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Dairy Programs

FEDERAL MILK ORDERS 124 & 131

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

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

2021

June 2022

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OVERVIEW OF COMPONENT TESTS OF PRODUCER MILK AT THE FARM LEVEL

PACIFIC NORTHWEST AND ARIZONA FEDERAL MILK MARKETING ORDERS

2021

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 and Utah)
- Eastern Washington
- Western Oregon (& Northern California)
- Eastern Oregon
- Arizona (& Southern California and Texas)

An index of Tables grouped by Federal order can be found on page ii.

Index of Tables

Page
Number

Pacific Northwest Order (FO 124)

Tables: T-1 Number of Producers, Producer Milk, Component Tests
and Standard Deviations: 20211

T-2 Number of Producers, Producer Milk and Component Tests
by Region: 20212

T-3a Butterfat Tests by Region: 20213

T-3b Protein Tests by Region: 20214

T-3c Other Solids Tests by Region: 20215

T-4 Component Tests by Size-Range of Producer Milk Deliveries: 20216

T-5 Producer Prices and Component Tests by Month: 20217

T-6 Producer Milk and Value by Size-Range of Producer
Milk Deliveries: 20218

T-7a Long Term Trends in Component Tests/Values, Butterfat: 2012-20219

T-7b Long Term Trends in Component Tests/Values, Protein: 2012-202110

T-7c Long Term Trends in Component Tests/Values, Other Solids: 2012-2021 ...11

Arizona Order (FO 131)

T-8 Number of Producers, Producer Milk, Component Tests
and Standard Deviations: 202112

T-9 Component Tests by Size-Range of Producer Milk Deliveries: 202113

T-10 Producer Prices and Component Tests by Month: 202114

T-11 Producer Milk and Value by Size-Range of Producer
Milk Deliveries: 202115

T-12 Long Term Trends in Component Tests/Values, Butterfat: 2012-202116

Table T-1
Number of Producers, Producer Milk, Component Tests and Standard Deviations: 2021

Pacific Northwest Order								
Month	No. of Producers	Producer Milk	Butterfat		Protein		Other Solids	
			Test	Standard Deviation	Test	Standard Deviation	Test	Standard Deviation
January	352	619,999,131	4.18	0.44	3.31	0.23	5.77	0.09
February	351	562,754,318	4.17	0.44	3.31	0.22	5.81	0.09
March	350	627,338,096	4.13	0.42	3.30	0.22	5.78	0.08
April	347	610,727,430	4.06	0.41	3.27	0.21	5.79	0.08
May	343	632,115,108	3.98	0.40	3.22	0.21	5.79	0.07
June	343	598,303,072	3.93	0.38	3.18	0.21	5.79	0.07
July	429	745,402,799	3.99	0.42	3.20	0.22	5.77	0.07
August	343	589,346,472	3.95	0.38	3.17	0.20	5.76	0.08
September	339	567,312,897	4.09	0.40	3.30	0.21	5.74	0.09
October	334	577,931,427	4.20	0.43	3.43	0.22	5.77	0.09
November	333	549,410,043	4.27	0.46	3.47	0.24	5.78	0.09
December	414	706,492,096	4.41	0.50	3.50	0.25	5.76	0.09
Average/Total	357	7,387,132,889	4.11	0.45	3.30	0.24	5.77	0.09

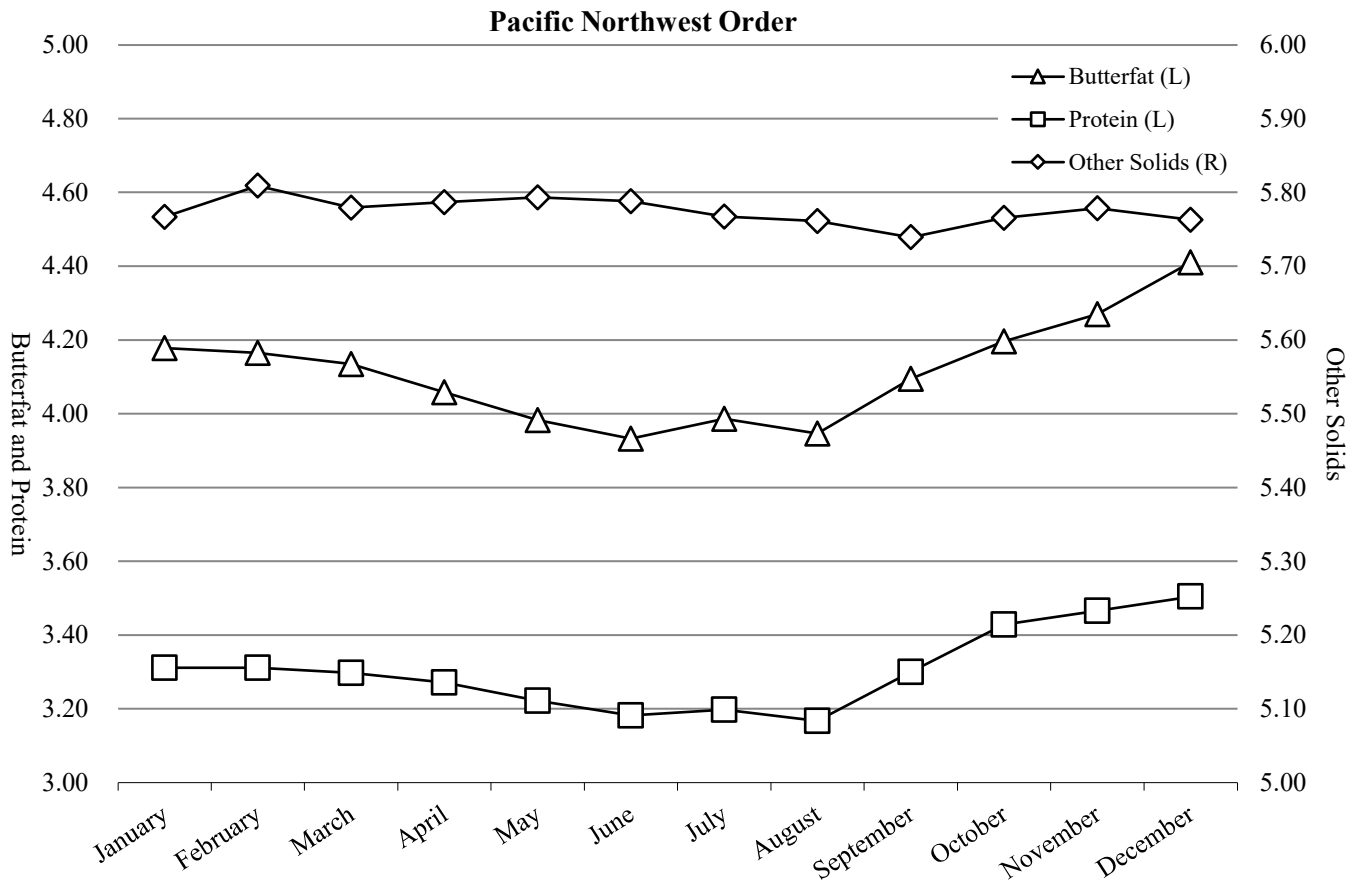


Table T-2**Number of Producers, Producer Milk and Component Tests by Region: 2021****Pacific Northwest Order**

Month	Western Washington 1/					Eastern Washington				
	No. of Producers	Producer Milk	Butterfat	Protein	OS	No. of Producers	Producer Milk	Butterfat	Protein	OS
January	176	164,589,507	4.21	3.30	5.74	103	384,859,670	4.18	3.33	5.77
February	176	148,702,468	4.24	3.30	5.78	102	349,776,020	4.15	3.33	5.82
March	176	164,924,787	4.21	3.29	5.75	102	390,521,347	4.10	3.31	5.79
April	175	159,510,407	4.14	3.27	5.76	101	383,044,268	4.02	3.28	5.80
May	171	165,789,148	4.06	3.23	5.77	101	396,686,203	3.95	3.23	5.80
June	170	156,757,350	4.01	3.19	5.76	102	375,359,540	3.90	3.19	5.80
July	172	163,837,705	3.99	3.17	5.75	101	374,412,484	3.85	3.13	5.78
August	171	155,437,052	4.03	3.19	5.74	101	369,395,426	3.91	3.16	5.77
September	168	148,010,177	4.16	3.29	5.71	101	356,708,404	4.08	3.32	5.75
October	165	149,771,907	4.27	3.39	5.73	100	362,757,439	4.19	3.46	5.78
November	166	143,023,712	4.31	3.41	5.75	98	344,189,200	4.28	3.52	5.79
December	165	152,673,418	4.33	3.41	5.75	99	355,290,419	4.31	3.49	5.79
Average/Total	171	1,873,027,638	4.16	3.28	5.75	101	4,443,000,420	4.07	3.31	5.79

