

UNITED STATES DEPARTMENT OF AGRICULTURE

Agricultural Marketing Service
Dairy Programs

FEDERAL MILK ORDERS 124 & 131

1930-220th Street SE, Ste. 102
Bothell, WA 98021
Phone: (425) 487-6009
Fax: (425) 487-2775
Email: fmmsattle@fmmsattle.com

4835 E. Cactus Road, Ste. 440
Scottsdale, AZ 85254
Phone: (602) 547-2909
Fax: (602) 547-2906

**OVERVIEW OF COMPONENT TESTS OF PRODUCER MILK
AT THE FARM LEVEL**

**PACIFIC NORTHWEST AND ARIZONA
FEDERAL MILK MARKETING ORDERS**

2020

April 2021

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OVERVIEW OF COMPONENT TESTS OF PRODUCER MILK AT THE FARM LEVEL

PACIFIC NORTHWEST AND ARIZONA FEDERAL MILK MARKETING ORDERS

2020

The following tables provide an overview of component tests of producer milk pooled on the Pacific Northwest (FO 124) and Arizona (FO 131) Federal Milk Marketing Orders. The tables summarize average tests by order, month, year, region, size-range of production, and long term trends. Producer milk values are also calculated using Federal order minimum producer prices for the respective orders at 3.5% butterfat and at test. All test and value averages are weighted averages.

The farm level data included in these tables comprises all producers and producer milk pooled on the Pacific Northwest and Arizona Orders. The data was collected from producer payrolls submitted by handlers to the market administrator's office. Components available for the Pacific Northwest Order are butterfat, protein, and other solids. Other solids are lactose and minerals. The component for the Arizona Order is butterfat. In certain months, milk production that historically qualified to be pooled on an order may not have been pooled due to price relationships. This historically eligible producer milk is **not** included in this analysis. Large changes in producer numbers and producer milk typically indicate those months when milk was not pooled due to price relationships. Small differences may be evident between published pool information and the data shown in this overview due to the use of partially audited payroll data.

The orders' milksheds were divided into different regions when possible. The Pacific Northwest Order's milkshed was divided into four regions representing each of Oregon and Washington divided by the Cascade Mountain Range. In Oregon and Washington, the west side of the Cascade Mountain Range has more precipitation and is characterized by a milder climate than the eastern side of the states. The region east of the Cascade Mountain Range has a drier climate with warmer summers and colder winters. Arizona is very dry year round with little precipitation and relatively high temperatures where most milk is produced. Data from a small number of counties are included in the data for the defined regions based on order association, relative proximity, and/or to prevent the release of restricted data.

The regions are:

- Western Washington (& Idaho)
- Eastern Washington
- Western Oregon
- Eastern Oregon
- Arizona (& New Mexico, Southern California and Texas)

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**Table T-1
Number of Producers, Producer Milk, Component Tests and Standard Deviations: 2020**

Pacific Northwest Order								
Month	No. of Producers	Producer Milk	Butterfat		Protein		Other Solids	
			Test	Standard Deviation	Test	Standard Deviation	Test	Standard Deviation
January	477	769,438,282	4.24	0.49	3.33	0.24	5.75	0.08
February	466	649,412,583	4.14	0.47	3.27	0.24	5.78	0.08
March	379	638,282,163	4.09	0.44	3.26	0.22	5.78	0.08
April	366	621,568,166	4.03	0.43	3.22	0.22	5.77	0.07
May	362	641,779,099	3.95	0.41	3.18	0.20	5.78	0.07
June	359	613,658,080	3.92	0.39	3.15	0.20	5.80	0.07
July	369	694,267,306	3.89	0.39	3.15	0.20	5.77	0.08
August	357	627,369,909	3.91	0.39	3.14	0.20	5.74	0.07
September	356	607,087,807	4.01	0.41	3.22	0.20	5.76	0.08
October	354	615,678,452	4.13	0.44	3.30	0.22	5.77	0.09
November	354	585,958,068	4.27	0.48	3.38	0.24	5.76	0.09
December	354	610,650,525	4.27	0.46	3.37	0.24	5.76	0.09
Average/Total	379	7,675,150,440	4.07	0.46	3.25	0.23	5.77	0.08

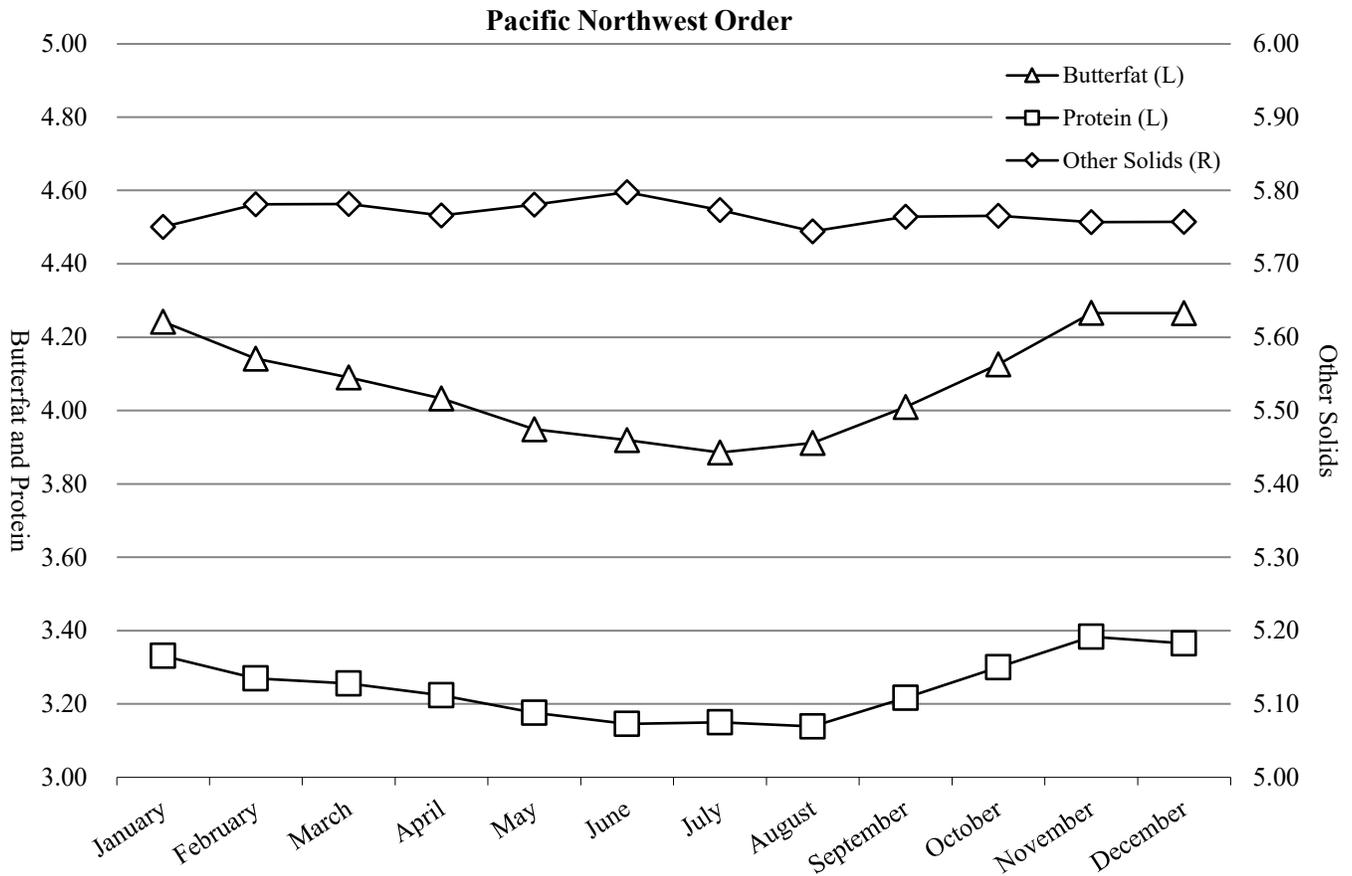


Table T-2**Number of Producers, Producer Milk and Component Tests by Region: 2020****Pacific Northwest Order**

Month	Western Washington 1/					Eastern Washington				
	No. of Producers	Producer Milk	Butterfat	Protein	OS	No. of Producers	Producer Milk	Butterfat	Protein	OS
January	203	185,853,539	4.15	3.29	5.76	104	377,846,840	4.17	3.29	5.76
February	199	169,058,365	4.10	3.26	5.78	105	358,983,962	4.11	3.26	5.79
March	192	177,805,008	4.13	3.26	5.77	105	385,117,157	4.08	3.26	5.78
April	184	172,257,589	4.07	3.24	5.75	103	378,821,241	4.02	3.22	5.77
May	182	178,068,327	4.00	3.20	5.76	103	392,757,682	3.93	3.17	5.78
June	180	168,663,683	4.01	3.17	5.78	103	378,081,022	3.89	3.14	5.80
July	189	221,705,970	3.95	3.18	5.76	104	404,991,572	3.86	3.14	5.78
August	179	168,572,570	4.02	3.19	5.72	103	392,692,607	3.88	3.12	5.75
September	179	161,151,509	4.08	3.23	5.74	103	381,441,263	4.00	3.21	5.77
October	177	163,932,420	4.14	3.30	5.75	103	385,546,946	4.15	3.31	5.77
November	177	156,112,932	4.28	3.37	5.73	103	365,429,394	4.29	3.40	5.76
December	177	162,613,036	4.26	3.34	5.74	103	380,220,645	4.29	3.39	5.76
Average/Total	185	2,085,794,948	4.09	3.25	5.75	104	4,581,930,331	4.05	3.24	5.77

