

Mushrooms



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1988-89 Mushroom Production and Value Continue to Rise

U.S. total mushroom production continued to increase during 1988-89, jumping 6 percent to almost 673 million pounds. This production includes the conventional button mushrooms (*Agaricus*) and also the exotics (*Shiitake*, *Oyster*, and all other exotic varieties). The value of the all mushroom crop, at \$616 million, was 9 percent higher than the previous season. Growers received an average of 91.6 cents per pound, up 2.6 cents from the previous season. The number of growers increased 18 percent due mostly to a definitional change for exotic mushroom producers. Exotic 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 or commercial indoor growing area. This change was implemented because there are many small growers of exotic mushrooms who make a considerable contribution to total exotic 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 EXOTIC 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	VALUE OF SALES
	NUMBER	1,000 POUNDS	DOLLARS	1,000 DOLLARS
1986-87	468	614,393	.865	531,658
1987-88	421	636,804	.890	566,979
1988-89	498	672,860	.916	616,473

1/ NUMBER OF GROWERS COUNTED ONCE IF GROWING BOTH AGARICUS AND EXOTICS.

AGARICUS MUSHROOMS: AREA, PRODUCTION, PRICE AND VALUE
JULY 1, 1987 TO JUNE 30, 1989

STATE AND YEAR	AREA IN PRODUCTION				PRODUCTION TOTAL	PRICE PER POUND	VALUE OF PRODUCTION
	FIRST FILLING	SECOND FILLING	ADDITIONAL FILLINGS				
	1,000 SQUARE FEET				1,000 POUNDS	DOLLARS	1,000 DOLLARS
CALIF							
1987-88	3,984	3,972	13,859	21,815	112,580	.979	110,189
1988-89	3,598	3,590	15,528	22,716	127,478	1.000	127,802
DEL							
1987-88	560	544	578	1,682	5,831	.640	3,732
1988-89	478	471	481	1,430	4,933	.718	3,540
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
IND							
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
MD							
1987-88	221	195	246	662	2,058	.790	1,625
1988-89	205	205	254	664	2,056	.769	1,582
MICH							
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
N Y							
1987-88	275	305	192	772	1,818	.727	1,321
1988-89	360	360	244	964	2,610	.847	2,211
OHIO							
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
OREG							
1987-88	989	989	2,464	4,442	20,722	.824	17,071
1988-89	1,005	1,005	2,879	4,889	21,292	.927	19,748

AGARICUS MUSHROOMS: AREA, PRODUCTION, PRICE AND VALUE
JULY 1, 1987 TO JUNE 30, 1989

STATE AND YEAR	AREA IN PRODUCTION				PRODUCTION	PRICE PER POUND	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
OIH STS 1/							
1987-88	4,485	4,489	21,423	30,397	151,581	1.020	155,334
1988-89	5,364	3,654	21,664	30,682	159,438	1.060	169,386
EAST 2/							
1987-88	20,236	19,747	37,726	77,709	368,691	.774	285,189
1988-89	19,266	18,786	39,442	77,494	384,454	.799	307,023
CENTRAL 2/							
1987-88	3,481	3,480	8,079	15,040	76,555	.970	74,267
1988-89	3,545	3,539	8,650	15,734	79,923	.999	79,879
WEST 2/							
1987-88	6,720	6,713	24,345	37,778	186,573	.991	184,844
1988-89	7,331	5,659	26,053	39,043	202,990	1.020	207,648
U S							
1987-88	30,437	29,940	70,150	130,527	631,819	.861	544,300
1988-89	30,142	27,984	74,145	132,271	667,367	.891	594,550

1/ COLO, CONN, FLA, ILL, IOWA, KANS, N J, OKLA, S C, TENN, TEX, UTAH, WASH, AND WIS.

2/ STATES REPORTING IN 1988-89. EAST: FEDERAL REGIONS I-IV INCLUDE CONN, DEL, FLA, GA, MD, N J, N Y, PA, S C, AND TENN. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE ILL, IOWA, IND, KANS, MICH, OHIO, AND WIS. WEST: FEDERAL REGIONS VI, VIII, IX, AND X INCLUDE CALIF, COLO, OKLA, OREG, TEX, UTAH, AND WASH.