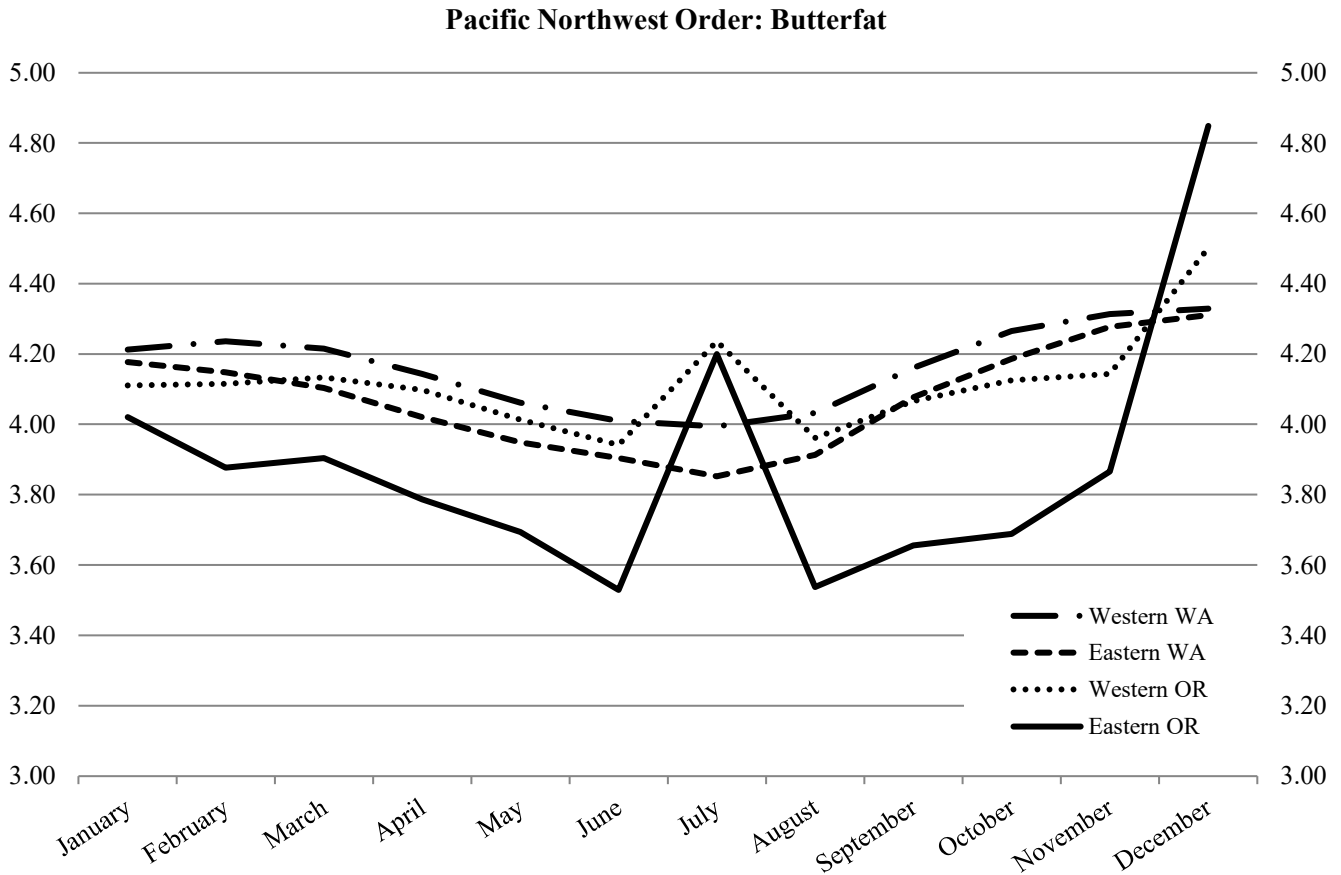
Month	Western Oregon					Eastern Oregon				
	No. of Producers	Producer Milk	Butterfat	Protein	OS	No. of Producers	Producer Milk	Butterfat	Protein	OS
January	67	65,203,601	4.11	3.23	5.78	6	5,346,353	4.02	3.25	5.82
February	67	59,186,379	4.12	3.22	5.81	6	5,089,451	3.88	3.23	5.85
March	66	66,397,052	4.13	3.23	5.80	6	5,494,910	3.90	3.22	5.82
April	66	63,132,083	4.10	3.22	5.79	5	5,040,672	3.79	3.16	5.83
May	66	64,573,130	4.01	3.17	5.80	5	5,066,627	3.69	3.12	5.84
June	66	61,307,908	3.94	3.14	5.80	5	4,878,274	3.53	3.10	5.84
July	144	117,787,364	4.24	3.28	5.76	12	89,365,246	4.20	3.41	5.75
August	66	59,746,461	3.96	3.15	5.76	5	4,767,533	3.54	3.10	5.82
September	65	58,083,704	4.07	3.23	5.75	5	4,510,612	3.66	3.20	5.78
October	64	60,877,682	4.12	3.33	5.77	5	4,524,399	3.69	3.31	5.82
November	64	59,370,406	4.14	3.32	5.78	5	2,826,725	3.87	3.34	5.81
December	139	113,761,002	4.50	3.46	5.75	11	84,767,257	4.85	3.78	5.71
Average/Total	78	849,426,772	4.15	3.26	5.78	6	221,678,059	4.35	3.50	5.75

1/ Includes: Latah County, Idaho; Benton County, Washington.

**Table T-3a
Butterfat Tests by Region: 2021**

Month	Pacific Northwest Order Butterfat			
	Western WA 1/	Eastern WA	Western OR	Eastern OR
January	4.21	4.18	4.11	4.02
February	4.24	4.15	4.12	3.88
March	4.21	4.10	4.13	3.90
April	4.14	4.02	4.10	3.79
May	4.06	3.95	4.01	3.69
June	4.01	3.90	3.94	3.53
July	3.99	3.85	4.24	4.20
August	4.03	3.91	3.96	3.54
September	4.16	4.08	4.07	3.66
October	4.27	4.19	4.12	3.69
November	4.31	4.28	4.14	3.87
December	4.33	4.31	4.50	4.85
Average	4.16	4.07	4.15	4.35

1/ Includes: Latah County, Idaho; Benton County, Washington.

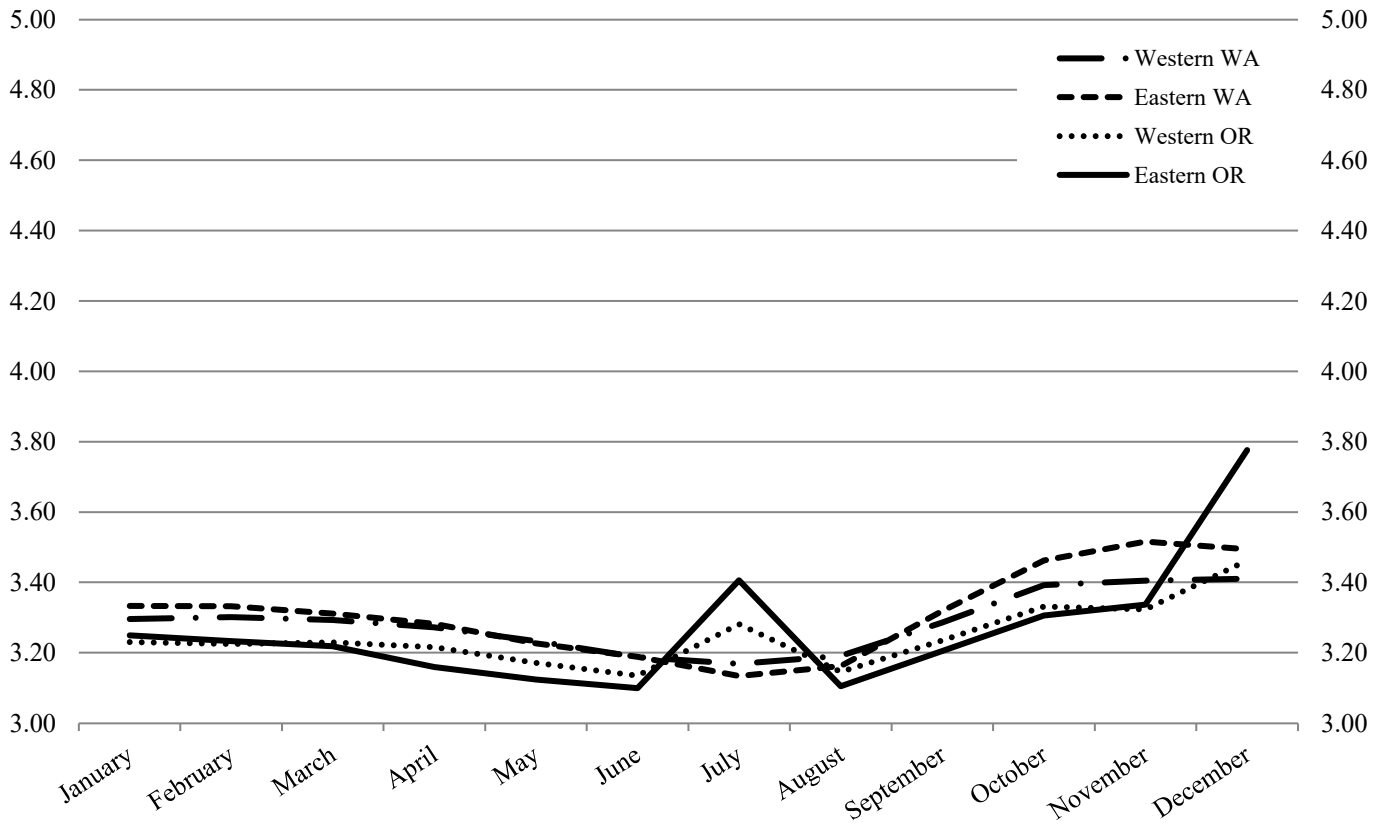


**Table T-3b
Protein Tests by Region: 2021**

Month	Pacific Northwest Order			
	Western WA 1/	Eastern WA	Western OR	Eastern OR
January	3.30	3.33	3.23	3.25
February	3.30	3.33	3.22	3.23
March	3.29	3.31	3.23	3.22
April	3.27	3.28	3.22	3.16
May	3.23	3.23	3.17	3.12
June	3.19	3.19	3.14	3.10
July	3.17	3.13	3.28	3.41
August	3.19	3.16	3.15	3.10
September	3.29	3.32	3.23	3.20
October	3.39	3.46	3.33	3.31
November	3.41	3.52	3.32	3.34
December	3.41	3.49	3.46	3.78
Average	3.28	3.31	3.26	3.50

1/ Includes: Latah County, Idaho; Benton County, Washington.

