

Pan American Hereford Cattle Evaluation

Genetic Trend

EPDs as of May 21, 2018

Includes:

Genetic Trend: EPD and \$ Index Means by Birth Year Group

Averages and Percentile Breakdown - Active Sires

Averages and Percentile Breakdown - Active Dams

Averages and Percentile Breakdown - 2016 & 2017 Calves



EPDs as of May 21, 2018
Pan American Hereford Cattle Evaluation

Genetic Trend: EPD & \$ Index Means - All Animals - By Birth Year Group Count

Birth Yr.	Count	CED	BW	WW	YW	DMI	SC	SCF	MM	M&G	CEM	MCW	UDDR	TEAT	CW	FAT	REA	MARB	BMI	BII	CHB	Count
86	5,431	2.0	2.6	25.3	45.3	-0.44	0.2	8.8	12.5	25.2	1.1	57.6	1.02	1.01	41.1	-0.019	0.05	0.05	14.96	12.34	22.43	5,431
87	6,507	1.8	2.7	26.3	46.9	-0.44	0.2	8.6	12.2	25.3	1.0	60.2	1.02	1.01	41.1	-0.019	0.05	0.05	14.72	12.22	22.54	6,507
88	8,490	1.7	2.8	27.3	48.4	-0.44	0.2	8.3	12.2	25.8	0.9	62.3	1.01	1.00	41.4	-0.019	0.05	0.05	14.48	12.08	22.67	8,490
89	9,731	1.5	2.9	28.1	49.8	-0.43	0.2	8.3	12.2	26.3	1.1	63.9	1.01	1.00	41.7	-0.018	0.05	0.05	14.48	12.11	22.79	9,731
90	11,670	1.4	3.0	28.6	50.7	-0.43	0.3	8.3	12.1	26.5	1.0	65.7	1.01	1.00	41.9	-0.018	0.05	0.05	14.52	12.17	22.90	11,670
91	13,559	1.4	3.0	29.2	51.4	-0.43	0.3	8.0	12.1	26.8	0.9	66.7	1.01	1.00	42.0	-0.017	0.05	0.04	14.25	11.99	22.97	13,559
92	15,367	1.2	3.1	30.0	52.5	-0.43	0.3	7.9	12.3	27.3	0.8	67.8	1.01	1.00	42.4	-0.016	0.05	0.04	14.13	11.93	23.04	15,367
93	17,930	1.2	3.1	30.4	53.1	-0.42	0.3	7.8	12.4	27.6	0.8	68.4	1.01	1.00	42.6	-0.016	0.05	0.04	14.11	11.93	23.16	17,930
94	19,890	1.1	3.2	30.9	53.8	-0.42	0.3	7.7	12.6	28.1	0.7	68.9	1.02	1.00	43.0	-0.015	0.06	0.04	14.02	11.89	23.32	19,890
95	22,281	1.1	3.2	31.6	54.7	-0.41	0.3	7.6	12.9	28.7	0.7	69.7	1.02	1.01	43.6	-0.014	0.06	0.04	14.00	11.91	23.47	22,281
96	25,046	1.0	3.3	32.2	55.6	-0.40	0.4	7.6	13.2	29.3	0.7	70.8	1.02	1.01	44.0	-0.014	0.06	0.04	14.05	11.98	23.54	25,046
97	27,459	0.8	3.4	32.6	56.1	-0.40	0.4	7.5	13.4	29.7	0.6	70.8	1.02	1.01	44.3	-0.014	0.07	0.04	13.92	11.89	23.65	27,459
98	32,839	0.7	3.4	33.2	56.9	-0.39	0.4	7.4	13.5	30.1	0.6	71.5	1.03	1.02	44.8	-0.013	0.07	0.04	13.88	11.90	23.77	32,839
99	34,368	0.5	3.5	33.8	57.8	-0.38	0.4	7.4	13.6	30.5	0.6	72.6	1.03	1.02	45.3	-0.013	0.08	0.04	13.91	11.95	23.92	34,368
00	34,831	0.2	3.6	34.8	59.1	-0.35	0.4	7.6	14.0	31.4	0.4	73.5	1.03	1.02	46.1	-0.012	0.08	0.04	14.13	12.15	24.07	34,831
