

2016 Management Centre (Based on 2016 Herd Averages)

ONTARIO DHI HERDS



MANAGEMENT CENTRE	PERCENTILES								
	90 TH	80 TH	70 TH	60 TH	50 TH	40 TH	30 TH	20 TH	10 TH
Milk Value: Holstein Average of Current 305 Day Lactations*	\$8,264	\$7,871	\$7,562	\$7,314	\$7,065	\$6,840	\$6,561	\$6,151	\$5,601
Milk Value: Non-Holstein Average of Current 305 Day Lactations*	\$7,015	\$6,608	\$6,221	\$6,012	\$5,753	\$5,511	\$5,208	\$4,933	\$4,429
Udder Health Herd Average Linear Score	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.2	3.4
Age at First Calving First Lactation (months)	23.6	24.1	24.5	25.0	25.5	26.0	26.6	27.6	29.2
Calving Interval Herd Average (months)	12.8	13.1	13.3	13.5	13.7	13.9	14.2	14.6	15.2
Longevity Annual Herd 3rd+ Lactations	48.2%	43.9%	41.2%	38.9%	37.2%	35.3%	33.3%	30.6%	27.1%
Herd Efficiency Average Herd in Milk	90.3%	89.2%	88.3%	87.5%	86.7%	85.8%	84.4%	82.8%	79.6%

* Value after deductions/transportation

2016 Management Centre (Based on 2016 Herd Averages)

MANITOBA, ALBERTA, SASKATCHEWAN DHI HERDS



MANAGEMENT CENTRE	PERCENTILES								
	90 TH	80 TH	70 TH	60 TH	50 TH	40 TH	30 TH	20 TH	10 TH
Milk Value: Holstein Average of Current 305 Day Lactations*	\$8,453	\$8,120	\$7,832	\$7,637	\$7,340	\$7,110	\$6,883	\$6,479	\$5,791
Milk Value: Non-Holstein Average of Current 305 Day Lactations*	\$7,154	\$6,791	\$6,399	\$6,278	\$6,035	\$5,712	\$5,423	\$5,104	\$4,262
Udder Health Herd Average Linear Score	2.0	2.2	2.4	2.5	2.6	2.7	2.9	3.0	3.3
Age at First Calving First Lactation (months)	23.7	24.2	24.7	25.0	25.5	25.9	26.6	27.5	29.0
Calving Interval Herd Average (months)	12.8	12.9	13.1	13.3	13.5	13.8	14.1	14.5	15.5
Longevity Annual Herd 3rd+ Lactations	44.4%	40.9%	38.5%	36.3%	35.0%	33.7%	31.5%	29.0%	25.7%
Herd Efficiency Average Herd in Milk	89.0%	87.7%	86.9%	85.7%	84.6%	83.4%	81.8%	79.8%	75.5%

* Value after deductions/transportation

2016 Management Centre (Based on 2016 Herd Averages)

BRITISH COLUMBIA DHI HERDS



MANAGEMENT CENTRE	PERCENTILES								
	90 TH	80 TH	70 TH	60 TH	50 TH	40 TH	30 TH	20 TH	10 TH
Milk Value: Holstein Average of Current 305 Day Lactations*	\$8,637	\$8,407	\$8,085	\$7,855	\$7,664	\$7,508	\$7,234	\$6,936	\$6,309
Milk Value: Non-Holstein Average of Current 305 Day Lactations*	\$7,687	\$7,377	\$7,008	\$6,817	\$6,535	\$6,183	\$5,939	\$5,497	\$4,545
Udder Health Herd Average Linear Score	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.7	2.9
Age at First Calving First Lactation (months)	23.8	24.3	24.6	25.0	25.4	25.8	26.3	27.0	28.9
Calving Interval Herd Average (months)	13.0	13.2	13.4	13.6	13.8	13.9	14.2	14.6	15.3
Longevity Annual Herd 3rd+ Lactations	46.0%	42.2%	39.0%	36.6%	34.6%	33.1%	31.7%	29.2%	26.1%
Herd Efficiency Average Herd in Milk	90.0%	88.8%	88.0%	87.5%	86.9%	86.3%	85.6%	85.0%	82.8%