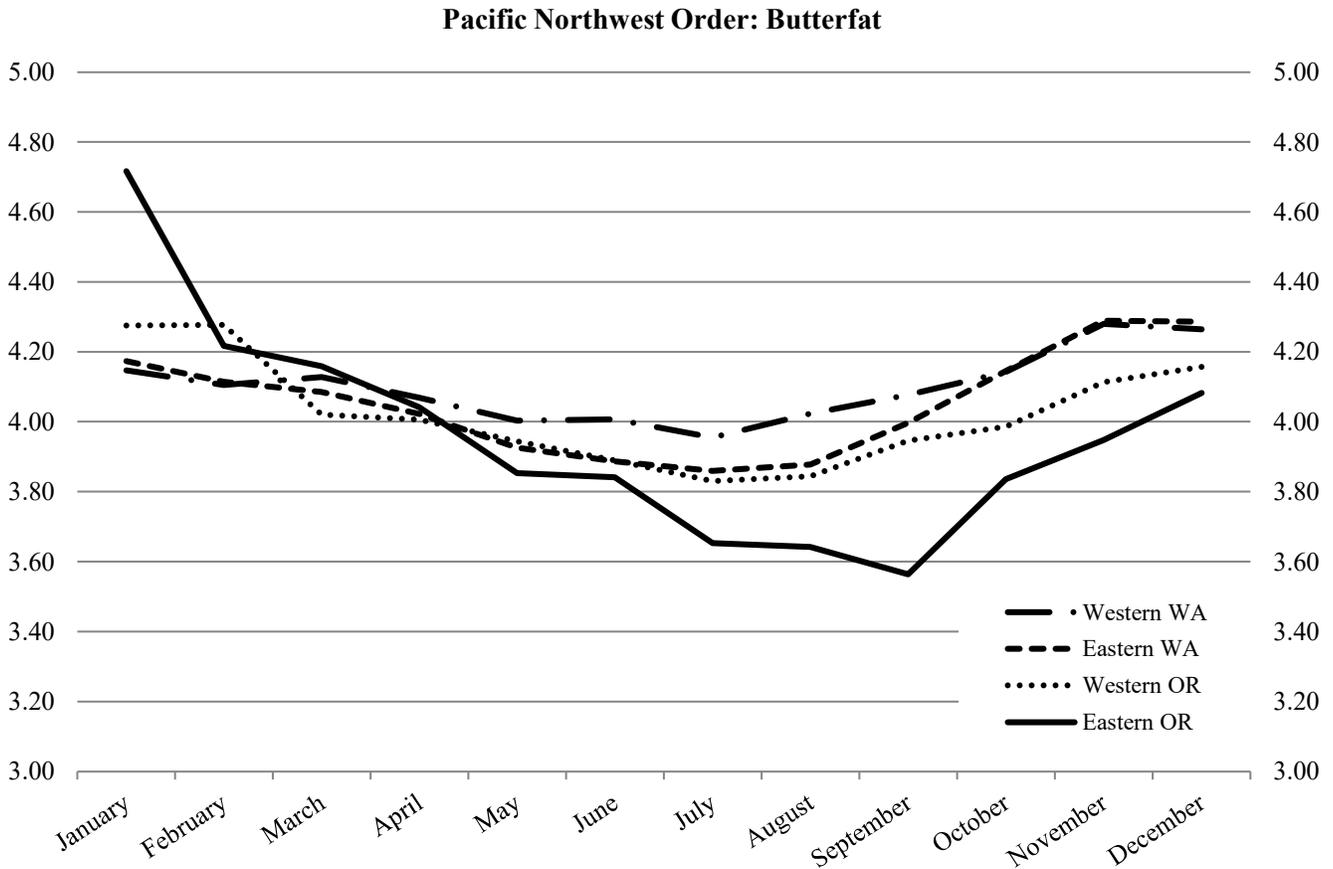
Month	Western Oregon					Eastern Oregon				
	No. of Producers	Producer Milk	Butterfat	Protein	OS	No. of Producers	Producer Milk	Butterfat	Protein	OS
January	156	122,297,664	4.28	3.34	5.75	14	83,440,239	4.72	3.62	5.68
February	155	115,397,404	4.28	3.31	5.77	7	5,972,852	4.22	3.33	5.80
March	75	68,958,874	4.02	3.19	5.80	7	6,401,124	4.16	3.32	5.80
April	72	64,843,749	4.01	3.18	5.79	7	5,645,587	4.04	3.27	5.80
May	70	65,528,073	3.94	3.15	5.80	7	5,425,017	3.85	3.16	5.83
June	70	61,848,329	3.89	3.14	5.81	6	5,065,046	3.84	3.09	5.84
July	70	62,314,016	3.83	3.13	5.78	6	5,255,748	3.65	3.13	5.81
August	69	60,761,253	3.84	3.13	5.76	6	5,343,479	3.64	3.16	5.79
September	68	59,409,053	3.95	3.19	5.77	6	5,085,982	3.56	3.26	5.81
October	68	61,142,197	3.99	3.25	5.77	6	5,056,889	3.84	3.32	5.80
November	68	59,508,740	4.11	3.31	5.77	6	4,907,002	3.95	3.38	5.80
December	68	62,603,584	4.16	3.28	5.77	6	5,213,260	4.08	3.32	5.81
Average/Total	84	864,612,936	4.06	3.23	5.78	7	142,812,225	4.38	3.47	5.73

1/ Includes: Ada, Canyon, Latah, Owyhee, Payette Counties, Idaho; Benton County, Washington.

**Table T-3a
Butterfat Tests by Region: 2020**

Month	Pacific Northwest Order Butterfat			
	Western WA 1/	Eastern WA	Western OR	Eastern OR
January	4.15	4.17	4.28	4.72
February	4.10	4.11	4.28	4.22
March	4.13	4.08	4.02	4.16
April	4.07	4.02	4.01	4.04
May	4.00	3.93	3.94	3.85
June	4.01	3.89	3.89	3.84
July	3.95	3.86	3.83	3.65
August	4.02	3.88	3.84	3.64
September	4.08	4.00	3.95	3.56
October	4.14	4.15	3.99	3.84
November	4.28	4.29	4.11	3.95
December	4.26	4.29	4.16	4.08
Average	4.09	4.05	4.06	4.38

1/ Includes: Ada, Canyon, Latah, Owyhee, Payette Counties, Idaho; Benton County, Washington.

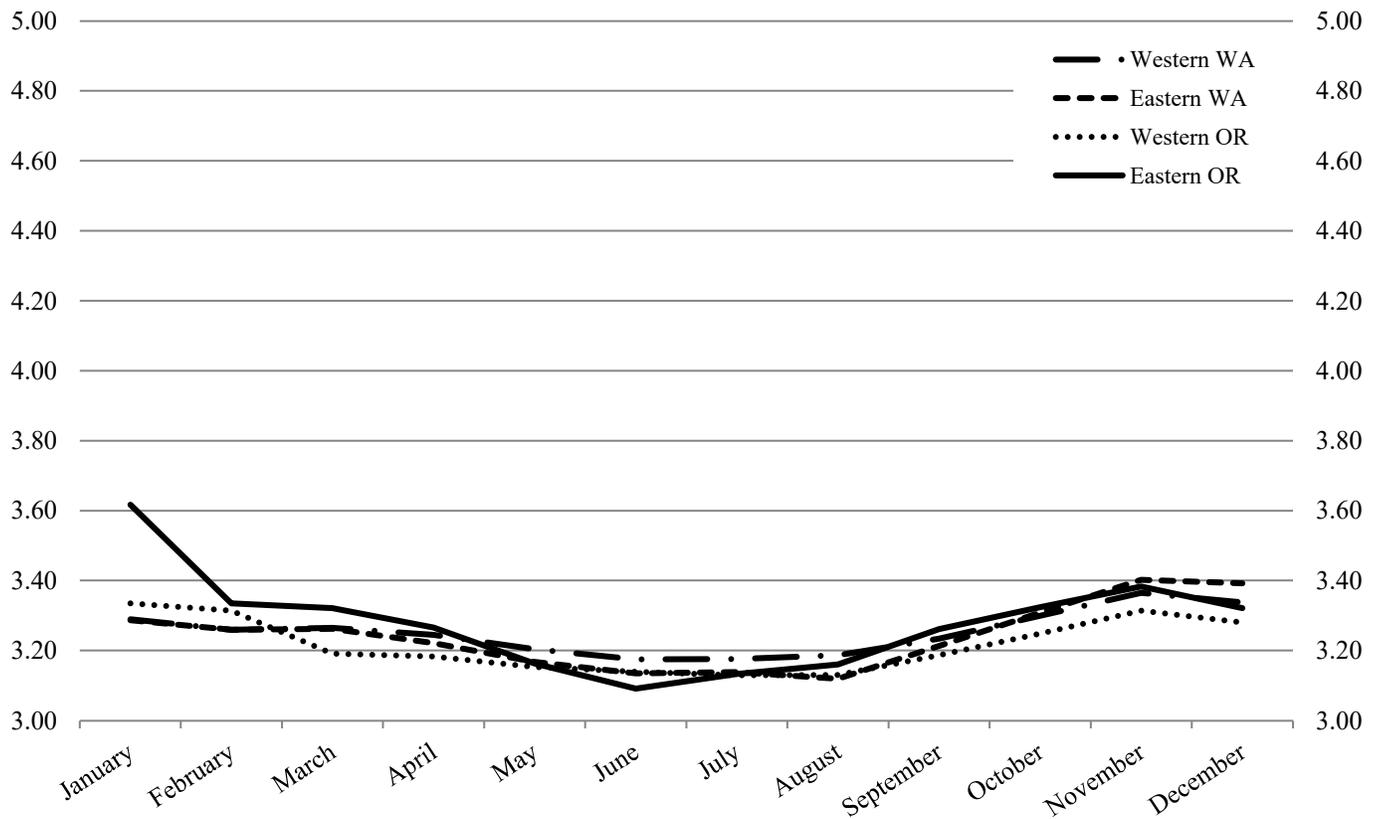


**Table T-3b
Protein Tests by Region: 2020**

Month	Pacific Northwest Order Protein			
	Western WA 1/	Eastern WA	Western OR	Eastern OR
January	3.29	3.29	3.34	3.62
February	3.26	3.26	3.31	3.33
March	3.26	3.26	3.19	3.32
April	3.24	3.22	3.18	3.27
May	3.20	3.17	3.15	3.16
June	3.17	3.14	3.14	3.09
July	3.18	3.14	3.13	3.13
August	3.19	3.12	3.13	3.16
September	3.23	3.21	3.19	3.26
October	3.30	3.31	3.25	3.32
November	3.37	3.40	3.31	3.38
December	3.34	3.39	3.28	3.32
Average	3.25	3.24	3.23	3.47

1/ Includes: Ada, Canyon, Latah, Owyhee, Payette Counties, Idaho; Benton County, Washington.

