



UPPER MIDWEST DAIRY NEWS

H. Paul Kyburz, Market Administrator

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Cheese and Butter Prices Mixed

Prices for cheddar cheese on the Chicago Mercantile Exchange (CME) rebounded above \$1.45 per pound in the second half of November, but fell below \$1.35 per pound in the first half of December. On December 15, the CME barrel and block prices closed at \$1.35 and \$1.32³/₄ per pound, down ³/₄¢ and 9¢ from a month earlier, respectively. Barrel and block prices are 11¢ and 37³/₄¢ below year-earlier levels, respectively.

In December, the CME butter price rebounded after it dropped to \$1.53 per pound in late November. On December 15,

the butter price was \$1.65 per pound, down 33¹/₂¢ from last month, but 20¢ above the year-earlier level.

The November Federal order Class III price was \$15.44 per cwt., down \$1.50 from October, but \$1.36 above November 2009.

The December CME Class III futures price is currently at around \$13.80 per cwt., with January, February, and March trading between \$13.20 and \$13.80 per cwt. The CME Class III futures prices for April, May, and June currently remain above \$14.00 per cwt.

Two Staff Papers Released

The Upper Midwest Order released two staff papers in November 2010 prepared by Dr. Corey Freije, an agricultural economist with the Upper Midwest Order.

Staff Papers 10-02 and 10-03 entitled “*Analysis of Component Levels and Somatic Cell Count in Individual Herd Milk at the Farm Level -- 2008*” and

“*Analysis of Component Levels and Somatic Cell Count in Individual Herd Milk at the Farm Level -- 2009*”, respectively, have both been published on our website at:

www.fmms30.com/Homepage/FO30_STAFF_PAPERS.htm.

A paper copy of either study can be obtained

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Pool Summary

- In November, producer milk totaled 2.6 billion pounds, down 105 million pounds from October, but 219 million pounds above November 2009.
- Class I utilization totaled 380 million pounds, up 5.7% on a daily basis from October. Class I usage accounted for 14.4% of producer milk.
- Class III utilization totaled 2.2 billion pounds and accounted for 82.7% of producer milk.
- The November Producer Price Differential (PPD) was \$0.48 per cwt.
- The Statistical Uniform Price was \$15.92 per cwt., down \$1.25 from October, but \$1.80 above November 2009.
- Market statistics for November are shown on Pages 4 and 5.

November 2010 Producer Milk by Class

	Percent	Product Pounds	Price \$/cwt.
Class I	14.4	379,594,161	19.04
Class II	2.2	57,712,453	17.21
Class III	82.7	2,184,010,995	15.44
Class IV	0.7	19,385,567	16.68
Total		2,640,703,176	

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by calling Dr. Freije, toll free, at (888) 301-8224, Ext. 226.

Data on the butterfat, protein, other solids and solids-not-fat (SNF) levels and somatic cell count (SCC) were examined for producer milk associated with the Upper Midwest Order during 2008 and 2009.

Results from the analyses include: market and state averages and seasonal variation in component levels and SCC, and statistical relationships among the four components in individual herd milk at the farm level.

2008 Major Findings

- 1) Weighted average component levels and SCC for 2008 were 3.71% butterfat, 3.04% protein, 5.71% other solids, 8.75% SNF and 283,000 SCC.

- 2) For 2008, weighted average butterfat levels were lowest in July, while protein and SNF levels were lowest in July and highest during the fall and winter. In contrast, other solids levels varied little during the year. Weighted average SCC were lowest in the fall and winter and highest in August.

- 3) Butterfat, protein, and SCC tests declined with increasing monthly average milk production, while other solids and solids-not-fat tests increased with increasing monthly milk production.

- 4) In 2008, the range of weighted average component levels within one standard deviation of the mean was: 3.45% to 3.97% for butterfat; 2.89% to 3.19% for protein; 5.62% to 5.80% for other solids; 8.57% to 8.93% for SNF; and 146,000 to 420,000 for SCC.

- 5) Based on the data for 2008, the following regression equations were derived:

$$\text{SNF} = 7.23152\% + 0.39116 (\text{BF})$$

$$\text{SNF} = 5.45752\% + 1.06565 (\text{PRO})$$

$$\text{PRO} = 1.51689\% + 0.40586 (\text{BF})$$

- 6) The annual weighted average value of butterfat, protein, and other solids, adjusted for SCC, was \$18.01 per cwt. for the market in 2008. Protein was the most valuable component, contributing over half of the total value.