Pacific Northwest Order: Protein



**Table T-3c
Other Solids Tests by Region: 2021**

Month	Pacific Northwest Order Other Solids			
	Western WA 1/	Eastern WA	Western OR	Eastern OR
January	5.74	5.77	5.78	5.82
February	5.78	5.82	5.81	5.85
March	5.75	5.79	5.80	5.82
April	5.76	5.80	5.79	5.83
May	5.77	5.80	5.80	5.84
June	5.76	5.80	5.80	5.84
July	5.75	5.78	5.76	5.75
August	5.74	5.77	5.76	5.82
September	5.71	5.75	5.75	5.78
October	5.73	5.78	5.77	5.82
November	5.75	5.79	5.78	5.81
December	5.75	5.79	5.75	5.71
Average	5.75	5.79	5.78	5.75

1/ Includes: Latah County, Idaho; Benton County, Washington.

Pacific Northwest Order: Other Solids

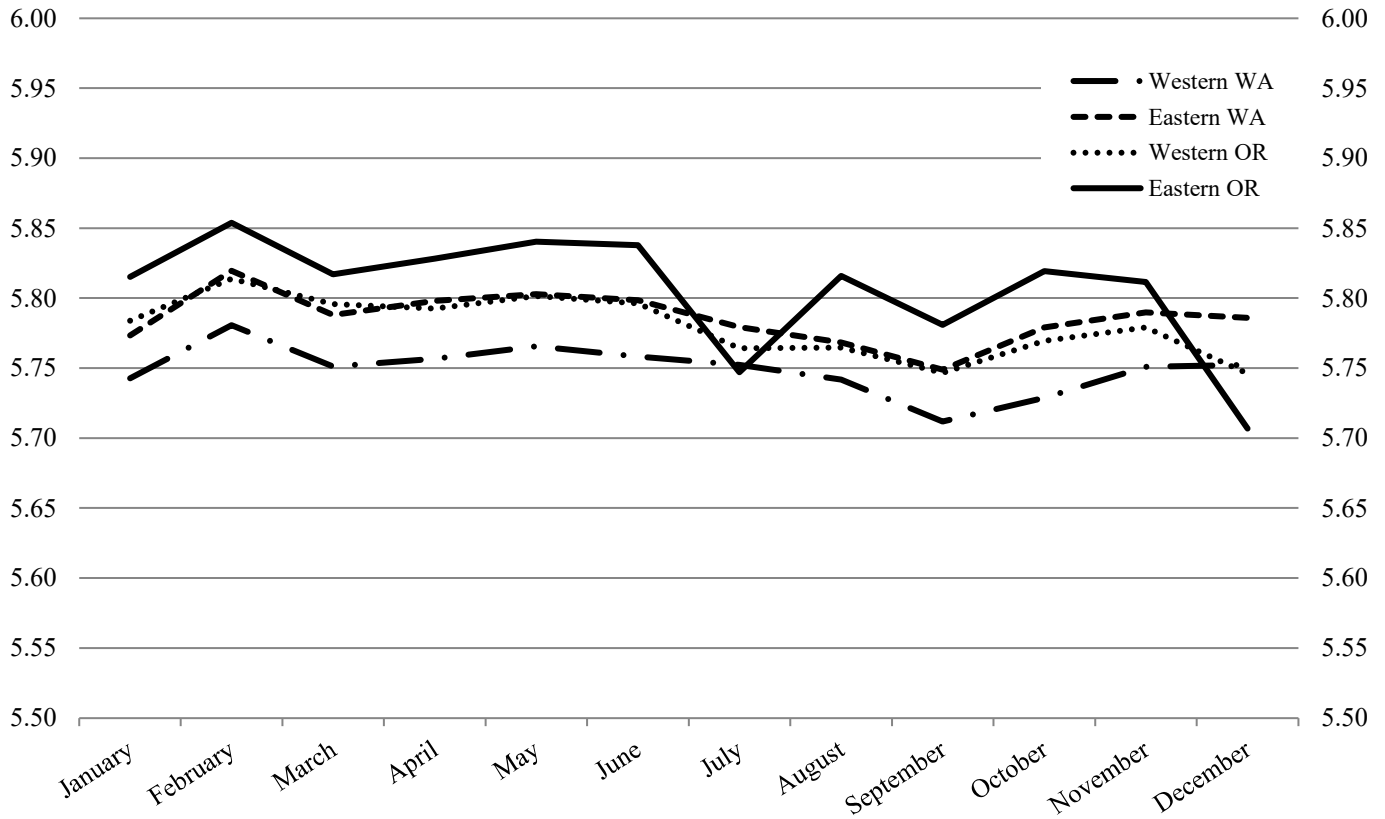
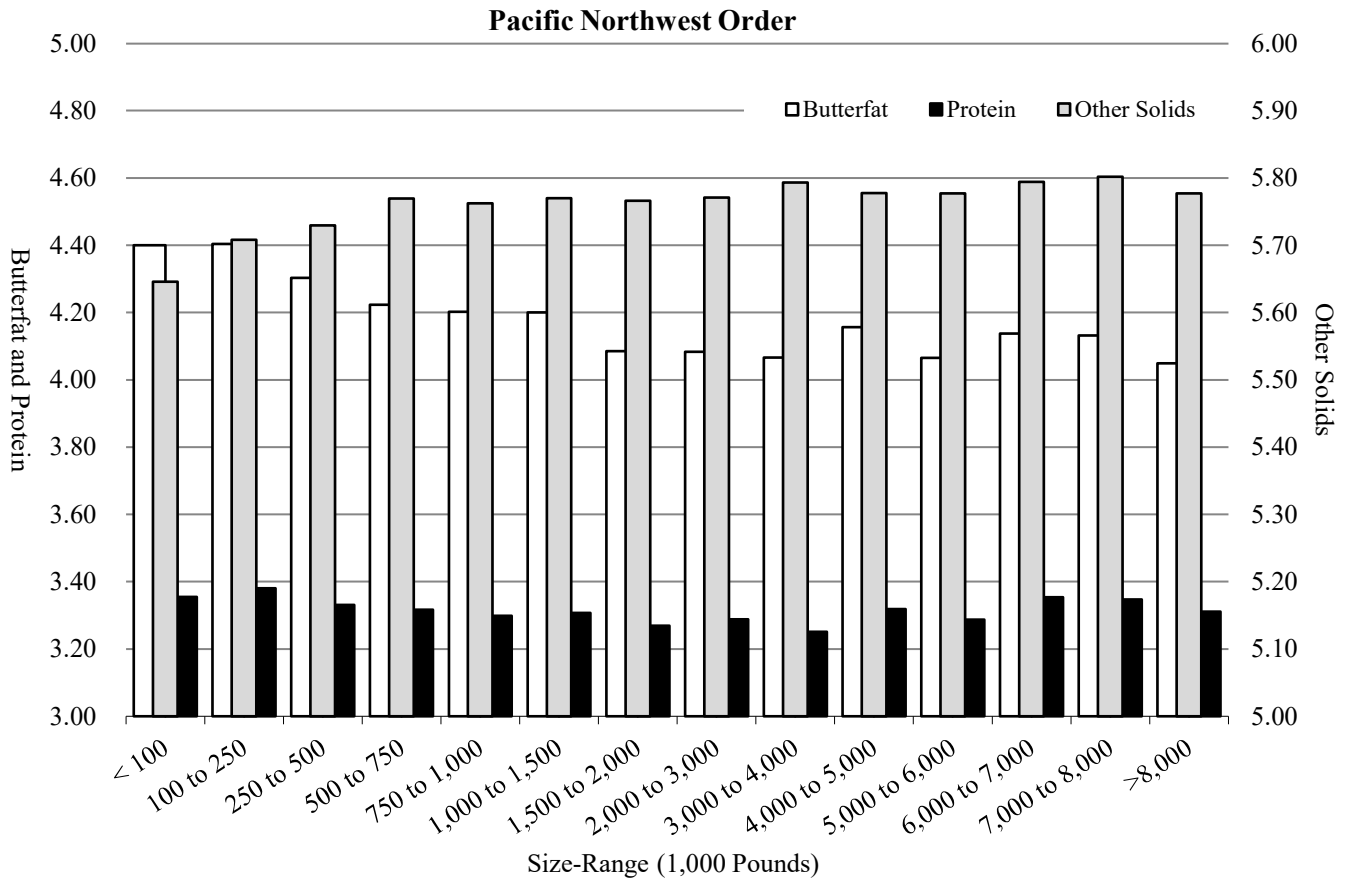


