

Mushrooms



National
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Mushroom Production and Value Continue to Increase

U.S. total mushroom production increased 5 percent during 1990-91 to 756 million pounds. The value of the mushroom crop increased 1 percent to \$671 million. This increase in value is despite lower prices for both fresh and processed mushrooms. Growers received an average of 88.8 cents per pound, down 3.7 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 slightly to 460.

Agaricus mushroom production totaled 749 million pounds, up 5 percent from the previous season. Pennsylvania led all States with 351 million pounds, a 6 percent increase over last season. Pennsylvania supplied 47 percent of the Agaricus mushrooms grown in the U.S. California ranked second with production at 131 million pounds. This output represented 17 percent of all Agaricus production.

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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
1988-89	502	673,273	.918	618,354
1989-90	466	720,916	.925	667,185
1990-91	460	755,557	.888	670,618

^{1/} Number of growers counted once if growing both Agaricus and specialty.
^{2/} See footnote 1 on page 3.

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Vg 2-1-2 (8-91)

Agaricus Mushrooms: Area, Production, Price and Value
July 1, 1988 to June 30, 1991

State and Year	Area in Production				Production	Price per Pound <u>1/</u>	Value of Production
	First Filling	Second Filling	Additional Fillings	Total			
	1,000 Square Feet				1,000 Pounds	Dollars	1,000 Dollars
CA							
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
1990-91	2,989	2,989	18,734	24,712	130,867	.976	127,790
DE							
1988-89	478	471	481	1,430	4,933	.718	3,540
1989-90	548	548	665	1,761	6,698	.762	5,107
1990-91	514	514	606	1,634	5,836	.674	3,934
FL							
1988-89	328	288	4,730	5,346	29,215	1.080	31,431
1989-90	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
GA							
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
1990-91	308	308	616	1,232	6,255	1.060	6,628
IN							
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
1990-91	326	326	1,630	2,282	12,168	1.040	12,709
MD							
1988-89	205	205	254	664	2,056	.769	1,582
1989-90	247	229	317	793	2,335	.696	1,625
1990-91	247	247	255	749	2,310	.658	1,520
MI							
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
1990-91	1,321	1,321	2,678	5,320	25,451	.940	23,934
NY							
1988-89	360	360	244	964	2,610	.847	2,211
1989-90	248	248	94	590	1,527	.707	1,079
1990-91	130	130	130	390	1,577	.793	1,251
OH							
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
1990-91	647	647	1,721	3,015	14,178	.988	14,005

1/ See footnote on page 3.

Agaricus Mushrooms: Area, Production, Price and Value
July 1, 1988 to June 30, 1991

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							
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
1990-91	17,889	17,469	30,148	65,506	351,204	.701	246,197
Oth Sts ^{2/}							
1988-89	5,874	4,204	20,215	30,293	150,331	1.050	157,836
1989-90	6,198	4,369	20,128	30,695	156,995	1.050	164,737
1990-91	6,176	4,263	20,731	31,170	168,965	1.040	175,852
East ^{3/}							
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
1990-91	19,999	19,507	44,064	83,570	444,045	.768	340,969
Central ^{3/}							
1988-89	3,546	3,540	8,636	15,722	80,013	.999	79,966
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	.996	87,737
West ^{3/}							
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	1.000	212,028
1990-91	7,059	5,187	28,589	40,835	217,371	1.010	219,553
US							
1988-89	30,028	27,870	74,761	132,659	667,759	.893	596,338
1989-90	31,853	29,722	76,286	137,861	714,992	.902	644,738
1990-91	30,872	28,499	82,099	141,470	749,488	.865	648,259

- ^{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 1990-91. CO, CT, IL, IA, KS, MN, MO, NJ, OK, OR, SD, TN, TX, UT, WA, and WI.
- ^{3/} States reporting in 1990-91. 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 <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
1988-89						
PA	176,442	.798	140,801	117,628	.643	75,635
Oth 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
US	484,675	.979	474,675	183,084	.665	121,663
1989-90						
PA	192,820	.869	167,561	139,629	.635	88,664
Oth East	77,835	1.110	86,220	13,875	.605	8,389
East Total	270,655	.938	253,781	153,504	.632	97,053
Central Total	56,598	1.160	65,722	21,164	.763	16,154
West Total	184,651	1.040	192,552	28,420	.685	19,476
US	511,904	1.000	512,055	203,088	.653	132,683
1990-91						
PA	189,500	.800	151,600	161,704	.585	94,597
Oth East	76,560	1.110	85,097	16,281	.594	9,675
East Total <u>2/</u>	266,060	.890	236,697	177,985	.586	104,272
Central Total <u>2/</u>	57,891	1.140	65,792	30,181	.727	21,945
West Total <u>2/</u>	188,307	1.060	199,822	29,064	.679	19,731
US	512,258	.981	502,311	237,230	.615	145,948

1/ See footnote 1 on page 3.

