

AgSource Breed Averages, Revised April 1, 2008

Breed Name Herd Count	Ayrshire			Brown Swiss			Guernsey			Holstein			Jersey			Milking Shorthorn			Crossbred			
	27			103			56			4437			195			21			101			
	80th Percentile	Average	20th Percentile	80th Percentile	Average	20th Percentile	80th Percentile	Average	20th Percentile	80th Percentile	Average	20th Percentile	80th Percentile	Average	20th Percentile	80th Percentile	Average	20th Percentile	80th Percentile	Average	20th Percentile	
Populations																						
Cows/Herd	41	23.6	5	54	39.7	10	51	42.2	19	128	125.9	44	63	60.2	11	54	38.2	10	69	57.9	20	
Production																						
RHA Milk	19029	16079	13023	21729	18565	15149	18762	15915	12678	24523	21364	18219	17830	15186	12412	19270	16674	13218	20893	17121	13856	
RHA Fat	757	633	522	885	761	625	845	707	563	921	810	697	847	713	590	829	676	561	830	688	530	
RHA Protein	604	514	412	750	625	505	620	528	418	751	654	562	636	541	449	668	532	440	662	548	426	
RHA Cheese Yield	2026	1711	1397	2444	2063	1684	2116	1796	1427	2471	2166	1870	2150	1839	1535	2162	1761	1496	2170	1827	1423	
RHA Fat %	4.1	4.0	3.8	4.3	4.1	3.9	4.7	4.5	4.2	4.0	3.8	3.6	5.0	4.7	4.4	4.5	4.0	3.6	4.3	4.1	3.8	
RHA Protein %	3.3	3.2	3.1	3.5	3.4	3.3	3.4	3.3	3.3	3.1	3.1	3.0	3.7	3.6	3.5	3.3	3.2	3.1	3.3	3.2	3.1	
Daily Milk	60.0	50.8	43.8	66.6	56.9	47.1	58.8	47.8	39.7	78.1	67.5	57.0	56.3	47.3	37.6	61.8	51.5	42.2	66.3	53.5	41.5	
Management Level Milk (MLM)	59	53.9	46	76	64.8	53	68	56.9	46	82	71.9	62	65	55.3	45	65	56.1	44	71	58.8	49	
% Days In Milk	88	82.8	76	90	86.3	83	90	87.3	85	89	86.8	85	90	85.6	82	88	84.6	79	89	85.0	83	
Completed Lactation DIM	321	304.5	280	330	316.8	304	332	320.5	314	328	318.8	311	329	314.4	302	321	310.4	290	327	311.8	303	
1st Lactation Peak Milk	65	61.4	53	73	64.1	54	72	60.5	48	83	74.1	65	62	54.3	45	67	58.9	48	72	61.9	52	
2nd Lactation Peak Milk	86	76.0	69	93	81.5	69	85	72.7	62	104	92.5	80	74	64.9	54	92	76.6	67	92	76.6	64	
Later Lactation Peak Milk	92	77.6	70	96	86.0	73	87	74.6	62	110	97.2	85	80	69.0	59	95	78.0	63	92	80.8	70	
% Last Milk	109	94	82	103	96	89	101	95	90	101	96	91	104	94	87	104	93	89	100	92	88	
1st Lactation ME Milk	19843	17581	14291	24650	21450	17755	21452	17630	14011	27127	23854	20590	19565	16714	13857	21153	18354	14500	23446	19242	15579	
1st Lactation ME Fat	780	672	541	1005	865	703	909	757	612	1029	908	785	914	770	632	928	751	466	923	773	636	
1st Lactation ME Protein	650	551	473	834	708	559	669	557	463	810	710	614	678	584	492	742	581	435	718	599	488	
2nd Lactation ME Milk	19825	17635	15821	24683	21011	17857	19951	17301	14375	26606	23288	19880	19568	16289	13327	23180	18654	13153	22640	18979	15800	
