

MANUFACTURED DAIRY PRODUCTS

Milk Production: Washington state milk production increased to 5.6 billion pounds in 2002. Washington's milk production per cow increased to 22,753 pounds in 2002 from 22,324 pounds in 2001. Washington continues to produce better than the National average--4,182 pounds, but falls behind Arizona, which leads the Nation with 23,486 pounds per cow. The 2002 average number of milk cows on farms was 247,000 head, the same as in 2000 and 2001. Cash receipts from marketings of milk during 2002 totaled \$671 million, down 18 percent from 2001's total of \$822 million. Producer returns were \$12.00 per hundredweight, down \$3.00 from the 2001 average of \$15.00. Marketings consisting of whole milk, producer separated cream sold to plants and dealers, as well as milk sold directly to consumers, totaled 5.6 billion pounds, which was 112 million pounds above 2001. Approximately 28 million pounds were used on farms of which

96 percent was fed to calves, and 4 percent was utilized in producer households.

Manufactured Dairy: Manufactured dairy products absorb the majority of milk produced in Washington state, at 76 percent, up 2 percent from 2002. Production of butter in 2002 was 107.5 million pounds, up 5 percent from 102.1 million pounds in 2001. Washington state utilized 1.5 billion pounds of milk and produced 153.0 million pounds of American cheese in 2002. Total cheese produced in Washington in 2002, excluding cottage cheese, was 153.9 million pounds, up 5 percent from production in 2001. Washington produced 14.9 million gallons of regular ice cream and 6.8 million gallons of lowfat ice cream in 2002. Sherbet production in Washington was 0.7 million gallons in 2002 compared to 1.1 million gallons in 2001.

Whole Milk Equivalent Used in Manufacturing Products: Washington, 1998-2002, 1/

Product	1998	1999	2000	2001	2002
	1,000 Pounds				
Butter	1,623,306	2,692,849	2/	2,305,301	2,420,654
Cheese: American	1,168,114	1,201,769	2/	1,432,056	1,531,172
(Other than American)	2/	2/	2/	16,803	2/
Ice Cream & Other Frozen Products 3/	338,388	336,055	323,479	289,372	256,921
Other Milk Products 4/	28,934	30,356	33,151	31,885	32,180
TOTAL 5/	3,434,507	4,396,097	4,626,128	4,075,417	4,245,695
Duplications 6/	137,559	120,710	133,429	124,381	129,031
NET TOTAL 7/	3,296,948	4,275,387	4,492,699	3,951,036	4,116,664

1/ Products manufactured do not necessarily show utilization of milk produced in the State because of interstate shipments of milk. No adjustment has been made for shipments of milk and cream between States differing in the test of milk produced.

2/ Not published to avoid disclosure of individual operations.

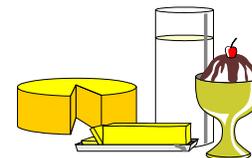
3/ Excludes frozen yogurt.

4/ Includes cottage cheese, anhydrous milkfat, butter oil, and butterine.

5/ Milk equivalent of other dairy products, including items produced by fewer than 3 plants.

6/ Milk equivalent used in manufacturing more than one product.

7/ Net total accounts for fat recovered from whey cream and used for making butter and the amount of fat from butter and condensed milk used in making ice cream.



Milk Production & Disposition, Washington, 1993-2002

Year	Production 1/			Disposition			Total Quantity 2/	Fluid Grade 3/	
	Fat in All Milk Produced	Total		Milk Used Where Produced					
		Milk	Milkfat	Fed to Calves 1/	Used for Milk, Cream, Butter	Total			
	Percent	Million Pounds							
1993	3.67	4,980	182.8	25	4	29	4,951	100	
1994	3.63	5,203	188.9	26	5	31	5,172	100	
1995	3.63	5,304	192.5	28	1	29	5,273	100	
1996	3.64	5,279	192.2	27	1	28	5,251	100	
1997	3.64	5,305	193.1	30	1	31	5,274	100	
1998	3.66	5,326	194.9	26	1	27	5,299	100	
1999	3.65	5,535	202.0	29	1	30	5,505	100	
2000	3.65	5,593	204.1	35	2	37	5,556	100	
2001	3.66	5,514	201.8	33	1	34	5,480	100	
2002	3.67	5,620	206.3	27	1	28	5,592	100	

