers in 26 States for 1988-89. Shiitake sales were 3.75 million pounds, 6 percent above the previous year. This production was grown on 485 thousand natural wood outdoor logs, 541 thousand natural wood undercover and indoor logs, and 1.04 million square feet of other indoor area. The value of sales was \$16.6 million or \$4.43 per pound. Oyster mushroom sales totaled 1.52 million pounds, a 5 percent jump from the 1988-89 season. This production was grown on 391 thousand square feet of indoor area. The value of sales was \$3.96 million or \$2.61 per pound. All other specialty sales totaled 585 thousand pounds, 10 percent higher than the previous season. Production area totaled 87.0 thousand square feet of other indoor area. The value of sales totaled \$1.69 million or \$2.89 per pound. If growers' 1990-91 intentions are carried out, the number of Shiitake natural wood outdoor logs in production will increase 8 percent, the number of natural wood undercover and indoor logs will rise 14 percent, and the square feet of other production area will go up 8 percent. Oyster producing area is expected to increase 7 percent. All other specialty intentions are expected to almost triple.

* **NOTICE** *
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