Table T-4
Component Tests by Size-Range of Producer Milk Deliveries: 2021

Size-Range (Pounds)		No. of Observations	Pacific Northwest Order		
Equal to or more than	Less than		Butterfat	Protein	Other Solids
0	100,000	380	4.40	3.35	5.65
100,000	250,000	611	4.40	3.38	5.71
250,000	500,000	749	4.30	3.33	5.73
500,000	750,000	392	4.22	3.32	5.77
750,000	1,000,000	277	4.20	3.30	5.76
1,000,000	1,500,000	353	4.20	3.31	5.77
1,500,000	2,000,000	342	4.09	3.27	5.77
2,000,000	3,000,000	523	4.08	3.29	5.77
3,000,000	4,000,000	161	4.07	3.25	5.79
4,000,000	5,000,000	98	4.16	3.32	5.78
5,000,000	6,000,000	109	4.07	3.29	5.78
6,000,000	7,000,000	91	4.14	3.35	5.79
7,000,000	8,000,000	47	4.13	3.35	5.80
8,000,000		145	4.05	3.31	5.78
Total/Average		4,278	4.11	3.30	5.77



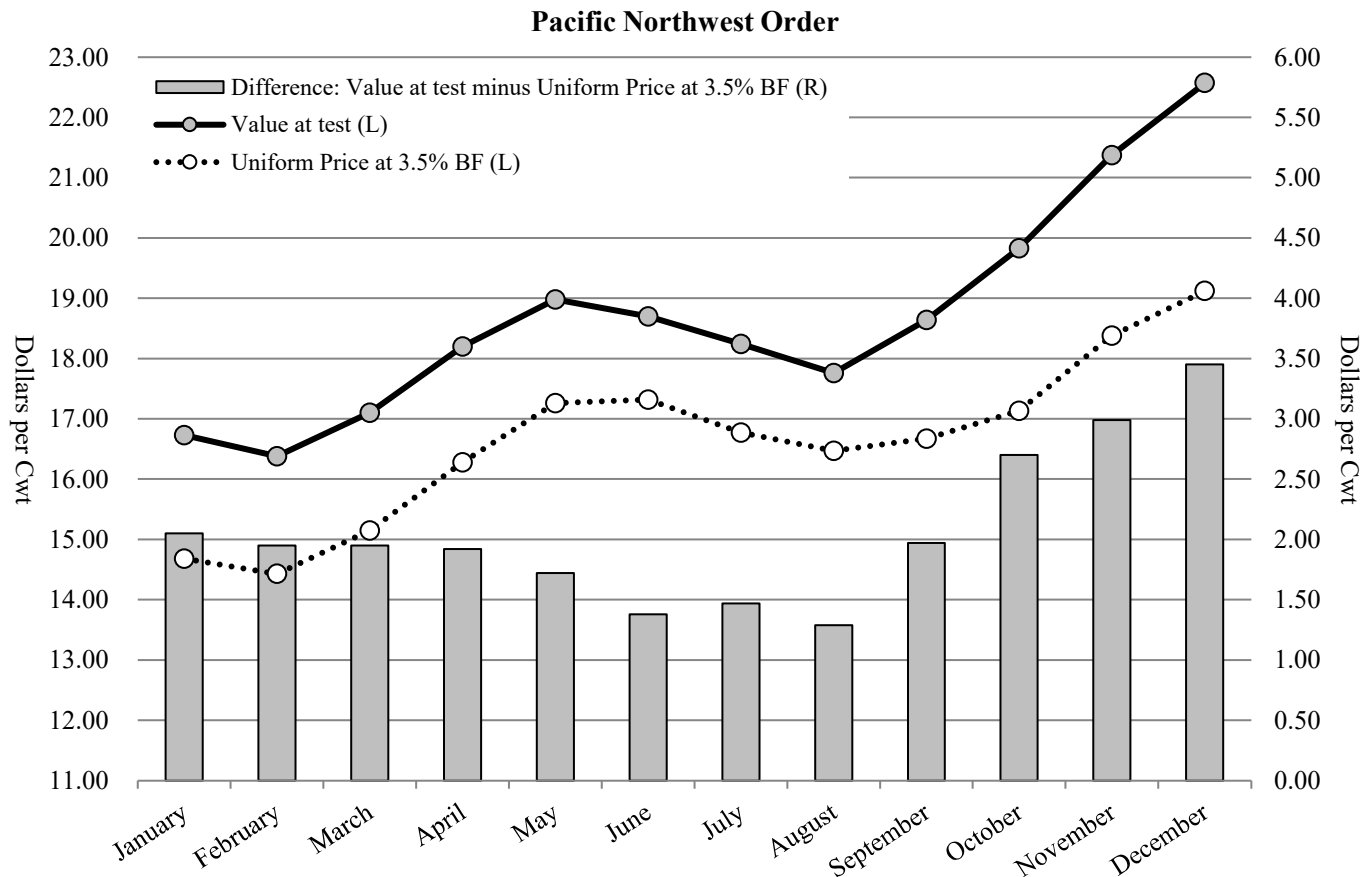
**Table T-5
 Producer Prices and Component Tests by Month: 2021**

Pacific Northwest Order

Month	A	B	Difference (B - A)	Butterfat		Protein		Other Solids		Producer Price Differential 1/	
	Uniform Price at 3.5% BF	Value at test *		\$/Lb -	% -	\$/Lb -	% -	\$/Lb -	% -		
				----- \$ / Cwt -----	-\$ / Lb -	-% -	-\$ / Lb -	-% -	-\$ / Lb -	-% -	-\$ / Cwt -
January	14.68	16.73	2.05	1.5541	4.18	3.0355	3.31	0.2682	5.77	(1.36)	
February	14.43	16.38	1.95	1.4376	4.17	2.9816	3.31	0.3161	5.81	(1.32)	
March	15.15	17.10	1.95	1.7176	4.13	2.6954	3.30	0.3652	5.78	(1.00)	
April	16.28	18.20	1.92	1.9496	4.06	2.8136	3.27	0.4268	5.79	(1.39)	
May	17.26	18.98	1.72	1.9851	3.98	3.1307	3.22	0.4645	5.79	(1.70)	
June	17.32	18.70	1.38	1.9641	3.93	2.5834	3.18	0.4579	5.79	0.11	
July	16.77	18.24	1.47	1.8996	3.99	2.4957	3.20	0.4181	5.77	0.28	
August	16.47	17.76	1.29	1.8508	3.95	2.4582	3.17	0.3735	5.76	0.52	
September	16.67	18.64	1.97	1.9388	4.09	2.6010	3.30	0.3445	5.74	0.14	
October	17.13	19.83	2.70	1.9414	4.20	3.0130	3.43	0.3560	5.77	(0.70)	
November	18.38	21.37	2.99	2.1541	4.27	2.7536	3.47	0.3949	5.78	0.35	
December	19.12	22.57	3.45	2.2919	4.41	2.5937	3.50	0.4532	5.76	0.76	
Wtd. Average	16.67	18.74	2.07	1.8976	4.11	2.7582	3.30	0.3888	5.77	(0.43)	
Percent of FO Value				42%		49%		12%		-2%	

* 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: 2021**

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	24,004,332	0.3%	380	8.9%	4,640,425.08	19.33
100,000	250,000	105,728,406	1.4%	611	14.3%	20,617,334.45	19.50
250,000	500,000	267,002,535	3.6%	749	17.5%	51,066,199.01	19.13
500,000	750,000	244,450,823	3.3%	392	9.2%	46,416,682.83	18.99
750,000	1,000,000	236,473,511	3.2%	277	6.5%	44,683,847.38	18.90
1,000,000	1,500,000	435,733,546	5.9%	353	8.3%	82,638,195.88	18.97
1,500,000	2,000,000	610,750,936	8.3%	342	8.0%	113,122,455.72	18.52
2,000,000	3,000,000	1,284,132,012	17.4%	523	12.2%	239,188,373.27	18.63
3,000,000	4,000,000	547,662,785	7.4%	161	3.8%	101,330,674.60	18.50
4,000,000	5,000,000	443,591,179	6.0%	98	2.3%	82,878,910.29	18.68
5,000,000	6,000,000	596,852,032	8.1%	109	2.5%	111,651,834.12	18.71
6,000,000	7,000,000	591,764,874	8.0%	91	2.1%	111,253,808.82	18.80
7,000,000	8,000,000	349,755,334	4.7%	47	1.1%	66,183,224.03	18.92
8,000,000		1,649,230,584	22.3%	145	3.4%	308,440,277.18	18.70
Total/Average		7,387,132,889	100.0%	4,278	100.0%	1,384,112,242.66	18.74