01	114,913	0.4	3.6	34.5	58.9	-0.36	0.4	7.7	13.9	31.2	0.6	73.3	1.03	1.02	46.1	-0.012	0.08	0.04	14.33	12.29	24.15	114,913
02	110,375	0.2	3.7	35.5	60.2	-0.34	0.5	7.9	14.3	32.1	0.5	74.3	1.04	1.02	47.0	-0.011	0.10	0.04	14.59	12.53	24.37	110,375
03	109,246	0.2	3.6	36.6	61.8	-0.31	0.5	8.2	14.7	33.1	0.6	75.3	1.04	1.03	48.1	-0.010	0.11	0.04	14.93	12.84	24.66	109,246
04	107,842	0.1	3.7	37.7	63.3	-0.27	0.5	8.6	15.2	34.1	0.7	76.5	1.04	1.03	49.2	-0.010	0.13	0.04	15.41	13.25	24.87	107,842
05	104,931	-0.1	3.7	39.0	65.1	-0.24	0.5	9.0	16.0	35.5	0.6	77.8	1.05	1.04	50.4	-0.009	0.15	0.04	16.02	13.75	25.19	104,931
06	103,746	-0.1	3.7	40.0	66.7	-0.21	0.6	9.4	16.6	36.6	0.7	78.5	1.05	1.04	51.6	-0.008	0.17	0.05	16.52	14.18	25.51	103,746
07	101,786	0.0	3.7	41.3	68.5	-0.18	0.6	9.8	17.2	37.8	0.8	79.7	1.06	1.05	52.9	-0.006	0.19	0.05	17.06	14.65	25.83	101,786
08	98,613	0.0	3.7	42.2	69.9	-0.15	0.6	10.3	17.8	38.9	0.8	80.4	1.06	1.05	53.9	-0.005	0.20	0.06	17.60	15.11	26.08	98,613
09	96,389	0.1	3.6	43.3	71.4	-0.12	0.7	10.7	18.4	40.1	0.9	81.3	1.07	1.06	55.0	-0.003	0.22	0.06	18.18	15.61	26.36	96,389
10	96,549	0.2	3.6	44.4	72.9	-0.08	0.7	11.1	19.0	41.2	1.0	82.4	1.08	1.07	56.2	-0.003	0.24	0.06	18.70	16.05	26.67	96,549
11	96,163	0.4	3.6	45.4	74.2	-0.05	0.7	11.6	19.6	42.4	1.1	83.1	1.09	1.08	57.2	-0.001	0.26	0.07	19.27	16.54	26.88	96,163
12	94,621	0.7	3.5	46.5	75.7	-0.02	0.8	12.1	20.3	43.6	1.2	84.0	1.10	1.10	58.3	0.000	0.28	0.07	19.92	17.08	27.14	94,621
13	94,454	0.9	3.4	47.4	77.0	0.01	0.8	12.7	21.1	44.9	1.3	85.0	1.12	1.12	59.3	0.002	0.29	0.08	20.64	17.66	27.39	94,454
14	95,917	1.1	3.3	48.5	78.5	0.04	0.8	13.2	21.9	46.2	1.5	85.9	1.14	1.14	60.6	0.004	0.32	0.09	21.24	18.19	27.71	95,917
15	99,353	1.3	3.2	49.4	79.8	0.07	0.8	13.6	22.5	47.2	1.6	86.9	1.15	1.15	61.6	0.006	0.33	0.09	21.80	18.66	27.94	99,353
16	97,960	1.6	3.1	50.4	81.2	0.11	0.9	14.0	23.2	48.4	1.7	87.8	1.17	1.17	62.7	0.008	0.35	0.10	22.37	19.16	28.24	97,960
17	88,579	1.8	3.1	51.6	83.0	0.15	0.9	14.3	23.7	49.5	1.9	89.2	1.18	1.19	64.1	0.010	0.37	0.11	22.73	19.50	28.55	88,579

Percentile Breakdowns of EPDs

A percentile chart can be used to get a better idea of how an animal ranks in the current group of equivalent animals in the Hereford population in North America, Argentina and Uruguay. The charts are divided into five-percent increments for each trait. The top five percent are further divided into one-percent increments.