2/ States reporting in 1990-91. 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 <u>1/</u>	Value of Sales
	Number	1,000 Pounds	Dollars	1,000 Dollars
1988-89				
PA	192	294,070	.736	216,436
Oth 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
US	279	667,759	.893	596,338
1989-90				
PA	170	332,449	.771	256,225
Oth East	25	91,710	1.030	94,609
East Total	195	424,159	.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	.902	644,738
1990-91				
PA	155	351,204	.701	246,197
Oth East	23	92,841	1.020	94,772
East Total <u>2/</u>	178	444,045	.768	340,969
Central Total <u>2/</u>	22	88,072	.996	87,737
West Total <u>2/</u>	38	217,371	1.010	219,553
US	238	749,488	.865	648,259

1/ See footnote 1 on page 3.

2/ States reporting in 1990-91. 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, 1988 to June 30, 1991

State and Region	Yield per Square Foot		
	1988-89	1989-90	1990-91
	Pounds		
PA	4.90	5.12	5.36
East <u>1/</u>	4.94	5.12	5.31
Central <u>1/</u>	5.09	5.22	5.16
CA	5.60	5.60	5.30
West <u>1/</u>	5.20	5.31	5.32
US	5.03	5.19	5.30
State and Region	Dollar Volume per Square Foot		
	1988-89	1989-90	1990-91
	Dollars		
PA	3.60	3.95	3.76
East <u>1/</u>	3.96	4.24	4.08
Central <u>1/</u>	5.09	5.49	5.14
CA	5.62	5.38	5.17
West <u>1/</u>	5.32	5.29	5.38
US	4.50	4.68	4.58

1/ States reporting in 1990-91. 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, 1967-91 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	512,258	68	237,230	32	749,488

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 specialty mushrooms through 1986-87. Statistics after 1986-87 are for Agaricus only.

Mushrooms: Price and Value by Type of Sale, 1967-91 ^{1/} _{2/}

Year	Fresh Market		Processing		All Sales	
	Price	Value	Price	Value	Price	Value
	per Pound	of Sales	per Pound	of Sales	per Pound	of Sales
	Dollars	1,000 Dollars	Dollars	1,000 Dollars	Dollars	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	512,055	.653	132,683	.902	644,738
1990-91	.981	502,311	.615	145,948	.865	648,259

^{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, 1967-91 1/

Year	Growers <u>2/</u>	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	141,470	5.30	4.58

- 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

: Intentions Jul 1991 - Jun 1992 :Intentions as Percent of 1990-91								
State	: First : Second :Additional:				: First :Second :Additional:			
	:Filling:	Filling:	Fillings :	Total:	Filling:	Filling:	Fillings :	Total
	: 1,000 Square Feet				: Percent			
CA	: 3,054	3,054	18,861	24,969	102	102	101	101
DE	: 514	514	630	1,658	100	100	104	101
FL	: 370	330	5,458	6,158	114	116	113	113
GA	: 308	308	616	1,232	100	100	100	100
IN	: 326	326	1,630	2,282	100	100	100	100
MD	: 256	256	356	868	104	104	140	116
MI	: 1,321	1,321	2,678	5,320	100	100	100	100
NY	: 209	209	404	822	161	161	311	211
OH	: 647	647	1,721	3,015	100	100	100	100
PA	: 17,384	16,995	30,591	64,970	97	97	101	99
Oth	:	:	:	:	:	:	:	:
Sts <u>1/</u>	: 6,156	4,265	21,301	31,722	100	100	103	102
East <u>2/</u>	: 19,629	19,168	45,568	84,365	98	98	103	101
Central <u>2/</u>	: 3,792	3,805	9,465	17,062	99	100	100	100
West <u>2/</u>	: 7,124	5,252	29,213	41,589	101	101	102	102
US	: 30,545	28,225	84,246	143,016	99	99	103	101

