

# Trout Production

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Released February 26, 2010, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on *Trout Production* call Chris Hawthorn at (202) 720-0585, office hours 7:30 a.m. to 4:00 p.m. ET.

## Trout Value of Sales Decreased 4 Percent from 2008

The total value of fish sales received by trout growers in the United States totaled 76.9 million dollars for 2009, a decrease of 4 percent from 2008. Idaho accounted for 47 percent of the total value of fish sold.

The number of **trout 12 inches and longer** sold during 2009 totaled 41.1 million fish, up 2 percent from the previous year. The average price per pound was \$1.40, up 2 cents from 2008. The value of sales for the 2009 marketing year was 68.6 million dollars, down 5 percent from 2008. For trout 12 inches or longer 62 percent were sold to processors and 19 percent were sold to fee and recreational fishing establishments.

The number of **6"- 12" trout** sold during 2009 totaled 5.54 million fish, an increase of 9 percent from 2008. The average price per pound was \$2.88 during 2009, down 10 cents from the 2008 price. The total value of sales was 6.57 million dollars during 2009, an 8 percent increase from the previous year. The major sales outlets for 6"- 12" trout were to fee and recreational fishing establishments accounting for 44 percent of total sales, followed by government with 15 percent.

The number of **1"- 6" trout** sold during 2009 totaled 7.93 million, a 12 percent decrease from the previous year. The average value per 1,000 fish was \$214 during 2009, up from \$159 in 2008. The total value of sales was 1.70 million dollars, up 18 percent from last year's total.

## Distributed Trout

Trout distributed for restoration, conservation, and recreational purposes, primarily by State and Federal hatcheries, included 8.1 million 12" or longer fish, 63.6 million 6"- 12" fish, and 87.8 million 1"- 6" fish. The estimated value of fish distributed totaled 100 million dollars, down 2 percent from 2008.

## Trout Losses

Total losses of all trout intended for sale were 19.6 million fish during 2009. Disease accounted for 90 percent of these losses, followed by predators, which totaled 6 percent.

**Trout: Number of Operations Selling and/or Distributing Fish and/or Eggs,  
United States, 2008-2009<sup>1</sup>**

US	Total	Selling Trout	Distributing Trout <sup>2</sup>
	<i>Number</i>	<i>Number</i>	<i>Number</i>
2008 <sup>3</sup>	1,017	463	584
2009	888	348	528

<sup>1</sup> State level number of operations will only be published every five years in conjunction with the Census of Agriculture.

<sup>2</sup> Trout distributed for restoration, conservation, or recreational purposes.

<sup>3</sup> Revised.

**Trout: Value of Fish Sold and Distributed, by State (excluding eggs),  
and United States (excluding and including eggs), 2008-2009**

State	Total Value of Fish Sold		Total Value of Distributed Fish	
	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009
	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>
AR			*	*
CA	8,318	5,270	15,268	12,046
CO	621	1,685	6,733	5,966
GA	547	698	951	1,119
ID	35,583	36,313	7,271	5,582
MI	1,027	933	1,078	1,607
MO	2,245	4,675	1,823	2,707
NY	841	386	*	*
NC	7,135	7,180	1,279	612
OR	952	829	4,252	3,471
PA	5,427	5,149	14,691	12,071
UT	535	529	*	*
VA	1,605	1,619	1,876	1,207
WA	5,805	2,537	9,154	10,053
WV	777	1,562	*	*
WI	1,421	1,791	2,650	2,001
Oth Sts <sup>2</sup>	7,132	5,757	35,567	41,888
US <sup>3</sup>	79,971	76,913	102,593	100,330
US <sup>4</sup>	86,618	84,364		

\* Not published to avoid disclosure of individual operations.

<sup>1</sup> Revised.

<sup>2</sup> Other States include State estimates not listed and States suppressed due to disclosure.

<sup>3</sup> Excludes value of eggs.