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	VALUE OF SALES	VOLUME OF SALES	PRICE PER POUND	VALUE OF SALES
	1,000 POUNDS		1,000 DOLLARS	1,000 POUNDS		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 1/	253,476	.860	217,965	115,215	.583	67,224
CENTRAL TOTAL 1/	49,509	1.110	55,003	27,046	.712	19,264
WEST TOTAL 1/	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	77,091	1.070	82,285	13,293	.625	8,302
EAST TOTAL 1/	253,533	.880	223,086	130,921	.641	83,937
CENTRAL TOTAL 1/	54,498	1.120	60,891	25,425	.747	18,988
WEST TOTAL 1/	175,472	1.070	188,400	27,518	.699	19,248
U S	483,503	.977	472,377	183,864	.664	122,173

1/ STATES REPORTING IN 1988-89. EAST: FEDERAL REGIONS I-IV INCLUDE CONN, DEL, FLA, GA, MD, N J, N Y, PA, S C, AND TENN. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE ILL, IOWA, IND, KANS, MICH, OHIO, AND WIS. WEST: FEDERAL REGIONS VI, VIII, IX, AND X INCLUDE CALIF, COLO, OKLA, OREG, TEX, UTAH, AND WASH.

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	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 1/	259	368,691	.774	285,189
CENTRAL TOTAL 1/	43	76,555	.970	74,267
WEST TOTAL 1/	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	24	90,384	1.000	90,587
EAST TOTAL 1/	216	384,454	.799	307,023
CENTRAL TOTAL 1/	22	79,923	.999	79,879
WEST TOTAL 1/	38	202,990	1.020	207,648
U S	276	667,367	.891	594,550

1/ STATES REPORTING IN 1988-89. EAST: FEDERAL REGIONS I-IV INCLUDE CONN, DEL, FLA, GA, MD, N J, N Y, PA, S C, AND TENN. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE ILL, IOWA, IND, KANS, MICH, OHIO, AND WIS. WEST: FEDERAL REGIONS VI, VIII, IX, AND X INCLUDE CALIF, COLO, OKLA, OREG, TEX, UTAH, AND WASH.

AGARICUS MUSHROOMS: POUNDS YIELD AND DOLLAR VOLUME PER SQUARE FOOT
OF GROWING AREA, JULY 1, 1987 TO JUNE 30, 1989

STATE AND REGION	YIELD PER SQUARE FOOT		DOLLAR VOLUME PER SQUARE FOOT	
	1987-88	1988-89	1987-88	1988-89
	POUNDS		DOLLARS	
PA	4.71	4.90	3.39	3.60
EAST 1/	4.74	4.96	3.67	3.96
CENTRAL 1/	5.09	5.08	4.94	5.08
CALIF	5.16	5.61	5.05	5.63
WEST 1/	4.94	5.20	4.89	5.32
U S	4.84	5.05	4.17	4.49

1/ STATES REPORTING IN 1988-89. EAST: FEDERAL REGIONS I-IV INCLUDE CONN, DEL, FLA, GA, MD, N J, N Y, PA, S C, AND TENN. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE ILL, IOWA, IND, KANS, MICH, OHIO, AND WIS. WEST: FEDERAL REGIONS VI, VIII, IX, AND X INCLUDE CALIF, COLO, OKLA, OREG, TEX, UTAH, AND WASH.

MUSHROOMS: SALES BY TYPE AND PERCENT OF TOTAL, 1967-89 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	483,503	72	183,864	28	667,367

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 EXOTICS AND SPECIALTIES THROUGH 1986-87. STATISTICS AFTER 1986-87 ARE FOR AGARICUS ONLY.

MUSHROOMS: PRICE AND VALUE BY TYPE OF SALE, 1966-89 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	.977	472,377	.664	122,173	.891	594,550

1/ PRICE PER POUND AND VALUE OF SALES ESTIMATES ARE AT POINT OF FIRST SALE AND INCLUDE ALLOWANCES FOR SOME MARKETING FUNCTIONS. PRICES ARE DERIVED FROM THE VALUE OF SALES ESTABLISHED BY VARIETY AND STATE.