1/ CO, CT, IL, IA, KS, MN, MO, NJ, OK, OR, SD, TN, TX, UT, WA, and WI.
2/ States reporting in 1990-91. 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 <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	
1988-89					
Shiitake		3,724	3,542	4.71	16,669
Oyster		1,512	1,439	2.72	3,920
Oth		564	533	2.68	1,427
US	233	5,800	5,514	3.99	22,016
1989-90					
Shiitake		3,968	3,754	4.43	16,616
Oyster		1,672	1,585	2.61	4,142
Oth		639	585	2.89	1,689
U S	215	6,279	5,924	3.79	22,447
1990-91					
Shiitake		4,057	3,902	4.17	16,265
Oyster		1,532	1,493	2.67	3,979
Oth		773	674	3.14	2,115
US <u>5/</u>	228	6,362	6,069	3.68	22,359

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 1990-91. East: Federal Regions I-IV include 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, 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
	1,000		1,000 Square Feet
1988-89			
Shiitake	561	244	1,062
Oyster			325
Oth			87
US	561	244	1,474
1989-90			
Shiitake <u>2/</u>	484	541	1,042
Oyster			386
Oth			87
US	484	541	1,515
1990-91			
Shiitake <u>2/</u>	315	299	1,142
Oyster			261
Oth			95
US	315	299	1,498

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

Variety	Natural Wood Outdoor Logs	Natural Wood Undercover and Indoor Logs	All other Production Media
	1,000		1,000 Square Feet
	Intentions July 1, 1991 - June 30, 1992		
Shiitake <u>1/</u>	276	295	1,215
Oyster			258
Oth			84
US	276	295	1,557
	Intentions as Percent of 1990-91		
Shiitake <u>1/</u>	88	98	106
Oyster			99
Oth			88
US	88	98	104

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 1990-91 Agaricus crop totaled \$648 million, up 1 percent from the previous season. Growers received an average of 86.5 cents per pound, down 3.7 cents per pounds from last season. Prices declined for both fresh and processed utilizations. Volume of fresh market sales was 68 percent of the Agaricus crop. The average fresh price to growers was 98.1 cents per pound. Sales volume to processors increased 17 percent to 237 million pounds. The price received by growers for processing mushrooms averaged 61.5 cents per pound.

Agaricus growers used 141 million square feet of bed and tray area to produce the 1990-91 crop. Yields averaged a record high 5.30 pounds per square foot. The dollar volume per square foot averaged \$4.58. An estimated 143 million square feet of production area is intended for use during the 1991-92 season, up 1 percent from the area used during 1989-90. An Agaricus grower is defined as any commercial producer of Agaricus mushrooms. Most of these producers have relatively large operations.

Specialty Mushrooms

Volume of sales for commercially grown specialty mushrooms (Shiitake, Oyster, and all other specialties) in 1990-91 totaled 6.07 million pounds, 2 percent above the 1989-90 volume. Virtually all specialty mushrooms are sold fresh. The value of the 1990-91 specialty mushroom crop amounted to \$22.4 million, virtually unchanged from the previous season.

Shiitake sales totaled 3.90 million pounds, 4 percent above last season. This production grew on 315,000 natural wood outdoor logs, 299,000 natural wood undercover, and indoor logs, and 1.14 million square feet of indoor growing area. The value of sales was \$16.3 million or \$4.17 per pound.

Oyster mushroom sales totaled 1.49 million pounds, down 6 percent from last season. This production was grown on 261,000 square feet of indoor area. The sale of this crop reached a value of \$3.98 million or \$2.67 per pound.

All other specialty sales totaled 674,000 pounds, 15 percent higher than the previous season. Production was achieved on 95,000 square feet of indoor growing area. The value of sales totaled \$2.12 million or \$3.14 per pound.

If grower's 1991-92 intentions are carried out, the number of Shiitake natural wood outdoor logs in production will decrease 12 percent, the number of natural wood undercover and indoor logs will drop 2 percent, and the square feet of other production area will increase 6 percent. Oyster producing area is expected to decrease 1 percent. All other specialty intentions are up 4 percent. A specialty mushroom grower is defined as one having at least 200 natural wood logs in production or commercial indoor growing area.

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The next "Mushrooms" report will be released in August 1992.

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