

Pan American Hereford Cattle Evaluation

Genetic Trend

EPDs as of September 5, 2022

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 - 2020 & 2021 Calves



EPDs as of September 5, 2022
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
90	27,588	1.3	2.7	28.2	51.1	-0.48	0.3	16.1	10.8	24.9	-0.3	71.4	1.06	1.02	45.0	-0.014	0.07	0.06	321.9	364.3	90.7	27,588
91	29,766	1.2	2.8	28.7	51.6	-0.48	0.3	15.9	11.0	25.4	-0.2	72.2	1.06	1.02	45.1	-0.014	0.07	0.05	319.6	362.3	90.7	29,766
92	31,079	1.0	2.9	29.6	52.8	-0.47	0.3	15.7	11.2	26.1	-0.1	73.4	1.06	1.02	45.3	-0.013	0.07	0.05	316.1	359.3	90.4	31,079
93	33,044	1.2	2.9	30.4	53.7	-0.46	0.3	15.5	11.4	26.6	0.1	73.4	1.06	1.02	45.4	-0.013	0.07	0.05	314.1	357.9	90.5	33,044
94	35,733	1.1	3.1	31.1	54.7	-0.46	0.3	15.2	11.6	27.2	0.0	74.0	1.06	1.02	45.7	-0.013	0.07	0.05	309.7	353.8	90.5	35,733
95	39,981	1.2	3.1	31.9	55.7	-0.45	0.3	15.0	11.9	27.9	0.1	74.4	1.06	1.02	46.0	-0.012	0.08	0.05	306.1	350.8	90.8	39,981
96	45,248	1.1	3.1	32.9	56.9	-0.44	0.3	14.7	12.4	28.9	0.1	74.5	1.06	1.03	46.3	-0.013	0.08	0.05	303.6	349.2	91.1	45,248
97	46,671	1.0	3.2	33.3	57.5	-0.43	0.4	14.5	12.6	29.3	0.2	74.7	1.06	1.03	46.6	-0.012	0.08	0.05	299.6	345.3	91.3	46,671
98	55,215	1.0	3.2	34.0	58.3	-0.42	0.4	14.1	12.8	29.9	0.2	74.8	1.07	1.04	47.1	-0.012	0.09	0.05	295.7	342.0	91.9	55,215
99	57,548	0.8	3.3	34.6	59.1	-0.41	0.4	13.8	13.1	30.5	0.3	75.7	1.07	1.04	47.5	-0.012	0.09	0.05	290.8	337.4	92.0	57,548
00	56,397	0.6	3.4	35.5	60.2	-0.39	0.4	13.2	13.5	31.3	0.2	76.3	1.07	1.04	48.1	-0.011	0.10	0.04	282.1	328.8	92.2	56,397
01	153,375	0.7	3.5	35.0	59.5	-0.41	0.4	12.8	13.4	30.9	0.8	77.3	1.06	1.03	48.2	-0.010	0.09	0.04	277.2	323.1	92.0	153,375
02	144,815	0.6	3.5	35.9	60.7	-0.39	0.5	12.5	13.9	31.9	0.8	77.7	1.07	1.04	48.9	-0.009	0.10	0.04	273.2	319.7	92.6	144,815
03	144,900	0.7	3.5	36.8	62.1	-0.36	0.5	12.2	14.3	32.7	0.9	78.2	1.07	1.04	49.8	-0.008	0.11	0.04	270.2	317.4	93.4	144,900
04	145,556	0.6	3.5	37.8	63.3	-0.33	0.5	12.1	14.7	33.6	0.8	78.4	1.07	1.04	50.6	-0.008	0.13	0.04	269.3	317.3	93.9	145,556
