

AgSource Holstein Averages By Production Level, Revised April 1, 2008

Production Level (RHA Milk) Herd Count	< 17,000			17-21,000			21-25,000			25-30,000			> 30,000		
	574			1,418			1,715			666			53		
	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
Population															
Cows/Herd	70	60.3	32	94	77.6	42	132	121.2	49	400	283.8	65	430	265.7	57
Production															
RHA Milk	16426	14842	13418	20359	19264	18132	24007	22860	21734	27728	26709	25558	32164	31528	30357
RHA Fat	649	587	531	785	743	686	907	861	804	1037	982	922	1203	1155	1081
RHA Protein	511	461	416	628	593	558	735	699	664	847	812	775	985	954	910
RHA Cheese Yield	1702	1541	1393	2082	1970	1857	2426	2311	2192	2790	2667	2538	3247	3136	2962
RHA Fat %	4.2	4.0	3.7	4.0	3.9	3.6	3.9	3.8	3.6	3.8	3.7	3.5	3.8	3.7	3.5
RHA Protein %	3.2	3.1	3.0	3.2	3.1	3.0	3.1	3.1	3.0	3.1	3.1	3.0	3.1	3.0	3.0
Daily Milk	54.9	48.2	41.1	67.2	61.3	55.7	77.2	72.0	66.7	88.4	83.3	78.2	102.3	94.9	88.8
Management Level Milk (MLM)	61	53.6	46	71	66.0	60	81	76.1	71	92	86.7	81	105	99.2	94
% Days In Milk	89	84.5	81	89	86.4	84	89	87.3	85	90	88.1	86	92	91.4	87
Completed Lactation DIM	326	310.3	298	327	317.3	308	328	320.5	313	329	323.4	317	339	335.2	321
1st Lactation Peak Milk	64	57.9	52	74	68.8	64	82	77.9	73	92	87.2	83	104	97.3	93
2nd Lactation Peak Milk	78	69.5	62	91	85.2	79	103	97.9	92	117	110.9	105	129	123.2	118
Later Lactation Peak Milk	81	73.5	66	95	89.6	83	109	103.0	97	122	116.1	110	138	130.6	125
% Last Milk	102	95	88	101	96	90	101	96	92	101	97	93	104	99	94
1st Lactation ME Milk	19690	17619	15734	23362	21822	20187	26824	25287	23670	30629	29011	27386	34661	32768	31282
1st Lactation ME Fat	780	690	603	907	840	764	1020	959	885	1146	1078	1002	1319	1213	1142
1st Lactation ME Protein	595	525	465	701	650	599	801	752	701	912	860	813	1015	965	912
2nd Lactation ME Milk	18779	16797	15014	22710	21189	19641	26174	24763	23278	30362	28692	27092	34625	32366	31200
2nd Lactation ME Fat	751	663	579	882	819	742	987	930	858	1122	1048	967	1270	1177	1110
2nd Lactation ME Protein	566	504	450	684	636	589	782	739	694	904	854	803	1018	959	914
Later Lactation ME Milk	18364	16563	14657	22027	20627	19209	25372	24045	22664	28983	27505	25971	33243	31259	30083
Later Lactation ME Fat	738	659	582	861	802	730	968	910	838	1086	1015	935	1232	1155	1086
Later Lactation ME Protein	556	497	446	660	617	575	755	715	676	860	816	768	983	924	884
1st Lact 1-100 Days Milk	61.0	43.6	44.3	70.3	55.7	55.7	78.0	67.3	64.0	84.4	76.2	71.6	93.9	84.4	78.0
1st Lact 101-240 Days Milk	54.5	46.4	38.0	65.5	59.1	52.3	75.5	69.4	63.0	87.6	81.1	74.4	98.4	92.1	86.8
1st Lact 241+ Days Milk	44.0	36.7	29.3	55.0	48.3	41.7	64.0	57.8	51.7	75.5	69.2	62.9	89.4	81.4	76.0
2nd Lact 1-100 Days Milk	75.5	54.1	52.5	89.3	74.2	69.9	99.4	86.4	82.0	110.3	100.1	94.1	122.8	108.6	103.8
2nd Lact 101-240 Days Milk	59.3	50.8	41.6	72.4	64.6	56.5	83.8	75.9	68.4	96.5	89.1	82.0	111.0	103.0	96.8
2nd Lact 241+ Days Milk	45.4	37.4	30.0	55.0	47.3	39.5	63.7	55.8	47.6	74.3	66.6	59.0	88.2	80.0	72.0
Later Lact 1-100 Days Milk	78.8	61.6	57.0	92.3	81.1	74.7	104.0	94.3	86.6	114.4	105.0	97.4	129.5	116.7	112.4
Later Lact 101-240 Days Milk	62.3	52.7	43.8	74.4	66.8	58.9	86.5	79.4	71.8	100.2	92.9	85.7	114.6	106.7	101.8
Later Lact 241+ Days Milk	44.0	36.6	28.8	54.2	46.6	38.8	63.3	55.7	47.4	74.7	66.6	58.5	86.3	80.1	71.7

