

BOLT Evaluation

The CGA has successfully moved their genetic evaluation to the BOLT system through IGS. BOLT represent the largest single step evaluation and includes over 17 million animals in the evaluation. EPD evaluations are now run on a weekly basis and new data is updated each Monday night, with EPD returned the following week.

The evaluation is a full multi-trait evaluation that includes pedigree, performance, DNA and external EPD data directly in the calculation of the EPD. Further, the evaluation calculates accuracy values directly rather than using the previous estimation method. EPD from the BOLT system are directly comparable with AGA and several other breed organizations.

Breed average and percentile statistics are calculated and updated on the CGA system on a weekly basis and animals are displayed on the CGA system and search site with their most recent EPD and population comparison.

There are some changes that breeders or their customers may notice with the new evaluation. Breed Average EPD for several traits have changed slightly, however for most animals their ranking in the population remains relatively unchanged. Breeders may also notice that published accuracy values are somewhat lower than in previous evaluations. This is a function of CALCULATING Accuracy, rather than ESTIMATING Accuracy. The previous BIF Accuracy estimation was used because the computing power to calculate Accuracy is very intense, it did however tend to over-estimate the Accuracy values. The new calculation provides a much better indication of the amount of information that is contributing to the animal's EPD. Breeders will notice some changes in CE and MCE evaluations due to some improved methodologies and inclusion of additional data. Breeders may also notice more significant changes in the Carcass traits. The carcass traits have had a long overdue examination of their basic genetic estimates and genetic modelling. Combined with limited carcass data on Canadian animals, this has meant that there have been some fairly large changes among some Canadian sires for carcass merit. Animals with low accuracy that have DNA SNP testing conducted may also be subject to significant changes in subsequent evaluations.

Breeders are encouraged to familiarize themselves with the new breed average and percentile tables to get a renewed feeling for the EPD on Gelbvieh cattle. As previously stated, most animals remain situated in the same range of the population as before, however some animals with new data or additional DNA information have seen significant changes.

Breed Averages, Percentiles and Genetic Trends as of the week of August 21st are shown below.



CANADIAN GELBVIEW ASSOC
 5160 Skyline Way NE
 Calgary, Alberta T2E 6V1
 Phone: 403-250-8640
 Fax: 403-291-5624
 E-Mail: gelbvieh@gelbvieh.ca
 Website: www.gelbvieh.ca

International Cattle Evaluation - Run Date: 08/21/2018

Statistical Breakdown

Active Sires																						
		Expected Progeny Differences																	Index Values			
		Growth and Maternal									Intake and Carcass											
		CED	BW	WW	YW	Milk	TM	CEM	HP	PG30	STAY	DMI	YG	CW	CREA	MARB	CFAT	ADG	RFI	Cow	FPI	EPI
Num Animals		702	702	702	702	702	702	702	671	671	702	212	702	702	702	702	702	212	212	216	677	216
High		24	7.9	104	152	40	76	15	17	8	27	1.246	0.29	62	1.31	0.84	0.08	0.177	0.287	176.61	96.26	241.34
Average		11	1.1	61	86	24	54	5	2	0	14	-0.002	-0.47	6	0.67	-0.02	-0.10	-0.042	-0.005	100.19	64.50	63.69
Low		-1	-5.7	27	30	1	35	-9	-9	-6	2	-2.019	-0.79	-27	-0.08	-0.37	-0.17	-0.154	-0.738	28.72	42.05	-22.32
1%		21	-4.6	89	136	36	71	13	14	4	22	-0.115	-0.67	37	1.09	0.42	-0.15	0.122	-0.148	153.04	84.41	185.69
2%		19	-3.5	87	132	34	68	11	12	4	22	-0.100	-0.65	31	1.05	0.32	-0.14	0.093	-0.098	149.85	82.24	175.53
3%		18	-3.0	85	123	34	67	10	11	4	21	-0.097	-0.63	27	1.00	0.27	-0.13	0.075	-0.092	141.93	82.24	157.71
4%		17	-2.7	82	121	33	66	10	10	3	21	-0.079	-0.62	25	0.96	0.24	-0.13	0.063	-0.078	140.07	79.78	143.91
5%		17	-2.4	80	119	32	65	10	9	3	20	-0.063	-0.61	23	0.95	0.22	-0.13	0.037	-0.074	139.09	78.04	133.45
10%		16	-1.6	75	110	30	63	9	7	2	19	-0.053	-0.57	18	0.87	0.14	-0.12	0.015	-0.051	132.79	73.91	112.80
15%		15	-0.9	72	105	29	61	8	6	2	18	-0.036	-0.55	14	0.83	0.10	-0.11	0.007	-0.032	128.91	71.70	98.09
20%		14	-0.4	69	101	28	60	7	5	1	17	-0.027	-0.53	12	0.80	0.07	-0.11	-0.001	-0.018	122.74	69.80	88.83
25%		13	0.0	67	98	27	59	7	4	1	17	-0.016	-0.52	10	0.77	0.04	-0.11	-0.012	-0.012	119.75	68.87	84.41
30%		13	0.2	66	95	27	57	6	4	1	16	-0.011	-0.51	9	0.75	0.02	-0.11	-0.019	-0.009	114.51	67.56	78.12
35%		12	0.5	65	93	26	57	6	3	1	16	-0.008	-0.50	8	0.73	0.01	-0.10	-0.027	-0.006	111.23	66.17	73.90
40%		12	0.7	63	90	26	56	6	3	0	15	-0.005	-0.49	7	0.71	-0.01	-0.10	-0.035	-0.004	108.69	65.10	68.97
45%		11	1.0	62	88	25	55	5	2	0	15	-0.002	-0.48	6	0.69	-0.02	-0.10	-0.038	-0.002	104.01	64.38	63.12
50%		11	1.2	61	86	25	54	5	2	0	15	-0.001	-0.48	5	0.68	-0.03	-0.10	-0.044	-0.001	98.65	63.57	58.05
55%		10	1.5	59	84	24	53	4	2	0	14	0.001	-0.47	4	0.66	-0.04	-0.10	-0.051	0.000	95.67	62.94	53.52
60%		10	1.7	58	81	23	53	4	1	0	13	0.002	-0.46	4	0.64	-0.06	-0.09	-0.057	0.002	93.66	62.15	52.49
65%		9	1.9	56	79	23	52	4	1	0	13	0.005	-0.45	3	0.62	-0.07	-0.09	-0.065	0.005	91.09	61.38	46.41
70%		9	2.1	55	77	22	51	3	1	0	13	0.009	-0.44	2	0.60	-0.08	-0.09	-0.071	0.008	87.35	60.52	39.60
75%		8	2.4	53	74	21	50	3	0	-1	12	0.013	-0.43	1	0.58	-0.09	-0.09	-0.083	0.013	85.34	59.58	33.51
80%		8	2.8	51	71	20	49	2	0	-1	11	0.019	-0.42	0	0.56	-0.11	-0.08	-0.090	0.017	77.17	58.75	28.96
85%		7	3.2	49	68	19	48	2	-1	-1	11	0.025	-0.40	-2	0.53	-0.13	-0.08	-0.097	0.022	74.62	57.73	23.82
90%		6	3.7	47	64	18	46	1	-1	-2	10	0.048	-0.37	-3	0.47	-0.15	-0.07	-0.108	0.036	65.72	56.17	16.16
95%		5	4.5	42	56	15	44	0	-2	-3	9	0.082	-0.30	-7	0.39	-0.21	-0.06	-0.118	0.063	54.92	53.94	7.03

Includes all active animals that meet the listing qualifications regardless of Gelbvieh %

Active Sires



CANADIAN GELBIEH ASSOC
 5160 Skyline Way NE
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Statistical Breakdown