2009 Major Findings

- 1) Weighted average component levels and SCC for 2009 were 3.70% butterfat, 3.04% protein, 5.73% other solids, 8.77% SNF and 265,000 SCC.
- 2) For 2009, weighted average butterfat levels were lowest in July, while pro-

Weighted Average Levels of Selected Components and Somatic Cell Count in Milk by Month

2008

<u>Month</u>	<u>Butterfat</u>	<u>Protein</u>	<u>Other Solids</u>	<u>Solids Not-Fat</u>	<u>Somatic Cell Count</u>
	- % -	- % -	- % -	- % -	- 1,000 -
January	3.81	3.10	5.69	8.79	259
February	3.79	3.10	5.70	8.80	281
March	3.77	3.07	5.70	8.77	287
April	3.72	3.02	5.70	8.72	281
May	3.66	3.01	5.70	8.71	284
June	3.60	2.97	5.73	8.70	299
July	3.57	2.93	5.72	8.65	313
August	3.59	2.95	5.72	8.67	314
September	3.67	3.02	5.72	8.74	293
October	3.77	3.10	5.73	8.82	270
November	3.81	3.12	5.71	8.83	252
December	3.83	3.12	5.71	8.83	260
Minimum	3.57	2.93	5.69	8.65	252
Maximum	3.83	3.12	5.73	8.83	314
Annual Average	3.71	3.04	5.71	8.75	283

tein and SNF levels were lowest in July and highest during the fall and winter. In contrast, other solids levels varied little during the year. Weighted average SCC were lowest in the fall and winter and highest in July and August.

- 3) Butterfat, protein, and SCC tests declined with increasing monthly average milk production, while other solids and solids-not-fat tests increased with increasing monthly milk production.
- 4) In 2009, the range of weighted average

component levels within one standard deviation of the mean was: 3.43% to 3.97% for butterfat; 2.89% to 3.19% for protein; 5.64% to 5.82% for other solids; 8.60% to 8.94% for SNF; and 135,000 to 395,000 for SCC.

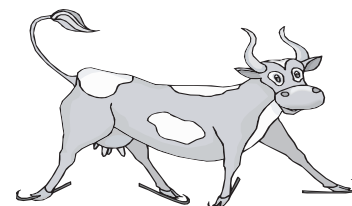
- 5) Based on the data for 2009, the following regression equations were derived:

$$\text{SNF} = 7.37049\% + 0.35830 (\text{BF})$$

$$\text{SNF} = 5.56487\% + 1.03577 (\text{PRO})$$

$$\text{PRO} = 1.55676\% + 0.39493 (\text{BF})$$

- 6) The annual weighted average value of butterfat, protein, and other solids, adjusted for SCC, was \$11.77 per cwt. for the market in 2009. Protein was the most valuable component, contributing over half of the total value.



Weighted Average Levels of Selected Components and Somatic Cell Count in Milk by Month 2009

<u>Month</u>	<u>Butterfat</u> - % -	<u>Protein</u> - % -	<u>Other Solids</u> - % -	<u>Solids Not-Fat</u> - % -	<u>Somatic Cell Count</u> - 1,000 -
January	3.80	3.09	5.71	8.80	272
February	3.75	3.06	5.72	8.78	276
March	3.73	3.05	5.73	8.78	273
April	3.71	3.03	5.71	8.74	263
May	3.65	3.00	5.73	8.73	256
June	3.61	2.96	5.75	8.70	268
July	3.56	2.95	5.75	8.69	287
August	3.60	2.97	5.73	8.70	287
September	3.65	3.03	5.73	8.76	263
October	3.78	3.12	5.74	8.86	246
November	3.78	3.10	5.72	8.82	242
December	3.79	3.11	5.72	8.83	242
Minimum	3.56	2.95	5.71	8.69	242
Maximum	3.80	3.12	5.75	8.86	287
Annual Average	3.70	3.04	5.73	8.77	265