<sup>4</sup> Includes value of eggs. Beginning with 2008 data, total value of distributed eggs is no longer published.

**Trout Sales by Size Category, by State  
and United States, 2008-2009**

Size Category and State	Number of Fish		Live Weight				Sales			
			Total		Average per Fish		Total		Average Price per Pound	
	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009
	<i>1,000</i>	<i>1,000</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Fish 12" or Longer										
AR										
CA	2,290	1,400	2,950	1,660	1.3	1.2	7,877	4,864	2.67	2.93
CO	*	440	*	420	*	1.0	*	1,357	*	3.23
GA	174	155	206	197	1.2	1.3	441	593	2.14	3.01
ID	27,600	29,800	35,400	35,600	1.3	1.2	35,046	35,956	0.99	1.01
MI	300	300	296	340	1.0	1.1	864	751	2.92	2.21
MO	*	*	*	*	*	*	*	*	*	*
NY	103	43	98	43	1.0	1.0	451	210	4.60	4.89
NC	3,820	3,400	3,550	3,750	0.9	1.1	6,390	6,488	1.80	1.73
OR	*	140	*	165	*	1.2	*	530	*	3.21
PA	1,340	1,240	1,460	1,320	1.1	1.1	4,336	3,788	2.97	2.87
UT	109	99	124	106	1.1	1.1	433	333	3.49	3.14
VA	640	600	634	600	1.0	1.0	1,433	1,380	2.26	2.30
WA	1,040	400	3,700	1,220	3.6	3.1	4,921	1,269	1.33	1.04
WV	305	630	450	812	1.5	1.3	775	1,437	1.72	1.77
WI	480	480	446	459	0.9	1.0	1,244	1,519	2.79	3.31
Oth Sts <sup>2</sup>	2,200	1,990	3,096	2,400	1.4	1.2	8,221	8,173	2.66	3.41
US	40,401	41,117	52,410	49,092	1.3	1.2	72,432	68,648	1.38	1.40
Fish 6" - 12"										
AR										
CA	*	*	*	*	*	*	*	*	*	*
CO	*	*	*	*	*	*	*	*	*	*
GA	*	*	*	*	*	*	*	*	*	*
ID	*	*	*	*	*	*	*	*	*	*
MI	*	*	*	*	*	*	*	*	*	*
MO	*	*	*	*	*	*	*	*	*	*
NY	136	71	58	26	0.4	0.4	351	119	6.05	4.59
NC	420	390	204	190	0.5	0.5	396	353	1.94	1.86
OR	250	180	78	71	0.3	0.4	253	279	3.24	3.93
PA	540	630	202	289	0.4	0.5	891	1,196	4.41	4.14
UT	*	*	*	*	*	*	*	*	*	*
VA	*	*	*	*	*	*	*	*	*	*
WA	670	810	248	270	0.4	0.3	630	751	2.54	2.78
WV	*	*	*	*	*	*	*	*	*	*
WI	*	*	*	*	*	*	*	*	*	*
Oth Sts <sup>2</sup>	3,092	3,463	1,260	1,439	0.4	0.4	3,585	3,872	2.85	2.69
US	5,108	5,544	2,050	2,285	0.4	0.4	6,106	6,570	2.98	2.88

See footnote(s) at end of table.

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**Trout: Sales by Size Category, by State  
and United States, 2008-2009 (continued)**