2nd Lactation ME Fat	766	673	591	982	856	688	938	756	622	996	881	760	906	752	607	968	761	484	909	754	614	
2nd Lactation ME Protein	636	562	479	800	695	584	646	562	467	794	696	600	692	579	473	711	580	450	723	593	498	
Later Lactation ME Milk	19557	16851	14419	23083	20158	16574	20441	17098	14183	25722	22600	19476	18486	15879	13043	20850	17658	14361	21654	18391	15038	
Later Lactation ME Fat	771	647	553	929	821	668	897	750	624	974	862	748	873	742	602	833	728	530	873	741	614	
Later Lactation ME Protein	595	524	421	751	662	544	662	559	463	764	674	583	660	566	471	632	556	445	666	576	481	
1st Lactation Peak Milk	62.5	42.6	45.2	68.3	42.4	48.4	64.8	39.2	46.0	77.3	62.1	58.0	59.5	38.8	43.0	57.3	29.4	44.1	66.7	41.4	47.0	
2nd Lactation Peak Milk	61.5	49.4	40.7	65.3	54.2	43.0	60.0	49.1	37.7	76.5	65.5	54.7	53.7	44.8	35.0	64.0	50.8	40.0	64.8	51.1	37.0	
Later Lactation Peak Milk	48.3	39.8	21.0	57.0	48.0	37.5	50.3	38.2	27.5	65.0	54.3	43.6	48.3	37.8	27.3	45.8	40.1	36.0	52.9	42.2	30.0	
1st Lact 1-100 Days Milk	94.0	51.8	61.0	85.3	54.4	62.7	79.8	51.1	51.3	99.5	80.7	73.1	72.3	46.3	51.0	74.3	35.1	48.9	90.0	49.5	55.5	
1st Lact 101-240 Days Milk	59.3	51.7	38.5	71.4	59.8	47.6	64.0	50.0	38.0	84.6	71.6	58.8	60.0	48.1	35.3	73.0	54.9	35.0	68.0	54.8	42.0	
1st Lact 241+ Days Milk	42.0	32.7	21.0	52.0	44.9	34.7	48.5	37.9	28.0	64.0	52.9	41.5	50.0	38.7	28.0	51.0	39.1	26.0	52.0	42.2	30.0	
2nd Lact 1-100 Days Milk	74.0	48.9	47.0	90.0	58.7	65.0	80.0	60.3	58.0	103.6	87.8	78.9	71.0	51.3	50.0	95.3	61.2	52.7	88.9	62.5	62.5	
2nd Lact 101-240 Days Milk	67.5	51.8	34.8	73.8	61.9	46.5	68.3	53.8	40.5	87.2	74.4	61.3	62.0	49.8	39.0	68.7	52.8	38.8	71.5	57.4	44.4	
2nd Lact 241+ Days Milk	35.0	31.0	18.0	58.7	45.8	33.0	45.6	36.1	26.8	63.0	52.3	40.9	46.8	37.9	26.8	53.0	40.0	26.0	50.9	42.1	31.4	
Later Lact 1-100 Days Milk	82.5	51.4	60.0	92.0	64.1	64.7	81.0	64.3	55.0	102.0	85.9	76.0	73.3	54.4	51.3	94.7	58.1	53.7	89.3	69.5	61.4	
Later Lact 101-240 Days Milk	76.0	60.3	43.0	82.8	70.5	56.5	71.9	61.5	50.0	92.6	79.6	66.8	66.0	56.1	44.6	71.4	58.3	45.5	80.8	67.6	54.9	
Later Lact 241+ Days Milk	37.0	31.9	24.4	61.0	50.6	37.7	50.8	41.7	31.3	65.5	54.8	43.5	46.8	38.8	29.1	49.3	39.7	31.0	54.0	44.8	36.8	
% Last Milk	101	93	87	103	94	88	102	95	85	100	95	89	102	93	88	110	99	87	102	96	88	
Genetics (Net Merit Values Adjusted for Unidentified Sires*)																						
Service Sires Net Merit \$	187	135	91	249	163	86	185	107	26	328	235	132	330	214	72	262	132	21	287	191	82	
Heifer Sires Net Merit \$	159	114	69	162	120	81	149	87	30	265	184	93	245	151	51	138	78	17	211	139	65	
1st Lact Sires Net Merit \$	141	81	41	147	95	48	143	69	5	225	151	65	233	132	46	125	75	29	176	114	56	