Utilization and Classification of Milk

	November 2010		October 2010	November 2009
	Product Pounds	Butterfat Pounds	Product Pounds	Product Pounds
Class I Utilization:				
Packaged Disposition				
Milk	49,697,055	1,565,531	48,570,374	49,377,770
Flavored Milk	3,557,009	111,321	3,722,768	3,306,610
Reduced Fat Milk	134,275,909	2,606,555	132,553,839	138,251,741
Lowfat Milk	60,187,746	574,267	59,706,074	53,869,372
Fat Free Milk	90,085,475	89,354	89,673,103	85,394,317
Flavored Reduced and Fat Free Milk	38,704,275	449,500	38,729,951	34,569,498
Buttermilk	3,002,938	35,688	2,584,419	2,661,960
Total Packaged Disposition	379,510,407	5,432,216	375,540,528	367,431,268
Total Ending Inventory	31,326,014	470,194	31,169,539	31,996,707
Bulk to Nonpool Plants	1,028,706	17,375	940,345	1,201,248
Shrinkage	2,165,125	181,933	1,404,327	2,123,750
Total Class I Utilization	414,030,252	6,101,718	409,054,739	402,752,973
Other Order Plants	(3,219,335)	(68,696)	(3,579,260)	(3,552,673)
Beginning Inventory	(31,169,539)	(454,048)	(34,411,741)	(34,135,922)
Reused Products	0	0	0	0
Other Source Milk	0	0	0	(163,588)
Overage	0	0	0	0
Interhandler Adjustment	(47,217)	5,467	28,326	(1,011,043)
Class I Producer Milk	379,594,161	5,584,441	371,092,064	363,889,747
Class II Utilization:				
Total Class II Utilization	71,026,164	8,379,111	70,934,155	160,241,249
Other Order Plants	--	--	--	0
Beginning Inventory	(3,804,148)	(162,614)	(785,264)	(70,056)
Reused Products	(9,282,484)	(14,659)	(10,569,513)	(5,670,822)
Other Source Milk	(227,079)	(227,079)	(161,718)	0
Overage	0	0	0	--
Class II Producer Milk	57,712,453	7,974,759	59,417,660	154,500,371
Class III Utilization:				
Total Class III Utilization	2,190,578,063	81,021,620	2,285,926,548	1,848,679,524
Other Order Plants	(548,838)	(5,850)	(1,552,239)	(199,962)
Beginning Inventory	(4,778,213)	(80,526)	(1,768,569)	(640,448)
Reused Products	0	0	0	0
Other Source Milk	(1,190,136)	(22,324)	(1,148,981)	(860,667)
Overage	(49,881)	(4,224)	(88,107)	(56,090)
Class III Producer Milk	2,184,010,995	80,908,696	2,281,368,652	1,846,922,357
Class IV Utilization:				
Total Class IV Utilization	66,320,302	8,981,835	68,294,547	103,473,491
Other Order Plants	(6,480,855)	(270,104)	(2,195,967)	(3,568,224)
Beginning Inventory	(20,023,814)	(1,194,490)	(15,472,159)	(14,250,556)
Reused Products	0	0	0	0
Other Source Milk	(20,354,941)	(944,995)	(16,622,678)	(29,126,289)
Overage	(75,125)	(4,346)	(10,438)	(80,021)
Class IV Producer Milk	19,385,567	6,567,900	33,993,305	56,448,401
Total Producer Milk -- All Classes	2,640,703,176	101,035,796	2,745,871,681	2,421,760,876