Size Category and State	Number of Fish		Live Weight				Sales			
			Total		Average per 1,000 Fish		Total		Average Price per 1,000 Fish	
	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009
	<i>1,000</i>	<i>1,000</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Fish 1" - 6"										
AR	*	*	*	*	*	*	*	*	*	*
CA	*	*	*	*	*	*	*	*	*	*
CO	*	*	*	*	*	*	*	*	*	*
GA	*	*	*	*	*	*	*	*	*	*
ID	*	*	*	*	*	*	*	*	*	*
MI	*	*	*	*	*	*	*	*	*	*
MO	*	*	*	*	*	*	*	*	*	*
NY	88	125	4	3	45.5	24.0	39	57	448	453
NC	3,360	3,000	48	45	14.3	15.0	349	339	104	113
OR	*	80	*	1	*	12.5	*	20	*	256
PA	540	450	6	5	11.1	11.1	200	165	370	367
UT	*	*	*	*	*	*	*	*	*	*
VA	*	*	*	*	*	*	*	*	*	*
WA	980	1,690	36	83	36.7	49.1	254	517	259	306
WV	*	*	*	*	*	*	*	*	*	*
WI	*	*	*	*	*	*	*	*	*	*
Oth Sts <sup>2</sup>	4,057	2,581	89	66	21.9	25.6	591	597	146	231
US	9,025	7,926	183	203	20.3	25.6	1,433	1,695	159	214

\* Not published to avoid disclosure of individual operations.

<sup>1</sup> Revised.

<sup>2</sup> Other States include State estimates not shown and States suppressed due to disclosure.

**Trout: Egg Sales, United States, 2008-2009 <sup>1 2</sup>**

US	Number of Eggs	Average Price per 1,000 Eggs	Total Sales
	<i>1,000</i>	<i>Dollars</i>	<i>1,000 Dollars</i>
2008	364,982	18.20	6,647
2009	358,750	20.80	7,451

<sup>1</sup> Regional numbers for eggs sold have been discontinued.

<sup>2</sup> Total sales may not calculate due to rounding.

**Trout: Percent Sold by Point of First Sale,  
United States, 2008-2009<sup>1 2</sup>**

Category	12" or Longer		6" - 12"	
	2008	2009	2008 <sup>3</sup>	2009
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Live Haulers	5.9	4.0	7.8	8.9
Fee and Recreational Fishing	23.5	18.7	41.9	44.0
Other Producers	2.2	2.0	11.7	4.8
Government	0.7	1.5	23.0	14.5
Direct to Consumers	3.5	5.5	8.1	14.4
Processors	58.4	62.0	1.3	4.2
Restaurant and Retail	5.4	5.7	2.7	2.2
Other	0.3	0.7	3.5	7.0

<sup>1</sup> Excludes distributed fish.

<sup>2</sup> Percentages may not add to 100 due to rounding.

<sup>3</sup> Revised.

**Trout Lost, Intended for Sale: Number and Pounds by Cause,  
United States, 2008-2009**

Category	2008		2009	
	Number Lost	Pounds Lost	Number Lost	Pounds Lost
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>
Disease	22,760	3,719	17,567	2,445
Theft	26	34	37	35
Chemicals	23	4	2	2
Drought	1,428	610	285	128
Flood	164	143	192	132
Predators	1,181	610	1,118	434
Other	706	366	409	361
Total	26,288	5,486	19,610	3,537

**Trout Lost, Intended for Sale: Number and Pounds  
by State and United States, 2008-2009**

State	2008		2009	
	Number Lost	Pounds Lost	Number Lost	Pounds Lost
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>
AR				
CA	194	157	149	67
CO	63	15	55	21
GA	20	10	7	3
ID	21,936	3,505	16,033	2,270
MI	144	75	203	76
MO	305	37	320	59
NY	48	26	55	11
NC	1,807	668	556	313
OR	100	27	47	8
PA	334	161	784	182
UT	50	19	211	26
VA	293	74	221	42
WA	124	148	80	126
WV	85	45	47	28
WI	349	75	519	88
Oth Sts <sup>1</sup>	436	444	323	217
US	26,288	5,486	19,610	3,537

<sup>1</sup> Other States include State estimates not shown and States suppressed due to disclosure.