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

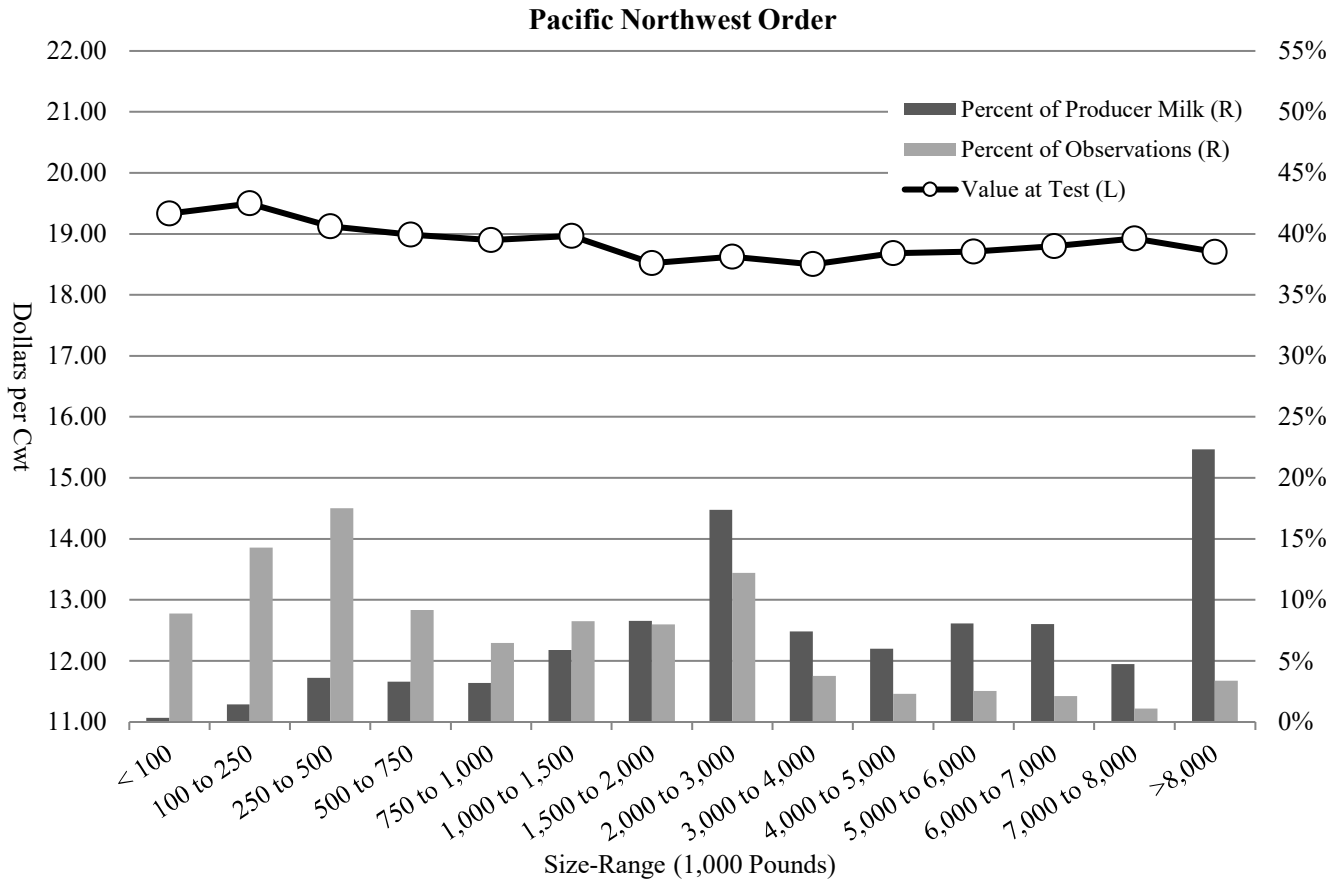


Table T-7a
Long Term Trends in Component Tests/Values, Butterfat: 2012-2021

Pacific Northwest Order

Year	Average No. of Producers	Percent of FO Value Contributed by Butterfat 1/	Test	Standard Deviation	Minimum	Maximum
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
2021	357	42%	4.11	0.45	2.86	6.43
10 Year Simple Average	476	47%	3.98	0.45	2.77	6.18

1/ Note that this data comes from Table T-5 of the respective year beginning 2018. For years prior to 2018, data was calculated based on those data sets. The sum of the component percentages and the PPD equal 100.

Pacific Northwest Order: Butterfat

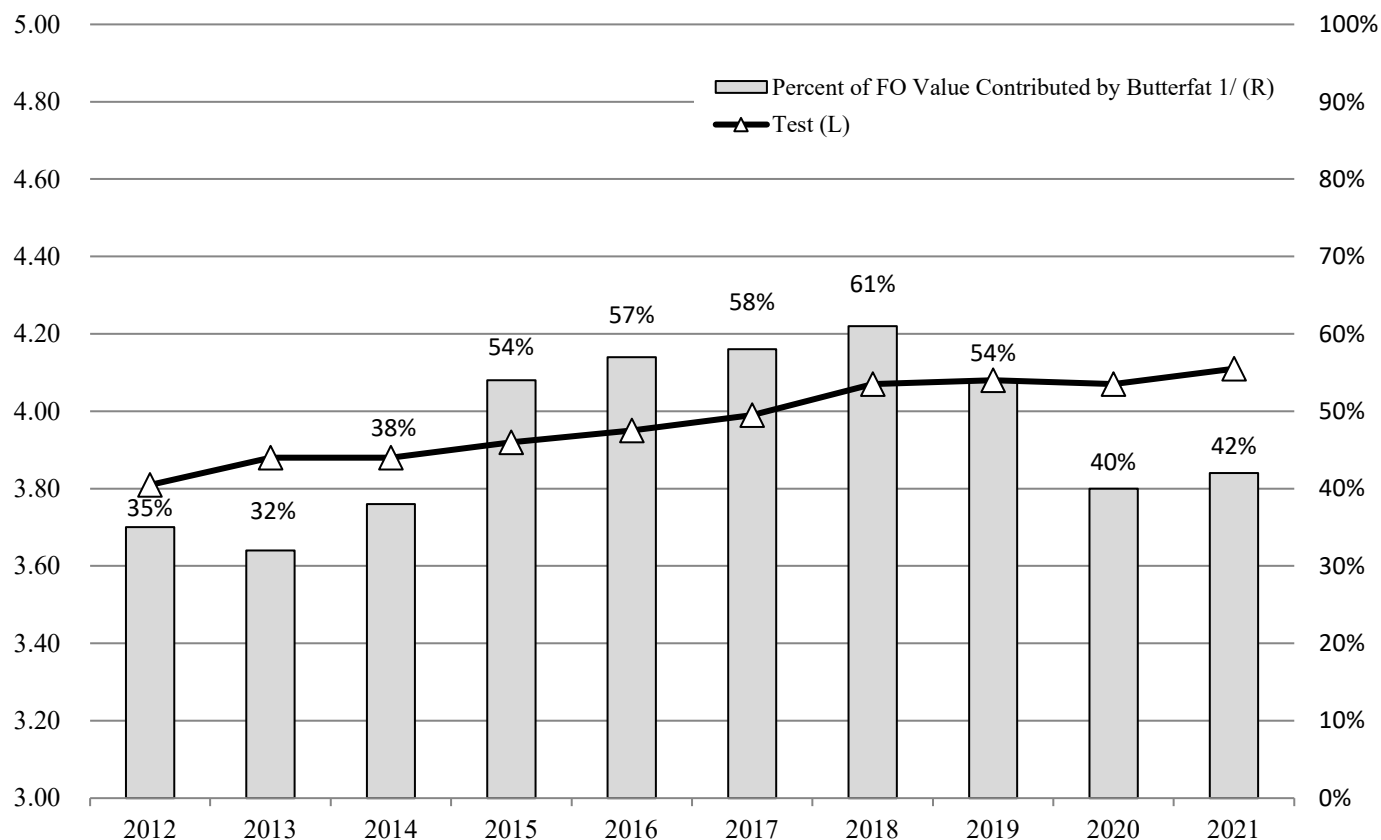


Table T-7b
Long Term Trends in Component Tests/Values, Protein: 2012-2021

Pacific Northwest Order

Year	Average No. of Producers	Percent of FO Value Contributed by Protein 1/	Test	Standard Deviation	Minimum	Maximum
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
2021	357	49%	3.30	0.24	2.55	4.43
10 Year Simple Average	476	46%	3.23	0.23	2.58	4.36

1/ Note that this data comes from Table T-5 of the respective year beginning 2018. For years prior to 2018, data was calculated based on those data sets. The sum of the component percentages and the PPD equal 100.