	Active Dams																				
	Expected Progeny Differences										Intake and Carcass								Index Values		
	Growth and Maternal																				
	CED	BW	WW	YW	Milk	TM	CEM	HP	PG30	STAY	DMI	YG	CW	CREA	MARB	CFAT	ADG	RFI	Cow	FPI	EPI
Num Animals	4386	4386	4386	4386	4386	4386	4386	4357	4357	4386	187	4386	4386	4386	4386	4386	187	187	187	4358	187
High	23	10.5	93	141	43	78	16	15	5	27	0.177	0.07	44	1.18	0.55	0.02	0.045	0.072	154.52	86.15	162.07
Average	11	1.2	56	79	24	52	4	1	0	15	0.003	-0.48	4	0.66	-0.03	-0.10	-0.032	-0.001	106.92	61.17	63.70
Low	-1	-6.5	18	14	-2	18	-10	-6	-6	3	-0.113	-0.67	-21	-0.07	-0.34	-0.16	-0.149	-0.083	43.81	45.41	-4.53
1%	19	-3.7	78	115	36	68	11	8	3	23	-0.075	-0.61	19	0.95	0.29	-0.13	0.038	-0.072	151.73	74.28	153.66
2%	17	-3.1	75	110	34	66	10	7	3	22	-0.039	-0.59	17	0.90	0.22	-0.13	0.031	-0.054	145.81	72.53	136.09
3%	17	-2.7	73	107	33	65	9	6	2	21	-0.038	-0.58	16	0.88	0.17	-0.12	0.031	-0.043	144.23	71.10	131.09
4%	16	-2.4	72	105	33	64	9	6	2	21	-0.038	-0.57	15	0.86	0.15	-0.12	0.029	-0.043	144.06	70.27	130.57
5%	16	-2.1	71	104	32	63	9	5	2	20	-0.037	-0.57	14	0.85	0.13	-0.12	0.028	-0.035	141.27	69.70	125.48
10%	15	-1.3	67	97	30	60	8	4	1	19	-0.026	-0.55	11	0.80	0.07	-0.12	0.011	-0.025	133.59	67.26	102.23
15%	14	-0.7	65	94	29	59	7	4	1	18	-0.016	-0.54	9	0.77	0.04	-0.11	0.003	-0.020	129.49	65.90	87.23
20%	13	-0.3	63	91	28	57	7	3	1	18	-0.013	-0.53	8	0.75	0.02	-0.11	-0.004	-0.015	126.56	64.90	80.96
25%	13	0.0	62	89	27	56	6	3	1	17	-0.011	-0.52	7	0.73	0.01	-0.11	-0.007	-0.010	122.07	64.12	76.12
30%	12	0.3	61	87	27	56	6	2	1	17	-0.007	-0.51	6	0.71	0.00	-0.11	-0.012	-0.008	118.79	63.43	73.70
35%	12	0.6	60	85	26	55	5	2	1	16	-0.005	-0.51	6	0.70	-0.01	-0.11	-0.019	-0.005	115.42	62.72	69.52
40%	11	0.8	59	83	25	54	5	2	0	16	-0.003	-0.50	5	0.69	-0.03	-0.10	-0.024	-0.003	111.78	62.10	65.70
45%	11	1.0	57	81	25	53	5	1	0	15	-0.001	-0.49	4	0.67	-0.04	-0.10	-0.030	-0.002	110.35	61.51	62.64
50%	11	1.3	56	79	24	52	4	1	0	15	-0.000	-0.49	4	0.66	-0.04	-0.10	-0.033	0.000	107.71	61.02	59.26
55%	10	1.5	55	78	24	52	4	1	0	14	0.002	-0.48	3	0.65	-0.05	-0.10	-0.037	0.002	102.80	60.46	55.19
60%	10	1.7	54	76	23	51	4	1	0	14	0.004	-0.48	2	0.63	-0.06	-0.10	-0.040	0.004	100.67	59.88	53.70
65%	9	1.9	53	74	23	50	4	0	0	14	0.006	-0.47	2	0.62	-0.07	-0.10	-0.047	0.006	98.65	59.28	51.18
70%	9	2.2	52	72	22	49	3	0	0	13	0.008	-0.46	1	0.61	-0.08	-0.10	-0.051	0.008	97.00	58.57	49.45
75%	9	2.4	51	70	21	48	3	0	-1	13	0.010	-0.45	0	0.59	-0.09	-0.09	-0.054	0.009	92.24	57.88	46.19
80%	8	2.7	49	67	21	47	2	0	-1	12	0.011	-0.44	-1	0.57	-0.10	-0.09	-0.061	0.011	87.80	57.13	40.60
85%	7	3.1	47	64	20	46	2	-1	-1	11	0.015	-0.43	-1	0.55	-0.12	-0.09	-0.066	0.013	85.02	56.33	36.80
90%	7	3.6	45	61	19	44	1	-1	-1	10	0.033	-0.39	-3	0.52	-0.13	-0.08	-0.073	0.022	77.64	55.26	31.29
95%	6	4.4	42	55	17	42	0	-2	-2	9	0.077	-0.33	-5	0.46	-0.16	-0.07	-0.083	0.036	70.71	53.61	23.23

Includes all active animals that meet the listing qualifications regardless of Gelbvieh %