Hereford cattle can be grouped into three very broad categories. The first would be active sires in the Pan American Hereford population. These are bulls who have sired at least ten total calves in the last three years. Your herdsire or potential herdsire can be compared to this population of bulls. Very few bulls rank at the top in every trait because of inherent genetic correlations. With careful evaluation you should be able to find bulls to match your specifications. Note, no animal will fall exactly on all even percentile increments. Simply utilize the even percentile level in which the EPD has exceeded.

Since EPDs may be used to compare animals in addition to active sires, additional information is provided. The average EPDs, ranges and a percentile breakdown for yearling and two-year-old cattle born in 2016 and 2017 are also provided. This table is useful for comparing the EPDs of animals that are typically for sale or a potential herd replacement candidate.

The breakdown chart and EPD ranges for the active cows with a calf reported since Jan. 1, 2016 allow one to compare his herd with all active cows in the Hereford population in North America, Argentina and Uruguay.

American Hereford Association
EPDs as of May 21, 2018
Pan American Hereford Cattle Evaluation

Average and Percentile Breakdown - 2016 & 2017 Calves

	Production				Fertility				Maternal				Carcass				\$ Indexes			
	CED	BW	WW	YW	DMI	SC	SCF	MM	M&G	CEM	MCW	UDDR	TEAT	CW	FAT	REA	MARB	BMI	BII	CHB
Average	1.7	3.1	51	82	0.1	0.9	14.2	24	49	1.9	89	1.2	1.2	64	0.009	0.36	0.11	23	19	28
Low	-18.1	-6.6	-4	-15	-1.4	-0.8	-4.5	-1	-2	-14.8	-15	0.5	0.3	-3	-0.115	-0.52	-0.73	2	3	3
High	20.3	14.0	90	146	1.7	2.8	31.4	48	79	18.5	187	1.9	1.9	109	0.155	1.41	1.14	41	33	48
Percentile Breakdown																				
Upper 1%	12.4	-1.4	70	113	-0.6	1.7	22.4	37	66	9.3	45	1.5	1.5	86	-0.045	0.76	0.44	32	27	37