Pacific Northwest Order: Protein

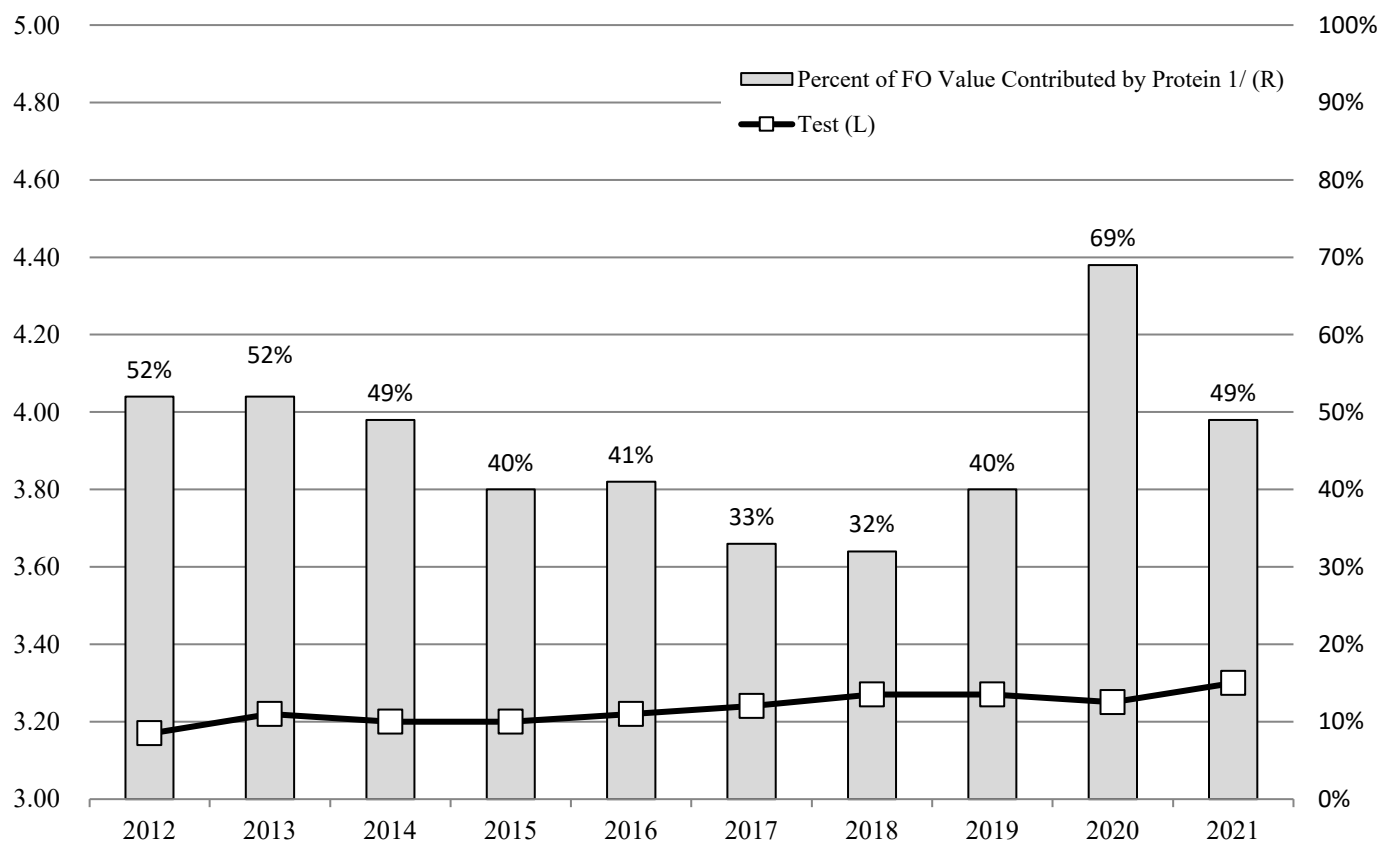


Table T-7c
Long Term Trends in Component Tests/Values, Other Solids: 2012-2021

Pacific Northwest Order

Year	Average No. of Producers	Percent of FO Value Contributed by Other Solids 1/	Test	Standard Deviation	Minimum	Maximum
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
2021	357	12%	5.77	0.09	5.26	5.97
10 Year Simple Average	476	8%	5.74	0.09	5.06	5.95

1/ Note that this data comes from Table T-5 of the respective year beginning 2018. For years prior to 2018, data was calculated based on those data sets. The sum of the component percentages and the PPD equal 100.

Pacific Northwest Order: Other Solids

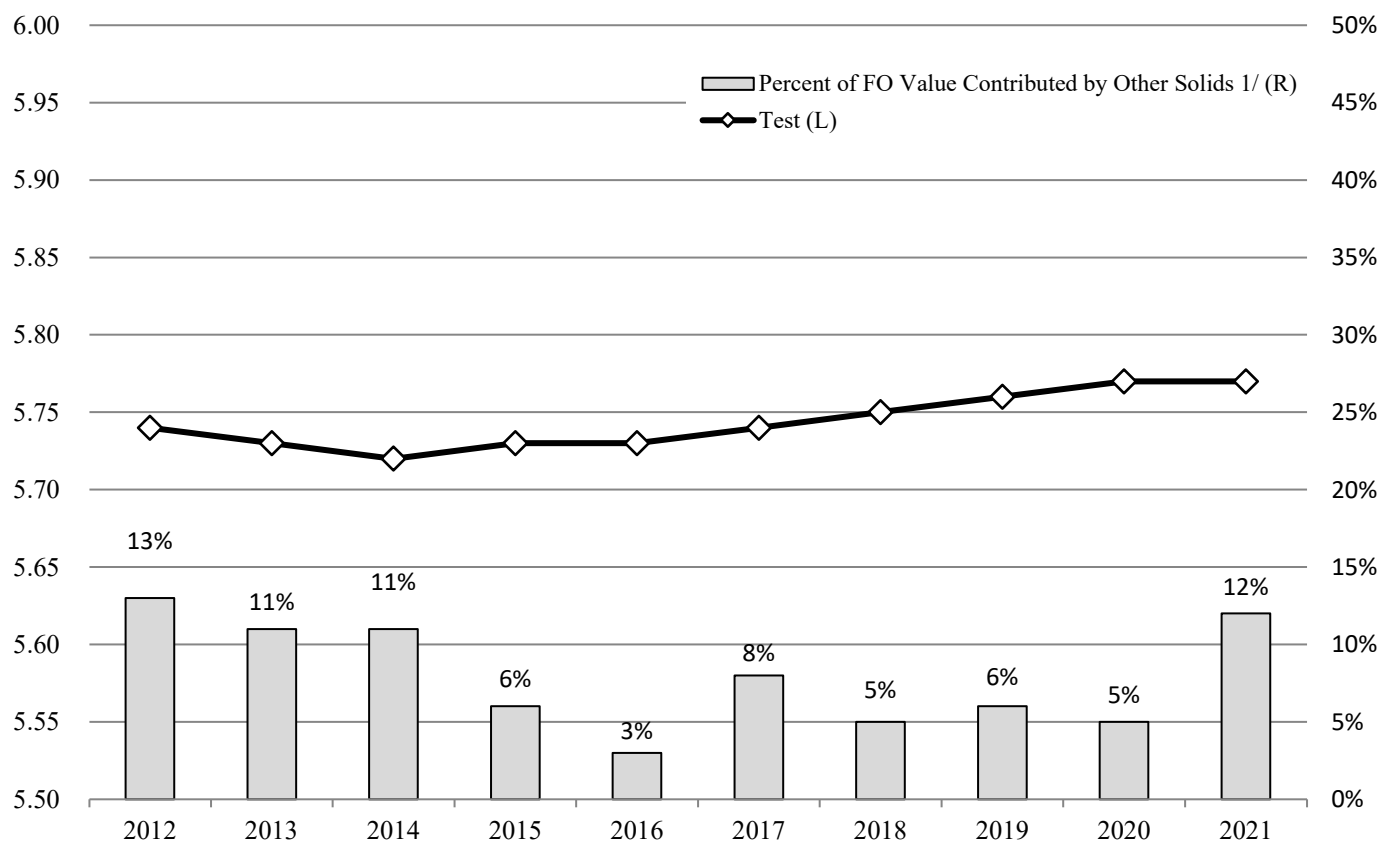


Table T-8
Number of Producers, Producer Milk, Component Tests and Standard Deviations: 2021

Arizona Order				
Month	No. of Producers	Producer Milk	Butterfat	
			Test	Standard Deviation
January	63	352,146,536	3.78	0.37
February	64	318,697,623	3.77	0.32
March	64	357,075,449	3.73	0.32
April	62	351,595,290	3.67	0.31
May	59	356,770,539	3.67	0.29
June	64	390,069,153	3.75	0.27
July	67	397,061,406	3.74	0.28
August	65	379,288,445	3.74	0.27
September	64	362,580,116	3.76	0.30
October	63	367,408,911	3.84	0.32
November	65	401,806,881	3.88	0.33
December	66	426,810,766	3.91	0.38
Average/Total	64	4,461,311,115	3.77	0.32