05	141,081	0.5	3.6	38.9	65.0	-0.30	0.5	12.1	15.4	34.9	0.7	78.9	1.08	1.05	51.7	-0.007	0.15	0.04	269.9	319.0	94.9	141,081
06	138,543	0.5	3.6	39.9	66.3	-0.27	0.6	11.9	16.0	36.0	0.8	79.4	1.08	1.05	52.7	-0.006	0.16	0.04	268.3	318.3	95.9	138,543
07	134,466	0.5	3.6	41.0	67.9	-0.24	0.6	11.8	16.6	37.1	0.9	79.7	1.08	1.06	53.7	-0.005	0.18	0.05	268.1	319.2	97.1	134,466
08	132,025	0.6	3.5	41.7	68.9	-0.21	0.6	11.9	17.1	38.0	0.9	79.8	1.09	1.06	54.5	-0.004	0.20	0.05	269.7	321.8	98.0	132,025
09	127,201	0.7	3.5	42.7	70.3	-0.19	0.6	11.9	17.7	39.1	1.0	79.8	1.09	1.07	55.4	-0.003	0.21	0.05	271.6	325.0	99.2	127,201
10	130,279	0.8	3.4	43.6	71.5	-0.15	0.7	11.8	18.3	40.1	1.0	81.1	1.10	1.07	56.5	-0.002	0.23	0.06	271.1	325.3	100.1	130,279
11	129,568	0.9	3.4	44.4	72.6	-0.12	0.7	12.1	18.8	41.0	1.1	81.8	1.10	1.08	57.3	-0.001	0.24	0.06	275.9	331.2	101.0	129,568
12	129,322	1.1	3.3	45.3	73.8	-0.10	0.7	12.4	19.4	42.1	1.0	82.3	1.11	1.09	58.2	0.000	0.26	0.06	281.3	337.8	101.8	129,322
13	129,155	1.3	3.3	46.1	75.0	-0.07	0.7	12.8	20.1	43.2	1.1	82.5	1.12	1.11	59.1	0.001	0.27	0.06	288.3	346.1	102.7	129,155
14	128,885	1.5	3.2	47.0	76.2	-0.04	0.8	13.2	20.8	44.3	1.2	82.9	1.14	1.12	60.0	0.002	0.29	0.07	295.1	354.1	104.0	128,885
15	134,670	1.6	3.1	47.9	77.7	-0.01	0.8	13.6	21.4	45.4	1.2	83.4	1.15	1.13	61.0	0.004	0.30	0.07	301.3	361.8	105.1	134,670
16	132,563	1.7	3.1	49.0	79.3	0.02	0.8	14.1	22.2	46.8	1.3	84.1	1.16	1.15	62.3	0.006	0.32	0.08	310.5	372.8	106.9	132,563
17	133,975	1.9	3.0	50.1	80.8	0.06	0.9	14.5	22.9	48.0	1.4	84.9	1.17	1.17	63.3	0.008	0.34	0.08	317.5	381.3	107.8	133,975
18	131,969	2.1	2.9	51.0	82.1	0.09	0.9	14.9	23.5	49.0	1.4	85.4	1.19	1.18	64.3	0.010	0.35	0.09	324.2	389.7	109.6	131,969
19	127,335	2.4	2.9	52.0	83.7	0.12	0.9	15.3	24.4	50.4	1.6	86.1	1.20	1.20	65.5	0.012	0.37	0.10	331.6	398.8	111.4	127,335
20	120,494	2.6	2.8	53.2	85.5	0.16	1.0	15.5	25.2	51.8	1.7	87.1	1.22	1.21	66.9	0.015	0.39	0.11	337.0	406.0	113.1	120,494
21	108,605	2.8	2.8	54.4	87.5	0.20	1.0	15.8	25.8	53.0	1.9	88.1	1.22	1.23	68.3	0.017	0.42	0.11	342.5	413.4	115.1	108,605

