

SE XPOSITION

CONTRIVING

CONT



Friday, January 10, 2025

EXPOSITION DRIVING GENETIC EXCELLENCE SHORTHORN SHOW

2:00 PM - Perfromance Arena Judges: Matt Aggen, Kevin Jensen & Brad Johnson **SCAN TO VIEW ONLINE**



American Shorthorn Association Selection Tool EPD's 101

Expected Progeny Differences (EPDs) are a statistic that help us predict the performance ability of a sire or dam for certain traits relevant to beef production. Cattle breeders use EPDs to make comparisons between animals about their genetic potential. EPDs take into account an animal's performance data (their own and any related cattle), pedigree, and if available, genomic testing information in their calculation.

If we were comparing two bulls to buy at a Shorthorn sale, these are the EPDs you might see listed in the catalog:

Calving Ease Direct (CED): The CED EPD is listed as a percentage of unassisted calving's. A higher CED EPD predicts a sire that will have a higher percentage of unassisted calves.

Birth Weight (BW): Compares the differences in the weight of calves at birth. It is measured in pounds, and cattle with higher BW EPDs are predicted to produce heavier calves.

Weaning Weight (WW): The WW EPD is expressed in pounds and predicts differences in weaning weight of a sire's calves. Bulls with higher WW EPDs predict heavier calves across the scale at weaning.

Yearling Weight (YW): Just like WW, only at the next stage of life. The YW EPD is expressed in pounds. Higher YW EPDs are likely to produce bigger, heavier yearlings.

Milk (MK): The hardest trait to measure, since we don't measure milk production in beef cows. The MK EPD is measured in pounds of calf weaning weight due to his mother's milking ability. A higher MK EPD predicts that a bull will sire daughters who raise heavier calves due to their milk production.

Total Maternal (TM): Total Maternal EPD is a simple formula. TM= MK EPD + ½ WW EPD. It measures impact on calf weaning weight due to both milk production and the cow's genetics for growth. Bulls with a higher TM EPD should sire daughters with a bigger impact on their calves' weaning weight.

Calving Ease Maternal (CEM): Measures the ability of a bull's daughters to calves unassisted as two-year-olds. The higher the CEM EPD, the easier calving should be when a bull's daughters have that first calf.

Stayability (ST): Cows who work longer make more money. The ST EPD predicts the ability of a bull to sire cows that "stay around". The ST EPD is shown as a percentage of how much more likely a bull's daughters will stay in your herd to the age of 6. A higher ST EPD bull is more likely to have daughters stay around for a long time.

Carcass Weight (CW): The CW EPD is all about pounds of beef on the rail. Higher CW EPDs mean that a bull is more likely to sire feeders with heavier carcass weights.

Yield Grade (YG): The USDA Yield Grade scoring system is the unit of measurement for the YG EPD. Yield Grade 1 are leaner, more retail product carcasses. Lower, more negative YG EPD bulls are expected to sire calves that score better on the USDA Yield Grade scale.

Ribeye Area (REA): REA is measuring the size of the muscle that gives us the ribeye in square inches. Higher REA EPDs indicate a bull is expected to produce larger ribeye's in their offspring.

Marbling (MB): The MB EPD is in units of percentage of intramuscular fat within the ribeye. Higher MB EPD bulls should sire higher marbling (and grading) feeder calves.

Fat Thickness (FT): Inches of backfat (in hundredths of an inch) is the unit of measurement for FT. More negative FT EPDs are indicative of a bull that should sire less backfat in his calves.

Selection indexes weight multiple EPDs with an economic value to create a simplified selection tool built to meet the goals of your operation. Whether it's production of superior replacement females, quality feeder cattle, or sleep all night calving ease, selection indexes combine the traits that drive profits to identify the Shorthorn genetics suited to meet your needs.

\$Calving Ease (\$CEZ): Genetics that you can trust to calve easy while keeping mature cow size in check. You'll sleep soundly and your heifers will thank you for selecting for high \$CEZ sires.

\$British Maternal (\$BMI): A balanced, multi-trait index built to identify the ideal seedstock for crossbreeding on British breed cow herds. \$BMI focuses on the traits you want in your cows: easy calving, maternal performance and moderate mature size, while keeping the growth and carcass merit in your steer calves.

\$Cow Productivity (\$CPI): An index focused on identifying the cattle that do the things we (and the Shorthorn commercial customer) expect of a productive momma cow: calving unassisted, raising heavy calves to weaning, keeping mature size in check, and staying in the productive herd for years to come.

\$Feedlot (\$F): For the cattleman who sees value in retaining ownership of feeder cattle. Growth, performance and carcass quality drive \$Feedlot. Cattle bred to grow and grade excel in \$Feedlot.