Pacific Northwest Order: Protein

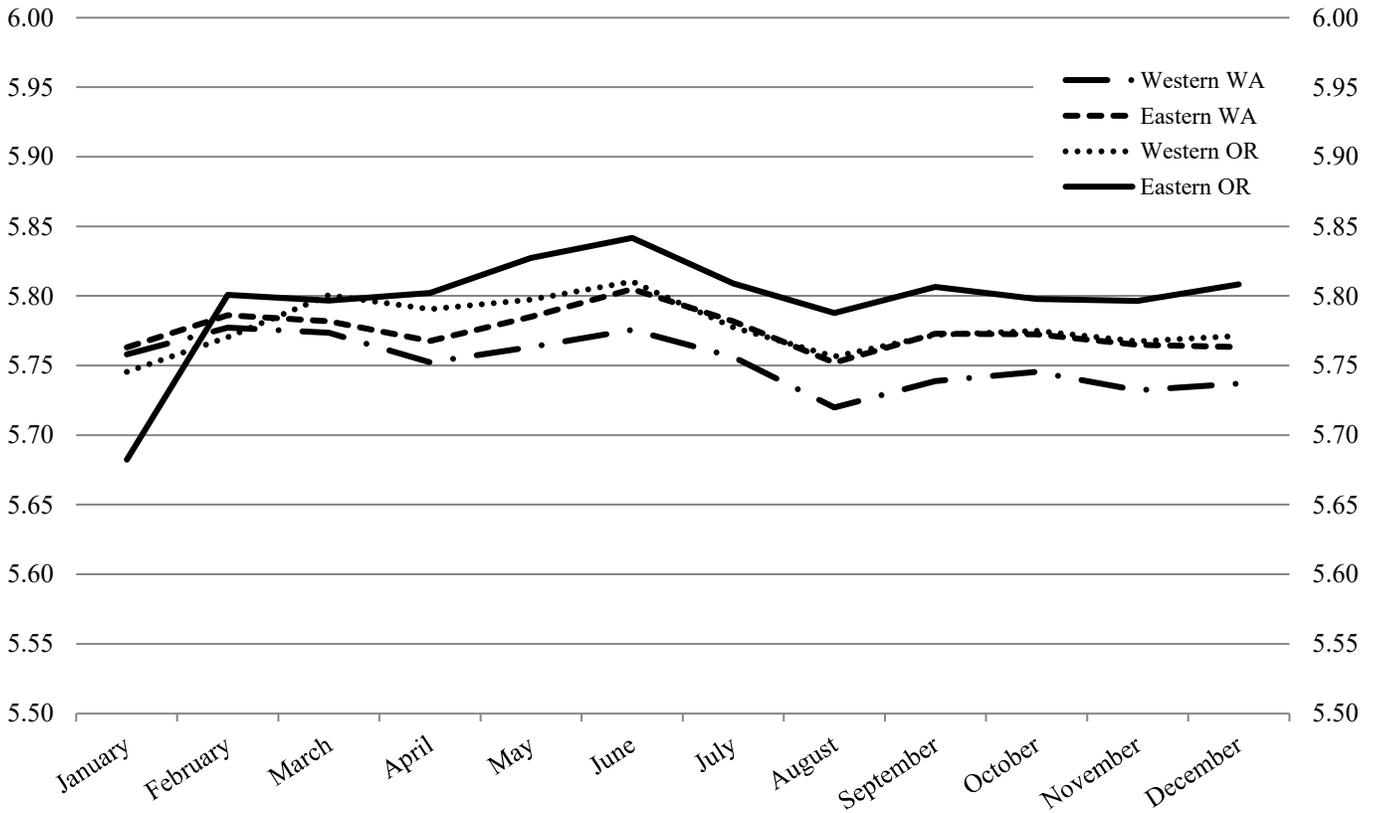


**Table T-3c
Other Solids Tests by Region: 2020**

Month	Pacific Northwest Order Other Solids			
	Western WA 1/	Eastern WA	Western OR	Eastern OR
January	5.76	5.76	5.75	5.68
February	5.78	5.79	5.77	5.80
March	5.77	5.78	5.80	5.80
April	5.75	5.77	5.79	5.80
May	5.76	5.78	5.80	5.83
June	5.78	5.80	5.81	5.84
July	5.76	5.78	5.78	5.81
August	5.72	5.75	5.76	5.79
September	5.74	5.77	5.77	5.81
October	5.75	5.77	5.77	5.80
November	5.73	5.76	5.77	5.80
December	5.74	5.76	5.77	5.81
Average	5.75	5.77	5.78	5.73

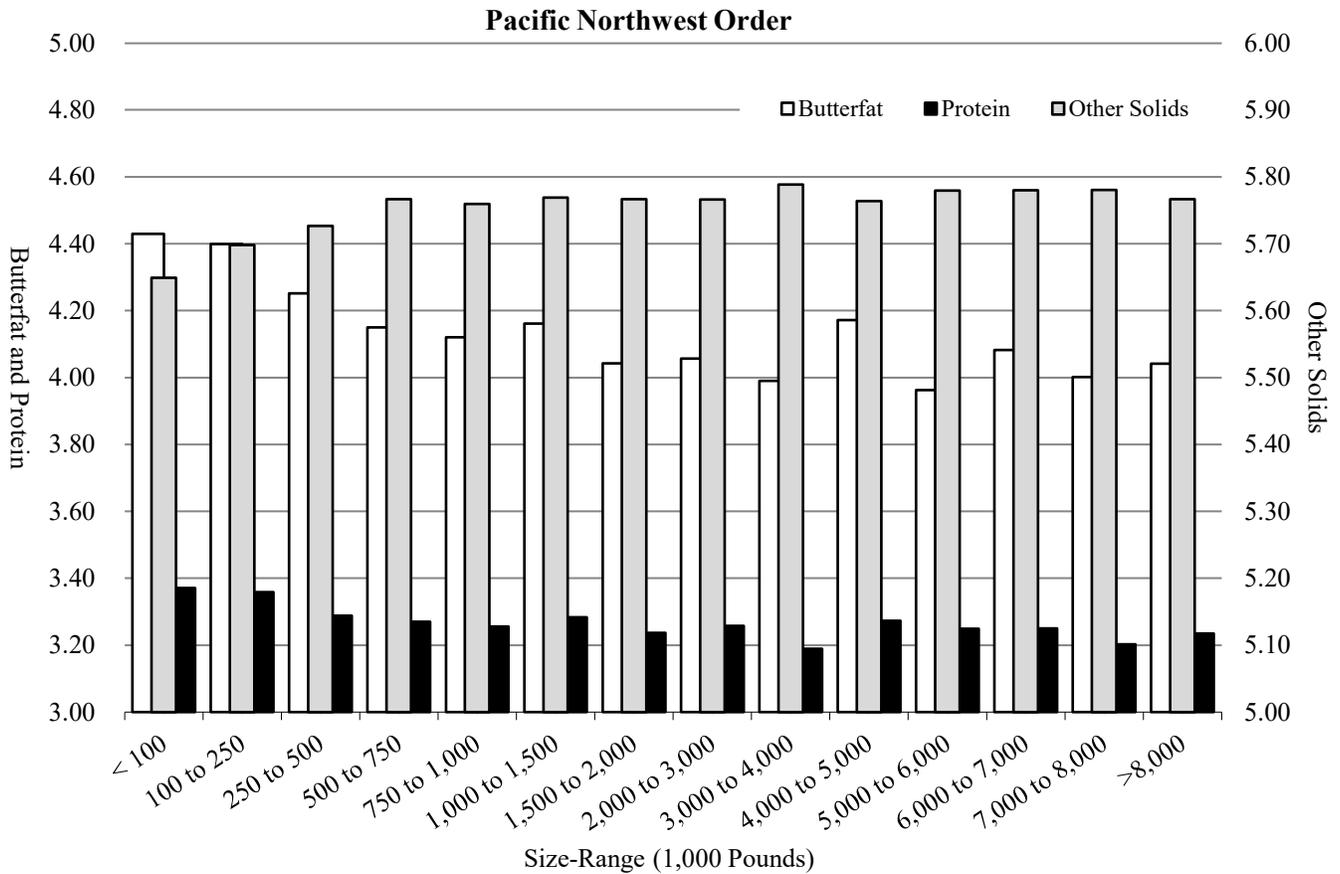
1/ Includes: Ada, Canyon, Latah, Owyhee, Payette Counties, Idaho; Benton County, Washington.