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 2020 and 2021 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, 2020 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 September 5, 2022
Pan American Hereford Cattle Evaluation

Average and Percentile Breakdown - 2020 & 2021 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	2.8	2.8	54	87	0.2	1.0	15.8	26	53	1.9	88	1.2	1.2	68	0.017	0.41	0.12	342	413	115
Low	-17.2	-8.9	-16	-31	-1.2	-0.9	-2.1	-10	-14	-19.2	-33	0.4	0.4	-6	-0.113	-0.88	-0.46	78	119	9
High	22.3	11.7	93	157	2.0	3.3	32.6	54	90	16	179	2.0	2.0	127	0.237	1.42	1.2	596	708	232
Percentile Breakdown																				
Upper 1%	14.6	-3.4	74	120	-0.8	1.9	23.9	40	73	9.4	34	1.5	1.6	92	-0.033	0.86	0.55	471	565	170
2%	12.9	-1.4	72	116	-0.5	1.8	22.8	38	70	8.4	47	1.5	1.5	89	-0.033	0.79	0.47	455	546	161
3%	11.8	-0.9	70	114	-0.4	1.7	22.1	37	69	7.9	52	1.5	1.5	87	-0.023	0.76	0.42	445	534	156
4%	11.0	-0.5	69	112	-0.3	1.6	21.6	36	68	7.5	56	1.5	1.5	86	-0.023	0.73	0.39	437	525	152
5%	10.4	-0.2	68	110	-0.3	1.6	21.2	36	67	7.1	58	1.4	1.5	85	-0.023	0.71	0.36	430	517	149
10%	8.5	0.6	65	105	-0.2	1.5	19.9	34	64	6.0	66	1.4	1.4	81	-0.013	0.63	0.28	409	492	139
15%	7.3	1.0	63	102	-0.1	1.4	19.0	32	62	5.2	71	1.4	1.4	78	-0.003	0.59	0.24	395	476	133
20%	6.4	1.4	62	99	0.0	1.3	18.3	31	61	4.6	74	1.3	1.4	76	-0.003	0.55	0.21	384	463	128
25%	5.7	1.7	60	97	0.0	1.2	17.8	30	59	4.1	77	1.3	1.3	75	-0.003	0.52	0.18	375	452	125
30%	5.0	2.0	59	95	0.1	1.2	17.3	29	58	3.6	79	1.3	1.3	73	0.007	0.50	0.16	367	442	122
35%	4.4	2.2	58	93	0.1	1.1	16.9	28	57	3.2	82	1.3	1.3	72	0.007	0.48	0.14	360	433	119
40%	3.8	2.4	57	91	0.1	1.1	16.5	28	56	2.8	84	1.3	1.3	71	0.007	0.45	0.12	353	425	117
45%	3.3	2.6	56	90	0.2	1.0	16.1	27	55	2.4	86	1.2	1.2	69	0.007	0.43	0.11	347	418	115
50%	2.7	2.8	55	88	0.2	1.0	15.7	26	54	2.0	88	1.2	1.2	68	0.017	0.41	0.09	340	410	113
55%	2.2	3.0	54	86	0.2	0.9	15.3	25	53	1.6	90	1.2	1.2	67	0.017	0.39	0.08	334	403	111
60%	1.7	3.2	53	85	0.3	0.9	14.9	25	52	1.2	93	1.2	1.2	66	0.017	0.37	0.07	328	395	109
65%	1.1	3.5	52	83	0.3	0.9	14.5	24	50	0.8	95	1.2	1.2	65	0.027	0.35	0.05	321	388	107
70%	0.5	3.7	50	81	0.4	0.8	14.1	23	49	0.3	97	1.2	1.1	64	0.027	0.33	0.04	315	380	105
75%	-0.1	3.9	49	79	0.4	0.8	13.6	22	48	-0.2	99	1.1	1.1	62	0.037	0.30	0.03	307	371	103
80%	-0.8	4.2	48	77	0.5	0.7	13.1	21	46	-0.8	102	1.1	1.1	61	0.037	0.27	0.01	299	362	101
85%	-1.7	4.5	46	74	0.5	0.6	12.5	20	44	-1.5	106	1.1	1.1	59	0.037	0.23	-0.01	290	351	98
90%	-2.8	5.0	44	70	0.6	0.6	11.8	18	42	-2.4	110	1.1	1.0	56	0.047	0.19	-0.03	278	338	95
95%	-4.5	5.7	39	64	0.7	0.4	10.5	15	37	-3.7	116	1.0	1.0	52	0.057	0.12	-0.06	260	317	90
100%	-17.2	11.7	-16	-31	2.0	-0.9	-2.1	-10	-15	-19.2	179	0.4	0.4	-6	0.237	-0.88	-0.46	78	119	9