2%	11.2	-0.8	68	109	-0.5	1.6	21.5	35	64	8.4	51	1.5	1.5	83	-0.035	0.70	0.38	31	26	36
3%	10.5	-0.5	66	107	-0.4	1.5	21.0	34	63	7.8	55	1.4	1.5	81	-0.035	0.67	0.35	30	26	35
4%	9.9	-0.2	65	105	-0.4	1.5	20.5	33	62	7.3	57	1.4	1.4	80	-0.025	0.64	0.33	30	25	34
5%	9.4	0.0	64	104	-0.3	1.4	20.2	33	61	7.0	59	1.4	1.4	79	-0.025	0.62	0.31	30	25	34
10%	7.7	0.8	61	99	-0.2	1.3	19.0	30	58	5.8	66	1.3	1.4	75	-0.015	0.56	0.25	28	24	33
15%	6.6	1.3	59	96	-0.2	1.2	18.2	29	57	5.1	71	1.3	1.3	73	-0.015	0.52	0.22	27	23	32
20%	5.7	1.6	58	93	-0.1	1.2	17.5	28	55	4.5	74	1.3	1.3	71	-0.015	0.49	0.19	26	22	31
25%	4.9	1.9	57	91	-0.1	1.1	16.9	27	54	4.0	77	1.3	1.3	70	-0.005	0.47	0.17	26	22	31
30%	4.2	2.2	55	89	0.0	1.1	16.4	26	53	3.5	80	1.2	1.3	68	-0.005	0.44	0.15	25	21	30
35%	3.5	2.4	54	87	0.0	1.0	15.9	25	52	3.1	82	1.2	1.2	67	-0.005	0.42	0.14	25	21	30
40%	2.9	2.7	53	86	0.1	1.0	15.4	25	51	2.7	85	1.2	1.2	66	0.005	0.40	0.12	24	20	29
45%	2.3	2.9	52	84	0.1	0.9	14.9	24	50	2.3	87	1.2	1.2	65	0.005	0.38	0.11	23	20	29
50%	1.7	3.1	51	83	0.1	0.9	14.4	23	49	1.9	89	1.2	1.2	64	0.005	0.36	0.10	23	20	28
55%	1.2	3.3	50	81	0.2	0.8	13.9	23	48	1.6	91	1.2	1.2	63	0.015	0.35	0.08	22	19	28
60%	0.6	3.5	49	79	0.2	0.8	13.5	22	48	1.2	93	1.1	1.1	61	0.015	0.33	0.07	22	19	28
65%	0.0	3.7	48	78	0.2	0.8	12.9	22	47	0.7	95	1.1	1.1	60	0.015	0.30	0.06	21	18	27
70%	-0.7	4.0	47	76	0.3	0.7	12.4	21	46	0.3	98	1.1	1.1	59	0.025	0.28	0.05	21	18	27
75%	-1.4	4.2	46	74	0.3	0.7	11.8	20	44	-0.2	100	1.1	1.1	58	0.025	0.26	0.03	20	17	26
80%	-2.2	4.5	45	72	0.4	0.6	11.1	19	43	-0.7	103	1.1	1.1	56	0.025	0.23	0.02	19	17	26
85%	-3.1	4.9	43	69	0.4	0.6	10.3	18	42	-1.3	106	1.0	1.0	54	0.035	0.20	0.00	18	16	25
90%	-4.2	5.3	41	66	0.5	0.5	9.2	17	40	-2.2	111	1.0	1.0	52	0.045	0.16	-0.02	17	15	24
95%	-5.9	6.0	38	61	0.6	0.4	7.4	15	37	-3.4	117	1.0	0.9	49	0.055	0.10	-0.05	15	13	23
100%	-18.1	14.0	-4	-15	1.7	-0.8	-4.5	-1	-2	-14.8	187	0.5	0.3	-3	0.155	-0.52	-0.73	2	3	3