2/ FRESH MARKET, PROCESSING, AND ALL SALES ESTIMATES ARE PRIMARILY AGARICUS, BUT ALSO INCLUDE EXOTICS AND SPECIALTIES 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, 1966-89 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	276	132,271	5.05	4.49

1/ NUMBER OF GROWERS, AREA IN PRODUCTION, YIELD AND DOLLAR VOLUME PER SQUARE FOOT ESTIMATES ARE PRIMARILY AGARICUS, BUT ALSO INCLUDE EXOTICS AND SPECIALTIES 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 1989 - JUN 1990				INTENTIONS AS PERCENT OF 1988-89			
	FIRST FILLING:	SECOND FILLING:	ADDITIONAL FILLINGS:	TOTAL:	FIRST FILLING:	SECOND FILLING:	ADDITIONAL FILLINGS:	TOTAL:
	1,000 SQUARE FEET				PERCENT			
CALIF	3,632	3,624	15,570	22,826	101	101	100	100
DEL	478	471	505	1,454	100	100	105	102
GA	166	166	879	1,211	100	100	100	100
IND	326	326	1,636	2,288	102	102	103	103
MD	205	205	254	664	100	100	100	100
MICH	1,080	1,080	2,296	4,456	98	98	100	99
N Y	360	360	394	1,114	100	100	161	116
OHIO	636	636	1,673	2,945	100	100	100	100
OREG	1,016	1,016	2,901	4,933	101	101	101	101
PA	17,102	16,809	27,746	61,657	101	102	104	103
OTH								
STS 1/	5,279	3,591	22,407	31,277	98	98	103	102
EAST 2/	19,354	19,022	40,968	79,344	100	101	104	102
CENTRAL 2/	3,548	3,544	8,974	16,066	100	100	104	102
WEST 2/	7,378	5,718	26,319	39,415	101	101	101	101
U S	30,280	28,284	76,261	134,825	100	101	103	102

1/ COLO, CONN, FLA, ILL, IOWA, KANS, N J, OKLA, S C, TENN, TEX, UTAH, WASH, AND WIS.

2/ STATES REPORTING IN 1988-89. EAST: FEDERAL REGIONS I-IV INCLUDE CONN, DEL, FLA, GA, MD, N J, N Y, PA, S C, AND TENN. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE ILL, IOWA, IND, KANS, MICH, OHIO, AND WIS. WEST: FEDERAL REGIONS VI, VIII, IX, AND X INCLUDE CALIF, COLO, OKLA, OREG, TEX, UTAH, AND WASH.

EXOTIC 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	VALUE OF SALES
	NUMBER	1,000 POUNDS	DOLLARS	1,000 DOLLARS	
1986-87					
SHIITAKE		3,448	3,436	5.42	18,608
OYSTER		1,428	1,283	2.07	2,653
OTHER		303	299	3.13	935
U S	61	5,179	5,018	4.42	22,196
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		3,705	3,526	4.70	16,589
OYSTER		1,502	1,434	2.72	3,907
OTHER		564	533	2.68	1,427
U S 4/	232	5,771	5,493	3.99	21,923

1/ EXOTIC 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/ TOTAL PRODUCTION INCLUDES ALL FRESH MARKET AND PROCESSING SALES PLUS AMOUNT HARVESTED BUT NOT SOLD (SHRINKAGE, CULLAGE, DUMPED, ETC.)

3/ VIRTUALLY ALL EXOTIC MUSHROOM SALES ARE FOR FRESH MARKET.

4/ STATES REPORTING IN 1988-89. EAST: FEDERAL REGIONS I-IV INCLUDE CONN, FLA, KY, MASS, NC, PA, VA, AND W VA. CENTRAL: FEDERAL REGIONS V AND VII INCLUDE ILL, IND, IOWA, MI, MINN, MO, OHIO, AND WIS. WEST: FEDERAL REGIONS VI, VIII, IX AND X INCLUDE ARK, CALIF, HAW, IDAHO, OKLA, OREG, S DAK, TEX, UTAH, AND WASH.

EXOTIC 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
SHITTAKE	390	27	994
OYSTER			176
OTHER			101
U S	390	27	1,271
1988-89			
SHITTAKE	561	220	1,045
OYSTER			318
OTHER			87
U S	561	220	1,450

1/ EXOTIC 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.