2nd Lact Sires Net Merit \$	157	110	67	120	75	28	110	60	7	192	129	65	200	97	26	119	88	34	141	92	47	
Later Lact Sires Net Merit \$	193	113	47	122	74	26	109	66	11	148	103	65	132	66	14	82	52	23	101	65	43	
All Cows Sire Net Merit \$	141	98	63	119	79	35	114	64	20	184	127	65	180	97	40	77	67	31	116	89	51	
Service Sires Cheese Merit \$	188	142	97	263	168	85	189	110	26	326	235	138	360	230	80	247	135	21	291	197	85	
Heifer Sires Cheese Merit \$	158	119	76	172	125	81	142	85	27	264	185	96	263	163	57	135	80	18	234	146	70	
1st Lact Sires Cheese Merit \$	154	88	43	151	99	46	137	65	7	225	153	70	246	139	49	120	75	30	189	118	56	
2nd Lact Sires Cheese Merit \$	162	116	74	133	78	28	106	56	2	194	132	70	211	104	29	115	87	34	141	95	48	
Later Lact Sires Cheese Merit \$	189	117	47	126	76	27	108	65	9	150	106	70	135	71	18	78	51	18	103	67	49	
All Cows Sire Cheese Merit \$	153	104	65	123	82	35	112	61	17	185	129	70	188	104	38	83	67	30	119	92	57	
1st Lact Sires - Identified %	100	70.5	50	100	82.9	67	100	77.9	54	100	65.8	11	100	73.7	50	100	57.6	0	92	50.2	0	
2nd & >Lact Sires - Identified %	100	72.7	58	100	88.3	83	100	80.5	67	100	64.4	15	100	74.7	50	100	57.6	0	91	49.6	5	
Yearly Herd Turnover																						
% Total Herd That Left/Died	16.0	32.5	46.7	19.0	34.8	50.0	24.0	36.1	48.8	25.8	35.5	43.5	18.2	35.2	48.6	14.3	27.9	42.2	16.3	31.8	41.5	
% 1st Lact Cows That Left/Died	5.6	12.0	17.4	5.8	9.4	18.2	5.9	12.0	20.0	4.2	8.5	12.3	4.1	8.9	16.7	4.5	7.6	15.0	3.5	7.6	14.4	
% 2nd & >Lact Cows Left/Died	14.3	20.5	33.3	16.7	25.4	37.5	20.0	24.1	33.3	20.0	27.0	33.6	16.7	26.3	38.1	16.7	20.3	29.1	15.3	24.2	37.1	

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	27			103			56			4437			195			21			101		
	80th	Average	20th	80th	Average	20th	80th	Average	20th	80th	Average	20th	80th	Average	20th	80th	Average	20th	80th	Average	20th
	Percentile	Average	Percentile	Percentile	Average	Percentile	Percentile	Average	Percentile	Percentile	Average	Percentile	Percentile	Average	Percentile	Percentile	Average	Percentile	Percentile	Average	Percentile
Of Cows That Left...																					
% Sold for Dairy	40.0	12.0	0.0	25.0	13.5	0.0	10.4	6.7	0.0	14.2	9.2	0.0	37.5	17.2	0.0	50.0	16.1	0.0	40.0	17.0	0.0
% Low Production	20.0	7.4	0.0	10.0	4.8	0.0	16.7	9.5	0.0	11.6	6.8	0.0	12.5	8.0	0.0	24.0	8.9	0.0	11.1	5.5	0.0
% Reproductive Problem	0.0	17.4	33.3	0.0	18.3	36.2	0.0	15.0	28.6	3.0	15.8	25.9	0.0	10.5	20.7	0.0	17.7	33.3	0.0	13.2	25.9
% Injury/Sick/Other	0.0	17.5	40.0	0.0	22.0	46.7	0.0	25.9	50.0	12.5	31.1	49.2	0.0	26.2	50.0	0.0	9.4	21.1	0.0	22.4	41.2
% Mastitis	0.0	7.9	20.7	0.0	8.8	16.0	0.0	11.2	20.8	0.0	13.0	22.9	0.0	10.5	21.4	0.0	12.2	33.3	0.0	13.1	25.0