1/ Excludes milk sucked by calves. 2/ Milk sold to plants and dealers as whole milk and equivalent amounts of milk for cream. Includes milk produced by dealers' own herds and milk sold directly to consumers. Also includes milk produced by institutional herds. 3/ Percentage of milk sold that is eligible for fluid use (Grade A in most States). Includes fluid-grade milk used in manufacturing dairy products.

Marketings, Income, & Value of Milk Production, Washington, 1993-2002

Year	Combined Marketings of Milk and Cream			Cash Receipts from Marketings	Used for Milk, Cream & Butter Where Produced		Gross Producer Income 3/	Value of Milk Produced 1/ 4/
	Milk Utilized	Average Returns 1/			Milk Utilized	Value 2/		
		Per 100 Lbs. Milk	Per Lb. Milkfat					
	Million Pounds	Dollars	1,000 Dollars	Million Lbs.	1,000 Dollars			
1993	4,951	12.83	3.49	635,005	4	513	635,518	638,724
1994	5,172	13.09	3.61	677,191	5	655	677,846	681,250
1995	5,273	12.98	3.57	684,172	1	130	684,302	688,194
1996	5,251	15.01	4.12	788,075	1	150	788,225	792,277
1997	5,274	13.81	3.79	728,143	1	138	728,281	732,423
1998	5,299	15.90	4.34	842,541	1	159	842,700	846,834
1999	5,505	14.90	4.08	820,245	1	149	820,394	824,715
2000	5,556	12.80	3.51	711,168	2	256	711,424	715,904
2001	5,480	15.00	4.10	822,000	1	150	822,150	827,100
2002	5,592	12.00	3.27	671,040	1	120	671,160	674,400

1/ Cash receipts divided by milk for milkfat represented in combined marketings. 2/ Valued at averaged returns per 100 pounds of milk in combined marketings of milk and cream. 3/ Cash receipts from marketings of milk and cream plus value of milk used for home consumption. 4/ Includes value of milk fed to calves.

Dairy Products Manufactured: Washington, 1998-2002

Product	1998	1999	2000	2001	2002
	1,000 Pounds				
Butter	71,902	118,936	122,012	102,110	107,511
Cheese Types:					
Other American Var. 1/	14,244	17,356	23,634	28,909	26,914
Cheddar 2/	102,217	102,184	118,610	113,867	126,096
Total American Varieties 3/	116,461	119,540	142,244	142,776	153,010
Total Cheese 4/	173,365	145,510	159,072	146,715	153,901
Nonfat Dry Milk For Human Food	140,161	182,064	184,463	187,346	191,958
Dry Skim Milk For Animal Feed	707	413	547	993	768
Dry Whey for Human Food	93,507	78,318	88,297	81,905	93,977
	1,000 Gallons				
Frozen Products:					
Ice Cream, Reg., Hard	19,429	19,965	17,764	16,098	14,183
Sherbert, Hard	1,107	1,005	794	-	585
Water & Juice Ices 5/	1,912	1,385	-	1,595	-
Ice Cream, Regular (Total) 6/	20,137	20,378	17,878	16,188	14,918
Ice Cream, Lowfat 7/	6,550	5,723	8,863	8,795	6,763
Sherbet (Total)	1,160	1,028	821	1,106	685
Mix Produced:					
Ice Cream, Regular	10,105	10,358	9,299	8,420	7,740
Ice Cream, Lowfat 9/	3,908	3,538	3,340	3,081	2,747
Sherbet	767	664	599	742	445

1/ Includes Colby, Monterey, and Jack. 2/ Cheddar is an American variety of cheese. 3/ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack. 4/ Excludes cottage cheese. 5/ Does not include counter-freezer production. 6/ Contains minimum milkfat content of 10 percent and not less than 4.5 pounds per gallon. 7/ Includes hard, soft-serve, and freezer-made milkshakes. Contains less than 10 percent milkfat required for ice cream. 8/ Not published to avoid disclosure of individual operations. 9/ Includes milkshake mix.

