

Pan American Hereford Cattle Evaluation

Genetic Trend

EPDs as of May 11, 2020

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 - 2018 & 2019 Calves



EPDs as of May 11, 2020
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
88	24,239	1.4	2.4	26.7	49.0	-0.46	0.2	9.6	12.5	25.9	0.6	63.9	1.03	1.01	44.0	-0.015	0.06	0.04	223.3	258.9	83.8	24,239
89	24,632	1.2	2.6	27.7	50.3	-0.45	0.3	9.6	12.3	26.2	0.8	65.3	1.03	1.01	44.1	-0.015	0.06	0.04	223.3	259.8	83.6	24,632
90	27,581	1.2	2.7	29.0	51.9	-0.44	0.3	9.6	11.8	26.3	0.8	65.3	1.04	1.03	44.4	-0.015	0.06	0.04	223.6	261.3	83.9	27,581
91	29,754	1.2	2.8	29.4	52.4	-0.43	0.3	9.4	12.0	26.7	0.9	66.2	1.04	1.02	44.5	-0.014	0.06	0.04	221.1	259.1	84.0	29,754
92	31,065	1.0	2.9	30.1	53.4	-0.42	0.3	9.2	12.1	27.2	0.8	67.8	1.04	1.02	44.8	-0.014	0.06	0.04	218.4	256.8	84.0	31,065
93	33,022	1.2	2.9	31.1	54.5	-0.42	0.3	9.2	12.0	27.6	0.9	67.9	1.05	1.03	44.9	-0.014	0.06	0.04	217.8	257.2	84.2	33,022
94	35,715	1.0	3.1	31.8	55.4	-0.41	0.3	9.0	12.1	28.0	0.8	68.8	1.05	1.03	45.2	-0.013	0.06	0.03	215.4	255.1	84.4	35,715
95	39,967	1.1	3.1	32.6	56.4	-0.40	0.3	8.9	12.2	28.6	0.8	69.6	1.05	1.03	45.5	-0.013	0.07	0.03	214.2	254.6	84.8	39,967
96	45,231	1.0	3.1	33.8	57.8	-0.39	0.4	8.8	12.4	29.3	0.9	70.1	1.06	1.05	45.8	-0.013	0.07	0.03	214.2	255.7	85.0	45,231
97	46,633	0.9	3.2	34.1	58.3	-0.39	0.4	8.7	12.6	29.7	0.9	70.6	1.06	1.05	46.1	-0.013	0.07	0.03	212.3	254.1	85.2	46,633
98	55,200	0.9	3.2	35.0	59.2	-0.38	0.4	8.6	12.6	30.1	0.9	70.8	1.07	1.06	46.5	-0.013	0.08	0.03	211.4	254.0	85.6	55,200
99	57,526	0.7	3.3	35.4	59.8	-0.36	0.4	8.5	12.9	30.6	0.9	72.2	1.07	1.05	46.9	-0.012	0.08	0.03	210.6	253.6	85.9	57,526
00	56,319	0.6	3.4	35.6	60.2	-0.34	0.4	8.5	13.6	31.4	0.8	73.6	1.05	1.04	47.6	-0.011	0.09	0.03	210.3	253.3	86.2	56,319
01	153,341	0.6	3.5	35.2	59.7	-0.35	0.4	8.3	13.7	31.4	1.0	73.9	1.05	1.03	47.7	-0.010	0.08	0.03	208.3	250.8	86.4	153,341
02	144,749	0.4	3.5	36.1	60.8	-0.33	0.5	8.4	14.2	32.2	0.9	74.8	1.05	1.04	48.4	-0.009	0.09	0.03	210.6	254.1	86.9	144,749