Production Level (RHA Milk)	< 17,000			17-21,000			21-25,000			25-30,000			> 30,000		
Herd Count	574			1,418			1,715			666			53		
	80th	Average	20th	80th	Average	20th	80th	Average	20th	80th	Average	20th	80th	Average	20th
	Percentile		Percentile	Percentile		Percentile	Percentile		Percentile	Percentile		Percentile	Percentile		Percentile
Genetics (Net Merit Values Adjusted for Unidentified Sires*)															
Service Sires Net Merit \$	271	176	65	314	215	90	330	245	160	353	273	199	362	288	210
Heifer Sires Net Merit \$	195	128	65	239	161	74	270	195	112	305	230	155	326	254	195
1st Lact Sires Net Merit \$	148	102	65	201	132	65	237	164	81	255	191	121	272	202	131
2nd Lact Sires Net Merit \$	128	89	65	167	113	65	202	142	69	220	164	101	210	166	106
Later Lact Sires Net Merit \$	97	72	59	130	92	65	158	111	65	170	129	84	194	139	97
All Cows Sire Net Merit \$	120	90	69	159	113	70	193	140	78	212	164	105	229	174	111
Service Sires Cheese Merit \$	272	178	70	311	215	97	329	245	163	353	271	200	365	287	216
Heifer Sires Cheese Merit \$	199	131	70	237	163	78	267	196	114	303	230	156	327	254	193
1st Lact Sires Cheese Merit \$	150	106	70	202	135	70	237	166	84	257	192	120	276	205	124
2nd Lact Sires Cheese Merit \$	132	92	70	170	116	70	203	144	73	226	166	98	207	168	100
Later Lact Sires Cheese Merit \$	99	76	62	133	95	68	159	113	70	174	131	84	194	140	95
All Cows Sire Cheese Merit \$	119	86	65	158	111	65	194	138	77	211	163	106	218	173	117
1st Lact Sires Identified %	91	38.4	0	100	57.6	0	100	74.1	47	100	83.6	73	100	87.6	80
2nd > Lact Sires Identified %	87	38.6	0	97	57.4	5	100	71.8	40	100	80.0	64	100	88.4	85
Yearly Herd Turnover															
% 1st Lact Cow That Left/Died	3.4	7.6	11.8	4.0	8.3	12.8	4.3	8.8	12.2	4.7	8.6	11.3	5.3	9.2	13.3
% 2nd > Lact Cows Left/Died	16.7	25.2	32.5	19.4	26.7	33.6	20.7	27.4	33.4	21.9	28.0	33.8	20.9	29.3	37.1
% Total Herd That Left/Died	20.7	32.8	42.3	25.0	35.0	43.6	26.8	36.2	43.3	28.8	36.6	43.7	27.5	38.5	48.5
Reason for Leaving the Herd															
% Sold for Dairy	7.1	6.6	0.0	9.5	7.3	0.0	19.5	11.0	0.0	19.4	10.9	0.0	21.9	13.5	0.0
% Low Production	11.5	6.6	0.0	11.3	6.6	0.0	11.5	6.7	0.0	12.0	7.5	0.0	15.4	8.2	1.9
% Reproductive Problem	0.0	14.4	26.1	1.8	16.0	27.3	4.0	15.7	25.3	6.3	16.7	25.0	4.9	15.3	25.9
% Injury/Sick/Other	11.1	33.9	58.8	11.8	31.9	50.0	12.8	30.5	47.2	13.4	28.4	38.8	15.1	26.9	38.7
% Mastitis	0.0	10.5	21.1	0.0	12.9	23.1	1.9	13.2	22.5	4.5	14.5	23.3	6.3	14.8	22.0
% Died	0.0	20.0	33.3	5.6	17.9	28.6	4.8	15.7	25.0	6.3	16.4	25.0	4.7	13.6	21.1
% Feet/Legs	0.0	4.3	8.3	0.0	5.4	10.0	0.0	5.1	10.0	0.0	4.5	9.1	0.0	4.0	7.1
% Disposition Problem	0.0	1.4	1.0	0.0	0.8	1.0	0.0	0.7	1.0	0.0	0.5	1.0	0.0	0.5	1.0
Reproductive Analysis															
Herd Average Days In Milk	170	212.0	247	169	197.3	223	169	191.3	212	170	189.8	208	170	192.1	211
Cows															
Days To First Bred	83	121.3	151	84	109.4	134	77	100.9	122	72	92.3	110	75	103.8	128
Services Per Conception	1.0	1.7	2.2	1.1	1.9	2.3	1.4	2.0	2.5	1.8	2.3	2.8	1.7	2.2	2.7
Calving Interval	13.3	14.8	16.0	13.4	14.3	15.2	13.4	14.1	14.8	13.4	14.0	14.5	13.6	14.4	14.9
Average Days Open	127.0	171.3	203.0	132.0	160.1	184.0	129.0	151.6	171.0	130.0	148.7	165.0	138.0	160.3	186.0
Heifers															
Services Per Conception	1.0	1.4	1.7	1.0	1.4	1.8	1.0	1.5	1.8	1.1	1.6	1.9	1.3	1.6	1.9
Calving Age Months	24	27.5	30	25	26.9	29	24	26.1	28	24	25.2	26	24	25.1	27
% < 23 Months Old at First Calving	0	4.2	6	0	5.1	8	0	6.6	11	0	12.4	23	0	13.0	21
% > 25 Months Old at First Calving	13	51.8	91	20	52.2	86	19	45.3	74	12	34.5	57	9	31.4	47

