

AgSource Holstein Averages By Herd Size, Revised January 1, 2018

Averages									
Herd Size (cow count)	250-500			500-1,000			>1,000		
Herd Count	258			161			118		
	80th		20th	80th		20th	80th		20th
	Percentile	Average	Percentile	Percentile	Average	Percentile	Percentile	Average	Percentile
Cows/Herd	350	350	350	682.1	682.1	682.1	1951.4	1951.4	1951.4
Production Measures									
RHA Milk	29622	26819	24083	30444	28306	26563	29571	27829	26043
RHA Fat	1119	1010	907	1161	1069	974	1143	1056	973
RHA Protein	920	825	744	946	872	809	919	860	804
RHA Cheese Yield	3018	2729	2468	3121	2888	2679	3078	2853	2634
Management Level Milk (MLM)	96	86.9	78	95	89.9	84	96	89.5	83
Daily Milk	92.6	82.9	74.4	92.6	86	79.9	91.2	85.1	78.8
RHA Fat %	3.9	3.8	3.6	4	3.8	3.6	4	3.8	3.6
RHA Protein %	3.2	3.1	3	3.2	3.1	3	3.2	3.1	3
Mature Equivalent Production Measures									
1st Lactation ME Milk	32024	29072	26266	32493	30421	28550	31754	29824	28278
1st Lactation ME Fat	1225	1117	1011	1264	1171	1083	1245	1155	1071
1st Lactation ME Protein	970	878	803	981	920	857	976	910	861
2nd Lactation ME Milk	32115	28932	26280	32290	30377	28399	31914	30150	28456
2nd Lactation ME Fat	1207	1092	976	1246	1149	1060	1227	1147	1050
2nd Lactation ME Protein	957	868	790	978	914	840	970	911	852
3+ Lactation ME Milk	30825	27984	25332	31601	29226	27323	30907	28939	26916
3+ Lactation ME Fat	1179	1059	947	1205	1109	1018	1190	1103	1014
3+ Lactation ME Protein	927	836	755	954	876	811	935	872	807
Stage of Lactation Production Measures									
1st Lactation Peak Milk	94	86.7	80	95	89.2	83	91	86.3	82
2nd Lactation Peak Milk	123	112.4	103	125	116.4	109	122	114.6	108
3+ Lactation Peak Milk	131	120.1	110	134	124.4	116	131	122.2	114
1st Lact 1-100 Days Milk	83.1	75.6	69.2	82.5	77.3	70.7	79.6	75	70.1
1st Lact 101-240 Days Milk	85.6	77.5	69.3	86.6	80.7	75.2	85.2	79.4	73.4
1st Lact 241+ Days Milk	76.6	68.3	59.9	77.8	71.4	64.8	77	71.1	64.2
2nd Lact 1-100 Days Milk	110.4	99.1	89.6	109.9	101.3	92.4	107.1	100.4	92.6
2nd Lact 101-240 Days Milk	98.7	87.9	78.8	99.6	92.4	84.3	99	92.5	84.9
2nd Lact 241+ Days Milk	74.6	65.3	55.6	74.5	67.4	59.2	75.6	68.6	61.1
3+ Lact 1-100 Days Milk	117.2	105.8	95.6	118.2	108.2	99.5	115.6	107.3	98.5
3+ Lact 101-240 Days Milk	104.5	92.9	83	104.3	97	87.9	104.7	96.7	88.6
3+ Lact 241+ Days Milk	75.8	65.2	54.9	75.6	67.7	59.9	74.7	68.3	60
Days In Milk Measures									
Herd Average Days In Milk (DIM)	157	170.9	182	158	168.4	179	158	167.4	175
Lactation Days In Milk (LDIM)	327	319.8	315	326	321.4	317	327	322.9	319
% Days In Milk (%LACD)	89	87.1	86	89	87.5	86	89	88	87
Accuracy Measure									
% of Bulk (DHI Wt / Bulk Tank Wt)	(+ or -) 1	102	(+ or -) 5	(+ or -) 1	102	(+ or -) 5	(+ or -) 0	100	(+ or -) 3