* Value after deductions/transportation

2016 Management Centre (Based on 2016 Herd Averages)

CANADA DHI HERDS



MANAGEMENT CENTRE		PERCENTILES								
	MAX	90 TH	80 TH	70 TH	60 TH	50 TH	40 TH	30 TH	20 TH	10 TH
Milk Value: Holstein										
Average of Current 305 Day Lactations*	>\$9,941	\$8,256	\$7,832	\$7,574	\$7,324	\$7,087	\$6,866	\$6,600	\$6,252	\$5,710
SCORE	500	451	401	351	301	251	201	151	100	51
Milk Value: Non-Holstein										
Average of Current 305 Day Lactations*	>\$9,033	\$7,009	\$6,579	\$6,253	\$6,021	\$5,772	\$5,562	\$5,290	\$5,000	\$4,543
SCORE	500	450	400	350	301	251	200	150	100	50
Udder Health										
Herd Average Linear Score	<1.6	2.0	2.2	2.4	2.5	2.6	2.7	2.9	3.0	3.3
SCORE	150	139	126	107	95	83	71	49	39	17
Age at First Calving										
First Lactation (months)	<22.8	23.9	24.4	24.8	25.1	25.5	26.0	26.5	27.4	28.9
SCORE	100	91	81	71	61	51	41	31	21	11
Calving Interval										
Herd Average (months)	<13.2	12.8	13.1	13.2	13.4	13.6	13.9	14.1	14.5	15.1
SCORE	50	50	50	45	38	32	26	20	13	7
Longevity										
Annual Herd 3rd+ Lactations	49.5 - 55.0%	50.3%	46.0%	43.2%	40.9%	38.8%	36.7%	34.6%	32.1%	28.3%
SCORE	100	100	92	78	64	52	40	30	20	10
Herd Efficiency										
Average Herd in Milk	86.1% - 89.1%	90.2%	89.2%	88.3%	87.7%	87.0%	86.2%	85.2%	83.8%	81.3%
SCORE	100	75	99	100	100	100	100	77	51	26

* Value after deductions/transportation

HOW PERCENTILES WORK: If all herds/animals were arranged in order from lowest to highest, the 75th percentile would be the value of the herd that is better than 75% of all the other herds. The 99th percentile value is that which is better than 99% of all the other herds.

Valeurs de référence quant aux aspects de gestion 2016

Pour tous les troupeaux inscrits auprès de l'Ontario DHI selon les moyennes de 2016 des troupeaux



ASPECT DE GESTION	R A N G C E N T I L E								
	90e	80e	70e	60e	50e	40e	30e	20e	10e
Valeur du lait (Holstein) Moy. des lactations actuelles de jours*	8,264 \$	7,871 \$	7,562 \$	7,314 \$	7,065 \$	6,840 \$	6,561 \$	6,151 \$	5,601 \$
Valeur du lait (Autre Race) Moy. des lactations actuelles de jours*	7,015 \$	6,608 \$	6,221 \$	6,012 \$	5,753 \$	5,511 \$	5,208 \$	4,933 \$	4,429 \$
Santé du pis Pointage linéaire moyenne du troupeau	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.2	3.4
Âge au premier vêlage Première lactation seulement en mois	23.6	24.1	24.5	25.0	25.5	26.0	26.6	27.6	29.2
Intervalle de vêlage Moyenne du troupeau, en mois	12.8	13.1	13.3	13.5	13.7	13.9	14.2	14.6	15.2
Longévité % annuel du troupeau en lactation	48.2%	43.9%	41.2%	38.9%	37.2%	35.3%	33.3%	30.6%	27.1%
% de vaches en lactation % annuel du troupeau en lactation	90.3%	89.2%	88.3%	87.5%	86.7%	85.8%	84.4%	82.8%	79.6%

* Valeur après déductions/transport

Comment travail de percentiles? Si tous les troupeau (des animaux ont pu être substitués aux troupeaux) étaient arrangés dans l'ordre de le plus bas à le plus haut. Le soixante-quinzième percentile seraient la valeur du troupeau qui est meilleur que 75% de tous les autres troupeaux. La quatre-vingt-dix-neuvième valeur de percentile est ce qui est meilleure que 99% de tous autres troupeaux.