**Distributed Trout by Size Category, by State  
and United States, 2008-2009**

Size Category and State	Number of Fish		Live Weight				Value			
			Total		Average Pounds per Fish		Total		Average Value per Pound	
	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009
	<i>1,000</i>	<i>1,000</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Fish 12" or Longer										
AR	*	*	*	*	*	*	*	*	*	*
CA	*	2,710	*	2,250	*	0.8	*	7,245	*	3.22
CO	*	90	*	100	*	1.1	*	361	*	3.61
GA	*	*	*	*	*	*	*	*	*	*
ID	*	*	*	*	*	*	*	*	*	*
MI	*	*	*	*	*	*	*	*	*	*
MO	*	*	*	*	*	*	*	*	*	*
NY	*	*	*	*	*	*	*	*	*	*
NC	500	*	407	*	0.8	*	842	*	2.07	*
OR	*	*	*	*	*	*	*	*	*	*
PA	240	120	244	120	1.0	1.0	764	425	3.13	3.54
UT	*	*	*	*	*	*	*	*	*	*
VA	750	380	580	328	0.8	0.9	1,293	643	2.23	1.96
WA	160	140	159	189	1.0	1.4	557	641	3.50	3.39
WV	*	*	*	*	*	*	*	*	*	*
WI	7	5	14	13	2.0	2.6	38	47	2.69	3.65
Oth Sts <sup>2</sup>	6,934	4,662	6,175	4,488	0.8	0.9	17,629	12,700	2.85	2.83
US	8,591	8,107	7,579	7,488	0.8	0.9	21,123	22,062	2.79	2.95
Fish 6" - 12"										
AR	*	*	*	*	*	*	*	*	*	*
CA	8,310	4,960	2,650	1,490	0.3	0.3	7,897	3,740	2.98	2.51
CO	3,380	3,550	1,310	1,340	0.4	0.4	3,720	4,784	2.84	3.57
GA	980	1,170	350	414	0.4	0.4	665	882	1.90	2.13
ID	*	*	*	*	*	*	*	*	*	*
MI	*	*	*	*	*	*	*	*	*	*
MO	*	*	*	*	*	*	*	*	*	*
NY	*	*	*	*	*	*	*	*	*	*
NC	*	*	*	*	*	*	*	*	*	*
OR	2,880	3,050	1,020	1,050	0.4	0.3	4,080	3,150	4.00	3.00
PA	5,480	4,210	2,550	2,450	0.5	0.6	13,005	10,805	5.10	4.41
UT	*	*	*	*	*	*	*	*	*	*
VA	*	*	*	*	*	*	*	*	*	*
WA	11,000	12,500	2,250	2,600	0.2	0.2	7,808	8,528	3.47	3.28
WV	*	*	*	*	*	*	*	*	*	*
WI	2,690	2,280	404	355	0.2	0.2	1,273	1,385	3.15	3.90
Oth Sts <sup>2</sup>	29,130	31,830	9,013	10,596	0.3	0.3	29,984	35,117	3.33	3.31
US	63,850	63,550	19,547	20,295	0.3	0.3	68,432	68,391	3.50	3.37

See footnote(s) at end of table.

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**Distributed Trout by Size Category, by State  
and United States, 2008-2009 (continued)**

Size Category and State	Number of Fish		Live Weight				Value			
			Total		Average per 1,000 Fish		Total		Average Value per 1,000 Fish	
	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009	2008 <sup>1</sup>	2009
	<i>1,000</i>	<i>1,000</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Dollars</i>	<i>1,000 Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Fish 1" - 6"										
AR	*	*	*	*	*	*	*	*	*	*
CA	*	21,300	*	760	*	35.7	*	1,061	*	50
CO	*	17,100	*	200	*	11.7	*	821	*	48
GA	*	*	*	*	*	*	*	*	*	*
ID	23,300	9,400	598	215	25.7	22.9	3,146	1,598	135	170
MI	2,440	2,500	58	54	23.8	21.6	131	1,303	54	521
MO	*	*	*	*	*	*	*	*	*	*
NY	*	*	*	*	*	*	*	*	*	*
NC	*	*	*	*	*	*	*	*	*	*
OR	*	*	*	*	*	*	*	*	*	*
PA	2,650	2,280	63	34	23.8	14.9	922	841	348	369
UT	*	*	*	*	*	*	*	*	*	*
VA	*	*	*	*	*	*	*	*	*	*
WA	11,300	8,750	190	177	16.8	20.2	789	884	70	101
WV	*	*	*	*	*	*	*	*	*	*
WI	3,030	2,830	80	123	26.4	43.5	1,339	569	442	201
Oth Sts <sup>2</sup>	52,026	23,685	1,590	472	30.6	19.9	6,711	2,800	129	118
US	94,746	87,845	2,579	2,035	27.2	23.2	13,038	9,877	138	112

\* Not published to avoid disclosure of individual operations.

<sup>1</sup> Revised.

<sup>2</sup> Other States include State estimates not shown and States suppressed due to disclosure.

## Reliability of Trout Production Estimates

**Survey Procedures:** Data for trout production are collected from all known producers in the sixteen published states and a sample of producers from the remaining states. Individual NASS field offices maintain a list of all known trout producers and use known sources of producers to update their lists. Operators are mailed a questionnaire as close as possible to January 1 and given adequate time to respond by mail. Those that do not respond by mail are telephoned or possibly enumerated in person during the middle of January.

**Estimation Procedures:** Sound statistical methodology is employed to derive the estimates from reported data. All data are analyzed for unusual values. Data from each operation are compared to their own past operating profile and to trends from similar operations. Data for missing operations were estimated based on similar operations or historical data. NASS field offices prepare these estimates by using a combination of survey indications and historic trends. Individual State estimates are reviewed by the Agricultural Statistics Board for reasonableness.

**Revision policy:** Estimates for the previous year are subject to revision when current estimates are made. Revisions are the result of late or corrected data.

**Reliability:** In the sixteen published states, Trout production estimates are based on a census of all known active producers and therefore, have no sampling variability. However, since all operations in the other states category are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to errors such as omissions, duplication, and mistakes in reporting, recording, and processing the data. While these errors cannot be measured directly, they are minimized through strict quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

## Terms and Definitions Used for Trout Production Estimates

**12" or Longer Fish:** Grown commercially for food, usually weighing from three-fourths to one and one-half pounds.

**6"- 12" Fish:** Usually stockers that weigh less than three-fourths of a pound. They may be sold as foodsize fish.

**Fingerlings:** Fish usually from 1 to 6 inches long.

**Live Haulers:** Person who buys live fish on the farm and functions as a middleman.

**Chemicals:** Includes losses from pesticides or herbicide poisoning.

**Disease:** Includes losses from both parasitic and bacterial caused sickness.

**Drought:** Includes losses from lack of water causing oxygen depletion.

**Floods:** Includes losses from too much water washing the fish away.

**Predators:** Includes losses from mink, otters, birds, and other animals.

**Theft/Vandalism:** The unauthorized removal of fish and/or the destruction of property causing a loss of fish by intentional acts by persons known or unknown.

## Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information.

Dan Kerestes, Chief, Livestock Branch .....(202) 720-3570

Bruce Boess, Head, Poultry and Specialty Commodities Section.....(202) 720-4447

    Doug Bounds - Poultry Slaughter, Turkey Hatchery, Turkeys Raised.....(202) 690-3237

    David Colwell - Cold Storage .....(202) 720-8784

    Chris Hawthorn - Catfish Processing, Catfish Production, Trout Production,  
        Census of Aquaculture, Egg Products, Mink.....(202) 720-0585

    Kim Linonis - Layers, Eggs .....(202) 690-8632

    Troy Marshall - Broiler Hatchery, Chicken Hatchery, Honey .....(202) 720-3244

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