03	144,862	0.5	3.5	37.0	62.2	-0.31	0.5	8.5	14.5	33.0	1.0	75.6	1.05	1.04	49.4	-0.008	0.10	0.03	213.1	257.4	87.7	144,862
04	145,444	0.5	3.6	37.9	63.4	-0.27	0.5	8.9	14.9	33.9	1.0	76.2	1.06	1.04	50.1	-0.008	0.12	0.03	218.5	264.0	88.2	145,444
05	140,995	0.3	3.6	39.0	65.0	-0.24	0.5	9.2	15.5	35.0	1.0	77.5	1.06	1.05	51.2	-0.007	0.14	0.03	225.4	272.2	89.1	140,995
06	138,394	0.3	3.6	39.9	66.3	-0.22	0.6	9.5	16.1	36.1	0.9	78.3	1.06	1.05	52.2	-0.006	0.15	0.04	230.2	278.2	89.9	138,394
07	134,283	0.4	3.6	41.0	67.9	-0.18	0.6	9.8	16.6	37.1	1.0	79.3	1.07	1.05	53.3	-0.005	0.17	0.04	235.7	285.1	90.8	134,283
08	131,795	0.4	3.5	41.7	68.9	-0.16	0.6	10.2	17.1	38.0	1.0	79.7	1.07	1.06	54.0	-0.004	0.18	0.04	242.3	292.9	91.4	131,795
09	126,973	0.6	3.5	42.7	70.2	-0.13	0.6	10.6	17.6	39.0	1.1	80.3	1.08	1.07	54.9	-0.003	0.20	0.05	249.1	301.2	92.2	126,973
10	129,953	0.6	3.5	43.6	71.5	-0.10	0.7	11.0	18.2	40.0	1.2	81.2	1.08	1.07	56.0	-0.002	0.22	0.05	255.9	309.1	93.1	129,953
11	129,168	0.8	3.4	44.4	72.6	-0.07	0.7	11.4	18.7	40.9	1.2	81.7	1.09	1.08	56.9	-0.001	0.23	0.05	262.6	317.2	93.6	129,168
12	128,703	0.9	3.3	45.3	73.8	-0.04	0.7	11.9	19.3	42.0	1.2	82.4	1.10	1.09	57.7	0.000	0.25	0.05	270.9	326.7	94.3	128,703
13	127,792	1.1	3.3	46.1	75.0	-0.01	0.7	12.5	20.0	43.1	1.3	83.0	1.11	1.11	58.7	0.002	0.26	0.06	280.7	337.8	95.1	127,792
14	125,919	1.3	3.2	47.1	76.5	0.02	0.8	13.1	20.7	44.3	1.4	83.6	1.13	1.13	59.8	0.004	0.28	0.06	290.5	349.2	96.0	125,919
15	130,574	1.5	3.2	48.1	78.0	0.05	0.8	13.5	21.3	45.4	1.5	84.7	1.14	1.14	60.8	0.005	0.30	0.07	297.6	357.8	96.8	130,574
16	130,760	1.6	3.1	49.2	79.5	0.08	0.8	14.0	22.1	46.7	1.5	85.5	1.16	1.16	61.9	0.007	0.32	0.07	306.8	368.9	97.9	130,760
17	131,823	1.9	3.0	50.2	81.1	0.12	0.9	14.4	22.6	47.7	1.6	86.5	1.17	1.18	63.0	0.009	0.34	0.08	313.3	376.8	98.7	131,823
18	125,612	2.2	3.0	51.2	82.6	0.15	0.9	14.8	23.2	48.8	1.8	87.5	1.19	1.19	64.0	0.011	0.35	0.09	321.1	386.6	99.7	125,612
19	97,294	2.8	2.8	52.7	84.7	0.20	1.0	15.4	24.4	50.8	2.2	88.7	1.21	1.22	65.6	0.013	0.37	0.10	332.5	400.8	100.8	97,294