Valeurs de référence quant aux aspects de gestion 2016

Pour tous les troupeaux inscrits auprès de **CANADA DHI** selon les moyennes de 2016 des troupeaux



ASPECT DE GESTION		R A N G C E N T I L E									
		MAX	90e	80e	70e	60e	50e	40e	30e	20e	10e
Valeur du lait (Holstein) Moy. des lactations actuelles de jours*	>9,941 \$	8,256 \$	7,832 \$	7,574 \$	7,324 \$	7,087 \$	6,866 \$	6,600 \$	6,252 \$	5,710 \$	
POINTS	500	451	401	351	301	251	201	151	100	51	
Valeur du lait (Autre Race) Moy. des lactations actuelles de jours*	>9,033 \$	7,009 \$	6,579 \$	6,253 \$	6,021 \$	5,772 \$	5,562 \$	5,290 \$	5,000 \$	4,543 \$	
POINTS	500	450	400	350	301	251	200	150	100	50	
Santé du pis Pointage linéaire moyenne du troupeau	<1.6	2.0	2.2	2.4	2.5	2.6	2.7	2.9	3.0	3.3	
POINTS	150	139	126	107	95	83	71	49	39	17	
Âge au premier vêlage Première lactation seulement en mois	<22.8	23.9	24.4	24.8	25.1	25.5	26.0	26.5	27.4	28.9	
POINTS	100	91	81	71	61	51	41	31	21	11	
Intervalle de vêlage Moyenne du troupeau, en mois	<13.2	12.8	13.1	13.2	13.4	13.6	13.9	14.1	14.5	15.1	
POINTS	50	50	50	45	38	32	26	20	13	7	
Longévité % annuel du troupeau en lactation	49.5 - 55.0%	50.3%	46.0%	43.2%	40.9%	38.8%	36.7%	34.6%	32.1%	28.3%	
POINTS	100	100	92	78	64	52	40	30	20	10	
% de vaches en lactation % annuel du troupeau en lactation	86.1% - 89.1%	90.2%	89.2%	88.3%	87.7%	87.0%	86.2%	85.2%	83.8%	81.3%	
POINTS	100	75	99	100	100	100	100	77	51	26	

* Valeur après déductions/transport

Comment travail de percentiles? Si tous les troupeau (des animaux ont pu être substitués aux troupeaux) étaient arrangés dans l'ordre de le plus bas à le plus haut. Le soixante-quinzième percentile seraient la valeur du troupeau qui est meilleur que 75% de tous les autres troupeaux. La quatre-vingt-dix-neuvième valeur de percentile est ce qui est meilleure que 99% de tous autres troupeaux.

2016 CanWest DHI Reproduction Benchmarks by Herd Size (Ontario & West)

COWS										HEIFERS					
Herd Size & Percentile	Pregnancy Rate %	Insemination Rate %	Conception Rate %	DIM at 1st Bred	Pregnant at 150 DIM %	Times Bred	Pregnant to 1st Bred %	Days Open	Calving Interval (MO)	Age at 1st Calving (MO)	Age at 1st Bred (MO)	Age at Conception (MO)	Pregnant at 15 Months %	Times Bred	Pregnant to 1st Bred %
<= 50 Cows (808 herds in benchmark)										(547 herds in benchmark)					
10	6	19	24	114	15	2.5	18	153	15.5	28.6	17.9	19.1	0	2.3	33
25	9	28	30	99	25	2.2	26	135	14.6	26.7	16.3	17.4	5	2.0	45
50	12	37	37	86	38	1.8	35	121	13.9	25.0	15.9	15.9	20	1.6	58
75	16	46	44	77	50	1.5	46	108	13.4	24.3	14.3	14.9	38	1.4	70
90	19	51	53	72	60	1.3	56	97	12.9	23.5	13.5	14.1	58	1.2	78
51-100 Cows (1,359 herds)										(964 herds)					
10	14	39	37	84	41	1.9	36	119	13.8	28.2	17.5	18.8	0	2.2	38
25	15	42	39	81	44	1.8	39	115	13.6	26.5	16.2	17.2	7	1.9	50
50	17	47	43	76	51	1.6	44	109	13.3	25.3	15.0	15.8	24	1.7	59
75	20	51	49	71	58	1.5	51	101	13.0	24.3	14.1	14.9	44	1.5	70
90	22	56	55	66	66	1.3	58	94	12.8	23.6	13.4	14.1	62	1.3	81
101-150 Cows (585 herds)										(439 herds)					
10	9	25	30	108	26	2.3	26	139	14.9	27.3	16.8	17.9	3	2.2	41
25	12	35	34	92	37	2.1	33	127	14.0	25.9	15.6	16.5	13	1.9	51
50	16	44	40	81	49	1.9	40	115	13.5	24.8	14.6	15.5	32	1.7	60
75	20	52	46	74	58	1.7	46	105	13.0	23.9	13.9	14.7	51	1.5	69
90	23	58	51	67	67	1.5	52	98	12.7	23.4	13.3	13.9	69	1.3	81
151-300 Cows (378 herds)										(293 herds)					
10	11	32	29	99	31	2.3	27	137	14.6	26.2	16.3	16.9	6	2.2	44
25	14	40	34	87	43	2.1	33	121	13.8	25.4	15.2	15.9	21	1.9	52
50	18	48	39	78	52	1.9	38	111	13.3	24.5	14.4	15.1	38	1.7	60
75	20	53	42	73	59	1.8	43	105	13.0	23.8	13.8	14.5	54	1.5	68
90	24	60	47	68	68	1.6	50	98	12.7	23.2	13.2	13.8	69	1.3	86
>300 Cows (142 herds)										(120 herds)					
10	13	39	30	96	40	2.4	27	125	14.0	26.3	15.7	16.9	10	2.2	43
25	17	47	34	83	47	2.2	33	116	13.7	25.1	14.7	15.4	31	2.0	49
50	19	54	37	74	54	2.0	39	108	13.2	24.2	13.9	14.6	49	1.8	57
75	23	61	42	68	63	1.9	42	102	12.9	23.4	13.4	14.1	69	1.6	63
90	26	66	46	64	70	1.7	47	95	12.6	22.9	12.8	13.5	74	1.3	73