269,179 calves born in 2020 and 2021

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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	3.0	2.7	54	87	0.2	1.0	15.8	26	53	1.9	87	1.2	1.2	68	0.017	0.41	0.12	342	413	115
Low	-15.5	-8.2	-14	-30	-1.3	-0.8	-1.9	-10	-9	-20.5	-13	0.0	0.4	2	-0.103	-0.63	-0.53	103	142	32
High	24.0	11.3	90	148	2.0	2.9	35.9	64	93	16.9	174	2.2	2.3	125	0.157	1.54	1.25	631	721	240
Percentile Breakdown																				
Upper 1%	15.7	-4.1	78	126	-0.9	2.1	26.5	44	76	11.3	24	1.6	1.7	98	-0.053	0.96	0.63	506	597	181
2%	14.2	-2.4	75	121	-0.7	2.0	25.1	41	73	10.2	34	1.6	1.6	95	-0.043	0.90	0.53	487	578	171
3%	13.3	-1.5	73	118	-0.5	1.9	24.2	40	72	9.5	39	1.5	1.6	92	-0.043	0.85	0.48	474	564	165
4%	12.4	-1.1	72	116	-0.4	1.8	23.4	39	70	8.9	43	1.5	1.6	91	-0.033	0.81	0.44	462	552	161
5%	11.8	-0.8	71	114	-0.4	1.8	22.9	38	69	8.4	47	1.5	1.5	89	-0.033	0.78	0.41	454	541	158
10%	9.7	0.2	67	108	-0.2	1.6	21.1	36	66	7.0	57	1.4	1.5	85	-0.023	0.70	0.32	427	511	146
15%	8.4	0.7	65	105	-0.1	1.5	20.0	34	64	6.1	63	1.4	1.4	81	-0.013	0.64	0.27	411	490	139
20%	7.4	1.1	63	101	-0.1	1.4	19.1	32	62	5.3	68	1.4	1.4	79	-0.013	0.60	0.23	396	475	133
25%	6.5	1.5	61	99	0.0	1.3	18.4	31	60	4.6	72	1.3	1.3	77	-0.003	0.56	0.20	383	461	129
30%	5.7	1.8	60	96	0.0	1.2	17.8	30	59	4.0	76	1.3	1.3	75	-0.003	0.53	0.18	374	449	125
35%	5.0	2.1	59	94	0.1	1.2	17.2	29	58	3.4	79	1.3	1.3	74	0.007	0.50	0.16	365	439	122
40%	4.3	2.3	57	92	0.1	1.1	16.7	28	56	3.0	82	1.3	1.3	72	0.007	0.47	0.14	357	429	119
45%	3.5	2.6	56	90	0.2	1.0	16.2	27	55	2.5	85	1.2	1.2	70	0.007	0.44	0.12	348	420	116
50%	2.9	2.8	55	88	0.2	1.0	15.7	26	54	2.0	88	1.2	1.2	69	0.017	0.41	0.10	341	411	113
55%	2.3	3.0	54	86	0.2	0.9	15.2	25	53	1.4	91	1.2	1.2	67	0.017	0.38	0.08	333	401	110
60%	1.6	3.3	53	84	0.3	0.9	14.7	24	51	0.9	94	1.2	1.2	66	0.027	0.36	0.06	325	392	108
65%	0.9	3.5	51	82	0.3	0.8	14.2	23	50	0.3	97	1.2	1.2	64	0.027	0.33	0.04	316	383	105
70%	0.2	3.8	50	80	0.4	0.8	13.6	22	48	-0.2	100	1.1	1.1	62	0.037	0.30	0.03	308	374	102
75%	-0.5	4.0	48	78	0.4	0.7	13.1	21	47	-0.8	103	1.1	1.1	60	0.037	0.26	0.01	299	363	99
80%	-1.4	4.4	47	75	0.5	0.6	12.4	19	45	-1.5	107	1.1	1.1	58	0.047	0.22	-0.02	289	351	96
85%	-2.4	4.7	45	72	0.6	0.6	11.7	18	43	-2.4	112	1.1	1.0	56	0.047	0.18	-0.04	276	337	93
90%	-3.7	5.3	42	67	0.7	0.4	10.6	16	40	-3.4	117	1.0	1.0	53	0.057	0.12	-0.08	261	320	88
95%	-5.5	6.1	37	60	0.8	0.3	8.9	12	34	-4.9	125	1.0	0.9	47	0.077	0.02	-0.12	237	293	80
100%	-15.5	11.3	-14	-30	2.0	-0.8	-1.9	-10	-9	-20.5	175	0.0	0.4	2	0.157	-0.63	-0.53	103	142	32