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 2018 and 2019 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, 2018 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 11, 2020
Pan American Hereford Cattle Evaluation

Average and Percentile Breakdown - 2018 & 2019 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	2.5	2.9	52	84	0.2	0.9	15.1	24	50	2.0	88	1.2	1.2	65	0.012	0.36	0.10	327	394	100
Low	-18.5	-7.6	-13	-27	-1.4	-1.4	-10.5	-2	-5	-16.0	-25	0.5	0.5	-5	-0.106	-0.75	-0.43	-63	-13	4
High	22.6	12.8	88	153	1.6	2.9	31.9	50	86	16.4	181	2.0	2.0	120	0.144	1.39	1.22	576	652	173
Percentile Breakdown																				
Upper 1%	13.7	-3.0	71	115	-0.8	1.8	23.2	37	67	9.0	28	1.5	1.6	88	-0.036	0.78	0.49	456	543	131
2%	12.5	-1.4	69	112	-0.5	1.7	22.3	35	65	8.1	46	1.5	1.5	85	-0.036	0.72	0.42	442	528	126
3%	11.7	-0.8	67	109	-0.4	1.6	21.8	34	64	7.6	51	1.5	1.5	83	-0.026	0.69	0.38	434	518	124
4%	11.0	-0.5	66	107	-0.3	1.5	21.4	33	63	7.2	55	1.4	1.5	82	-0.026	0.66	0.35	428	510	122
5%	10.5	-0.2	66	106	-0.3	1.5	21.1	33	62	6.9	58	1.4	1.5	81	-0.026	0.64	0.33	422	504	120
10%	8.6	0.6	63	101	-0.2	1.4	19.9	31	60	5.8	66	1.4	1.4	77	-0.016	0.58	0.25	403	481	115
15%	7.3	1.1	61	98	-0.1	1.3	19.1	30	58	5.0	71	1.3	1.4	75	-0.016	0.53	0.21	390	465	112
20%	6.3	1.5	59	95	-0.1	1.2	18.5	29	57	4.5	74	1.3	1.3	73	-0.006	0.50	0.18	380	453	110
25%	5.5	1.8	58	93	0.0	1.2	17.9	28	56	4.0	78	1.3	1.3	71	-0.006	0.47	0.16	371	441	108
30%	4.8	2.1	57	91	0.0	1.1	17.4	27	55	3.5	80	1.3	1.3	70	-0.006	0.45	0.14	362	431	106
35%	4.1	2.3	56	89	0.1	1.1	16.8	26	54	3.1	83	1.2	1.3	69	0.004	0.43	0.12	354	422	104
40%	3.5	2.5	55	88	0.1	1.0	16.3	25	53	2.7	85	1.2	1.2	67	0.004	0.41	0.11	346	414	103
45%	2.9	2.7	54	86	0.2	1.0	15.8	25	52	2.4	87	1.2	1.2	66	0.004	0.39	0.09	338	405	102
50%	2.4	2.9	53	85	0.2	0.9	15.3	24	51	2.0	89	1.2	1.2	65	0.014	0.37	0.08	331	397	100
55%	1.8	3.2	52	83	0.2	0.9	14.8	23	50	1.6	91	1.2	1.2	64	0.014	0.35	0.07	323	389	99
60%	1.3	3.4	51	81	0.3	0.8	14.3	23	49	1.3	93	1.2	1.2	63	0.014	0.33	0.05	315	380	98
65%	0.7	3.6	50	80	0.3	0.8	13.8	22	48	0.9	96	1.1	1.1	62	0.024	0.31	0.04	307	371	96
70%	0.1	3.8	48	78	0.3	0.8	13.2	21	47	0.5	98	1.1	1.1	61	0.024	0.28	0.03	298	361	95
75%	-0.6	4.1	47	76	0.4	0.7	12.5	21	45	0.0	100	1.1	1.1	59	0.024	0.26	0.01	288	350	93
80%	-1.3	4.3	46	74	0.4	0.7	11.8	20	44	-0.5	103	1.1	1.1	58	0.034	0.23	0.00	276	337	92
85%	-2.2	4.7	44	71	0.5	0.6	11.1	18	42	-1.1	106	1.1	1.1	56	0.034	0.19	-0.02	263	322	89
90%	-3.3	5.1	42	67	0.5	0.5	10.1	17	40	-1.8	110	1.0	1.0	53	0.044	0.15	-0.04	247	303	87
95%	-5.0	5.8	38	61	0.7	0.4	8.5	14	36	-2.9	116	1.0	1.0	49	0.054	0.08	-0.08	222	278	82
100%	-18.5	12.8	-13	-27	1.6	-1.4	-10.5	-2	-5	-16.0	181	0.5	0.5	-5	0.144	-0.75	-0.43	-63	-13	4