% Died	0.0	20.0	36.4	0.0	18.1	33.3	10.0	25.9	43.9	5.3	17.0	27.0	0.0	19.2	35.0	0.0	18.0	50.0	0.0	16.5	28.6
% Feet/Legs	0.0	5.3	9.1	0.0	7.6	15.4	0.0	3.7	9.1	0.0	5.0	9.7	0.0	1.6	0.0	0.0	6.3	2.7	0.0	3.1	5.5
% Disposition Problem	0.0	1.5	1.0	0.0	0.5	1.0	0.0	0.3	1.0	0.0	0.8	1.0	0.0	0.8	1.0	0.0	1.9	1.0	0.0	1.1	1.0
Reproductive Analysis																					
Herd Average Days In Milk	152	185.7	213	168	200.3	241	188	216.9	248	169	195.7	218	152	184.8	214	156	176.5	202	160	193.0	229
Cows																					
Days To First Bred	83	108.5	134	81	110.8	143	78	99.2	112	77	104.0	128	73	92.7	111	74	93.6	118	82	102.1	122
Services Per Conception	1.0	1.6	2.1	1.1	1.9	2.5	1.7	2.3	2.9	1.2	2.0	2.5	1.1	1.8	2.3	1.1	1.6	1.7	1.0	1.7	2.1
Calving Interval	13.1	14.2	14.9	13.7	14.8	15.9	13.4	14.5	15.6	13.4	14.3	15.0	12.7	13.6	14.3	12.5	13.6	14.4	12.9	14.0	14.9
Average Days Open	109	138.8	171	132	162.0	185	121	156.3	195	130	155.7	177	107	133.8	150	92	127.4	153	110	145.8	176
Heifers																					
Services Per Conception	1.0	1.5	2.3	1.0	1.5	2.0	1.1	1.9	2.5	1.0	1.5	1.8	1.0	1.5	1.8	1.2	1.7	2.0	1.0	1.5	1.9
Calving Age Months	26	29.1	32	25	27.6	29	25	27.3	29	24	26.4	28	24	25.8	27	25	27.0	29	24	26.6	28
% <23 Months Old at First Calving	0	2.4	0	0	2.5	0	0	6.6	13	0	6.8	12	0	14.3	31	0	7.8	11	0	9.8	17
% >25 Months Old at First Calving	50	74.4	100	33	61.2	100	25	53.4	90	17	46.5	78	6	38.7	67	30	54.6	92	6	45.8	88
Dry Period																					
Average Days Dry	63	79.3	85	55	74.2	81	51	64.1	73	53	63.2	71	53	67.8	78	58	73.9	82	54	69.0	80
% Dry Periods <30 Days	0	4.4	8	0	6.9	13	0	7.6	9	0	7.9	13	0	5.9	11	0	8.0	14	0	6.2	10
% 0-39 Days	0	12.2	21	0	13.8	24	3	16.6	28	4	16.2	27	0	14.5	25	0	13.6	20	2	15.4	25
% 71+ Days	23	38.8	55	13	29.7	47	8	25.2	39	12	24.8	36	8	26.0	42	12	37.2	56	15	31.9	44
% Dry Periods 70-90 Days	0	17.4	26	0	13.6	24	0	10.8	19	5	12.5	19	0	12.5	20	0	19.6	33	0	12.4	20
% Dry Periods >90 Days	0	21.4	35	0	15.1	25	0	11.8	21	3	12.0	19	0	11.8	20	0	19.7	34	2	19.4	28
Udder Health																					
Weighted Average SCC	269	225	345	160	275	392	190	306	400	184	298	379	182	284	364	257	304	453	194	334	424
Bulk Tank Weighted Average SCC	269	225	344	163	274	383	188	299	411	182	294	377	180	280	360	214	290	446	195	324	426
1st Lact Weighted Average SCC	144	148	309	99	194	229	150	252	473	122	213	275	151	232	299	151	219	271	137	299	431
2nd & >Lact Wtd. Average SCC	306	289	446	174	330	449	218	332	403	205	342	441	194	314	416	289	344	499	227	358	503
% of Herd ≥ 200,000 SCC	31	28.0	46	18	28.2	36	23	31.5	36	19	28.3	36	20	31.0	40	29	32.1	60	23	31.2	39
% New Infections	15	13.5	21	9	14.7	18	10	15.5	22	10	14.4	18	11	16.5	21	14	15.4	25	11	16.0	20