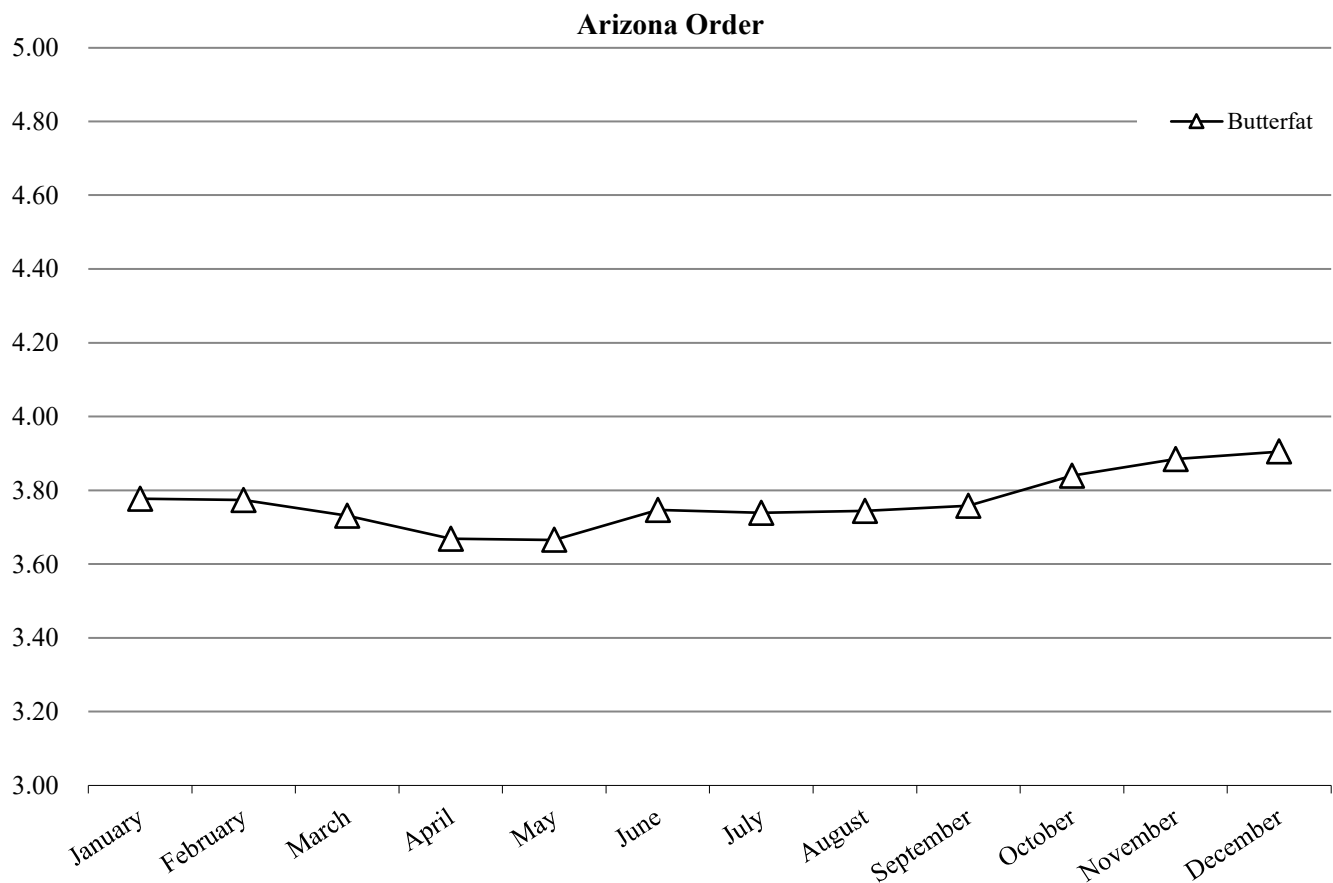
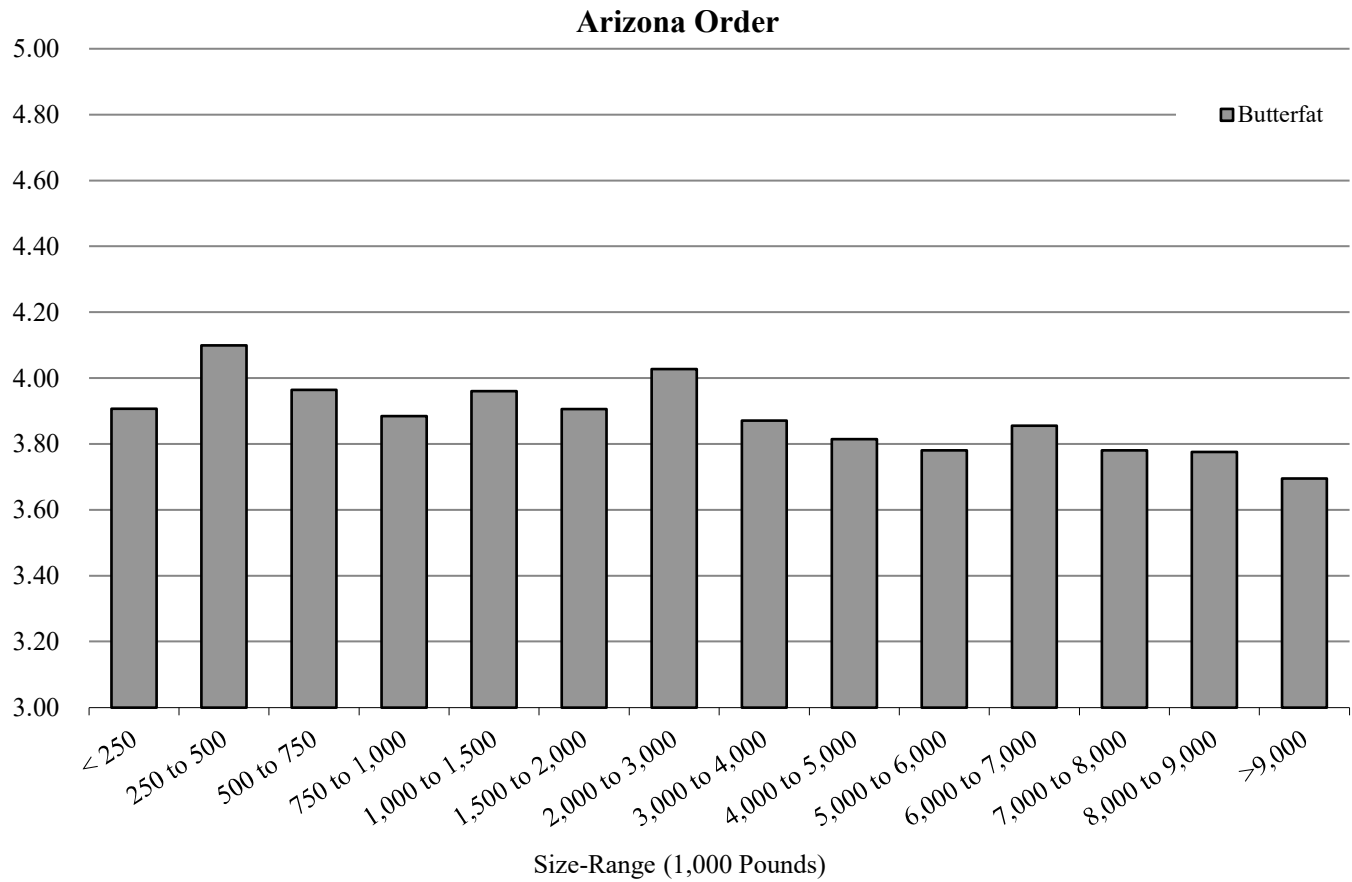


Table T-9
Component Tests by Size-Range of Producer Milk Deliveries: 2021

Size-Range (Pounds)		No. of Observations	Butterfat
Equal to or more than	Less than		
0	250,000	42	3.91
250,000	500,000	26	4.10
500,000	750,000	13	3.96
750,000	1,000,000	29	3.88
1,000,000	1,500,000	41	3.96
1,500,000	2,000,000	40	3.91
2,000,000	3,000,000	57	4.03
3,000,000	4,000,000	66	3.87
4,000,000	5,000,000	95	3.81
5,000,000	6,000,000	83	3.78
6,000,000	7,000,000	68	3.86
7,000,000	8,000,000	49	3.78
8,000,000	9,000,000	37	3.78
9,000,000		120	3.70
Total/Average		766	3.77