Pacific Northwest Order: Other Solids



**Table T-4
Component Tests by Size-Range of Producer Milk Deliveries: 2020**

Size-Range (Pounds)		No. of Observations	Pacific Northwest Order		
Equal to or more than	Less than		Butterfat	Protein	Other Solids
0	100,000	382	4.43	3.37	5.65
100,000	250,000	705	4.40	3.36	5.70
250,000	500,000	759	4.25	3.29	5.73
500,000	750,000	445	4.15	3.27	5.77
750,000	1,000,000	301	4.12	3.26	5.76
1,000,000	1,500,000	365	4.16	3.28	5.77
1,500,000	2,000,000	390	4.04	3.24	5.77
2,000,000	3,000,000	506	4.06	3.26	5.77
3,000,000	4,000,000	208	3.99	3.19	5.79
4,000,000	5,000,000	103	4.17	3.27	5.76
5,000,000	6,000,000	96	3.96	3.25	5.78
6,000,000	7,000,000	90	4.08	3.25	5.78
7,000,000	8,000,000	54	4.00	3.20	5.78
8,000,000		149	4.04	3.24	5.77
Total/Average		4,553	4.07	3.25	5.77



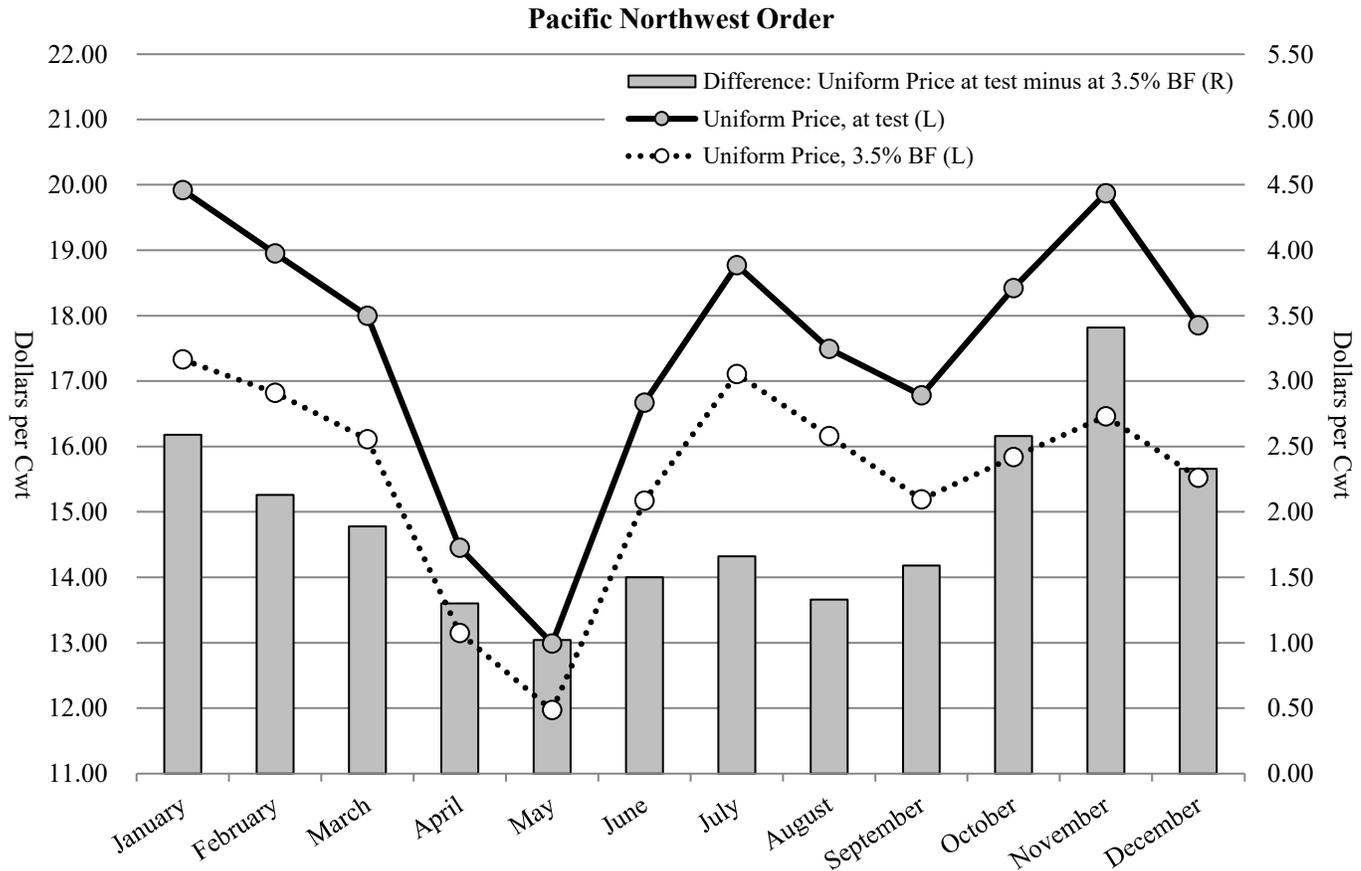
**Table T-5
 Producer Prices and Component Tests by Month: 2020**

Pacific Northwest Order

Month	A	B	Difference (B - A)	Butterfat		Protein		Other Solids		Producer Price Differential 1/	
	Uniform Price, 3.5% BF	Value, at test *		\$/Lb -	% -	\$/Lb -	% -	\$/Lb -	% -		
				- \$ / Cwt - - - -	- \$ / Lb -	- % -	- \$ / Lb -	- % -	- \$ / Lb -	- % -	- \$ / Cwt -
January	17.33	19.92	2.59	2.1117	4.24	2.9606	3.33	0.1417	5.75	0.28	
February	16.82	18.95	2.13	1.9813	4.14	3.0309	3.27	0.1750	5.78	(0.18)	
March	16.11	18.00	1.89	1.9177	4.09	2.8424	3.26	0.1810	5.78	(0.14)	
April	13.15	14.45	1.30	1.3218	4.03	2.4822	3.22	0.1793	5.77	0.08	
May	11.97	12.99	1.02	1.3756	3.95	2.0918	3.18	0.1882	5.78	(0.17)	
June	15.17	16.67	1.50	1.8591	3.92	4.5349	3.15	0.1696	5.80	(5.87)	
July	17.11	18.77	1.66	1.9583	3.89	5.6294	3.15	0.1492	5.77	(7.43)	
August	16.16	17.49	1.33	1.6275	3.91	4.4394	3.14	0.1387	5.74	(3.61)	
September	15.19	16.78	1.59	1.5932	4.01	3.3935	3.22	0.1241	5.76	(1.24)	
October	15.84	18.42	2.58	1.6388	4.13	5.0146	3.30	0.1534	5.77	(5.77)	
November	16.46	19.87	3.41	1.5553	4.27	5.6226	3.38	0.1894	5.76	(6.88)	
December	15.52	17.85	2.33	1.5399	4.27	3.0282	3.37	0.2245	5.76	(0.20)	
Wtd. Average	15.61	17.56	1.94	1.7194	4.07	3.7391	3.25	0.1672	5.77	(2.55)	
Percent of FO Value				40%		69%		5%		-14%	

* Similar to the Uniform Price, at test, but may differ due to the use of partially audited payroll data.

1/ The producer price differentials for the Pacific Northwest Order are subject to applicable location adjustments.



**Table T-6
 Producer Milk and Value by Size-Range of Producer Milk Deliveries: 2020**

Pacific Northwest Order

Size-Range		Producer Milk	Percent of Producer Milk	No. of Observations	Percent of Observations	Producer Milk Value at Test 1/	Value, at test
Equal to or more than	Less than						
- - - Pounds - - -		- Pounds -	- % -		- % -	- Dollars -	- \$ / Cwt -
0	100,000	24,957,769	0.3%	382	8.4%	4,674,913.58	18.73
100,000	250,000	120,212,581	1.6%	705	15.5%	22,370,246.73	18.61
250,000	500,000	267,235,710	3.5%	759	16.7%	48,230,670.04	18.05
500,000	750,000	283,323,563	3.7%	445	9.8%	50,750,080.09	17.91
750,000	1,000,000	257,277,595	3.4%	301	6.6%	45,405,834.87	17.65
1,000,000	1,500,000	450,727,674	5.9%	365	8.0%	80,339,106.69	17.82
1,500,000	2,000,000	692,913,402	9.0%	390	8.6%	121,359,592.76	17.51
2,000,000	3,000,000	1,227,582,694	16.0%	506	11.1%	215,192,888.49	17.53
3,000,000	4,000,000	719,351,147	9.4%	208	4.6%	123,388,875.32	17.15
4,000,000	5,000,000	464,914,922	6.1%	103	2.3%	82,277,332.97	17.70
5,000,000	6,000,000	525,785,145	6.9%	96	2.1%	91,521,636.87	17.41
6,000,000	7,000,000	582,392,014	7.6%	90	2.0%	102,421,367.71	17.59
7,000,000	8,000,000	400,495,512	5.2%	54	1.2%	69,052,336.06	17.24
8,000,000		1,657,980,712	21.6%	149	3.3%	290,467,073.14	17.52
Total/Average		7,675,150,440	100.0%	4,553	100.0%	1,347,451,955.32	17.56

1/ Based on Federal order producer minimum prices. Producer prices are subject to location adjustments.