Cow Eligibility: Conception Rate >10% and <80% • Cows Bred >30% • Cows Pregnant >10% • Natural Services Included

Heifer Eligibility: Breeding Age Heifers (>12 months) to Total Cows >=25% • Heifers Bred >30% • Heifers Pregnant >10% • Natural Services Included

2016 CanWest DHI Reproduction Benchmarks by Province

COWS										HEIFERS					
Province & Percentile	Pregnancy Rate %	Insemination Rate %	Conception Rate %	DIM at 1st Bred	Pregnant at 150 DIM %	Times Bred	Pregnant to 1st Bred %	Days Open	Calving Interval (MO)	Age at 1st Calving (MO)	Age at 1st Bred (MO)	Age at Conception (MO)	Pregnant at 15 Months %	Times Bred	Pregnant to 1st Bred %
Ontario															
25	11	33	32	92	30	2.2	28	128	14.3	26.2	15.8	16.8	9	2.0	48
50	14	42	37	81	43	1.9	36	116	13.6	24.9	14.7	15.6	27	1.7	58
75	18	50	43	73	54	1.6	44	105	13.2	24.0	13.9	14.6	48	1.5	68
90	22	56	51	68	64	1.4	52	97	12.8	23.3	13.3	13.9	67	1.3	77
Manitoba															
25	10	26	35	102	29	2.0	32	136	14.8	26.8	16.8	17.1	3	1.9	45
50	14	37	41	87	41	1.8	40	117	13.8	25.4	15.4	15.9	17	1.7	59
75	19	46	46	75	57	1.5	50	108	13.2	24.4	14.4	14.9	37	1.5	68
90	22	54	54	68	65	1.3	58	99	12.9	23.7	13.3	14.2	57	1.2	79
Saskatchewan															
25	12	33	34	95	31	2.1	33	130	14.3	25.7	15.6	16.1	16	1.8	57
50	15	41	39	83	45	1.9	39	118	13.8	24.9	14.6	15.1	37	1.4	71
75	17	47	45	77	54	1.7	46	110	13.3	23.7	14.0	14.3	49	1.0	98
90	20	53	50	73	63	1.5	51	102	12.9	23.3	13.4	13.9	65	1.0	100
Alberta															
25	12	32	36	94	38	2.0	37	125	14.0	26.0	15.9	16.3	8	1.8	56
50	16	42	43	82	50	1.8	42	114	13.4	24.8	14.9	15.5	26	1.5	66
75	20	50	48	75	60	1.6	49	105	12.9	24.0	14.1	14.7	46	1.3	79
90	24	57	53	69	67	1.4	56	96	12.7	23.5	13.5	14.0	65	1.1	97
British Columbia															
25	12	32	34	103	35	2.1	34	134	14.2	26.0	15.8	16.6	11	1.9	50
50	15	42	39	92	48	1.9	39	123	13.7	25.0	14.8	15.7	29	1.7	59
75	18	49	45	82	55	1.7	46	113	13.3	24.2	14.2	14.9	45	1.5	68
90	21	56	52	75	62	1.5	54	108	13.0	23.6	13.6	14.4	62	1.4	75

Cow Eligibility: Conception Rate >10% and <80% • Cows Bred >30% • Cows Pregnant >10% • Natural Services Included

Heifer Eligibility: Breeding Age Heifers (>12 months) to Total Cows >=25% • Heifers Bred >30% • Heifers Pregnant >10% • Natural Services Included