197,592 calves born in 2016 and 2017

American Hereford Association
EPDs as of May 21, 2018
Pan American Hereford Cattle Evaluation

Average and Percentile Breakdown - Active Sires

	Production				Fertility				Maternal				Carcass			\$ Indexes				
	CED	BW	WW	YW	DMI	SC	SCF	MM	M&G	CEM	MCW	UDDR	TEAT	CW	FAT	REA	MARB	BMI	BII	CHB
Average	1.8	3.0	52	83	0.2	0.9	13.9	24	50	1.8	89	1.2	1.2	64	0.009	0.38	0.11	22	19	29
Low	-17.2	-6.9	2	5	-1.5	-0.7	-11.3	-1	7	-19.4	-15	0.5	0.3	14	-0.115	-0.45	-0.36	-5	-2	11
High	21.8	13.7	90	147	1.8	2.7	36.3	58	87	19	188	2.1	2.1	118	0.145	1.39	1.07	46	36	50
Percentile Breakdown																				
Upper 1%	14.1	-2.3	75	120	-0.7	2.0	25.1	41	70	10.9	34	1.6	1.7	93	-0.055	0.90	0.49	36	30	40
2%	12.7	-1.5	72	116	-0.6	1.8	23.8	38	67	9.8	41	1.5	1.6	89	-0.045	0.83	0.42	34	28	38
3%	11.9	-1.1	70	113	-0.5	1.8	22.9	37	66	9.2	46	1.5	1.5	87	-0.045	0.78	0.38	33	28	37
4%	11.3	-0.7	69	111	-0.5	1.7	22.4	36	65	8.7	49	1.5	1.5	85	-0.035	0.75	0.36	32	27	37
5%	10.7	-0.4	68	110	-0.4	1.6	21.8	35	64	8.2	52	1.5	1.5	84	-0.035	0.72	0.34	32	27	36
10%	8.8	0.4	64	104	-0.3	1.5	20.0	32	61	6.7	60	1.4	1.4	79	-0.025	0.63	0.28	29	25	34
15%	7.6	1.0	62	100	-0.2	1.3	19.0	31	59	5.9	66	1.3	1.4	76	-0.025	0.58	0.24	28	24	33
20%	6.4	1.4	60	97	-0.1	1.2	18.3	29	57	5.1	70	1.3	1.3	74	-0.015	0.55	0.21	27	23	32
25%	5.5	1.7	59	94	-0.1	1.2	17.5	28	56	4.5	75	1.3	1.3	72	-0.015	0.51	0.18	26	22	31
30%	4.7	2.0	57	92	0.0	1.1	16.8	27	54	3.9	78	1.3	1.3	70	-0.005	0.49	0.16	26	22	31
35%	3.9	2.3	56	90	0.0	1.0	16.1	26	53	3.4	81	1.2	1.2	69	-0.005	0.46	0.14	25	21	30
40%	3.2	2.6	55	88	0.1	1.0	15.4	25	52	2.9	84	1.2	1.2	67	-0.005	0.43	0.13	24	21	30
45%	2.4	2.8	53	86	0.1	0.9	14.8	24	51	2.4	87	1.2	1.2	66	0.005	0.41	0.11	23	20	29
50%	1.7	3.1	52	84	0.2	0.9	14.2	24	50	2.0	90	1.2	1.2	65	0.005	0.38	0.09	23	19	28
55%	1.0	3.3	51	82	0.2	0.8	13.5	23	49	1.5	92	1.2	1.2	63	0.015	0.36	0.08	22	19	28
60%	0.3	3.6	50	80	0.2	0.8	12.8	22	48	1.0	95	1.1	1.1	62	0.015	0.33	0.06	21	18	28
65%	-0.3	3.8	48	78	0.3	0.7	12.1	21	47	0.4	98	1.1	1.1	60	0.015	0.30	0.05	20	18	27
70%	-1.0	4.1	47	75	0.3	0.7	11.3	20	46	-0.1	101	1.1	1.1	59	0.025	0.28	0.03	19	17	26
75%	-1.9	4.3	46	73	0.4	0.6	10.5	19	44	-0.7	105	1.1	1.1	57	0.025	0.24	0.01	19	16	26
80%	-2.8	4.7	44	70	0.5	0.6	9.7	18	42	-1.4	108	1.0	1.0	55	0.035	0.21	0.00	18	16	25
85%	-3.9	5.1	42	67	0.5	0.5	8.6	17	41	-2.2	113	1.0	1.0	52	0.045	0.17	-0.02	16	15	25
90%	-5.2	5.6	39	63	0.6	0.4	7.3	16	38	-3.3	119	1.0	0.9	50	0.055	0.11	-0.05	15	13	23
95%	-7.3	6.5	35	57	0.8	0.3	5.2	13	35	-4.8	127	0.9	0.9	45	0.065	0.03	-0.09	13	12	22
100%	-17.2	13.7	2	5	1.8	-0.7	-11.3	-1	7	-19.4	188	0.5	0.3	14	0.145	-0.45	-0.36	-5	-2	11

6,662 sires produced at least 10 calves since January 1, 2016

American Hereford Association
EPDs as of May 21, 2018
Pan American Hereford Cattle Evaluation