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	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
Dry Period															
Average Days Dry	54	68.4	79	54	64.3	72	53	62.1	69	52	59.7	67	51	58.5	64
% < 30 Days	0	12.1	21	0	8.7	14	0	6.9	10	1	5.5	7	1	5.9	11
% 0-39 Days	7	21.1	35	4	16.9	28	4	14.9	24	4	14.1	23	3	15.7	29
% 71+ Days	18	32.6	46	14	26.8	38	11	23.1	33	9	19.0	28	8	16.1	24
% 70-90 Days	6	14.8	23	6	13.6	21	5	11.8	18	4	10.0	14	3	8.9	12
% > 90 Days	6	18.4	27	4	13.0	20	3	10.7	17	3	8.5	13	2	6.9	10
Udder Health															
Weighted Average SCC	269	407	519	211	324	418	172	265	344	161	242	303	156	246	279
Bulk Tank Weighted Av. SCC	267	401	498	211	320	411	171	262	338	156	237	293	157	241	282
1st Lact Weighted Average SCC	159	283	370	135	231	308	114	192	254	112	172	217	103	164	192
2nd & >Lact Weighted Av. SCC	299	467	586	232	368	481	191	305	402	180	281	364	171	298	372
% of Herd ≥ 200,000 SCC	27	37.9	46	22	30.0	38	18	25.8	33	17	23.7	30	15	22.5	28
% New Infections	13	19.0	23	11	15.2	19	9	13.0	16	9	12.3	15	8	11.9	14
% Heifers Infected at First Test	0	31.9	50	8	26.3	40	10	23.3	33	10	19.9	28	10	17.1	25
% Cows New Infect. While Dry	0	28.0	50	9	24.3	38	9	20.5	31	9	17.4	24	10	16.8	23
% Dry Cows Cured	67	53.4	35	73	57.6	40	76	62.4	48	80	68.4	56	81	69.8	54
Herd Linear Score	3.0	3.5	4.0	2.6	3.1	3.6	2.4	2.8	3.3	2.3	2.7	3.1	2.2	2.7	3.0
1st Lact Linear Score	2.6	3.1	3.6	2.2	2.7	3.2	2.1	2.5	2.9	1.9	2.4	2.7	2.0	2.3	2.7
2nd & >Lact Linear Score	3.2	3.8	4.2	2.8	3.3	3.8	2.5	3.0	3.5	2.4	2.9	3.4	2.3	2.9	3.3
% Herd <100,000 SCC	54	43.8	34	62	52.8	43	67	58.1	49	70	60.8	54	71	62.0	54
% Herd 100,000 - 199,000 SCC	21	17.3	15	19	16.5	14	18	15.6	13	17	15.1	13	16	14.5	12
% Herd 200,000 - 399,000 SCC	11	13.4	17	9	11.3	14	8	10.2	13	7	9.7	12	7	9.2	11
% Herd 400,000 - 800,000 SCC	7	10.2	13	5	8.0	10	5	6.9	9	4	6.5	8	4	6.5	8
% Herd ≥ 800,000 SCC	8	13.0	17	6	9.9	13	4	7.9	11	4	7.2	10	4	7.0	9
Transition Cow Management															
Transition Cow Index	-145	-861	-1612	294	-341	-954	712	104	-527	1010	350	-336	1699	1011	296
% 1st Lact Fat/Protein Ratio > 1.4	17	47.8	69	25	47.1	67	29	47.8	67	30	45.0	60	31	46.4	61
% 2nd & >Lact Fat/Protein Ratio > 1.4	25	44.6	64	26	43.8	60	27	42.4	55	26	37.9	48	23	36.0	46
% Cows Leaving the Herd < 60 DIM	3	5.7	10	3	6.4	11	4	6.7	11	4	7.0	10	4	5.6	8
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
All Herds %	28.9	41.9	29.3	22.8	50.1	27.1	18.1	48.5	33.4	21.2	47.5	31.4	26.8	45.5	27.8
1st Lactation %	27.1	46.3	26.6	23.4	50.4	26.3	16.8	49.7	33.5	18.8	49.4	31.7	21.5	56.5	22.3
2nd & >Lactation %	29.4	40.3	30.3	22.9	49.5	27.7	18.7	48.2	33.1	23.1	45.3	31.6	27.0	43.5	29.3
Average MUN Values**															
All Herds		12.3			12.2			12.9			12.7			12.1	
1st Lactation		12.2			12.2			13.1			12.8			12.3	
2nd & >Lactation		12.4			12.2			12.8			12.7			12.1	

* 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. For Holsteins, these default values are +81 Net Merit \$ and +86 Cheese Merit \$.

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