-- Restricted Information

Commodity Prices

Month/Year	Weighted Monthly Average NASS Prices *						Weighted Two-Week Average NASS Prices *					
	Cheddar Cheese			Nonfat			Cheddar Cheese			Nonfat		
	Blocks	Barrels	Average	Butter	Dry Milk	Dry Whey	Blocks	Barrels	Average	Butter	Dry Milk	Dry Whey
	<i>Dollars per Pound</i>						<i>Dollars per Pound</i>					
Nov 2009	1.5074	1.4978	1.5169	1.3817	1.1120	0.3471	1.4896	1.5074	1.5113	1.3532	1.1147	0.3452
Dec	1.6432	1.5127	1.5969	1.4459	1.2858	0.3668	1.6035	1.5166	1.5764	1.4823	1.2701	0.3629
Jan 2010	1.5562	1.4850	1.5374	1.3610	1.1929	0.3880	1.5941	1.4788	1.5578	1.3350	1.3201	0.3893
Feb	1.4934	1.5020	1.5110	1.3609	1.0812	0.3925	1.4885	1.5184	1.5174	1.3701	1.1431	0.3928
Mar	1.3673	1.3289	1.3632	1.4388	1.0454	0.3761	1.4137	1.3650	1.4049	1.4249	1.0459	0.3821
Apr	1.3618	1.3745	1.3827	1.4773	1.1208	0.3643	1.3561	1.3954	1.3900	1.4861	1.1250	0.3636
May	1.4102	1.4122	1.4257	1.5801	1.2520	0.3645	1.3967	1.3973	1.4115	1.5881	1.2459	0.3631
Jun	1.4441	1.4215	1.4475	1.5946	1.2631	0.3688	1.4628	1.4549	1.4726	1.5620	1.3037	0.3698
Jul	1.4354	1.4506	1.4567	1.7375	1.2277	0.3641	1.4246	1.4464	1.4497	1.7321	1.2333	0.3618
Aug	1.5902	1.5894	1.6031	1.8508	1.1557	0.3590	1.5901	1.5839	1.6008	1.8269	1.1542	0.3586
Sep	1.6851	1.6937	1.7016	2.1570	1.1383	0.3615	1.6555	1.6706	1.6747	2.1198	1.1351	0.3607
Oct	1.7537	1.7553	1.7666	2.1893	1.1674	0.3676	1.7548	1.7606	1.7695	2.1942	1.1755	0.3634
Nov	1.6102	1.5921	1.6152	2.0230	1.1953	0.3736	1.7006	1.6839	1.7063	2.0995	1.1903	0.3716

Month/Year	Chicago Mercantile Exchange						
	Butter	Cheddar Cheese		Nonfat Dry Milk (Low/Medium Heat)		Whey Powder	
	Grade AA	Blocks	Barrels	Central & East	West	Central	West
	<i>Dollars per Pound</i>						
Nov 2009	1.5008	1.5788	1.4825	1.3189	1.2542	0.3620	0.3736
Dec	1.3968	1.6503	1.4520	1.3959	1.3180	0.3782	0.3950
Jan 2010	1.3950	1.4536	1.4684	1.3713	1.2922	0.3845	0.4037
Feb	1.3561	1.4526	1.4182	1.1916	1.1051	0.3742	0.4012
Mar	1.4641	1.2976	1.2782	1.1175	1.0837	0.3529	0.3997
Apr	1.5460	1.4182	1.3854	1.2470	1.1807	0.3439	0.3898
May	1.5896	1.4420	1.4195	1.3184	1.2938	0.3400	0.3866
Jun	1.6380	1.3961	1.3647	1.3009	1.2716	0.3406	0.3828
Jul	1.7787	1.5549	1.5161	1.2423	1.2048	0.3377	0.3769
Aug	1.9900	1.6367	1.6006	1.2066	1.1265	0.3427	0.3739
Sep	2.2262	1.7374	1.7114	1.2450	1.1814	0.3471	0.3750
Oct	2.1895	1.7246	1.7120	1.2391	1.1911	0.3569	0.3807
Nov	1.9295	1.4619	1.4520	1.2263	1.1990	0.3626	0.3868

Market Statistics

Month/Year	Distributing Plants	Supply Plants	Coop .9(c) Handlers	Producers	Total Producer Milk	Est. Average Daily Delivery Per Producer	Class I Utilization	Butterfat Test	Protein Test	Other Solids Test	Weighted Average SCC
					Mil. lbs.	Pounds	Percent	Percent	Percent	Percent	
										(000)	
Nov 2009	24	53	12	14,169	2,422	5,696	15.0	3.77	3.09	5.72	243
Dec	25	54	12	14,506	2,699	5,995	14.5	3.78	3.10	5.72	242
Jan 2010	24	51	12	15,400	2,880	6,030	13.0	3.77	3.09	5.75	253
Feb	24	50	12	15,397	2,642	6,124	13.1	3.73	3.06	5.75	250
Mar	23	51	12	15,392	2,946	6,174	13.0	3.69	3.02	5.77	251
Apr	23	50	12	15,235	2,874	6,287	12.8	3.64	2.99	5.77	245
May	23	52	13	15,224	3,018	6,392	11.9	3.61	2.98	5.76	241
Jun	23	50	14	15,122	2,887	6,377	11.5	3.56	2.94	5.78	267
Jul	23	50	13	15,136	2,916	6,214	12.1	3.53	2.91	5.76	283
Aug	24	50	13	15,244	2,811	5,948	12.7	3.54	2.92	5.76	295
Sep	24	50	13	15,056	2,679	5,928	13.9	3.65	3.03	5.76	276
Oct	24	50	13		2,746		13.5	3.75	3.11	5.75	242
Nov	24	50	13		2,641		14.4	3.83	3.14	5.75	226

* NASS = National Agricultural Statistics Service, USDA.