2016 MANAGEMENT BENCHMARKS

ALL CANADIAN PROVINCES (based on DHI Herd Averages)



Free Stall: 1,799 Herds

Management Centre	90th	80th	70th	60th	50th	40th	30th	20th	10th
Milk Value (Holstein)	\$8,439	\$8,027	\$7,760	\$7,545	\$7,313	\$7,081	\$6,853	\$6,485	\$5,929
Milk Value (Coloured Breeds)	\$7,323	\$6,904	\$6,517	\$6,229	\$5,931	\$5,660	\$5,443	\$5,102	\$4,583
Udder Health (Linear Score)	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.9	3.1
Age At First Calving (Months)	23.5	24.0	24.4	24.7	25.2	25.6	26.2	27.0	28.6
Calving Interval (Months)	12.7	12.9	13.1	13.2	13.4	13.6	13.8	14.1	14.7
Longevity (% herd in 3rd lact+)	46.5%	42.6%	40.1%	38.0%	36.1%	34.4%	32.6%	30.3%	26.8%
Herd Efficiency (% herd in milk)	90.1%	89.1%	88.3%	87.6%	87.0%	86.3%	85.4%	84.1%	81.7%

Robotic Milking: 548 Herds

Management Centre	90th	80th	70th	60th	50th	40th	30th	20th	10th
Milk Value (Holstein)	\$8,545	\$8,205	\$7,982	\$7,705	\$7,572	\$7,382	\$7,137	\$6,852	\$6,424
Milk Value (Coloured Breeds)	\$7,314	\$7,053	\$6,886	\$6,698	\$6,389	\$6,113	\$5,701	\$5,375	\$4,929
Udder Health (Linear Score)	2.1	2.3	2.4	2.5	2.6	2.8	2.9	3.1	3.4
Age At First Calving (Months)	23.7	24.1	24.5	24.9	25.2	25.6	26.0	26.5	27.4
Calving Interval (Months)	12.7	13.0	13.1	13.3	13.4	13.6	13.8	14.1	14.7
Longevity (% herd in 3rd lact+)	46.1%	42.8%	40.5%	38.5%	36.8%	34.9%	33.2%	30.9%	27.0%
Herd Efficiency (% herd in milk)	89.5%	88.4%	87.8%	87.2%	86.5%	85.7%	84.6%	83.3%	81.2%

Tie Stall: 5,457 Herds

Management Centre	90th	80th	70th	60th	50th	40th	30th	20th	10th
Milk Value (Holstein)	\$8,122	\$7,714	\$7,444	\$7,185	\$6,965	\$6,739	\$6,473	\$6,131	\$5,601
Milk Value (Coloured Breeds)	\$6,777	\$6,452	\$6,146	\$5,928	\$5,667	\$5,475	\$5,219	\$4,952	\$4,488
Udder Health (Linear Score)	2.0	2.2	2.4	2.5	2.6	2.8	2.9	3.1	3.3
Age At First Calving (Months)	24.0	24.5	24.9	25.3	25.7	26.1	26.7	27.5	29.1
Calving Interval (Months)	12.9	13.2	13.3	13.5	13.7	14.0	14.2	14.6	15.2
Longevity (% herd in 3rd lact+)	51.3%	47.1%	44.1%	41.9%	39.9%	37.8%	35.6%	33.0%	28.9%
Herd Efficiency (% herd in milk)	90.3%	89.3%	88.4%	87.7%	87.0%	86.2%	85.2%	83.7%	81.2%

Organic: 145 Herds

Management Centre	90th	80th	70th	60th	50th	40th	30th	20th	10th
Milk Value (Holstein)*	\$8,469	\$8,019	\$7,726	\$7,414	\$7,040	\$6,788	\$6,386	\$6,031	\$5,517
Milk Value (Coloured Breeds)*	\$7,379	\$6,849	\$6,523	\$6,376	\$6,060	\$5,863	\$5,505	\$5,237	\$4,516
Udder Health (Linear Score)	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.7
Age At First Calving (Months)	24.5	25.2	25.6	26.0	26.6	26.9	27.9	29.0	30.7
Calving Interval (Months)	12.9	13.1	13.4	13.6	13.9	14.0	14.4	14.7	15.5
Longevity (% herd in 3rd lact+)	57.5%	52.1%	50.3%	48.1%	46.2%	43.6%	41.6%	39.2%	35.7%
Herd Efficiency (% herd in milk)	90.2%	89.3%	87.9%	87.3%	86.8%	86.0%	84.7%	83.3%	79.4%

* Organic milk prices used to calculate milk value.