Active Dams



CANADIAN GELBVIEW ASSOC
 5160 Skyline Way NE
 Calgary, Alberta T2E 6V1
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Non-Parents																						
		Expected Progeny Differences																Index Values				
		Growth and Maternal									Intake and Carcass											
		CED	BW	WW	YW	Milk	TM	CEM	HP	PG30	STAY	DMI	YG	CW	CREA	MARB	CFAT	ADG	RFI	Cow	FPI	EPI
Num Animals		7253	7253	7253	7253	7253	7253	7253	7293	7293	7253	78	7253	7253	7253	7253	7253	78	78	78	7311	78
High		25	10.8	97	147	36	89	14	13	5	26	0.391	0.06	38	1.13	0.81	0.04	0.157	0.144	147.83	85.82	175.53
Average		11	1.0	57	81	24	53	5	2	0	15	0.003	-0.46	5	0.65	-0.01	-0.09	-0.025	0.003	110.16	62.70	74.55
Low		-1	-7.9	25	29	12	31	-5	-4	-4	4	-0.212	-0.78	-17	0.05	-0.28	-0.17	-0.084	-0.132	67.50	45.93	24.40
1%		18	-3.8	77	115	32	65	10	6	2	21	-0.052	-0.58	22	0.89	0.26	-0.12	0.055	-0.035	144.11	75.52	137.88
2%		17	-3.1	75	110	31	63	9	6	2	20	-0.042	-0.56	18	0.86	0.20	-0.12	0.031	-0.028	142.86	73.35	134.00
3%		17	-2.7	73	107	30	62	9	5	2	20	2.000	-0.55	16	0.84	0.17	-0.12	2.000	2.000	2.00	72.32	72.32
4%		16	-2.4	72	105	30	61	8	5	1	19	1.000	-0.55	15	0.82	0.15	-0.12	1.000	1.000	1.00	71.69	71.69
5%		16	-2.1	71	104	30	61	8	5	1	19	1.000	-0.54	14	0.81	0.13	-0.11	1.000	1.000	1.00	70.93	70.93
10%		15	-1.3	68	99	28	59	7	4	1	18	1.000	-0.53	11	0.78	0.09	-0.11	1.000	1.000	1.00	68.81	68.81
15%		14	-0.8	66	95	28	58	7	4	1	17	1.000	-0.52	10	0.75	0.06	-0.11	1.000	1.000	1.00	67.44	67.44
20%		13	-0.4	64	93	27	57	6	3	1	17	1.000	-0.51	9	0.73	0.04	-0.11	1.000	1.000	1.00	66.45	66.45
25%		13	-0.1	63	90	26	56	6	3	1	16	1.000	-0.50	8	0.72	0.03	-0.11	1.000	1.000	1.00	65.67	65.67
30%		12	0.2	62	88	26	55	6	2	0	16	0.000	-0.50	7	0.70	0.01	-0.10	0.000	0.000	0.00	64.91	64.91
35%		12	0.4	61	87	26	55	5	2	0	16	0.000	-0.49	6	0.69	0.00	-0.10	0.000	0.000	0.00	64.24	64.24
40%		12	0.6	60	85	25	54	5	2	0	15	0.000	-0.49	6	0.68	-0.01	-0.10	0.000	0.000	0.00	63.64	63.64
45%		11	0.8	58	83	25	54	5	2	0	15	0.000	-0.48	5	0.66	-0.02	-0.10	0.000	0.000	0.00	63.01	63.01
50%		11	1.0	57	81	24	53	5	1	0	15	0.000	-0.48	5	0.65	-0.03	-0.10	0.000	0.000	0.00	62.48	62.48
55%		11	1.2	56	80	24	53	4	1	0	14	0.000	-0.47	4	0.64	-0.03	-0.10	0.000	0.000	0.00	61.89	61.89
60%		10	1.4	55	78	24	52	4	1	0	14	0.000	-0.46	4	0.63	-0.04	-0.10	0.000	0.000	0.00	61.38	61.38
65%		10	1.6	54	76	23	51	4	1	0	14	0.000	-0.46	3	0.62	-0.05	-0.09	0.000	0.000	0.00	60.81	60.81
70%		10	1.9	53	74	23	51	4	1	0	13	0.000	-0.45	2	0.61	-0.06	-0.09	0.000	0.000	0.00	60.21	60.21
75%		9	2.1	52	72	22	50	3	0	0	13	0.000	-0.44	2	0.59	-0.07	-0.09	0.000	0.000	0.00	59.57	59.57
80%		9	2.4	50	70	22	49	3	0	-1	12	-1.000	-0.42	1	0.58	-0.08	-0.09	-1.000	-1.000	-1.00	58.79	58.79
85%		8	2.7	49	67	21	48	2	0	-1	12	-1.000	-0.41	0	0.55	-0.09	-0.08	-1.000	-1.000	-1.00	57.93	57.93
90%		7	3.1	47	64	20	47	2	-1	-1	11	-1.000	-0.38	-1	0.52	-0.10	-0.08	-1.000	-1.000	-1.00	56.83	56.83
95%		6	3.8	44	59	19	45	1	-1	-1	10	-1.000	-0.32	-3	0.45	-0.13	-0.06	-1.000	-1.000	-1.00	55.15	55.15