Average and Percentile Breakdown - Active Dams																				
	Production			Fertility				Maternal				Carcass				\$ Indexes				
	CED	BW	WW	YW	DMI	SC	SCF	MM	M&G	CEM	MCW	UDDR	TEAT	CW	FAT	REA	MARB	BMI	BII	CHB
Average	0.8	3.4	48	77	0.0	0.8	13.5	22	45	1.4	85	1.1	1.1	60	0.002	0.30	0.08	22	18	27
Low	-18.6	-5.9	-2	-2	-1.6	-0.7	-8.2	-20	-14	-21.2	-45	-0.2	-0.4	6	-0.105	-0.82	-0.43	-2	1	6
High	19.3	13.9	87	141	1.5	3.0	31.1	52	80	20.2	191	2.0	2.1	108	0.175	1.34	0.90	41	33	51
Percentile Breakdown																				
Upper 1%	11.8	-1.0	67	109	-0.7	1.6	23.8	37	65	9.4	37	1.5	1.6	83	-0.055	0.72	0.39	33	27	37
2%	10.5	-0.4	65	105	-0.6	1.5	22.6	35	63	8.4	44	1.5	1.5	80	-0.045	0.67	0.34	32	26	35
3%	9.7	0.0	63	103	-0.5	1.5	21.8	34	61	7.8	48	1.4	1.5	78	-0.035	0.63	0.31	31	26	34
4%	9.1	0.2	62	101	-0.5	1.4	21.3	33	60	7.4	52	1.4	1.5	77	-0.035	0.61	0.29	30	25	34
5%	8.6	0.5	61	100	-0.5	1.4	20.8	32	59	7.0	54	1.4	1.4	76	-0.035	0.59	0.27	30	25	33
10%	6.9	1.2	58	95	-0.4	1.2	19.3	29	56	5.8	62	1.3	1.4	72	-0.025	0.52	0.22	28	23	32
15%	5.7	1.6	56	91	-0.3	1.1	18.2	28	54	4.9	66	1.3	1.3	70	-0.025	0.48	0.18	27	22	31
20%	4.8	2.0	55	89	-0.2	1.0	17.4	27	53	4.3	70	1.3	1.3	68	-0.015	0.44	0.16	26	22	30
25%	4.0	2.3	54	87	-0.2	1.0	16.6	26	51	3.7	73	1.2	1.2	66	-0.015	0.41	0.14	25	21	30
30%	3.3	2.6	52	85	-0.1	0.9	15.9	25	50	3.2	76	1.2	1.2	65	-0.015	0.39	0.12	24	20	29
35%	2.6	2.8	51	83	-0.1	0.9	15.3	24	49	2.8	78	1.2	1.2	63	-0.005	0.36	0.11	23	20	29
40%	2.0	3.0	50	81	-0.1	0.8	14.7	23	48	2.4	81	1.2	1.2	62	-0.005	0.34	0.09	23	19	28
45%	1.4	3.2	49	79	0.0	0.8	14.1	22	47	1.9	83	1.1	1.1	61	-0.005	0.32	0.08	22	19	28
50%	0.8	3.4	48	78	0.0	0.8	13.6	21	46	1.5	85	1.1	1.1	60	-0.005	0.30	0.07	22	18	27
55%	0.2	3.6	47	76	0.1	0.7	13.0	21	45	1.1	88	1.1	1.1	58	0.005	0.28	0.06	21	18	27
60%	-0.3	3.9	46	74	0.1	0.7	12.4	20	43	0.7	90	1.1	1.1	57	0.005	0.26	0.05	20	17	27
65%	-0.9	4.1	45	72	0.1	0.6	11.8	19	42	0.2	92	1.1	1.1	56	0.005	0.23	0.03	20	17	26
70%	-1.6	4.3	44	71	0.2	0.6	11.2	18	41	-0.3	95	1.1	1.0	55	0.015	0.21	0.02	19	16	26
75%	-2.3	4.5	42	69	0.2	0.6	10.5	17	40	-0.8	97	1.0	1.0	53	0.015	0.18	0.01	18	16	25
80%	-3.1	4.8	41	66	0.3	0.5	9.7	16	38	-1.5	100	1.0	1.0	52	0.025	0.16	-0.01	17	15	25
85%	-4.0	5.2	39	64	0.3	0.5	8.9	15	37	-2.2	104	1.0	1.0	50	0.025	0.12	-0.02	16	14	24
90%	-5.1	5.6	37	60	0.4	0.4	7.7	14	35	-3.2	109	0.9	0.9	48	0.035	0.08	-0.04	15	13	23
95%	-6.9	6.3	34	55	0.5	0.3	5.9	12	31	-4.8	117	0.9	0.9	44	0.045	0.02	-0.07	13	12	22
100%	-18.6	13.9	-2	-2	1.5	-0.7	-8.2	-20	-14	-21.2	191	-0.2	-0.4	6	0.175	-0.82	-0.43	-2	1	6

124,835 cows calving since January 1, 2016