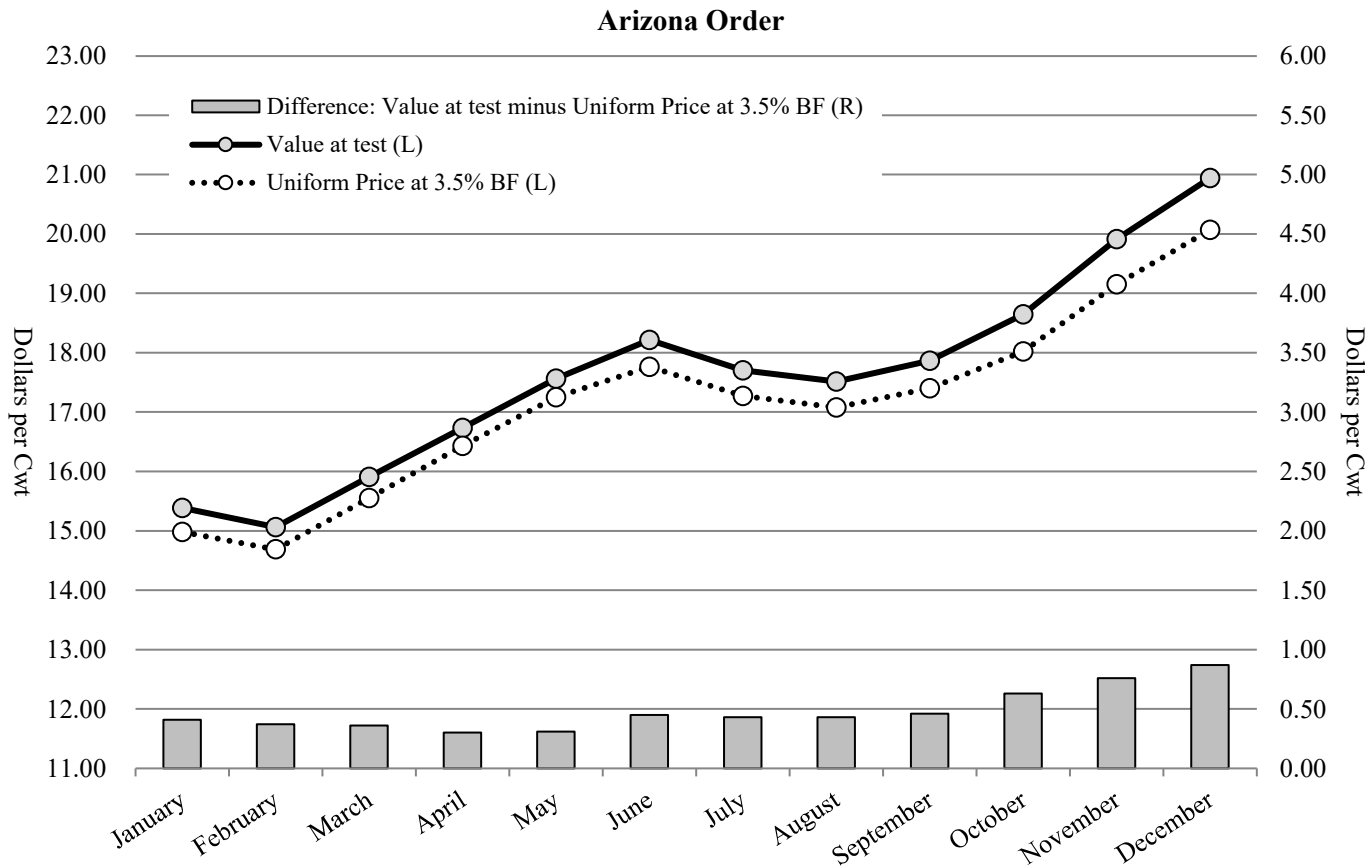
**Table T-10
 Producer Prices and Component Tests by Month: 2021**

Arizona Order

Month	A	B	Difference (B - A)	Butterfat 1/		Skim 1/	
	Uniform Price at 3.5% BF	Value at test *		- \$ / Lb -	- % -	- \$ / Cwt -	- % -
January	14.98	15.39	0.41	1.5614	3.78	9.86	96.22
February	14.69	15.06	0.37	1.4698	3.77	9.89	96.23
March	15.55	15.91	0.36	1.6682	3.73	10.06	96.27
April	16.43	16.73	0.30	1.9030	3.67	10.12	96.33
May	17.25	17.56	0.31	1.9898	3.67	10.66	96.33
June	17.76	18.21	0.45	1.9711	3.75	11.25	96.25
July	17.27	17.70	0.43	1.9157	3.74	10.95	96.26
August	17.08	17.51	0.43	1.8675	3.74	10.93	96.26
September	17.40	17.86	0.46	1.9291	3.76	11.03	96.24
October	18.02	18.65	0.63	1.9489	3.84	11.61	96.16
November	19.15	19.91	0.76	2.1175	3.88	12.16	96.12
December	20.07	20.94	0.87	2.2669	3.91	12.58	96.09
Wtd. Average	17.24	17.73	0.49	1.8991	3.77	10.98	96.23
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: 2021**

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	4,589,710	0.10%	42	5.48%	804,992.93	17.54
250,000	500,000	9,319,120	0.21%	26	3.39%	1,613,587.25	17.31
500,000	750,000	8,208,460	0.18%	13	1.70%	1,394,108.16	16.98
750,000	1,000,000	25,424,357	0.57%	29	3.79%	4,431,354.74	17.43
1,000,000	1,500,000	50,533,829	1.13%	41	5.35%	8,886,499.47	17.59
1,500,000	2,000,000	71,174,344	1.60%	40	5.22%	12,920,748.19	18.15
2,000,000	3,000,000	146,015,688	3.27%	57	7.44%	26,703,687.88	18.29
3,000,000	4,000,000	230,603,210	5.17%	66	8.62%	41,291,299.39	17.91
4,000,000	5,000,000	423,296,358	9.49%	95	12.40%	75,704,135.68	17.88
5,000,000	6,000,000	456,369,420	10.23%	83	10.84%	80,440,338.53	17.63
6,000,000	7,000,000	437,655,983	9.81%	68	8.88%	78,225,709.48	17.87
7,000,000	8,000,000	365,616,038	8.20%	49	6.40%	65,353,426.14	17.87
8,000,000	9,000,000	312,219,785	7.00%	37	4.83%	56,239,451.31	18.01
9,000,000		1,920,284,813	43.04%	120	15.67%	336,906,933.43	17.54
Total/Average		4,461,311,115	100.00%	766	100.00%	790,916,272.58	17.73

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

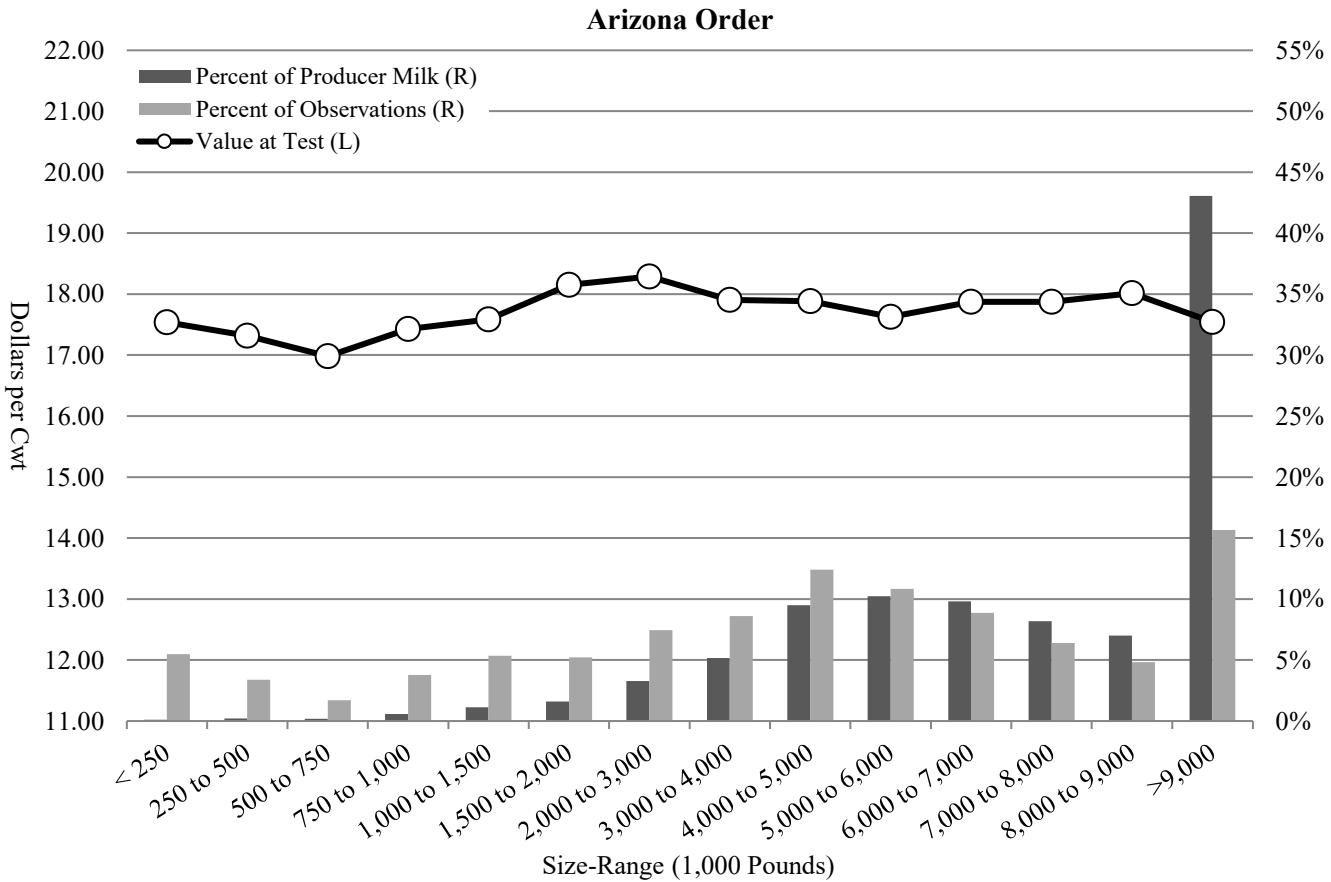


Table T-12
Long Term Trends in Component Tests/Values, Butterfat: 2012-2021

Arizona Order

Year	Average No. of Producers	Percent of FO Value Contributed by Butterfat 1/	Test	Standard Deviation	Minimum	Maximum
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
2021	64	40%	3.77	0.32	3.25	5.45
10 Year Simple Average	85	46%	3.61	0.32	2.88	5.18

1/ Note that this data comes from Table T-10 of the respective year beginning 2018. For years prior to 2018, data was calculated based on those data sets.

Arizona Order: Butterfat