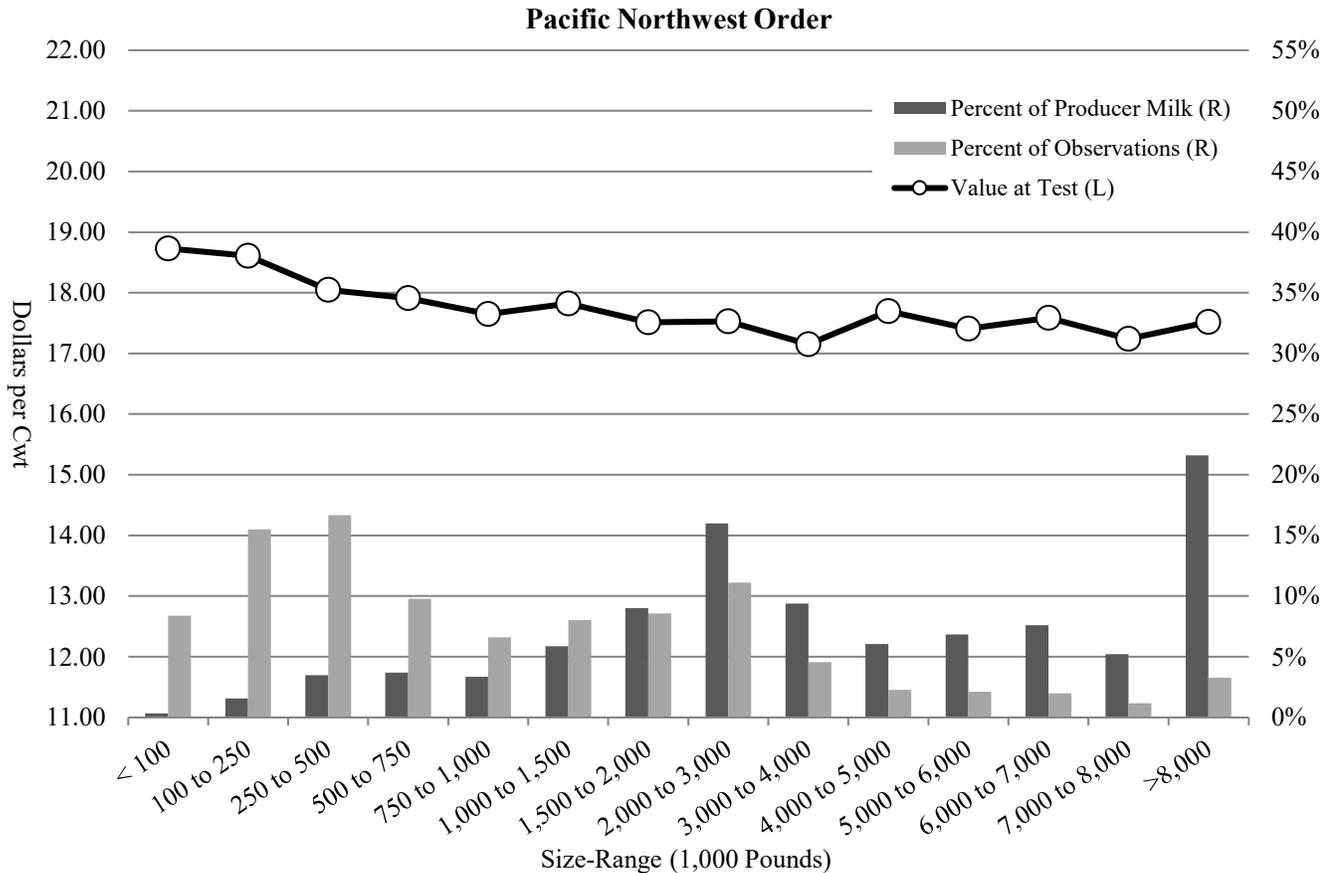


Table T-7a
Long Term Trends in Component Tests/Values, Butterfat: 2011-2020

Pacific Northwest Order

Year	Average No. of Producers	Percent of FO Value Contributed by Butterfat	Test	Standard Deviation	Minimum	Maximum
2011	610	40%	3.77	0.43	2.70	6.21
2012	532	35%	3.81	0.42	2.78	6.20
2013	568	32%	3.88	0.44	2.84	6.07
2014	534	38%	3.88	0.45	2.72	6.22
2015	479	54%	3.92	0.46	2.47	6.67
2016	492	57%	3.95	0.45	2.80	6.30
2017	468	58%	3.99	0.45	2.64	5.87
2018	496	61%	4.07	0.47	2.60	6.10
2019	458	54%	4.08	0.47	3.01	5.94
2020	379	40%	4.07	0.46	2.95	5.99
10 Year Simple Average	502	47%	3.94	0.45	2.75	6.16

Pacific Northwest Order: Butterfat

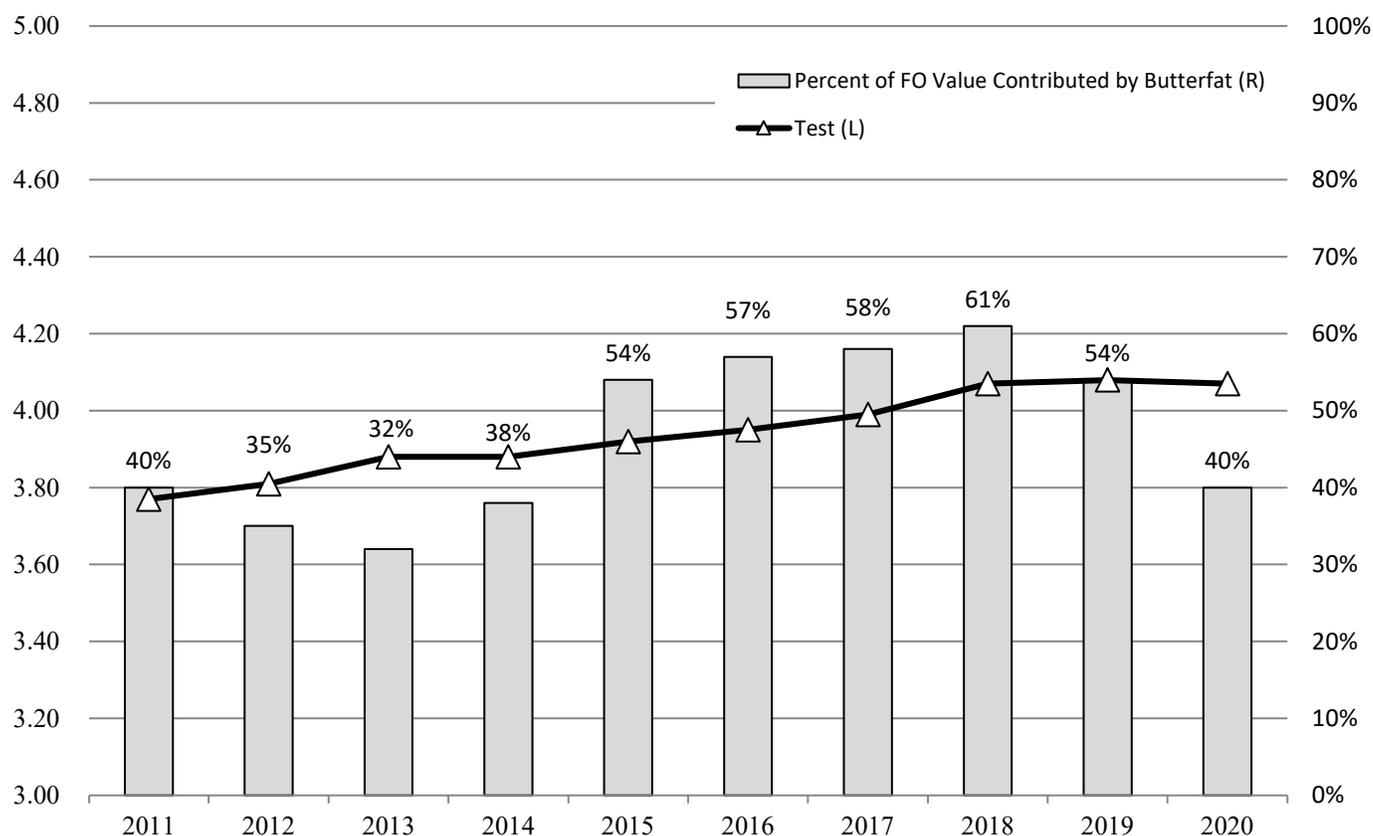


Table T-7b
Long Term Trends in Component Tests/Values, Protein: 2011-2020

Pacific Northwest Order

Year	Average No. of Producers	Percent of FO Value Contributed by Protein	Test	Standard Deviation	Minimum	Maximum
2011	610	46%	3.17	0.22	2.58	4.43
2012	532	52%	3.17	0.22	2.47	4.31
2013	568	52%	3.22	0.22	2.58	4.30
2014	534	49%	3.20	0.22	2.60	4.56
2015	479	40%	3.20	0.23	2.58	4.34
2016	492	41%	3.22	0.23	2.45	4.42
2017	468	33%	3.24	0.23	2.62	4.33
2018	496	32%	3.27	0.24	2.66	4.35
2019	458	40%	3.27	0.23	2.67	4.29
2020	379	69%	3.25	0.23	2.63	4.24
10 Year Simple Average	502	45%	3.22	0.23	2.58	4.36