Dairy Products: Per Capita Consumption, United States, 1997-2001

Year	Cottage Cheese Total	Total Cheese	American Cheese	Ice Cream	Lowfat Ice Cream	Frozen Yogurt
	Pounds			Gallons		
1997	2.6	27.5	11.8	16.1	7.8	2.0
1998	2.7	27.8	11.9	16.3	8.1	2.1
1999	2.6	29.0	12.6	16.7	7.5	1.9
2000	2.6	29.8	12.7	16.5	7.5	1.8
2001	2.6	30.0	12.8	16.3	7.3	1.5

Source: Economic Research Service (ERS), US Department of Agriculture.

MILK COWS & PRODUCTION

Dairy: Number of Milk Cows on Farms, By Months, Washington, 1993-2002 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average 2/
Thousand Head													
1993	251	252	254	256	257	258	260	261	260	258	257	257	257
1994	258	256	257	260	261	262	262	263	262	264	261	263	261
1995	263	263	264	265	265	266	267	266	264	262	261	260	264
1996	260	259	258	257	257	257	256	256	257	257	256	255	257
1997	255	255	254	254	255	254	253	252	252	251	251	250	253
1998	250	250	249	249	248	247	247	247	247	247	247	248	248
1999	248	248	249	248	247	247	249	247	247	245	245	246	247
2000	246	246	246	247	247	247	247	247	247	248	248	247	247
2001	247	247	246	246	246	247	247	247	247	247	247	247	247
2002	247	247	247	247	247	248	248	248	247	247	247	247	247

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Average based on monthly totals.



Dairy: Milk Production Per Cow, By Months, Washington, 1993-2002 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total	Milkfat
Pounds													Pounds/Head	
1993	1,625	1,490	1,660	1,630	1,685	1,630	1,675	1,645	1,580	1,625	1,550	1,600	19,377	711
1994	1,635	1,505	1,690	1,665	1,750	1,700	1,725	1,720	1,650	1,665	1,600	1,645	19,935	724
1995	1,675	1,530	1,710	1,685	1,760	1,710	1,735	1,740	1,645	1,675	1,585	1,650	19,932	724
1996	1,670	1,550	1,705	1,700	1,785	1,740	1,785	1,790	1,705	1,740	1,660	1,710	19,996	728
1997	1,720	1,590	1,800	1,780	1,845	1,795	1,850	1,790	1,710	1,730	1,640	1,720	20,968	763
1998	1,745	1,605	1,805	1,790	1,885	1,835	1,845	1,840	1,775	1,815	1,740	1,805	21,476	786
1999	1,845	1,695	1,885	1,870	1,935	1,880	1,940	1,915	1,855	1,885	1,805	1,885	22,409	818
2000	1,900	1,795	1,945	1,935	1,980	1,910	1,965	1,940	1,845	1,860	1,765	1,815	22,644	827
2001	1,845	1,680	1,885	1,860	1,950	1,900	1,960	1,945	1,835	1,860	1,780	1,845	22,324	817
2002	1,880	1,735	1,930	1,910	2,005	1,925	1,965	1,965	1,855	1,870	1,800	1,890	22,753	835