Class Prices

Month/Year	Class I Price Mover			Class I Price at Cook County, IL			Class II Price			
	Butterfat	Skim Milk	3.50%	Butterfat	Skim Milk	3.50%	Butterfat	Nonfat Solids	Skim Milk	3.50%
	<i>lb.</i>	<i>cwt.</i>	<i>cwt.</i>	<i>lb.</i>	<i>cwt.</i>	<i>cwt.</i>	<i>lb.</i>	<i>lb.</i>	<i>cwt.</i>	<i>cwt.</i>
Nov 2009	1.2752	8.70	12.86	1.2932	10.50	14.66	1.4726	0.9311	8.38	13.24
Dec	1.4310	9.31	13.99	1.4490	11.11	15.79	1.5503	1.0156	9.14	14.25
Jan 2010	1.5874	9.82	15.03	1.6054	11.62	16.83	1.4475	1.1689	10.52	15.22
Feb	1.4090	10.27	14.84	1.4270	12.07	16.64	1.4474	1.2189	10.97	15.65
Mar	1.4515	9.60	14.34	1.4695	11.40	16.14	1.5417	1.0433	9.39	14.46
Apr	1.5179	8.19	13.22	1.5359	9.99	15.02	1.5883	0.9467	8.52	13.78
May	1.5920	8.53	13.80	1.6100	10.33	15.60	1.7128	1.0256	9.23	14.90
June	1.7155	9.61	15.28	1.7335	11.41	17.08	1.7304	1.1456	10.31	16.01
Jul	1.6839	10.12	15.66	1.7019	11.92	17.46	1.9034	1.2022	10.82	17.10
Aug	1.8899	9.49	15.77	1.9079	11.29	17.57	2.0406	1.1322	10.19	16.98
Sep	2.0047	8.79	15.50	2.0227	10.59	17.30	2.4114	1.0544	9.49	17.60
Oct	2.3594	8.62	16.58	2.3774	10.42	18.38	2.4506	1.0356	9.32	17.57
Nov	2.4495	8.98	17.24	2.4675	10.78	19.04	2.2492	1.0756	9.68	17.21
Dec	2.3348	9.11	16.96	2.3528	10.91	18.76		1.0900	9.81	

Month/Year	Class III Price					Class IV Price			
	Butterfat	Protein	Other Solids	Skim Milk	3.50%	Butterfat	Nonfat Solids	Skim Milk	3.50%
	<i>lb.</i>	<i>lb.</i>	<i>lb.</i>	<i>cwt.</i>	<i>cwt.</i>	<i>lb.</i>	<i>lb.</i>	<i>cwt.</i>	<i>cwt.</i>
Nov 2009	1.4656	2.6991	0.1524	9.27	14.08	1.4656	0.9348	8.41	13.25
Dec	1.5433	2.8751	0.1727	9.93	14.98	1.5433	1.1068	9.96	15.01
Jan 2010	1.4405	2.7916	0.1946	9.80	14.50	1.4405	1.0148	9.13	13.85
Feb	1.4404	2.7066	0.1992	9.57	14.28	1.4404	0.9043	8.14	12.90
Mar	1.5347	2.1311	0.1823	7.68	12.78	1.5347	0.8688	7.82	12.92
Apr	1.5813	2.1449	0.1702	7.65	12.92	1.5813	0.9435	8.49	13.73
May	1.7058	2.1523	0.1704	7.68	13.38	1.7058	1.0734	9.66	15.29
Jun	1.7234	2.2040	0.1748	7.86	13.62	1.7234	1.0843	9.76	15.45
Jul	1.8964	2.0515	0.1700	7.36	13.74	1.8964	1.0493	9.44	15.75
Aug	2.0336	2.3788	0.1647	8.35	15.18	2.0336	0.9780	8.80	15.61
Sep	2.4044	2.3057	0.1673	8.13	16.26	2.4044	0.9608	8.65	16.76
Oct	2.4436	2.4739	0.1736	8.69	16.94	2.4436	0.9896	8.91	17.15
Nov	2.2422	2.1981	0.1797	7.87	15.44	2.2422	1.0172	9.15	16.68