% Heifers Infected at First Test	13	20.0	33	0	21.2	30	13	34.4	57	9	24.7	38	0	29.7	48	10	27.6	46	0	23.4	40
% Cows New Infect. While Dry	0	9.7	0	6	23.2	29	10	27.1	40	9	22.1	33	7	20.8	36	13	15.2	29	0	23.0	40
% Dry Cows Cured	75	75.8	46	75	74.0	49	67	57.5	45	76	60.8	44	71	55.9	36	83	65.5	51	78	63.1	39
Linear Score	3.1	2.9	3.6	2.5	3.0	3.4	2.5	3.1	3.5	2.5	3.0	3.4	2.7	3.2	3.7	2.7	3.2	4.2	2.8	3.2	3.6
1st Lact Linear Score	2.7	2.7	2.8	2.1	2.6	2.9	2.2	2.9	3.6	2.1	2.6	3.1	2.6	3.1	3.5	2.6	2.8	3.6	2.3	2.9	3.4
2nd & >Lact Linear Score	3.4	3.3	4.1	2.8	3.4	3.8	2.8	3.3	3.6	2.6	3.2	3.7	2.7	3.3	3.8	2.9	3.4	4.4	2.8	3.3	3.7
% of herd < 100,000 SCC	50	54.3	39	65	53.8	45	62	52.5	42	66	55.0	46	62	48.5	38	62	50.0	28	60	51.2	43
% of herd 100,000-199,000 SCC	18	11.8	13	20	15.3	15	20	15.5	15	19	16.0	13	22	17.5	16	20	14.8	16	20	15.3	13
% of herd 200,000-399,000 SCC	15	8.1	19	9	8.8	15	8	11.0	16	8	10.9	14	10	11.3	17	10	10.7	18	9	10.4	14
% of herd 400,000-799,000 SCC	8	8.2	15	5	7.4	10	6	8.1	11	5	7.6	10	5	9.0	11	5	8.5	13	6	8.1	11
% Herd ≥ 800,000 SCC	8	7.0	12	3	7.9	13	5	9.0	12	5	9.1	12	5	8.4	12	8	9.2	14	5	10.5	14
Transition Cow Management																					
Transition Cow Index	751	-176	-1170	819	-104	-1028	757	-58	-702	608	-113	-823	440	-150	-791	870	-255	-1661	682	-287	-944
% 1st Lact Fat/Protein Ratio > 1.4	0	43.9	67	0	35.5	47	25	50.8	67	25	47.1	67	16	46.4	64	0	55.8	92	15	47.3	65
% 2nd & >Lact Fat/Protein Ratio > 1.4	14	39.6	46	17	37.6	50	19	37.0	50	26	42.4	56	17	37.6	50	22	47.4	75	17	37.6	50
% Cows Leaving the Herd <60 DIM	5	5.3	11	4	5.5	11	5	8.4	13	3	6.5	10	3	6.2	12	3	4.6	14	3	4.7	10
Management MUN Values **	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg/Dl	>14 Mg/Dl
All Herds %	49.5	18.0	32.5	28.3	71.8	33.0	45.3	21.7	21.3	48.3	30.5	12.6	43.0	44.5	52.0	48.0	15.0	38.9	46.1	46.1	
1st Lactation %	52.0	21.0	27.0	33.5	66.5	34.7	47.3	18.0	20.3	49.8	30.0	11.8	39.5	48.7	58.0	42.0	17.4	41.1	41.6	41.6	
2nd & >Lactation %	48.0	15.0	37.0	27.0	73.0	48.0	15.0	37.0	21.9	47.4	30.7	13.0	43.6	43.3	47.0	53.0	12.4	38.3	49.3	49.3	
Average MUN Values ***																					
All Herds		9.8			15.9			10.6			12.6			14.0			14.7			15.2	
1st Lactation		9.7			16.2			10.6			12.6			14.4			14.0			14.7	
2nd & >Lactation		10.0			15.6			10.0			12.5			13.9			15.2			15.5	

* Animals without their sire identified in the AgSource database will automatically have AIPL's "Non A.I. Bulls Born In the Last Eight Years" PTA assigned to their sire.

** "Management MUN Values" are only calculated for Holsteins, Jerseys and Brown Swiss.

*** "Average MUN Values" are unadjusted raw Milk Urea Nitrogen values.