Herd Age Measure									
1st Lact Age at Calving	23	24.2	25.1	22.5	23.3	24.2	22.1	22.7	23.3
Herd Avg Age at Calving (Months)	43.5	40.6	37.5	41.6	39.3	37.2	39.7	37.4	35.6
Reproductive Analysis - Cows									
Annual Pregnancy Rate %	27	21.7	17	29	24.2	20	30	26	22
Annual Service Rate %	58	50.7	44	63	55.6	51	64	58.9	54
Annual Pregnancy Loss %	3	4.8	7	4	5.9	8	4	6	8
Calculated Voluntary Waiting Period	52	59.8	68	52	61.1	70	54	62.9	71
Average DIM at 1st Breeding	71	78.3	84	69	74.6	80	68	73.4	79
Calving Interval Projected	12.6	13.2	13.7	12.6	12.9	13.3	12.5	12.8	13
Calving Interval Historic	12.7	13.3	13.8	12.7	13.1	13.5	12.6	12.9	13.2
Days Open PG	107	122.2	134	106	117.3	129	105	112.8	122
Services Per Conception (SPC PG)	1.6	1.8	1.9	1.6	1.8	1.9	1.7	1.8	1.9
Conception Rate % 1st Lactation	62	56.5	51	62	56.5	52	60	56.3	52
Conception Rate % 2nd Lactation	61	54.9	49	59	54.5	50	60	54.7	51
Conception Rate % 3+ Lactation	59	52.8	47	58	53.1	48	58	53.2	48
% Total Repeats 3-17 Days	3	5	7	3	5.1	7	3	5.2	7
% Total Repeats 18-24 Days	15	20.2	27	18	22.3	28	21	24.8	30
Conception Rate % 3-17 Days	33	23.3	13	30	23.3	15	31	25.2	19
Conception Rate % 18-24 Days	38	31.3	22	38	33.2	28	40	35.2	30

Reproductive Analysis - Heifers									
Conception Rate % Heifers	66	61.3	58	65	60.9	57	66	61.5	58
Services Per Conception	1.5	1.7	1.7	1.5	1.7	1.8	1.5	1.6	1.7
% < 23 Months at Calving	5	24.8	45	11	40.3	65	36	55.6	76
% > 25 Months at Calving	6	22.1	35	3	11.7	18	1	6.1	9
Yearly Herd Turnover									
% Turnover (-) Sales for Dairy	29.5	35.7	42.7	31.2	36.5	41.5	31.7	37.8	43.9
% Total Herd Left/Died	30.6	38.8	46.1	32	39.7	45.5	32.7	41	47.8
% Total Herd Died	3.2	6.3	9	3.4	5.8	8.1	3.7	5.8	7.8
% Cows Leaving the Herd < 60 DIM	5	7.7	10	5	7.4	9	5	7.2	9
% Total Herd Sold for Dairy	4.8	3.1	0	3.7	3.2	0	3.7	2.9	0
% 1st Lact Left/Died	6.1	9.8	12.4	6.4	10.2	12	7.3	11	13.1
% 2nd Lact Left/Died	6.7	9.4	12	7.1	9.7	11.9	8	10.5	13.1
% 3+ Lact Left/Died	16.2	19.6	23.5	17.5	19.8	22.6	16.2	19.5	22.8
Udder Health									
Weighted Average SCC	116	177	226	120	168	207	118	173	219
Bulk Tank Weighted Average SCC	113	169	211	116	162	207	111	166	205
% of herd >= 200000 SCC	11	15.7	20	11	15	19	11	15.4	19
% of Herd New Infections	6	8.5	11	6	8.2	10	6	8.6	11
% Infected Cows That are Chronic	48	53.6	60	47	52.6	59	45	51.5	58
Herd Linear Score	1.8	2.2	2.5	1.8	2.1	2.4	1.8	2.1	2.5
1st Lact Linear Score	1.5	1.9	2.2	1.5	1.8	2.1	1.5	1.7	2
2nd & >Lact Linear Score	1.9	2.4	2.8	2	2.3	2.6	2	2.4	2.8
% Heifers Infected at First Test	9	15.4	21	9	13.7	18	10	13.8	18
% Fresh Cows - New Infections	8	15.1	21	8	12.8	18	8	12.4	16
1st Lact Weighted Average SCC	74	116	150	78	106	129	77	103	122
2nd & >Lact Weighted Average SCC	132	210	275	140	202	261	141	213	270