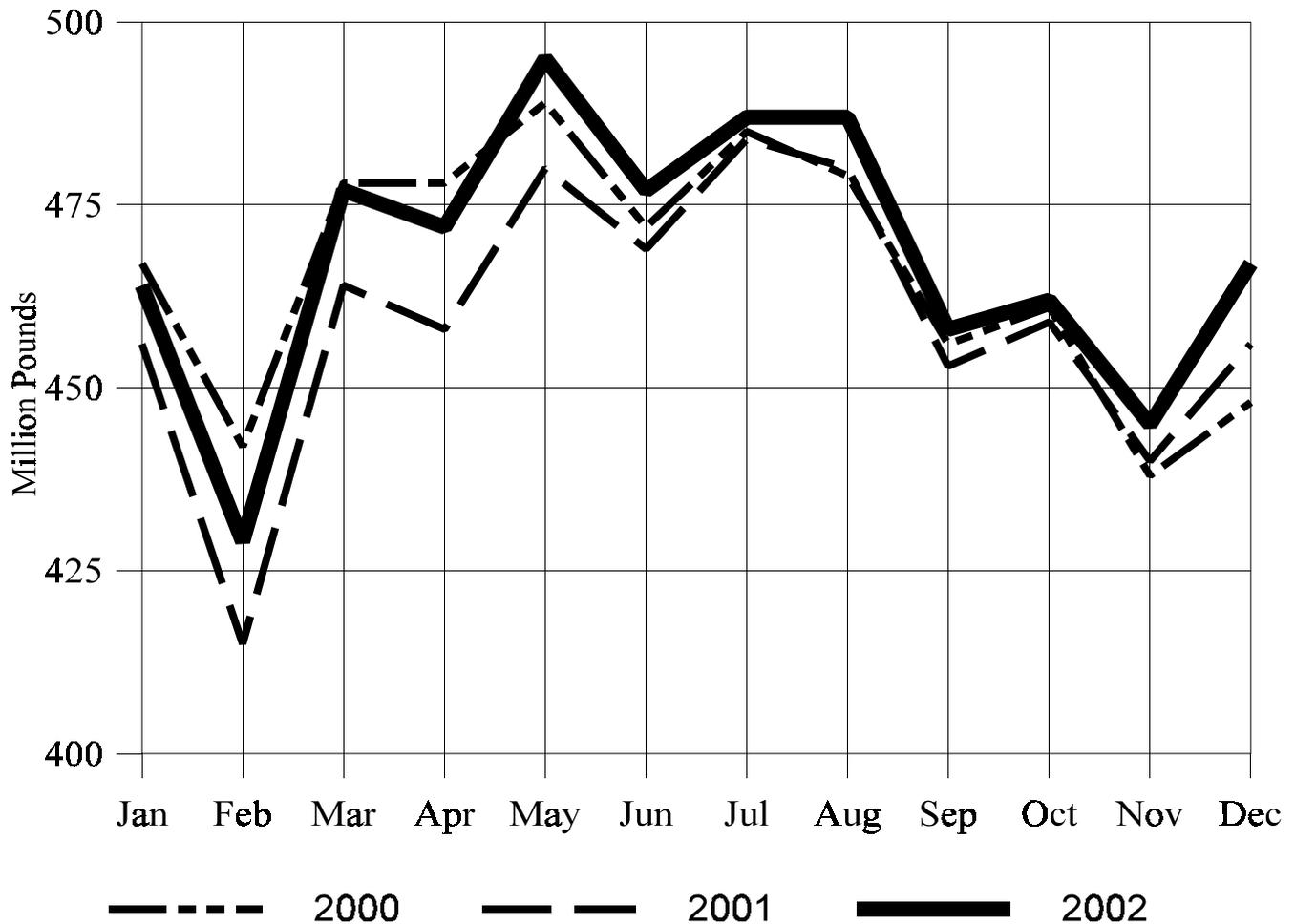
1/ Excludes milk sucked by calves.