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Genetic Trends

Year	# Head	Expected Progeny Differences										Index Values										
		Growth and Maternal					Intake and Carcass					\$Cow	FPI	EPI								
CED	BW	WW	YW	Milk	TM	CEM	HP	PG30	STAY	DMI	YG				CW	CREA	MARB	CFAT	ADG	RFI		
1998	6274	9	2.2	48	63	22	47	3	-1	0	12	0.000	-0.51	1	0.64	-0.05	-0.11	-0.038	0.000	86.39	53.82	47.09
1999	6802	9	2.1	48	64	22	47	3	-1	0	12	-0.001	-0.51	1	0.64	-0.05	-0.11	-0.035	-0.000	87.31	54.31	48.94
2000	7317	9	2.0	49	65	22	48	4	-1	0	12	0.000	-0.51	1	0.64	-0.05	-0.11	-0.037	0.001	84.51	55.00	51.11
2001	7939	9	1.9	49	66	22	48	3	-1	0	12	-0.000	-0.51	1	0.65	-0.05	-0.11	-0.036	0.000	85.87	55.30	49.22
2002	7565	10	1.8	50	68	23	48	4	-0	-0	12	-0.001	-0.51	1	0.65	-0.05	-0.11	-0.039	0.001	86.65	56.04	49.96
2003	7131	10	1.7	51	68	23	48	4	-0	0	12	-0.000	-0.50	2	0.65	-0.05	-0.10	-0.036	-0.001	87.66	56.44	52.19
2004	6752	10	1.7	52	71	23	49	4	0	0	12	-0.001	-0.50	2	0.66	-0.05	-0.10	-0.035	-0.001	88.72	57.07	56.08
2005	6423	10	1.6	52	71	23	49	4	0	0	13	-0.000	-0.49	2	0.65	-0.05	-0.10	-0.034	-0.001	87.29	57.43	55.78
2006	5953	10	1.5	52	72	23	49	4	1	-0	13	0.001	-0.49	2	0.65	-0.05	-0.10	-0.035	-0.001	89.99	57.81	55.98
2007	4955	10	1.5	53	73	23	50	4	1	0	13	0.005	-0.49	2	0.65	-0.05	-0.10	-0.028	0.002	89.27	58.20	60.74
2008	4555	10	1.4	53	74	23	50	4	1	0	13	0.002	-0.49	3	0.65	-0.05	-0.10	-0.033	-0.002	94.06	58.48	60.52
2009	3807	10	1.5	55	76	23	51	4	1	0	14	0.005	-0.48	3	0.65	-0.05	-0.10	-0.031	0.001	94.65	59.41	62.79
2010	3451	10	1.4	55	77	23	51	4	1	0	14	0.024	-0.49	3	0.65	-0.05	-0.10	-0.028	0.008	99.02	59.62	65.07
2011	3489	10	1.5	56	78	23	51	4	1	0	13	0.004	-0.49	4	0.66	-0.05	-0.10	-0.029	-0.000	97.30	60.11	63.51
2012	3319	11	1.3	56	78	24	52	4	1	0	14	0.009	-0.49	4	0.67	-0.04	-0.10	-0.024	-0.000	102.62	60.55	69.74
2013	3461	10	1.3	56	80	24	52	4	1	0	14	0.001	-0.48	4	0.66	-0.04	-0.10	-0.023	-0.005	100.14	61.09	69.39
2014	3362	11	1.2	56	80	24	52	4	2	0	14	-0.047	-0.47	4	0.65	-0.03	-0.10	-0.023	-0.016	109.45	61.40	82.91
2015	3282	11	1.0	56	80	24	52	5	2	0	14	0.008	-0.47	4	0.65	-0.03	-0.10	-0.025	-0.000	107.68	61.81	70.78
2016	3274	11	1.0	56	80	24	52	4	2	0	14	-0.001	-0.46	5	0.65	-0.02	-0.10	-0.031	0.002	111.91	61.91	69.97
2017	2966	11	1.0	58	82	24	53	5	2	0	14	-0.006	-0.46	5	0.66	-0.01	-0.10	-0.027	-0.001	110.00	63.04	71.21