% Dry Cows Cured	83	73.1	63	83	75.5	69	83	76.7	71
% Dry Period Failure to Cure	17	26.9	37	17	24.7	32	18	23.4	29
Distribution of Herd by SCC on Test Day									
% of Herd < 100000 SCC	80	72.3	65	79	73.5	69	79	73.2	67
% of Herd 100000-199000 SCC	14	11.9	9	13	11.5	10	13	11.5	10
% of Herd 200000-399000 SCC	5	6.8	9	5	6.5	8	5	6.7	8
% of Herd 400000-799000 SCC	3	4.1	5	3	3.9	5	3	4	5
% of Herd >= 800000 SCC	3	4.8	7	3	4.5	6	3	4.6	6
Transition Cow Management									
Transition Cow Index	1098	367	-306	1026	384	-303	827	133	-482
% 1st Lact Fat/Protien Ratio > 1.4	25	39.8	54	30	42	53	30	42.4	53
% 2nd & >Lact Fat/Protien Ratio > 1.4	28	41	53	29	41.2	52	27	40	52
Dry Period									
Average Days Dry	51	57.9	63	51	56.2	61	51	56.4	61
% 0-39 Days	2	10.4	16	1	7	11	1	5.1	8
% 40-70 Days	89	76	66	92	83.2	77	93	85.1	78
% >70 Days	5	13.8	21	4	9.8	15	3	9.8	15
Alternative Dry Period Length Measur									
% <30 Days	1	3.9	5	1	2.6	3	1	1.8	2
% 70-90 Days	4	9.7	14	3	7.4	10	3	7.7	11
% > 90 Days	1	6.6	10	1	4.5	8	0	4.3	8
Genetics (Net Merit Values Adjusted for Unidentified Sires)									
Service Sires Net Merit \$	757	633	539	786	694	628	807	737	680
Heifer Sires Net Merit \$	611	480	368	651	547	450	673	589	530
1st Lact Sires Net Merit \$	472	350	232	542	416	314	555	466	386
2nd Lact Sires Net Merit \$	372	275	176	419	327	224	439	369	301
3+ Lact Sires Net Merit \$	249	176	94	291	218	146	304	246	192
All Cows Sire Net Merit \$	364	270	170	410	323	243	430	370	307
Functional Trait Measures									
Service Sires DPR	2.5	1.8	1.2	2.8	2.1	1.5	2.8	2.3	1.8
All Cows Sire DPR	1.4	0.7	0	1.9	1.1	0.3	2.1	1.5	0.8
Service Sires SCS	2.78	2.83	2.87	2.77	2.82	2.85	2.76	2.81	2.85
All Cows Sire SCS	2.84	2.89	2.93	2.83	2.87	2.91	2.81	2.85	2.88
Service Sires Prod Life	7	5.7	4.7	7.5	6.3	5.4	7.7	6.8	6.2
All Cows Sire Prod Life	3.5	2.4	1.2	4	2.9	1.7	4.3	3.5	2.6

Identification Measures									
% Cow Sires Identified	99	81.6	65	99	86.5	78	99	87.9	80
Service Sires % AI	100	91.3	93	100	95.5	96	100	97.1	97
All Cows Sire % AI	99	84.1	72	100	89.1	84	99	92.6	91
Calving									
% Female Calves	56	51.2	46	56	52.1	48	58	54	49
1st Lact % Female Live	96	92.1	88	96	92.7	90	96	92.5	91
2nd Lact % Female Live	99	95	92	99	96.2	94	98	96.9	95
3+ Lact % Female Live	98	94.2	91	98	94.9	92	97	95.4	94
Management MUN Values	<10 Mg/Dl	10-14 Mg/	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg	>14 Mg/Dl	<10 Mg/Dl	10-14 Mg	>14 Mg/Dl
All Herds %	25.6	61.3	14.6	20	65.1	15.3	20.4	64.7	15.1
1st Lactation %	23.8	63.7	18.8	16	66.5	19.3	16.7	65.8	18.4
2nd & >Lactation %	28.7	59.9	13.9	23.1	64.4	13.3	23.6	64	12.7
Average MUN Values									
All Herds		11.4			11.7			11.7	
1st Lactation		11.7			12.2			12	
2nd & >Lactation		11.1			11.5			11.4	