Dairy: Milk Production, By Months, Washington, 1993-2002 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total 2/
	Million Pounds												
1993	408	375	422	417	433	421	436	429	411	419	398	411	4,980
1994	422	385	434	433	457	445	452	452	432	440	418	433	5,203
1995	441	402	451	447	466	455	463	463	434	439	414	429	5,304
1996	434	401	440	437	459	447	457	458	438	447	425	436	5,279
1997	439	405	457	452	470	456	468	451	431	434	412	430	5,305
1998	436	401	449	446	467	453	456	454	438	448	430	448	5,326
1999	458	420	469	464	478	464	483	473	458	462	442	464	5,535
2000	467	442	478	478	489	472	485	479	456	461	438	448	5,593
2001	456	415	464	458	480	469	484	480	453	459	440	456	5,514
2002	464	429	477	472	495	477	487	487	458	462	445	467	5,620

1/ Excludes milk sucked by calves. 2/ Total milk production for year.

Monthly Milk Production



Milk Cows: By Counties, Washington, January 1, 1999-2003

County & District	1999	2000	2001	2002	2003
Head					
COUNTY					
Adams	1/	3,900	5,500	6,100	6,100
Asotin	1/	1/	1/	1/	1/
Benton	1/	1/	1/	1/	1/
Chelan	1/	1/	1/	1/	1/
Clallam	800	1/	1/	800	900
Clark	5,400	4,900	4,100	4,000	4,000
Columbia	1/	1/	1/	1/	1/
Cowlitz	1/	1/	1/	800	800
Douglas	1/	1/	1/	1/	1/
Ferry	1/	1/	1/	1/	1/
Franklin	4,400	4,500	5,800	5,600	5,500
Garfield	1/	1/	1/	1/	1/
Grant	12,200	11,800	11,600	13,200	14,100
Grays Harbor	3,900	3,700	3,500	3,500	3,700
Island	2,400	2,200	1/	1,700	1,600
Jefferson	1/	1/	800	800	800
King	16,900	16,300	13,900	13,200	13,200
Kitsap	1/	1/	1/	1/	1/
Kittitas	1/	1/	1/	1/	1/
Klickitat	1,500	1,400	1,300	1/	1,100
Lewis	8,400	9,000	9,100	9,100	9,200
Lincoln	1/	1/	1/	1/	1/
Mason	1/	1/	1/	1/	1/
Okanogan	1/	1/	1/	1/	1/
Pacific	2,100	2,000	1,700	1,700	1,700
Pend Oreille	1/	1/	1/	1/	1/
Pierce	6,900	6,800	5,800	5,800	5,600
San Juan	1/	1/	1/	1/	1/
Skagit	20,500	18,900	17,400	17,300	17,000
Skamania	1/	1/	1/	1/	1/
Snohomish	21,400	21,000	18,600	17,300	16,300
Spokane	2,500	2,600	1/	2,100	1,900
Stevens	1,600	1,500	1/	1,600	1,600
Thurston	11,500	11,100	11,100	11,100	10,900
Wahkiakum	600	600	400	400	500
Walla Walla	1/	1/	1/	1/	300
Whatcom	64,300	63,800	62,900	62,900	62,700
Whitman	1/	1/	1/	1/	400
Yakima	51,400	53,700	62,200	63,500	64,600
Other Counties	9,300	6,300	10,300	4,500	2,500
DISTRICT					
West	166,600	162,600	152,300	150,500	149,000
Central	55,900	57,600	66,100	67,000	68,000
Northeast	4,100	4,100	2/	3,700	3,500
East Central	19,800	20,300	23,000	25,000	25,800
Southeast	1,600	1,400	2/	800	700
Other Districts	-	-	4,600	-	-
STATE TOTAL	248,000	246,000	246,000	247,000	247,000
Number of Operations	1,200	1,100	1,000	950	-

1/ Included in "Other Counties" category to avoid disclosure of individual operations.

2/ Included in "Other Districts" category to avoid disclosure of individual operations.