233,115 calves born in 2018 and 2019

American Hereford Association
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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	2.6	2.8	52	84	0.2	0.9	14.8	24	50	1.9	88	1.2	1.2	65	0.013	0.37	0.09	323	390	101
Low	-15.8	-7.3	-13	-31	-1.5	-1.1	-15.2	-8	-5	-15.7	-23	0.4	0.4	5	-0.106	-0.63	-0.49	-105	-56	24
High	22.8	11.0	88	144	1.8	2.9	35.5	64	93	17.0	175	2.2	2.2	121	0.154	1.39	1.18	616	690	169
Percentile Breakdown																				
Upper 1%	14.8	-3.8	75	122	-0.9	2.0	25.2	40	70	10.5	18	1.6	1.7	94	-0.056	0.92	0.56	486	575	139
2%	13.5	-2.4	72	117	-0.7	1.9	23.8	38	68	9.2	31	1.5	1.6	90	-0.046	0.84	0.47	469	554	134
3%	12.9	-1.6	70	115	-0.5	1.8	23.1	37	66	8.6	39	1.5	1.6	88	-0.046	0.78	0.42	456	539	131
4%	12.2	-1.0	69	112	-0.4	1.7	22.6	36	65	8.2	43	1.5	1.5	86	-0.036	0.75	0.38	448	530	129
5%	11.5	-0.8	68	111	-0.4	1.7	22.2	35	64	7.7	46	1.5	1.5	85	-0.036	0.73	0.36	441	524	127
10%	9.6	0.2	65	105	-0.2	1.5	20.9	33	62	6.5	57	1.4	1.4	81	-0.026	0.64	0.27	418	497	120
15%	8.2	0.7	63	101	-0.2	1.4	19.9	31	60	5.6	64	1.4	1.4	77	-0.016	0.59	0.23	402	478	116
20%	7.2	1.2	61	98	-0.1	1.3	19.1	30	58	4.9	69	1.3	1.4	75	-0.016	0.55	0.20	390	463	113
25%	6.2	1.6	59	96	0.0	1.2	18.4	29	57	4.3	74	1.3	1.3	73	-0.006	0.51	0.17	378	449	110
30%	5.4	1.9	58	93	0.0	1.2	17.8	28	55	3.8	77	1.3	1.3	72	-0.006	0.48	0.15	367	437	108
35%	4.6	2.2	57	91	0.1	1.1	17.1	27	54	3.4	81	1.3	1.3	70	0.004	0.45	0.13	358	425	106
40%	3.8	2.4	55	89	0.1	1.0	16.4	26	53	2.8	84	1.2	1.2	69	0.004	0.42	0.11	347	415	104
45%	3.2	2.7	54	87	0.2	1.0	15.8	25	52	2.4	87	1.2	1.2	67	0.004	0.40	0.10	337	404	102
50%	2.5	2.9	53	85	0.2	0.9	15.1	24	51	1.9	90	1.2	1.2	66	0.014	0.37	0.08	328	393	100
55%	1.8	3.2	52	83	0.2	0.9	14.5	23	50	1.5	93	1.2	1.2	64	0.014	0.35	0.06	318	383	98
60%	1.1	3.4	51	81	0.3	0.8	13.8	22	49	1.1	95	1.2	1.2	63	0.014	0.32	0.05	307	373	97
65%	0.4	3.7	49	79	0.3	0.8	13.0	22	48	0.6	98	1.1	1.1	62	0.024	0.29	0.03	296	360	95
70%	-0.2	3.9	48	77	0.4	0.7	12.3	21	46	0.1	101	1.1	1.1	60	0.024	0.26	0.01	284	347	93
75%	-0.9	4.2	47	75	0.4	0.7	11.5	19	45	-0.5	104	1.1	1.1	58	0.034	0.23	-0.01	270	332	91
80%	-1.8	4.5	45	72	0.5	0.6	10.6	18	43	-1.1	108	1.1	1.1	56	0.034	0.19	-0.03	257	316	89
85%	-2.8	4.9	43	69	0.6	0.5	9.7	17	41	-1.8	112	1.0	1.0	54	0.044	0.14	-0.05	242	300	86
90%	-4.1	5.4	40	64	0.7	0.4	8.5	15	38	-2.8	118	1.0	1.0	50	0.054	0.09	-0.08	223	280	82
95%	-6.1	6.2	35	57	0.8	0.3	6.5	12	33	-4.1	127	1.0	0.9	45	0.064	0.00	-0.12	191	245	75
100%	-15.8	11.0	-13	-31	1.8	-1.1	-15.2	-8	-5	-15.7	175	0.4	0.4	5	0.154	-0.63	-0.49	-105	-56	24