Pacific Northwest Order: Protein

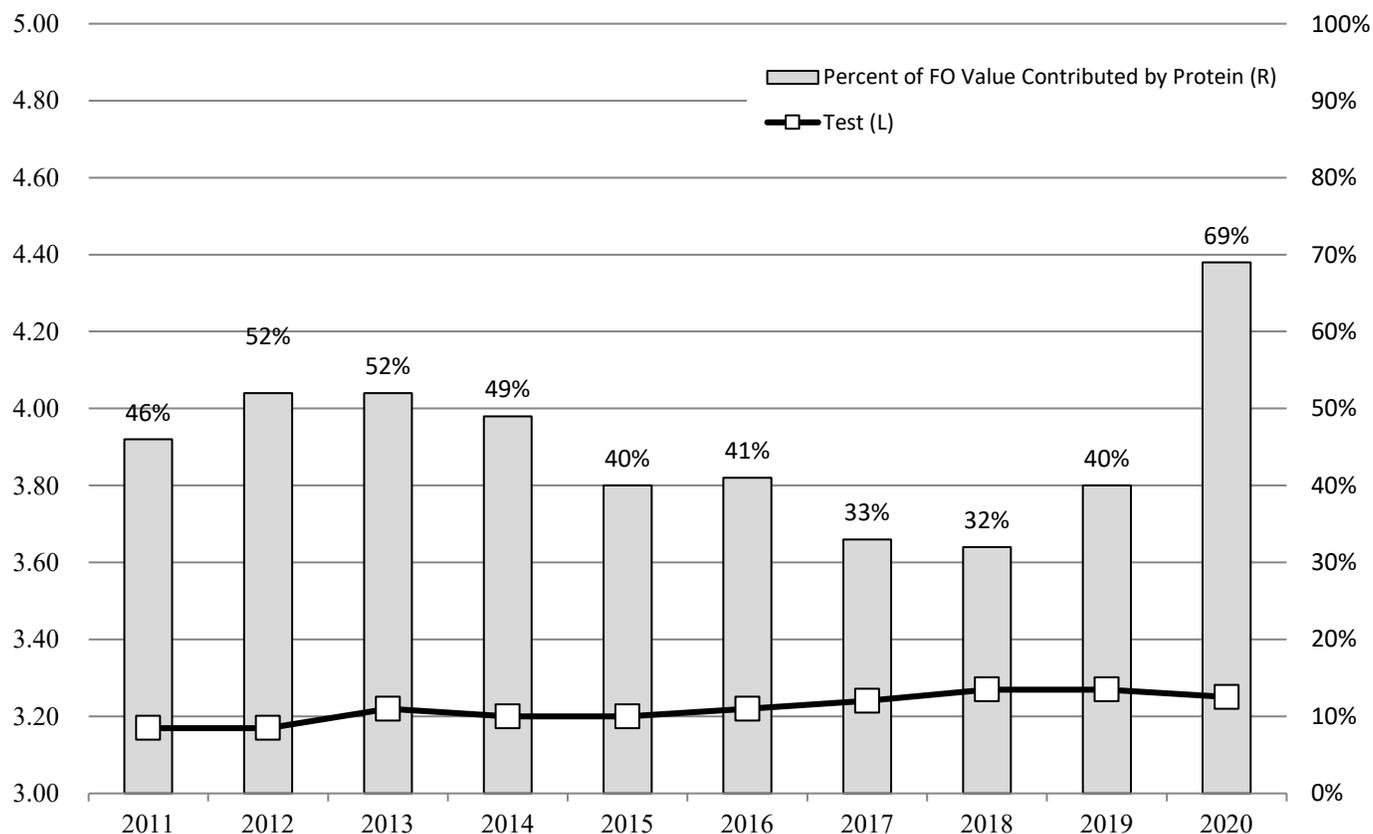


Table T-7c
Long Term Trends in Component Tests/Values, Other Solids: 2011-2020

Pacific Northwest Order

Year	Average No. of Producers	Percent of FO Value Contributed by Other Solids	Test	Standard Deviation	Minimum	Maximum
2011	610	10%	5.73	0.09	4.86	6.01
2012	532	13%	5.74	0.09	4.62	5.95
2013	568	11%	5.73	0.08	4.67	5.97
2014	534	11%	5.72	0.08	4.78	5.91
2015	479	6%	5.73	0.09	5.20	5.97
2016	492	3%	5.73	0.09	5.12	5.93
2017	468	8%	5.74	0.09	5.24	5.95
2018	496	5%	5.75	0.09	5.20	5.95
2019	458	6%	5.76	0.09	5.21	5.96
2020	379	5%	5.77	0.08	5.32	5.94
10 Year Simple Average	502	8%	5.74	0.09	5.02	5.95

Pacific Northwest Order: Other Solids

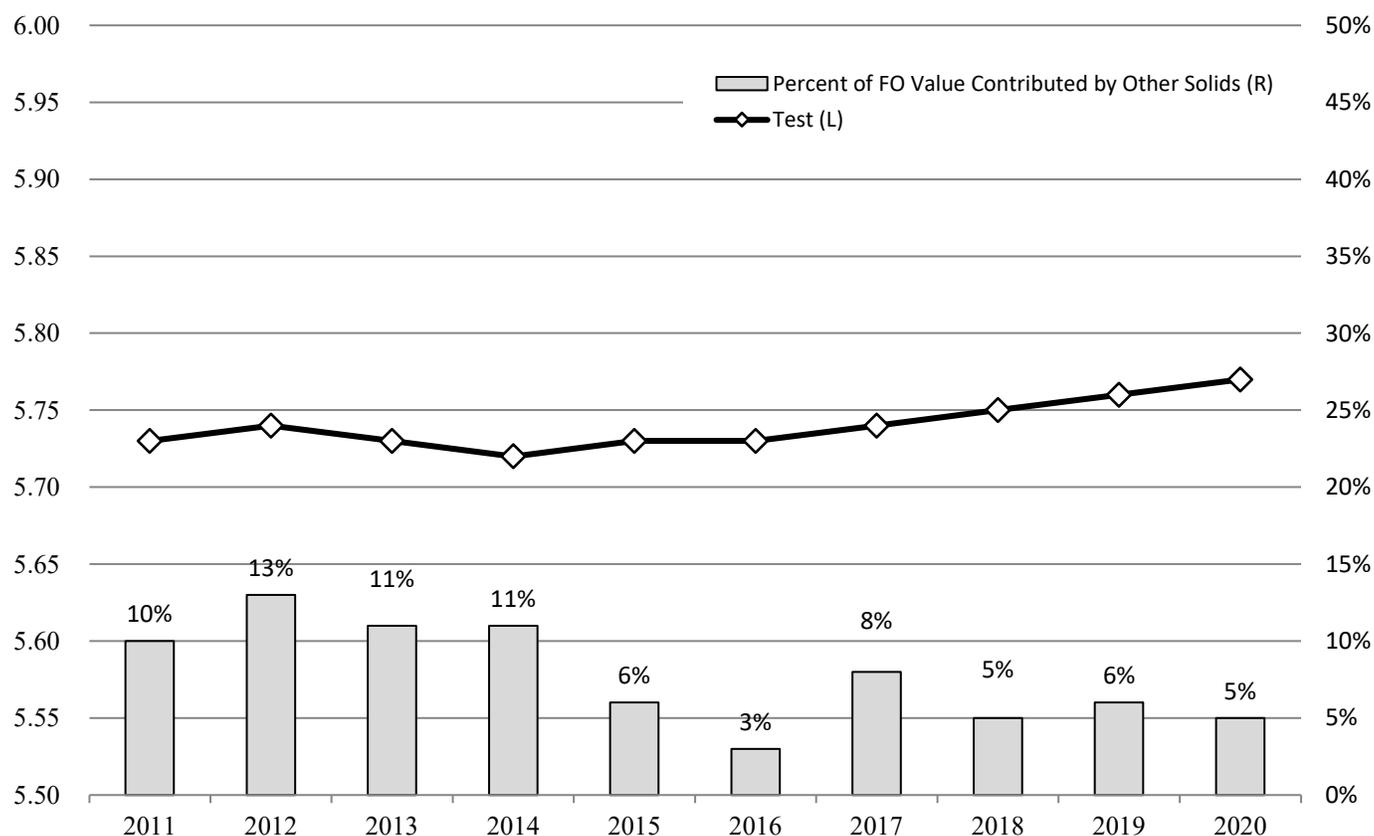


Table T-8
Number of Producers, Producer Milk, Component Tests and Standard Deviations: 2020

Arizona Order				
Month	No. of Producers	Producer Milk	Butterfat	
			Test	Standard Deviation
January	75	442,938,997	3.88	0.31
February	74	429,026,209	3.80	0.31
March	74	462,498,920	3.75	0.32
April	73	441,415,630	3.72	0.30
May	73	434,532,970	3.69	0.27
June	68	375,813,924	3.69	0.27
July	70	289,899,533	3.61	0.28
August	69	298,981,763	3.64	0.29
September	69	265,724,025	3.64	0.30
October	67	302,035,586	3.74	0.31
November	73	315,992,128	3.80	0.34
December	71	438,382,739	3.92	0.36
Average/Total	71	4,497,242,424	3.75	0.32

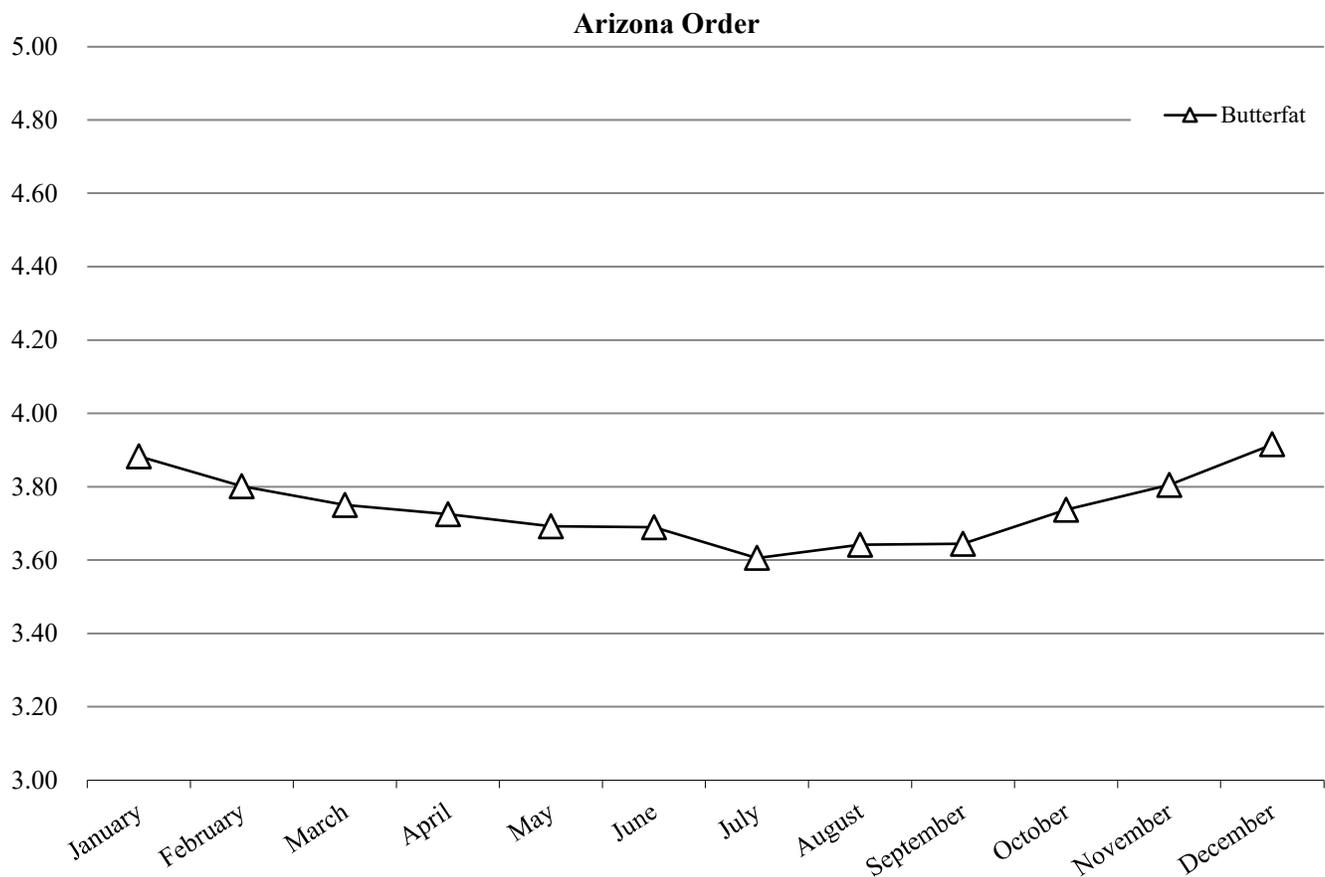


Table T-9
Component Tests by Size-Range of Producer Milk Deliveries: 2020

Size-Range (Pounds)		No. of Observations	Butterfat
Equal to or more than	Less than		
0	250,000	36	3.89
250,000	500,000	42	3.93
500,000	750,000	39	3.94
750,000	1,000,000	40	3.83
1,000,000	1,500,000	53	3.95
1,500,000	2,000,000	53	3.96
2,000,000	3,000,000	72	3.81
3,000,000	4,000,000	74	3.91
4,000,000	5,000,000	84	3.69
5,000,000	6,000,000	89	3.71
6,000,000	7,000,000	81	3.79
7,000,000	8,000,000	45	3.75
8,000,000	9,000,000	31	3.73
9,000,000		117	3.72
Total/Average		856	3.75

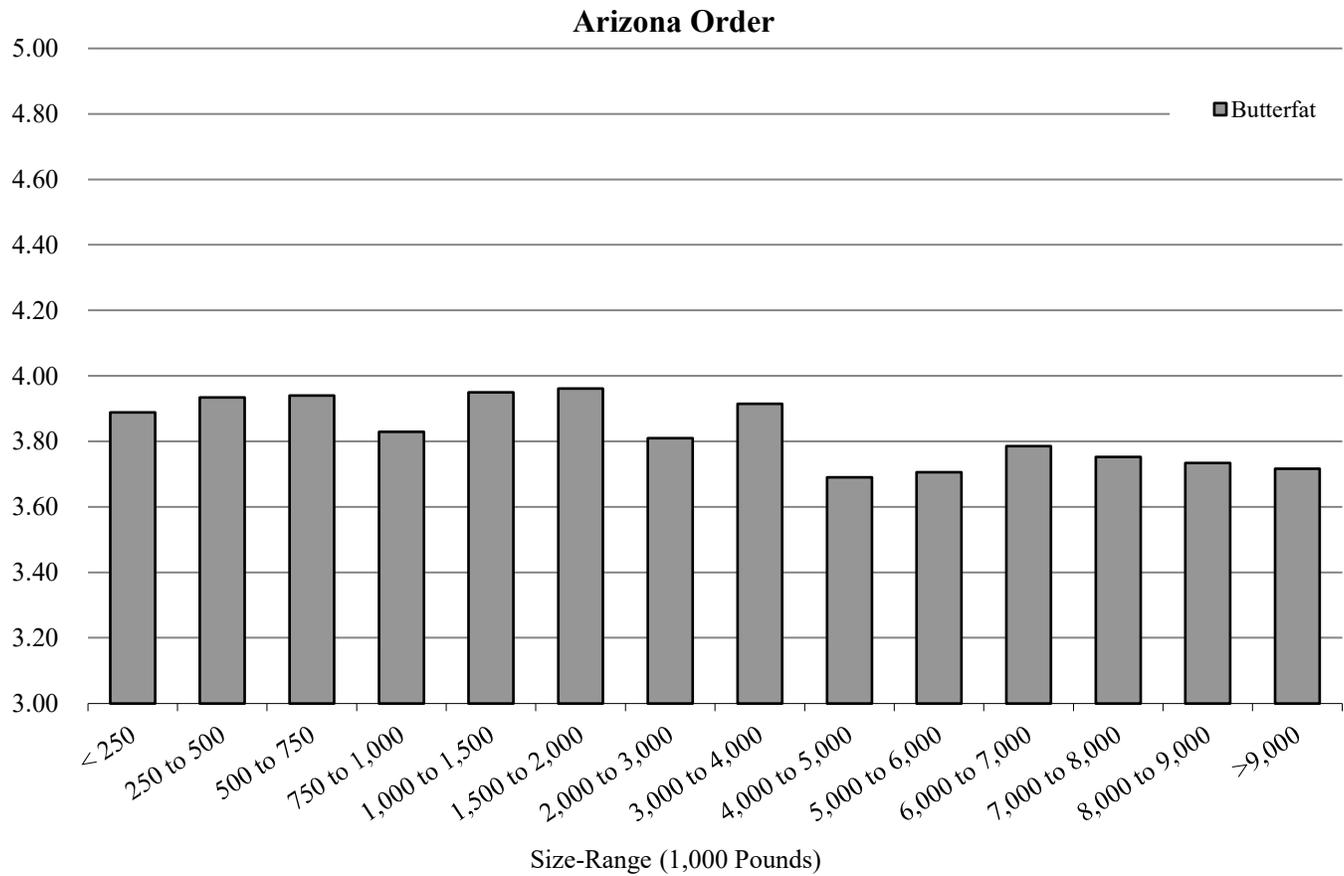


Table T-10
Producer Prices and Component Tests by Month: 2020

Arizona Order

Month	A	B	Difference (B - A)	Butterfat 1/		Skim 1/	
	Uniform Price, 3.5% BF	Value, at test *		- \$ / Lb -	- % -	- \$ / Cwt -	- % -
January	17.92	18.70	0.78	2.1287	3.88	10.85	96.12
February	17.25	17.82	0.57	2.0049	3.80	10.60	96.20
March	16.56	17.02	0.46	1.9363	3.75	10.14	96.25
April	13.33	13.62	0.29	1.4115	3.72	8.69	96.28
May	12.38	12.63	0.25	1.3697	3.69	7.86	96.31
June	15.50	15.82	0.32	1.7734	3.69	9.63	96.31
July	16.12	16.31	0.19	1.9314	3.61	9.70	96.39
August	15.84	16.07	0.23	1.7060	3.64	10.23	96.36
September	16.00	16.22	0.22	1.6217	3.64	10.70	96.36
October	15.24	15.61	0.37	1.6367	3.74	9.86	96.26
November	16.04	16.49	0.45	1.5781	3.80	10.90	96.20
December	16.24	16.83	0.59	1.5507	3.92	11.20	96.08
Wtd. Average	15.68	16.10	0.41	1.7261	3.75	10.00	96.25
Percent of FO Value				40%		60%	

* Similar to the Uniform Price, at test, but may differ due to the use of partially audited payroll data.

1/ The producer prices for the Arizona Order are subject to applicable location adjustments.

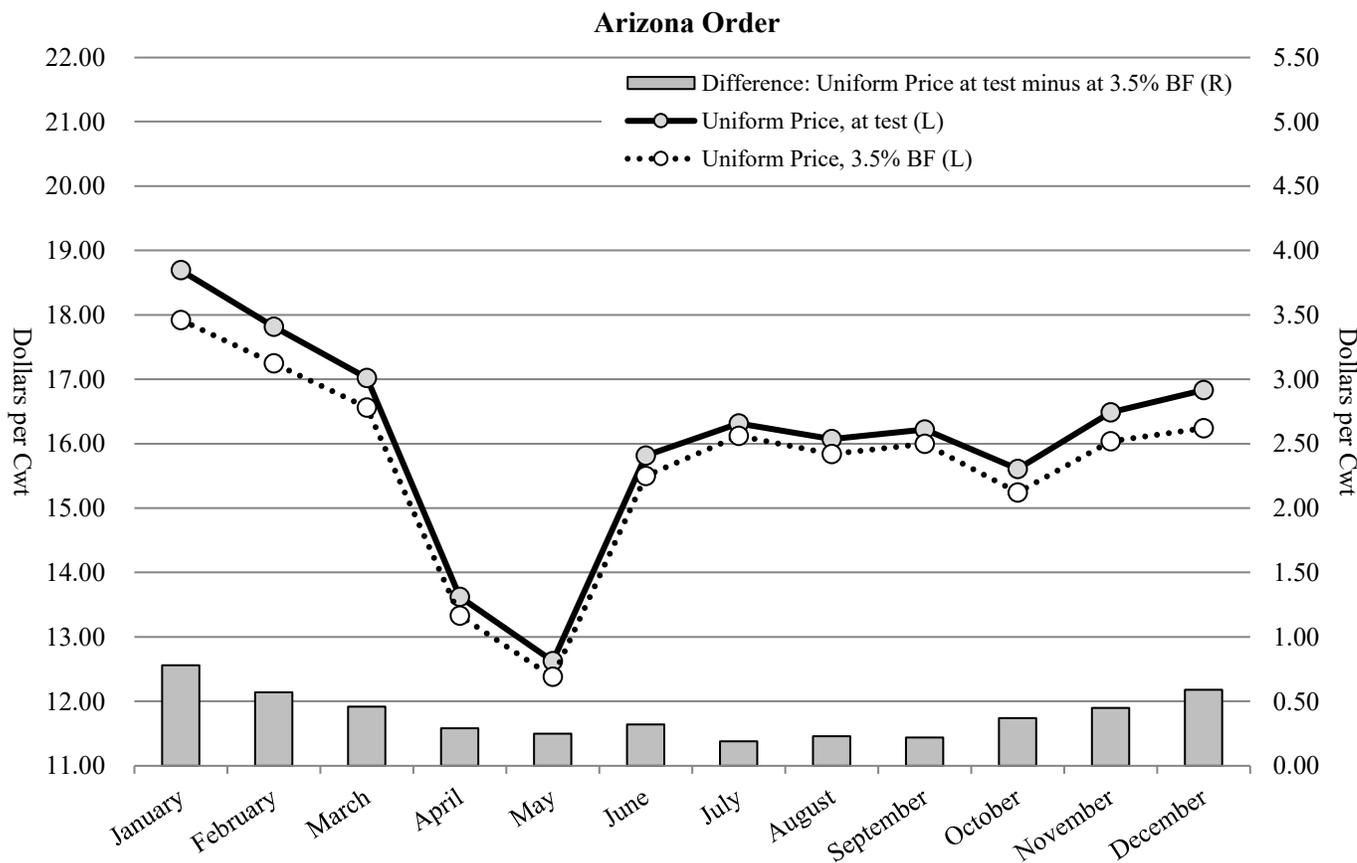


Table T-11
Producer Milk and Value by Size-Range of Producer Milk Deliveries: 2020

Arizona Order

Size-Range		Producer Milk	Percent of Producer Milk	No. of Observations	Percent of Observations	Producer Milk Value at Test 1/	Value, at test
Equal to or more than	Less than						
- - - Pounds - - -		- Pounds -	- % -		- % -	- Dollars -	- \$ / Cwt -
0	250,000	4,778,950	0.11%	36	4.21%	772,147.42	16.16
250,000	500,000	15,639,774	0.35%	42	4.91%	2,557,886.84	16.36
500,000	750,000	24,472,148	0.54%	39	4.56%	4,053,789.57	16.56
750,000	1,000,000	35,470,991	0.79%	40	4.67%	5,760,819.85	16.24
1,000,000	1,500,000	64,367,973	1.43%	53	6.19%	10,619,447.61	16.50
1,500,000	2,000,000	93,087,979	2.07%	53	6.19%	15,569,407.10	16.73
2,000,000	3,000,000	178,480,902	3.97%	72	8.41%	29,289,638.32	16.41
3,000,000	4,000,000	263,416,682	5.86%	74	8.64%	42,849,037.54	16.27
4,000,000	5,000,000	380,962,709	8.47%	84	9.81%	61,166,958.76	16.06
5,000,000	6,000,000	492,299,750	10.95%	89	10.40%	78,145,226.11	15.87
6,000,000	7,000,000	523,793,524	11.65%	81	9.46%	84,690,632.83	16.17
7,000,000	8,000,000	336,598,949	7.48%	45	5.26%	54,613,540.71	16.23
8,000,000	9,000,000	265,142,269	5.90%	31	3.62%	41,990,332.37	15.84
9,000,000		1,818,729,824	40.44%	117	13.67%	291,836,605.02	16.05
Total/Average		4,497,242,424	100.00%	856	100.00%	723,915,470.05	16.10

1/ Based on Federal order minimum producer prices. Producer prices are subject to location adjustments.

Arizona Order

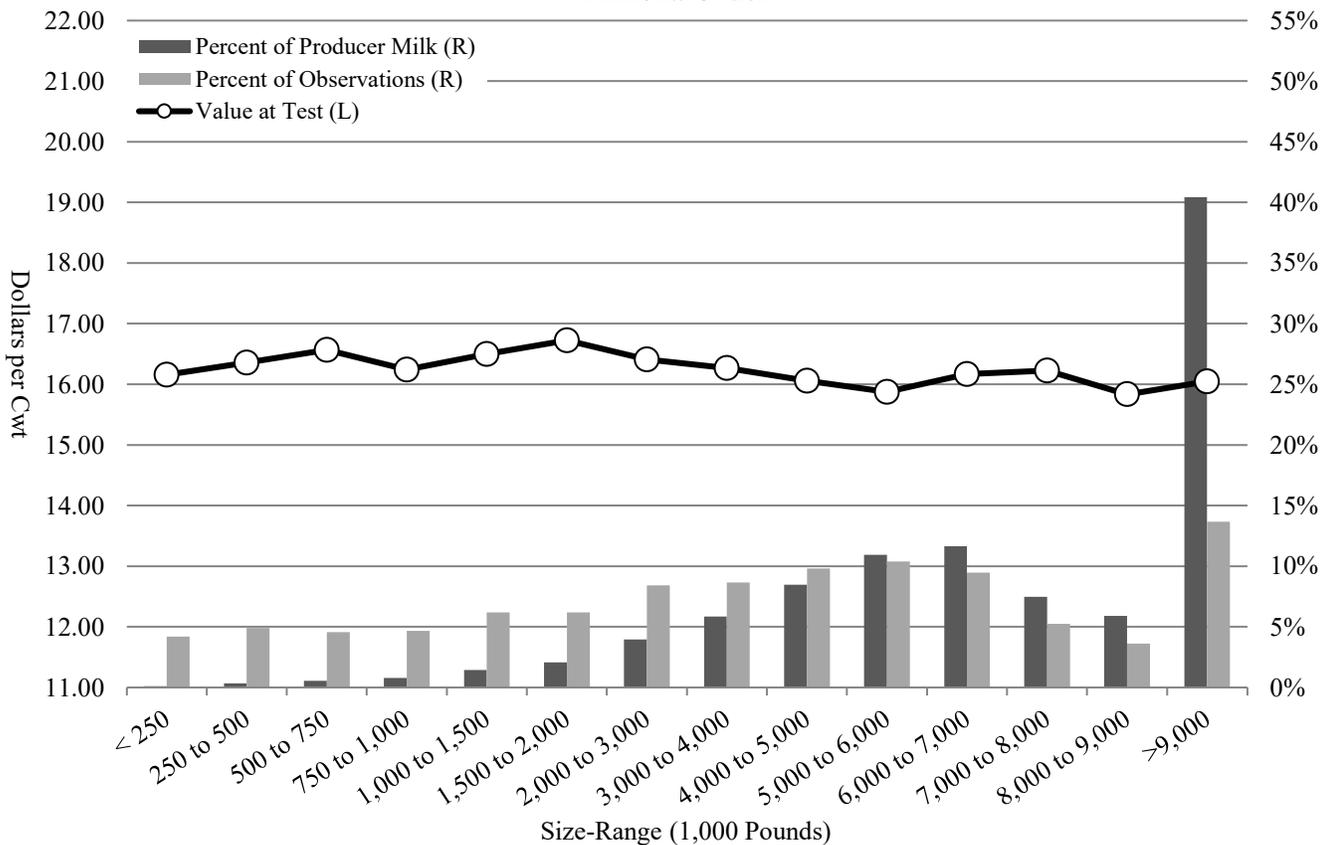


Table T-12
Long Term Trends in Component Tests/Values, Butterfat: 2011-2020

Arizona Order

Year	Average No. of Producers	Percent of FO Value Contributed by Butterfat	Test	Standard Deviation	Minimum	Maximum
2011	100	39%	3.55	0.33	2.48	4.99
2012	95	35%	3.55	0.33	2.98	5.46
2013	92	30%	3.52	0.32	2.90	5.09
2014	92	35%	3.47	0.31	2.91	4.94
2015	95	50%	3.47	0.31	2.46	5.02
2016	91	55%	3.54	0.31	2.87	5.10
2017	89	57%	3.63	0.30	2.92	5.08
2018	81	60%	3.66	0.32	2.74	5.16
2019	75	53%	3.74	0.32	2.59	5.23
2020	71	40%	3.75	0.32	3.14	5.27
10 Year Simple Average	88	45%	3.59	0.32	2.80	5.13

Arizona Order: Butterfat