8,398 sires produced at least 10 calves since January 1, 2020

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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	1.9	3.0	50	81	0.1	0.9	14.8	23	49	1.4	85	1.2	1.2	64	0.009	0.35	0.09	323	387	108
Low	-17.5	-8.9	-13	-28	-1.5	-0.8	-3.9	-13	-19	-26.7	-19	-0.1	-0.1	-9	-0.103	-0.81	-0.47	56	94	15
High	21.6	12.3	92	160	1.5	2.9	33.8	57	91	18.1	201	2.1	2.2	128	0.187	1.41	1.22	665	775	243
Percentile Breakdown																				
Upper 1%	14.9	-4.1	71	115	-0.9	1.8	24.6	40	71	10.0	25	1.6	1.6	89	-0.043	0.81	0.49	475	561	160
2%	12.9	-1.5	69	111	-0.6	1.7	23.1	38	68	8.9	36	1.5	1.6	86	-0.043	0.75	0.41	454	538	152
3%	11.6	-0.7	67	109	-0.5	1.6	22.2	37	67	8.2	43	1.5	1.5	84	-0.033	0.71	0.37	440	523	147
4%	10.7	-0.4	66	107	-0.5	1.5	21.5	36	65	7.8	48	1.5	1.5	82	-0.033	0.68	0.34	430	511	143
5%	10.1	-0.1	65	105	-0.4	1.5	21.0	35	64	7.4	51	1.4	1.5	81	-0.033	0.66	0.31	422	502	140
10%	8.0	0.7	62	100	-0.3	1.3	19.4	32	61	6.0	60	1.4	1.4	77	-0.023	0.59	0.24	396	471	131
15%	6.7	1.3	60	96	-0.2	1.2	18.4	31	59	5.2	66	1.3	1.4	74	-0.013	0.54	0.20	380	453	125
20%	5.7	1.6	58	94	-0.2	1.2	17.7	29	57	4.5	70	1.3	1.3	72	-0.013	0.50	0.17	368	439	121
25%	4.9	2.0	57	91	-0.1	1.1	17.1	28	56	3.9	73	1.3	1.3	71	-0.013	0.47	0.15	358	427	118
30%	4.2	2.2	55	89	-0.1	1.0	16.6	27	54	3.4	76	1.3	1.3	69	-0.003	0.44	0.13	349	417	115
35%	3.5	2.5	54	87	0.0	1.0	16.1	26	53	2.9	79	1.2	1.2	68	-0.003	0.42	0.11	341	408	113
40%	2.9	2.7	53	86	0.0	0.9	15.6	25	52	2.5	81	1.2	1.2	67	-0.003	0.39	0.10	334	399	111
45%	2.4	2.9	52	84	0.0	0.9	15.2	24	51	2.0	84	1.2	1.2	65	0.007	0.37	0.08	327	391	109
50%	1.8	3.1	51	82	0.1	0.9	14.7	24	49	1.6	86	1.2	1.2	64	0.007	0.35	0.07	320	383	107
55%	1.2	3.3	50	80	0.1	0.8	14.3	23	48	1.1	88	1.2	1.1	63	0.007	0.33	0.06	313	376	105
60%	0.6	3.5	49	79	0.2	0.8	13.9	22	47	0.7	90	1.1	1.1	62	0.007	0.30	0.04	307	368	103
65%	0.1	3.8	48	77	0.2	0.7	13.4	21	46	0.2	93	1.1	1.1	60	0.017	0.28	0.03	300	360	101
70%	-0.5	4.0	47	75	0.2	0.7	12.9	20	44	-0.3	95	1.1	1.1	59	0.017	0.25	0.02	293	352	99
75%	-1.2	4.2	45	73	0.3	0.6	12.4	19	43	-0.9	98	1.1	1.1	58	0.027	0.23	0.00	285	343	97
80%	-1.9	4.5	44	71	0.3	0.6	11.8	18	41	-1.5	101	1.1	1.0	56	0.027	0.20	-0.01	276	334	95
85%	-2.8	4.9	42	68	0.4	0.5	11.1	16	39	-2.3	105	1.0	1.0	54	0.037	0.16	-0.03	266	322	93
90%	-4.0	5.3	39	64	0.5	0.4	10.2	14	36	-3.3	110	1.0	1.0	51	0.037	0.12	-0.06	253	308	89
95%	-5.7	6.0	35	58	0.6	0.3	8.8	11	31	-4.9	118	1.0	0.9	47	0.057	0.05	-0.09	232	286	83
100%	-17.5	12.3	-13	-28	1.5	-0.8	-3.9	-13	-19	-26.7	201	-0.1	-0.1	-9	0.187	-0.81	-0.47	56	94	15

155,833 cows calving since January 1, 2020