7,887 sires produced at least 10 calves since January 1, 2018

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	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	1.6	3.2	49	79	0.1	0.8	14.4	22	46	1.6	85	1.2	1.2	61	0.006	0.31	0.07	311	373	97
Low	-17.8	-7.8	-11	-20	-1.5	-1.1	-13.2	-9	-5	-22.3	-26	0.0	-0.1	-2	-0.106	-0.83	-0.48	-109	-73	12
High	20.7	12.1	84	147	1.6	2.7	32.9	52	86	17.8	210	1.9	2.2	123	0.184	1.39	0.93	577	673	202
Percentile Breakdown																				
Upper 1%	13.4	-3.6	68	111	-0.9	1.7	24.6	37	66	9.4	17	1.5	1.6	85	-0.046	0.76	0.44	469	548	129
2%	12.1	-1.3	66	107	-0.6	1.6	23.4	35	64	8.4	35	1.5	1.5	82	-0.036	0.69	0.37	451	529	124
3%	11.2	-0.6	65	105	-0.5	1.5	22.7	34	63	7.8	43	1.5	1.5	80	-0.036	0.66	0.33	440	517	121
4%	10.5	-0.2	64	103	-0.5	1.4	22.2	33	61	7.3	47	1.4	1.5	78	-0.036	0.63	0.30	431	507	119
5%	9.8	0.1	63	102	-0.4	1.4	21.8	33	61	6.9	50	1.4	1.5	77	-0.036	0.61	0.27	425	500	117
10%	7.8	0.9	60	97	-0.3	1.3	20.3	30	58	5.7	60	1.4	1.4	74	-0.026	0.54	0.21	401	473	112
15%	6.5	1.4	58	93	-0.2	1.2	19.2	29	56	4.9	65	1.3	1.3	71	-0.016	0.49	0.18	385	454	109
20%	5.4	1.8	56	91	-0.2	1.1	18.4	27	54	4.3	70	1.3	1.3	69	-0.016	0.45	0.15	372	439	106
25%	4.6	2.1	55	88	-0.1	1.0	17.6	26	53	3.7	73	1.2	1.3	68	-0.006	0.42	0.13	361	426	104
30%	3.9	2.4	54	86	-0.1	1.0	16.9	25	51	3.3	76	1.2	1.2	66	-0.006	0.40	0.11	351	415	103
35%	3.2	2.6	52	84	0.0	0.9	16.3	24	50	2.8	79	1.2	1.2	65	-0.006	0.37	0.10	341	404	101
40%	2.6	2.9	51	83	0.0	0.9	15.7	24	49	2.4	81	1.2	1.2	64	-0.006	0.35	0.08	331	394	100
45%	2.0	3.1	50	81	0.0	0.8	15.1	23	48	2.0	84	1.2	1.2	63	0.004	0.33	0.07	322	384	98
50%	1.4	3.3	49	79	0.1	0.8	14.4	22	47	1.6	86	1.1	1.1	62	0.004	0.30	0.06	313	374	97
55%	0.9	3.5	48	78	0.1	0.8	13.8	21	46	1.3	88	1.1	1.1	60	0.004	0.28	0.04	304	364	96
60%	0.3	3.7	47	76	0.2	0.7	13.2	20	45	0.9	91	1.1	1.1	59	0.014	0.26	0.03	294	354	94
65%	-0.3	3.9	46	74	0.2	0.7	12.6	20	43	0.4	93	1.1	1.1	58	0.014	0.24	0.02	284	343	93
70%	-0.9	4.1	45	72	0.2	0.6	11.8	19	42	0.0	96	1.1	1.1	57	0.014	0.21	0.01	273	331	91
75%	-1.6	4.4	43	70	0.3	0.6	11.2	18	41	-0.5	98	1.1	1.0	55	0.024	0.19	-0.01	262	318	90
80%	-2.4	4.7	42	68	0.3	0.5	10.5	17	39	-1.1	101	1.0	1.0	54	0.024	0.16	-0.02	251	305	88
85%	-3.3	5.0	40	65	0.4	0.5	9.6	15	37	-1.7	105	1.0	1.0	52	0.034	0.12	-0.04	239	293	86
90%	-4.5	5.5	38	61	0.5	0.4	8.6	14	35	-2.6	110	1.0	1.0	49	0.034	0.08	-0.06	223	276	83
95%	-6.2	6.1	34	55	0.6	0.3	7.0	11	30	-3.9	117	0.9	0.9	45	0.054	0.01	-0.10	198	250	78
100%	-17.8	12.1	-11	-20	1.6	-1.1	-13.2	-9	-5	-22.3	210	0.0	-0.1	-2	0.184	-0.83	-0.48	-109	-73	12

149,082 cows calving since January 1, 2018