EXOTIC MUSHROOMS: AREA TO BE IN PRODUCTION

VARIETY	AREA TO BE IN PRODUCTION		
	NATURAL WOOD OUTDOOR LOGS	NATURAL WOOD UNDERCOVER AND INDOOR LOGS	ALL OTHER PRODUCTION MEDIA
		1,000	1,000 SQUARE FEET
	INTENTIONS JULY 1, 1989 - JUNE 30, 1990		
SHITTAKE	659	441	1,341
OYSTER	2		346
OTHER			87
U S	661	441	1,774
	INTENTIONS AS PERCENT OF 1988-89		
SHITTAKE	117	200	128
OYSTER	1/		109
OTHER			100
U S	118	200	122

1/ NO OYSTER MUSHROOMS REPORTED GROWN ON NATURAL WOOD OUTDOOR LOGS DURING 1988-89 CROP YEAR.

(Continued from Page 1)

Agaricus production totaled 667 million pounds, up 6 percent from the previous season. Pennsylvania, the leading State, with 44 percent of the U.S. Agaricus crop, grew 294 million pounds in 1988-89. Pennsylvania also conducts a mushroom broker and repacker survey. This showed that, during the 1988-89 crop year, brokers and repackers purchased almost 131 million pounds of Agaricus mushrooms from Pennsylvania growers at a total value of about \$91 million. This represents a 12 percent increase in mushrooms purchased from growers in that State by brokers and repackers and a 14 percent increase in total value from the 1987-88 season. Agaricus production in the Eastern States accounted for 58 percent of the U.S. total production; Central States, 12 percent; and Western States, 30 percent. This year's survey included 276 Agaricus growers with commercial production in 24 States. This was down 81 growers from the previous year. The main reasons for this decrease were smaller growers selling their operations to larger growers and a lack of mushroom compost in Minnesota and South Dakota. The value of the 1988-89 Agaricus crop was \$595 million. Growers received an average of 89.1 cents per pound. Volume of fresh market sales was 72 percent of the Agaricus crop. The average fresh price to growers was 97.7 cents per pound. Sales volume to processors totaled 184 million pounds. The average price received by growers for processing Agaricus mushrooms was 66.4 cents per pound. Agaricus growers used 132 million square feet of bed and tray area to produce the 1988-89 crop. Yields averaged 5.05 pounds per square foot. The dollar volume per square foot averaged \$4.49. An estimated 135 million square feet of production area is intended for use during the 1989-90 season, up 2 percent from the area used during 1988-89.

Volume of sales for commercially grown specialty mushrooms (Shiitake, Oyster, and all other exotics) in 1988-89 totaled 5.49 million pounds, 10 percent above the 1987-88 volume. Virtually all specialty mushrooms are sold fresh. The value of the 1988-89 specialty mushroom crop was \$21.9 million, down 3 percent from the previous year. These specialty mushrooms were grown on 561 thousand natural wood outdoor logs, 220 thousand natural wood undercover and indoor logs, and 1.45 million square feet of other indoor area. This compares with 390 thousand natural wood outdoor logs, 27.0 thousand natural wood undercover and indoor logs, and 1.27 million square feet used as other growing area during the 1987-88 season. This year's survey included 232 specialty growers with commercial production in 26 States. This compares with 73 growers in 18 States for 1987-88. These large increases in growing area and grower numbers are due to the definitional change, as previously mentioned, in addition to new growers entering the exotic mushroom business. Shiitake sales were 3.53 million pounds, 2 percent below the previous year. This production was grown on 561 thousand natural wood outdoor logs, 220 thousand natural wood undercover and indoor logs, and 1.05 million square feet of other indoor area. The value of sales was \$16.6 million or \$4.70 per pound. Oyster mushroom sales totaled 1.43 million pounds. This production was grown on 318 thousand square feet of indoor area. The value of sales was \$3.91 million or \$2.72 per pound. All other specialty sales totaled 533 thousand pounds. Production area totaled 87.0 thousand square feet. The value of sales totaled \$1.43 million or \$2.68 per pound. If growers' 1989-90 intentions are carried out, the number of Shiitake natural wood outdoor logs in production will increase 17 percent, the number of natural wood undercover and indoor logs will double and the square feet of other production area will go up 28 percent. Oyster producing area will be up about 9 percent, while all other specialty intentions are expected to remain unchanged.

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