Producer Prices

Month/Year	Producer Price Differential	Statistical Uniform Price (at 3.50%)	Butterfat Price	Protein Price	Other Solids Price	SCC Adjustment Rate	Producer Mailbox Price (at test)
	<i>\$ per cwt.</i>	<i>\$ per cwt.</i>	<i>\$ per lb.</i>	<i>\$ per lb.</i>	<i>\$ per lb.</i>	<i>\$ per cwt.</i>	<i>\$ per cwt.</i>
Sep 2009	0.03	12.14	1.2226	2.4243	0.1018	0.00068	13.36
Oct	0.12	12.94	1.2752	2.5584	0.1228	0.00071	14.67
Nov	0.04	14.12	1.4656	2.6991	0.1524	0.00076	15.76
Dec	0.08	15.06	1.5433	2.8751	0.1727	0.00080	16.74
Jan 2010	0.26	14.76	1.4405	2.7916	0.1946	0.00077	16.06
Feb	0.34	14.62	1.4404	2.7066	0.1992	0.00076	15.80
Mar	0.54	13.32	1.5347	2.1311	0.1823	0.00068	14.49
Apr	0.36	13.28	1.5813	2.1449	0.1702	0.00069	14.39
May	0.39	13.77	1.7058	2.1523	0.1704	0.00071	14.77
Jun	0.52	14.14	1.7234	2.2040	0.1748	0.00072	14.76
Jul	0.65	14.39	1.8964	2.0515	0.1700	0.00073	15.19
Aug	0.47	15.65	2.0336	2.3788	0.1647	0.00080	16.24
Sep	0.34	16.60	2.4044	2.3057	0.1673	0.00085	17.77
Oct	0.23	17.17	2.4436	2.4739	0.1736	0.00088	
Nov	0.48	15.92	2.2422	2.1981	0.1797	0.00081	

FEDERAL MILK MARKET ADMINISTRATOR
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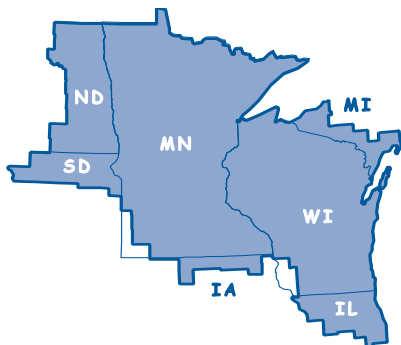
Summary of Federal Order Data - November 2010

Federal Order Number / Name	Producer Deliveries <i>— Thousand Pounds —</i>	Class I Producer Receipts <i>— Thousand Pounds —</i>	Class I Utilization <i>Percent</i>	Class I Price <i>— Dollars per Cwt. —</i>	Producer Price Differential	Uniform or Statistical Uniform Price at 3.5% Butterfat		
						FOB Market <i>— Dollars per Cwt. —</i>	FOB Cook Cty. Illinois <i>— Dollars per Cwt. —</i>	Change From Previous Year
1 Northeast	1,969,000	899,632	45.7	\$20.49	\$2.73	\$18.17	\$16.72	\$3.15
5 Appalachian	492,025	351,691	71.5	20.64	n/a	19.45	17.85	3.56
6 Florida	247,448	214,304	86.6	22.64	n/a	21.61	18.01	3.81
7 Southeast	572,988	404,279	70.6	21.04	n/a	19.62	17.62	3.34
30 Upper Midwest	2,640,703	379,594	14.4	19.04	0.48	15.92	15.92	1.80
32 Central	1,110,039	397,231	35.8	19.24	1.23	16.67	16.47	2.81
33 Mideast	1,225,999	557,114	45.4	19.24	1.58	17.02	16.82	2.91
124 Pacific Northwest	637,462	195,510	30.7	19.14	1.27	16.71	16.61	2.79
126 Southwest	900,947	385,540	42.8	20.24	2.25	17.69	16.49	2.66
131 Arizona	347,206	120,771	34.8	19.59	n/a	17.30	16.75	2.92
All Market Average or Total *	10,143,819	3,905,667	38.5					

n/a = Not applicable. * May not add due to rounding.

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