Accuracy

EPDs are able to give us an idea of what an animal can produce in our herd, but they aren't perfect predictors. They need information feeding the calculations to make them better. We use EPD accuracies to help us determine the reliability of an EPD. Accuracy is expressed as a value from 0 to 1, with higher values giving us more confidence in that EPD value.

The EPDs on a yearling bull start with a baseline of the average between his parents, a very low accuracy EPD (less than 0.20). As his data is recorded, his EPDs change to reflect his performance and his accuracy will increase. Genomic testing will further increase accuracy (up to about 0.40), but large volumes of progeny performance data are what lead to high accuracy EPDs on a sire.

EPD Accuracies

Very Low	Less than 0.20	Young cattle with little data
Low	0.21-0.40	Cattle with date and genomics
Medium	0.41-0.70	Young cattle with progeny data
High	Greater than 0.71	Heavily used sires

•	Owner Name		U	Animal Name	CED	вw	ww	ΥW	Milk	CEM	ST	YG	cw	CREA	MARB	CFAT	\$CEZ	\$BMI	\$CPI	\$F
	arly Spring Heifer TT FINNESGARD		4375581 BFS ROYAL I SIRE: CF PAYWEIG DAM: BFS ROYAL I	GHT X ET	7	3.9	75	114	28	5	12	-0.43	16	0.72	-0.25	-0.09	16.84	148.17	140.56	57.78
Class 2: Ea	arly Spring Heifer	Calves	born March 2024																	
	ALIE BRYNN OWENS	3/13/24	4373799 TMF RONAN SIRE: JSF RONAN DAM: TMF CRYST.	I'S CRYSTAL STAR 5H	11	0.5	46	63	23	4	19	-0.48	-26	0.26	-0.09	-0.1	40.16	133.8	148.17	41.4
60757 СНАР	RLOTTE JORDAN	3/7/24	4378851 WAUKARU F SIRE: WAUKARU F DAM: WAUKARU F	RIGHT DESIGN 2018	16	0.9	62	97	23	8	16	-0.35	12	0.44	-0.22	-0.09	50.32	144.05	181.03	53.87
Early Sprin Champion: Reserve Ch																				
01 0- 1			- h 0004																	
60759 BROO	inior Heifer Calves OKE MCKEAN	2/25/24	4372140 MC_S CUME SIRE: WAUKARU G	BERLANDS GALVESTON QUEE BALVESTON 2022 ERLAND QUEEN 05F	6	5.5	54	83	24	1	16	-0.3	19	0.68	-0.14	-0.05	17.85	111.26	119.66	54.02
60761 CHLC	DE JORDAN	2/14/24	4378764 WAUKARU F SIRE: GILMAN'S RO DAM: WAUKARU F	OYAL FLUSH 63K	8	2	70	96	31	4	17	-0.17	21	0.27	0.32	-0.05	23.5	152.98	152.62	65.02
60762 ABBI	SCOTT	2/10/24	4379244 4S PRIMABE SIRE: MURIDALE T DAM: WAUKARU F	HERMAL ENERGY 15A	14	2.4	64	105	24	9	18	-0.2	9	0.27	0.4	-0.05	42.47	142.36	177.02	62.04
Class 4: Junior Heifer Calves born January 2024																				
60763 PEAK	(VIEW RANCH INC	1/24/24	4370516 PEAKVIEW C SIRE: BYLAND FLA DAM: LEVELDALE (SH 9U106	9	3.1	75	115	28	8	21	-0.35	40	0.88	-0.06	-0.08	22.08	154.36	169.26	66.41
Animals with EPDs in italics indicate GE-EPDs																				
	parent EPD breed avera				9	1.3	45	65	22	4		-0.34 pulled	-	0.32 registry	0.01 on 01/02		32.86	117.35	127.35	48.53

DOB Reg# Entry # **Owner Name Animal Name** CED BW WW YW Milk CEM ST YG CW CREA MARB CFAT \$CEZ \$BMI Junior Heifer Calf Division (class 3 & 4) Champion: Reserve Champion: Class 5: Early Spring Yearlings born March & April 2023 60764 CHLOE JORDAN 3/11/23 4361819 WAUKARU RED NAN 3088 -0.03 -0.1 42.66 147.84 175.92 60.7 15 1.3 64 106 28 17 -0.36 25 0.53 SIRE: WAUKARU RAWHIDE 9001 DAM: WAUKARU RED NAN 2181 60765 BEDWELL CATTLE CO 3/1/23 4357008 JCB RED NAN 309L 0.05 -0.08 26.11 155.14 157.33 56.73 0.66 SIRE: BYLAND CITY LIGHTS 1GL56 DAM: WAUKARU RED NAN 0034

Early Spring Female Division (class 5)

Champion: Reserve:

Grand Champion E.D.G.E. Female: Reserve Grand Champion E.D.G.E. Female:



SATURDAY, JANUARY 11, 2025 - 5:30 PM (CST) SUPER BARN SALE ARENA - OKLAHOMA CITY, OK

SCAN TO VIEW CATALOG







THURSDAY, JANUARY 16, 2025 - 5:00 PM (MST)

WAGNER EQUIPMENT AUCTION ARENA - DENVER, CO

SCAN TO VIEW CATALOG



Entry # Owner Name E.D.G.E. Bull Show	DOB	Reg # Anima	al Name CEI	BW	ww	YW	Milk	CEM	ST	YG	cw	CREA	MARB	CFAT	\$CEZ	\$BMI	\$CPI	\$F
Class 1: Late Spring Bull Ca 60766 LITTLE CEDAR CATTLE CO		orn May 1, 2024 and after 4375022 LITTLE CEDAR LAST SIRE: LITTLE CEDAR WF I DAM: GILMAN'S SECRET E	FING LOOK 2418 14 LOOKOUT 2160	-2	43	53	23	6	16	-0.39	-25	0.2	0.03	-0.07	51.53	139.47	156.3	41.96
Late Spring Bull Calf Divisio Champion: Reserve:	n (clas	<u>s 1)</u>																
Class 2: Early Spring Bull Ca	alves b	orn March and April 202	24															
60767 SPRING VIEW CATTLE	4/8/24	4380794 SPRINGVIEW DENAI SIRE: DRAG REDEMPTIOI SPRINGVIEW DESIREE 183	LI 61 4 N DAM:	2.2	42	65	24	-1	12	-0.29	-1	0.15	-0.07	-0.08	14.71	93.83	93.61	46.59
60769 HUGH W MOORE JR & SON	3/4/24	4373586 MM NEGOTIATOR P SIRE: BECKLER PEACE KE DAM: MM MAXA ROSA HC	EEPER 13K	-1.1	46	62	23	12	15	-0.35	-1	0.37	0.1	-0.08	54.66	146.37	169	50.15
60770 CHLOE JORDAN	3/3/24	4378832 WAUKARU STALLON SIRE: WAUKARU RIGHT D DAM: WAUKARU RED NAN	DESIGN 2018	-0.3	61	100	26	8	20	-0.29	11	0.34	0.03	-0.08	46.06	140.38	182.15	56.91
60771 HUGH W MOORE JR & SON	3/1/24	4373585 MM DIPLOMAT PK 20 SIRE: BECKLER PEACE KE DAM: MM CUMBERLAND 0	EEPER 13K	-0.5	51	76	23	11	16	-0.38	4	0.47	0.03	-0.08	51.96	146.75	173.4	52.03
60772 WAUKARU FARMS INC	3/1/24	4378827 WAUKARU BANDER SIRE: WAUKARU RIGHT D DAM: WAUKARU RUBY RO	DESIGN 2018	1.3	63	96	26	5	15	-0.38	7	0.34	-0.03	-0.1	37.18	145.76	160.25	55.43
Early Spring Bull Calf Division Champion: Reserve Champion: Animals with EPDs in italics	indicate																	
Non-parent EPD breed avera	ages		9	1.3	45	65	22	4	13 *epd's	-0.34 s pulled	-1 from	0.32 registry	0.01 on 01/02	-0.08 /2025*	32.86	117.35	127.35	48.53

Entry #	Owner Name	DOB	Reg#	Animal Name	CED	BW	ww	YW	Milk (CEM	ST	YG	cw	CREA	MARB	CFAT	\$CEZ	\$BMI	\$CPI	\$F
Class 3: E																				
60773 јон	HN & BARBARA RUSSELL	4/4/23	SIRE: ADVY N	ABRERA'S TRIBUTE IILLBROOK TRIBUTE FB 6023J ABRERA JANE ET	10	0.5	50	65	24	6	17	-0.39	-11	0.22	-0.21	-0.09	37.07	136.81	148.79	44.09
60774 BRG	OOKE MCKEAN	3/29/23	SIRE: JSF MA	ED CLAMPETT 329L M NHATTAN 194J ET DLDEN CUMBERLAND 915G	6	3.5	53	76	24	2	18	-0.21	-4	-0.13	-0.05	-0.08	21.51	113.86	128.88	49.01
Early Spri Champion Reserve C		<u>ivision</u>	(class 3)																	
Class 4: J	unior Yearling Bul	ls																		
	LI SHORTHORNS	2/20/23	4357005 JCB RC SIRE: PVF BE DAM: JSF AD		14	-0.4	53	80	24	12	19	-0.39	4	0.63	0.11	-0.07	45.39	149.06	174.57	53.86
Junior Year Champion	arling Bull Division :	(class	4)																	

Champion:

Reserve Champion:

Grand Champion E.D.G.E Bull:

Reserve Grand Champion E.D.G.E Bull:

