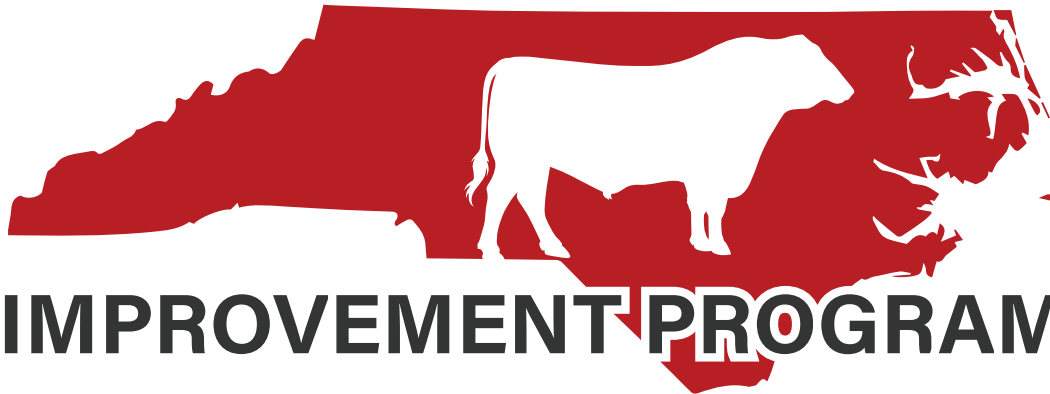


44th Annual

North Carolina BCIP

Waynesville Bull Test Sale

NC BEEF CATTLE



Saturday - December 2, 2023
11:00 AM

SELLING 24 BULLS

15 Angus, 3 Herford, 2 Simmental, & 4 SimAngus

WNC Regional Livestock Center
Canton, North Carolina

919/422-9108 • 336/504-7268

NC STATE EXTENSION

Johnny Rogers 336.504.7268



Kyle Miller, MRS Supt.
828.456.3943



Bryan Blinson
919.552.9111

NORTH CAROLINA BEEF IMPROVEMENT PROGRAM

NC STATE UNIVERSITY

**Campus Box 7621
Raleigh NC 27695-7621
Phone: 919.515.4027
Fax: 919.515.6884**

The forty-fourth annual Waynesville Bull Sale is Saturday, December 2, 2023 at 11:00 am at the WNC Regional Livestock Center in Canton, NC. Bulls will be available for viewing at the sale facility beginning the morning of Friday, December 1. All bulls will have a floor price of \$2,000. All bulls will need to be removed from the facility on sale day. Directions to the sale site are on the back cover of this catalog.

The Waynesville Bull Test Station is located at the Mountain Research Station operated by the North Carolina Department of Agriculture. The test is sponsored by the North Carolina Beef Cattle Improvement Program and conducted through the cooperative efforts of North Carolina Cooperative Extension, North Carolina Department of Agriculture and the North Carolina Cattlemen's Association.

Thank you to Kyle Miller (Mountain Research Station, Superintendent) and the staff of the Mountain Research Station for the excellent care they have given the bulls again this year.

All bulls in the sale have genomically enhanced EPDs to improve their EPD accuracy and the catalog will feature the percentile ranking for each EPD. In addition, a full description of each breed association's genetic predictions are included to help you interpret these numbers for selecting the bulls to fit your needs. An opportunity for our Tennessee buyers this year, on sale day we will have a listing of all bulls that qualify for the TN Ag Enhancement Program (TAEP).

An email blast sent out the week of the sale will provide the latest details about the sale. To receive this email blast contact the NC Cattlemen's Association office at 919.552.9111. You may also contact the numbers below for assistance with sight-unseen bidding if you are unable to attend. In case of inclement weather, call one of the phone numbers below after 10:00 am on Saturday, December 2 to get a definite status of the sale.

336-504-7268

919.795.9696

828.456.3943

TERMS AND CONDITIONS OF SALE

- The terms of the sale are cash or check.
- All animals are sold at public auction to the highest bidder.
- The auctioneer will settle any dispute as to bids. Cattle will remain property of owner until sold.
- Each animal becomes the property of the purchaser as soon as sold but will not be released until payment is received.
- Certificates of registry and transfer are furnished to the buyer by the respective breed association.
- All bulls are guaranteed to be in good health and sound.
- All bulls are guaranteed breeders if properly fed and managed. Rules and Regulations adopted by the respective breed association shall determine whether an animal is a breeder. Each buyer will receive a written statement, which specifies the procedure to follow in case a bull is claimed to be a non-breeder.
- The auctioneer will call any changes or corrections to the information in the catalog and these will take precedence and supersede any other statements.
- Neither the sale manager nor any person connected with the management of the sale assumes any liability, legal or otherwise. The Association acts as an agent only and will not be responsible for contract.
- All persons attending sales do so at their own risk. Neither the sale manager nor any person connected with the management of the sale assumes any responsibility for the safety of the building, premises or for the behavior of the animals.

Waynesville Bull Test Sale Order 2023

Tag	Weight 10/24	Price		Tag	Weight 10/24	Price
Angus				Hereford		
11	1558			31	1073	
16	1303			29	1013	
13	1225			28	1078	
5	1318			Angus Cont'd		
3	1348			7	1228	
4	1195			18	1225	
9	1303			17	1238	
15	1258			14	1278	
Simmental/SimAngus				2	1398	
23	1490			1	1323	
24	1368			12	1353	
21	1305					
19	1245					
20	1265					
25	1085					

Waynesville Consignor Index

Angus (15)

Buddy Hamrick – H&H Farm - Boiling Springs, NC
Jonathan Wells - Berry-Wells Farm – Rayle, GA
Gary Hill – Hill Angus - Hendersonville, NC
Dennis Overcash – Overcash Angus Farm-Mooresville, NC
Gerald Strickland - Hawks Nest Farm – Leicester, NC

Phone Number

704.472.1912
770-880-6678
229-848-3695
704.663.2547
828-713-1285

Tag Number

3, 4, 5
13, 14, 15, 16, 17, 18
1, 2
7
9, 11, 12

Hereford (3)

Bryson Westbrook – 4B Farm LLC – Shelby, NC

980.230.4868

28, 29, 31

Simmental/SimAngus (6)

Doug Keziah – Keziah Farms – Monroe, NC
Eugene Shuffler – Shuffler Farm – Union Grove, NC
Chuck Broadway – Broadway Cattle Farm - Monroe, NC

704-242-1763
704.539.4161
704.579.3514

25
19, 20, 21
23, 24

Breed Average EPD's

Breed	CED	BW	WW	YW	MILK
ANGUS	7	1.2	63	111	27
HEREFORD	3.1	2.7	56	89	26
SIMMENTAL	11	1.5	78	116	23
SIMMENTAL HYBRID	12	0.3	76	117	22

FOR A COMPLETE EXPLANATION OF THE EPD'S IN THIS CATALOG YOU CAN GO TO THE BREED WEBSITES: ANGUS.ORG ,
HEREFORD.ORG, OR SIMMENTAL.ORG

1 HAF WILDCAT 672 ANGUS
 Reg. No. 20480313 Tattoo 672 DOB 08/27/2022 PB
 Consignor HILL ANGUS FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	76	737	3.2	1230	52.00	1323	38	1	7.42	11.7	0.26	
Ratio/FS	97	96	89	101	5.8				120	101	118	

GAR DISCOVERY 6737H AAA +*18749135 [RDF]

E & B WILDCAT 9402 AAA *19810163 [RDF]
 E&B LADY PLUS 643 AAA 18645816

S S ENFORCER E812 AAA *19274932 [RDF]

SPRINGFIELD FANNY 0067 AAA *19964660
 SPRINGFIELD FANNY 8132 AAA +*19385631

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	13	-.5	70	131	.34	.5	-.08	25	14	14	29	56	.2
% Rank	10%	20%	30%	20%	3%	55%	95%	20%	30%	30%	35%	65%	70%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-15	0.64	0.57	57	1.35	0.89	-.003	72	72	113	93	206	339
% Rank	55%	95%	90%	30%	4%	20%	30%	30%	15%	10%	3%	3%	2%

2 HAF REGIMENT 892 ANGUS
 Reg. No. 20478939 Tattoo 892 DOB 08/27/2022 PB
 Consignor HILL ANGUS FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	80	755	3.1	1248	53.50	1398	39	1	4.97	11.5	.17	
Ratio/FS	103	99	86	103	6.6				80	99	77	

WAR CAVALRY B063 Z044 AAA *17979842

WILKS REGIMENT 9035 AAA +*19401188 [RDF]
 VINTAGE CHLOE 6137 AAA *18376117

SPRINGFIELD RAMESSES 6124 AAA +*18746724 [RDF]

SPRINGFIELD EVERGREEN 8092 AAA +*19371996
 SPRINGFIELD EVERGREEN 6103 AAA +*18746815

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	9	0	87	155	0.30	.9	.89	13	10.5	12	29	102	.7
% Rank	30%	25%	4%	3%	20%	15%	50%	75%	70%	15%	35%	15%	25%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-38	0.59	0.55	80	0.92	0.97	.013	52	82	127	71	198	309
% Rank	95%	85%	85%	3%	25%	10%	55%	80%	3%	2%	15%	4%	10%

3 H&H ACCLAIM 322 ANGUS
 Reg. No. 20625683 Tattoo 322 DOB 10/05/2022 PB
 Consignor H&H FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	73	715	3.8	1234	53.0	1348	36	1	3.9	12.1	.3	
Ratio/FS		103	106	101	6.8				91	93	111	

JINDRA 3RD DIMENSION AAA *17365830

JINDRA ACCLAIM AAA #*17972810 [RDF]
 JINDRA BLACKBIRD LASSY 1111 AAA +17970373

TEX PLAYBOOK 5437 AAA #*18414912 [RDF]

H & H PRIDE LASS 1413 318 AAA 19401173
 H&H PRIDE LASS 1413 AAA 17716714

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	9	.4	72	144	0.34	1.2	-.30	15	4.6	15	38	106	1.0
% Rank	30%	35%	25%	10%	3%	3%	95%	70%	95%	2%	3%	10%	10%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-45	0.48	0.52	78	0.61	0.57	-.014	32	70	131	52	183	269
% Rank	95%	45%	70%	3%	55%	65%	20%	95%	20%	1%	45%	10%	25%

4 H&H OPTIMUM 1222 ANGUS
 Reg. No. 20625691 Tattoo 1222 DOB 11/10/2022 PB
 Consignor H&H FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	71	725	3.7	1235	51.0	1195	37	1	5.05	12.1	.27	
Ratio/FS		100	104	101	6.2				117	93	100	

DEER VALLEY GROWTH FUND AAA +*18827828 [RDF]

DEER VALLEY OPTIMUM 9246 AAA +*19466633 [RDF]
 G A R PROGRESS 830 AAA +*16734713

SITZ UPWARD 307R AAA #*14963730

H & H PRIDE LASS 208 417 AAA 19076477
 H&H PRIDE LASS 208 AAA 16231796

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	11	.3	69	125	0.27	.7	1.22	16	14.1	11	31	64	0.5
% Rank	15%	30%	35%	30%	35%	30%	30%	65%	30%	25%	20%	55%	40%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-20	0.65	0.58	57	.78	0.78	0.036	63	71	106	59	165	277
% Rank	65%	95%	95%	30%	35%	30%	85%	55%	20%	15%	35%	20%	20%

5 H&H GROWTH FUND 722 ANGUS
 Reg. No. 20625687 Tattoo 722 DOB 10/21/2022 PB
 Consignor H&H FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	73	815	3.5	1327	52.00	1318	39	1	3.97	14.8	.24	
Ratio/FS		112	96	109	6.5				92	114	89	

BASIN PAYWEIGHT 1682 AAA #*17038724

DEER VALLEY GROWTH FUND AAA +*18827828 [RDF]
 DEER VALLEY RITA 36113 AAA +*17785214

SITZ UPWARD 307R AAA #*14963730

H&H FORTE 608 912 AAA 17434240
 H&H JENANNA 608 208 AAA 16231799

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	7	1.2	73	133	0.28	.3	.78	14	6.0	6	32	77	0.3
% Rank	45%	50%	25%	20%	30%	75%	60%	75%	95%	75%	15%	35%	60%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-27	0.53	0.47	60	0.45	0.84	.011	46	73	101	45	146	235
% Rank	80%	65%	45%	25%	75%	25%	50%	90%	15%	20%	60%	40%	60%

7 OAF HOME TOWN 0216 ANGUS
 Reg. No. 20677068 Tattoo 0216 DOB 9/30/2022 PB
 Consignor DENNIS F. OVERCASH

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	74	714	3.9	1175	51.50	1228	39	1	4.21	12.5	.2	
Ratio/FS		102	107	96	5.9				111	100	91	

G A R ASHLAND AAA +*18217198 [RDF]

G A R HOME TOWN AAA *19266718 [RDF]
 CHAIR ROCK SURE FIRE 6095 AAA +*18644754

G A R PROPHET AAA #*16295688 [RDF]

OAF PROPHET 0713 AAA 19187228
 O A F SITZ UPWARD 0433 AAA 18161999

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	2	3.1	64	116	0.28	0.7	.55	16	12.9	13	29	66	.7
% Rank	85%	90%	45%	45%	30%	30%	75%	65%	45%	10%	35%	50%	25%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-20	0.52	0.43	51	0.98	0.92	-.053	62	58	99	79	178	293
% Rank	65%	60%	25%	45%	20%	15%	1%	55%	55%	25%	10%	15%	15%

9 HNF HIGH COTTON 071 ANGUS
 Reg. No. 20476694 Tattoo 071 DOB 10/13/2022 PB
 Consignor HAWKS NEST FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	83	685	3.5	1266	53.0	1303	37	1	4.24	12.5	.39	
Ratio/FS	100	100	98	104	6.9				100	100	100	

YON FINAL ANSWER W494 AAA +*16524794 [RDF]

YON HIGH COTTON D885 AAA +*18486587 [RDF]

YON WITCH X360 AAA *16685331

LEMMON SATISFACTION B106 AAA *18080051

BRITT'S LASS E34 AAA +*19478236

LEMMON LASS B502 AAA +*18080141

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	9	2.0	72	128	0.26	.9	.78	22	13.2	11	38	58	0.6
% Rank	30%	70%	25%	25%	45%	15%	60%	35%	40%	25%	3%	60%	30%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-21	0.50	0.56	53	0.74	.79	.037	74	77	92	57	150	269
% Rank	70%	55%	90%	40%	40%	30%	85%	25%	10%	35%	35%	35%	25%

11 HNF GROWTH FUND 069 ANGUS
 Reg. No. 20470988 Tattoo 069 DOB 09/03/2022 PB
 Consignor HAWKS NEST FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	81	653	4.3	1376	53.5	1558	42	1	4.04	12.9	.33	
Ratio/FS	105	111	120	113	6.6				85	97	143	

BASIN PAYWEIGHT 1682 AAA #+*17038724

DEER VALLEY GROWTH FUND AAA +*18827828 [RDF]

DEER VALLEY RITA 36113 AAA +*17785214

ZWT SUMMITT 6507 AAA +*18561289 [RDF]

LAWSON'S CHLOE 1924 AAA +*19560139

BASIN CHLOE 7T26 AAA +16104202

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	10	.5	86	162	0.34	.9	1.27	15	9.7	14	32	111	0.9
% Rank	20%	35%	4%	2%	3%	15%	25%	70%	80%	5%	15%	10%	10%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-44	.40	.38	70	0.49	.57	.0	57	80	112	45	157	261
% Rank	95%	15%	10%	10%	70%	65%	35%	70%	5%	10%	60%	30%	35%

12 HNF HOMETOWN 067 ANGUS
 Reg. No. 20471088 Tattoo 067 DOB 08/21/2022 PB
 Consignor HAWKS NEST FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	73	591	3.2	1173	51.80	1353	37	1	5.25	14.3	.19	
Ratio/FS	95	101	88	96	5.6				111	108	83	

G A R ASHLAND AAA +*18217198 [RDF]

G A R HOME TOWN AAA +*19266718 [RDF]

CHAIR ROCK SURE FIRE 6095 AAA +*18644754

PRIMUS EXCITEMENT 1454 AAA *17884457

PRIMUS CHLOE 1818 AAA 19144686

PRIMUS CHLOE 1152 AAA 17818252

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	20	-3.1	65	114	0.21	.3	.01	16	13.2	17	28	49	0.0
% Rank	1%	1%	45%	45%	85%	75%	95%	40%	40%	1%	40%	70%	85%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-11	0.55	0.51	49	1.39	1.13	.001	72	72	95	98	194	324
% Rank	40%	75%	65%	50%	4%	3%	35%	30%	15%	30%	2%	5%	3%

13 WELLS GROWTH FUND W291 ANGUS
 Reg. No. 20669062 Tattoo W291 DOB 10/25/2022 PB
 Consignor BERRY-WELLS FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	78	816	4.0	1270	51.5	1225	37	1	4.34	13.8	.17	
Ratio/FS	108	108	110	104	6.3				104	104	77	

DEER VALLEY GROWTH FUND AAA +*18827828 [RDF]

WELLS GROWTH FUND W011 AAA +*20020996

BRIDGES SURE FIRE 701 AAA *19014419

WELLS SUNRISE W727 AAA 19103848

WELLS SUNRISE W962 AAA 20648431

BRIDGES DOUBLE DOWN 6604 AAA +*18828041

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	3	2.1	69	114	0.22	.5	-.64	26	12.5	8	31	54	0.5
% Rank	80%	70%	35%	35%	45%	55%	95%	20%	45%	55%	20%	65%	40%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-15	0.43	0.39	43	.82	0.71	.004	78	72	80	63	143	263
% Rank	55%	25%	15%	65%	35%	40%	40%	15%	15%	60%	25%	45%	30%

14 WELLS EXPONENTIAL W203 ANGUS
 Reg. No. 20669012 Tattoo W1203 DOB 9/9/2022 PB
 Consignor BERRY-WELLS FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	65	756	3.8	1159	52.00	1278	41	1	5.14	11.7	.24	
Ratio/FS	100	100	105	95	6.0				100	100	100	

CASINO BOMBER N33 AAA *18658677 [RDF]

K C F BENNETT EXPONENTIAL AAA *19507801 [RDF]

K C F MISS SOUTHSIDE B226 AAA #*17863237 [RDF]

JINDRA ACCLAIM AAA #*17972810 [RDF]

WELLS ACCLAIM W901 AAA +*19710681

WELLS ALL IN W619 AAA *19203640

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	13	-.6	77	128	0.28	.5	1.03	13	16.8	9	42	64	0.4
% Rank	10%	15%	15%	25%	30%	55%	40%	75%	10%	15%	1%	55%	40%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-26	0.38	0.35	66	1.13	.72	.017	87	90	114	78	192	336
% Rank	80%	10%	4%	15%	15%	40%	60%	4%	1%	10%	10%	5%	2%

15 WELLS EXCLUSIVE W249 ANGUS
 Reg. No. 20669043 Tattoo W249 DOB 9/29/2022 PB
 Consignor BERRY-WELLS FARM

INDIVIDUAL PERFORMANCE												
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT	
Perf	78	726	3.7	1224	51.50	1258	38	1	3.99	12.7	.26	
Ratio/FS	108	101	102	101	5.9				96	95	118	

LD CAPITALIST 316 AAA #+*17666102 [RDF]

MUSGRAVE 316 EXCLUSIVE AAA *18130471 [RDF]

MUSGRAVE PRIM LASSIE 163-386 AAA *17511838

WELLS SUNRISE W727 AAA 19103848

WELLS SUNRISE W948 AAA 20648430

WELLS ALL IN W407 AAA 18221902

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	9	.1	65	112	0.21	.7	.74	28	15.2	10	33	58	0.4
% Rank	30%	25%	45%	50%	85%	30%	60%	10%	20%	35%	15%	60%	50%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-18	0.48	0.60	43	.77	0.45	.031	74	71	80	55	135	249
% Rank	60%	45%	95%	65%	35%	80%	80%	25%	20%	60%	40%	55%	45%

16 WELLS ENHANCE W228 ANGUS
 Reg. No. 20669032 Tattoo W228 DOB 9/16/2022 PB
 Consignor BERRY-WELLS FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	58	724	4.5	1260	52.50	1303	38	1	4.98	11.3	.27
Ratio/FS	95	103	124	103	6.3				98	92	113

SYDGEN EXCEED 3223 AAA #*17501893 [RDF]

SYDGEN ENHANCE AAA 18170041 [RDF]

SYDGEN RITA 2618 AAA 17405676

WELLS FORETOLD W821 AAA *19404170

WELLS EVERGREEN ERICA W044 AAA *20648432

BRIDGES ASHLAND 870 AAA *19215212

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	9	.6	82	150	0.33	1.0	1.69	29	11.1	11	29	87	0.7
% Rank	30%	35%	10%	5%	5%	10%	10%	10%	65%	25%	35%	25%	25%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-30	0.47	0.56	66	0.93	0.69	.042	67	78	109	65	175	294
% Rank	85%	40%	90%	15%	25%	45%	90%	40%	10%	10%	25%	15%	15%

17 WELLS REGIMENT W265 ANGUS
 Reg. No. 20669050 Tattoo W265 DOB 10/14/2022 PB
 Consignor BERRY-WELLS FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	70	776	3.5	1211	51.00	1238	39	1	5.21	14.1	.25
Ratio/FS	93	103	98	99	5.9				100	100	100

WAR CAVALRY B063 Z044 AAA *17979842

WILKS REGIMENT 9035 AAA *19401188 [RDF]

VINTAGE CHLOE 6137 AAA *18376117

G A R PREDESTINED AAA #*13395344

WELLS RITA W310 AAA 17921649

WELLS RITA W917 AAA 16686917

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	11	-1.0	75	134	0.29	.6	-28	13	12.7	7	30	71	0.4
% Rank	15%	10%	20%	20%	25%	45%	95%	75%	45%	65%	25%	45%	50%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-23	0.56	0.65	56	1.08	1.06	-.032	59	78	98	84	182	295
% Rank	75%	80%	95%	35%	15%	5%	10%	65%	10%	25%	10%	10%	10%

18 WELLS GROWTH FUND W224 ANGUS
 Reg. No. 20669029 Tattoo W224 DOB 09/15/2022 PB
 Consignor BERRY-WELLS FARM

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	68	690	3.7	1188	51.50	1225	39	1	5.16	13.3	.21
Ratio/FS	111	98	103	98	5.8				102	108	88

BASIN PAYWEIGHT 1682 AAA #*17038724

DEER VALLEY GROWTH FUND AAA *18827828 [RDF]

DEER VALLEY RITA 36113 AAA *17785214

WELYTOK PRIME DIVINE 6D91 AAA *18566618 [RDF]

WELLS PRIME DIVINE W009 AAA *20021004

WELLS ASHLAND W811 AAA *19404845

	CED	BW	WW	YW	RADG	YH	SC	DOC	HP	CEM	Milk	MW	MH
EPD	9	0	80	147	0.33	.8	.53	24	13.5	13	36	102	0.6
% Rank	30%	25%	10%	10%	5%	25%	75%	25%	35%	10%	5%	15%	30%
	\$EN	CLAW	ANG	CW	MRB	RE	FAT	\$M	\$W	\$F	\$G	\$B	\$C
EPD	-42	0.45	0.41	61	1.03	.78	.001	66	81	106	75	181	301
% Rank	95%	30%	20%	25%	15%	30%	35%	45%	4%	15%	15%	10%	10%

19 SFS GOLD K27 SIMMENTAL
 Reg. No. 4187014 Tattoo DFK27 DOB 09/16/2022 PB
 Consignor SHUFFLER FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	78	677	3.3	1165	50.8	1245	37	1	2.95	12.34	.25
Ratio/FS	99	100	96	99	5.4				90	102	139

HOOK'S EAGLE 6E USAAR - 4539337 3253742 BB PP

TJ GOLD 274G 3582577 BB PP

TJ 12C 3022920 BB PP

ASR LONGEVITY Y184 2598898 BB PP

SFS LENA G59 3710402 B P

SFS LENA A39 2815034 B P

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC
EPD	11.7	.02	79.9	121.2	.26	7.7	26.0	65.9	17.9	9.0
% Rank	45%	30%	45%	40%	40%	20%	30%	35%	30%	85%
	CWT	YG	MARB	B FAT	REA	SHR	API	TI		
EPD	25.0	-0.40	0.34	-0.070	0.92	-0.34	151.0	88.6		
% Rank	65%	60%	20%	85%	40%	55%	20%	25%		

20 SFS GOLD K39 SIMMENTAL
 Reg. No. 4187022 Tattoo SFK39 DOB 09/20/2022 PB
 Consignor SHUFFLER FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	84	656	3.2	1144	54.3	1265	36	1	3.54	11.5	.14
Ratio/FS	107	97	93	97	7.2				108	95	78

HOOK'S EAGLE 6E USAAR - 4539337 3253742 BB PP

TJ GOLD 274G 3582577 BB PP

TJ 12C 3022920 BB PP

TNT DUAL FOCUS T249 2421851 BB PP

ROCKIE 2957324 B P

BV ALMOST HEAVEN 2624115 B P

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC
EPD	13.0	-.5	75.1	113.3	.24	6.1	25.2	62.7	17.0	15.0
% Rank	25%	20%	65%	60%	55%	45%	35%	50%	40%	15%
	CWT	YG	MARB	B FAT	REA	SHR	API	TI		
EPD	25.2	-0.27	0.39	-0.039	.63	0.63	151.8	85.0		
% Rank	65%	99%	15%	99%	95%	95%	20%	30%		

21 SFS SOUTHSIDE XK08 SIMANGUS
 Reg. No. 4187020 Tattoo XK08 DOB 09/07/2022 50%
 Consignor SHUFFLER FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	78	672	3.3	1186	52.00	1305	39	1	4.24	11.99	.17
Ratio/FS	98	99	96	101	5.9				130	99	94

NICHOLS EXTRA K205 USAAN - 13752642 2277745 BB PP

K C F BENNETT SOUTHSIDE USAAN - 16430862 3051467 B PP

K C F MISS 208 S11 USAAN - 15558620 (3051466) B P

ASR LONGEVITY Y184 2598898 BB PP

SFS LENA G65 3710386 B P

SFS LENA Y56 2623013 B P

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC
EPD	10.3	1.0	87.0	142.6	.35	9.7	23.3	66.7	13.3	13.7
% Rank	80%	70%	20%	10%	10%	10%	50%	25%	70%	35%
	CWT	YG	MARB	B FAT	REA	SHR	API	TI		
EPD	62.9	-0.07	0.46	-0.033	.65	-0.18	139.8	88.8		
% Rank	2%	90%	30%	65%	55%	99%	35%	20%		

23 BCIV EPIC K201 SIMANGUS
 Reg. No. 4199155 Tattoo K201 DOB 09/01/2022 25%
 Consignor BROADWAY CATTLE FARM

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	72	748	4.3	1303	55.00	1490	40	1	4.57	11.0	.19
Ratio/FS	102	105	124	111	7.4				97	89	95

3F EPIC 4631 USAAN - 17950219 3363448 B PP

BCIV EPIC FC85 USAAN - 19374284 4025018 B PP
 USAAN - 19374284 4025018 B PP

PA POWER TOOL 9108 USAAN - 16381311 2836218 BB PP

BCIV MS POWER DESIGN 3312781 B P

BCIV BLAZE EXPECTATION 3311753 B P

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC
EPD	11.2	2.1	92.0	145.8	.31	6.7	24.1	70.0	13.7	12.0
% Rank	70%	85%	10%	10%	25%	50%	40%	15%	65%	55%
	CWT	YG	MARB	B FAT	REA	SHR	API	TI		
EPD	56.7	0.24	0.63	0.025	.11		140.0	89.1		
% Rank	3%	99%	15%	99%	99%		35%	15%		

24 BCIV EPIC K208 SIMANGUS
 Reg. No. 4199156 Tattoo K208 DOB 09/08/2021 37.5%
 Consignor BROADWAY CATTLE FARM

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	72	641	3.9	1239	53.50	1368	41	1	4.82	13.61	.20
Ratio/FS	102	90	112	106	6.7				103	111	100

3F EPIC 4631 USAAN - 17950219 3363448 B PP

BCIV EPIC FC85 USAAN - 19374284 4025018 B PP

TRIPLE L UPWARD 1368-133 USAAN - 17854010 (4025017) B P

BCIV BIG CASINO 2987568 BB P

BCIV SHOT OF LUCK F25 3526799 B P

BCIV SHOT OF LUCK S101A 3114396 B P

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC
EPD	9.8	1.0	83.7	133.0	0.31	6.7	14.4	56.2	17.2	11.7
% Rank	85%	70%	25%	25%	25%	50%	99%	80%	25%	60%
	CWT	YG	MARB	B FAT	REA	SHR	API	TI		
EPD	56.4	-0.01	0.21	0.004	0.69		122.5	75.1		
% Rank	4%	99%	75%	95%	50%		65	65%		

25 KEZIAH MAGIC DK09 SIMANGUS
 Reg. No. 4204847 Tattoo DK09 DOB 10/20/2022 50%
 Consignor KEZIAH FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	81	566	3.3	1093	50.30	1085	39	1	2.69	10.69	.15
Ratio/FS	101	101	95	93	5.6				100	100	100

BYERGO BLACK MAGIC 3348 USAAN - 17803074 3416855 BB PP

BCIV BLACK MAGIC 9049 USAAN - 19546597 3955974 B PP

BCIV BLACKCAP OF 771 USAAN - 18836276 (3955972) B PP

CAJS HULK HOGAN 2615813 BB P

BCIV MS COTTONTAIL OF 87 3280672 B P

BCIV MS TOPGRADE 2817653 B P

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC
EPD	8.7	2.1	84.9	136.8	0.32	1.9	21.4	63.8	10.6	8.8
% Rank	90%	85%	25%	20%	20%	99%	70%	40%	90%	90%
	CWT	YG	MARB	B FAT	REA	SHR	API	TI		
EPD	58	0.03	0.31	-0.009	0.46		117.0	79.4		
% Rank	3%	99%	55%	95%	85%		75	50%		

28 4B 290E NATURAL K06 HEREFORD
 Reg. No. 44436019 Tattoo K06 DOB 09/12/2022 PB
 Consignor FOUR B FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	84	578	2.7	1004	52.00	1078	37	2	3.04	11.59	.17
Ratio/FS	106	107	90	99	6.0				100	105	89

INNISFAIL WHR X651/723 4020 ET (IF4020) P43541951

WHITEHAWK NATURAL 290E (290E) P43763389

WHITEHAWK P152 BEEFMAID 854CET (854C) P43567046

INNISFAIL WHR X651/723 4020 ET (IF4020) P43541951

WHR 4020 T487 BEEFMAID 584E (584E) P43859797

KCF MISS 362 T487 (T487) P42852599

	CED	BW	WW	YW	MM	MG	MCE	MCW	UDDR	TEAT	SC
EPD	4.0	2.7	67	107	25	58	4.8	90	1.2	1.3	1.0
% Rank	41%	47%	8%	9%	61%	31%	17%	52%	49%	27%	44%
	DMI	SCF	CW	FAT	REA	MAR	BMI	BII	CHB		
EPD	.3	27.8	85	0.021	0.47	0.51	\$560	\$677	\$177		
% Rank	64%	1%	7%	50%	39%	2%	1%	1%	1%		

29 4B C406 MR STRONG 621D K66 HEREFORD
 Reg. No. 44427169 Tattoo K66 DOB 10/21/2022 PB
 Consignor FOUR B FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	87	572	3.1	1001	51.80	1013	39	1	3.01	10.48	.21
Ratio/FS	110	106	104	99	6.3				100	95	111

CHAN CMR STRONG Y449 W399 (W399) P43531570

CHAN CMR STRONG Y449 C406 (C406) P44073382

CHAN LADY WONDER W18 W281 (W281) 43531634

MPB WRANGLER 19D 1114 (1114Y) P43213470

4B 19D MS WRANGLER 545 621D (4B621D) 43766267

MPB BIG REDS DOMINETTE 1039 (1039) 43092024

	GED	BW	WW	YW	MM	MG	MCE	MCW	UDDR	TEAT	SC
EPD	-8.8	6.3	67	111	23	56	-4.0	129	1.2	1.2	0.8
% Rank	99%	97%	8%	5%	73%	41%	97%	99%	49%	54%	67%
	DMI	SCF	CW	FAT	REA	MAR	BMI	BII	CHB		
EPD	0.6	13.3	75	-0.039	0.30	0.09	\$312	\$392	\$121		
% Rank	88%	80%	25%	1%	75%	53%	75%	67%	34%		

31 4B H086 HOUSTON G920 K35 HEREFORD
 Reg. No. 44427156 Tattoo K35 DOB 10/02/2022 PB
 Consignor FOUR B FARMS

INDIVIDUAL PERFORMANCE											
	BW	WW	ADG	YW	YH	END WT	SC	T. DOC	U%IMF	URE	UFAT
Perf	75	580	3.3	1062	51.00	1073	38	2	2.64	12.89	.31
Ratio/FS	101		111	105	5.7				100	100	100

BOYD 31Z BLUEPRINT 6153 {DLF,HYF,IEF,MSUDF,MDF} (P43764491)

THM 4B BLUE MILES 0076 ET {DLF,HYF,IEF,MSUDF} (P44085681)

ILR LADY SMILES 5109 ET {DLF,HYF,IEF} (43610857)

KCF BENNETT REVOLUTION X51 {CHB,SOD,DLF,HYF,IEF,MDF} (P43081556)

4B X51 MO65 REVOLUTION 817F {HYP} (P43987092)

WILL-VIA MS VICTORIA T-106 {HYP} (P43243780)

	CED	BW	WW	YW	MM	MG	MCE	MCW	UDDR	TEAT	SC
EPD	3.2	2.7	68	118	30	64	-0.9	88	1.2	1.1	1.4
% Rank	49%	47%	6%	2%	30%	13%	82%	48%	49%	79%	11%
	DMI	SCF	CW	FAT	REA	MAR	BMI	BII	CHB		
EPD	0.8	12.2	93	0.061	0.81	0.32	\$323	\$417	\$161		
% Rank	97%	88%	2%	93%	3%	8%	69%	52%	3%		

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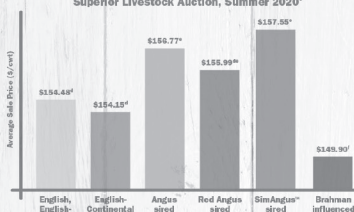
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* Lots that qualified for breed-related programs were excluded from the model due to potential confounding effects with sire breed analysis and, for many, few lots in the data.
† Means without a common superscript differ (P < .05). Lots of calves in breed-identified groups were sired by bulls from the respective breeds and lot of dams with no Brahman influence.

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American Angus Association Selection Tools

Expected Progeny Difference (EPD), is the prediction of how future progeny of each animal are expected to perform relative to the progeny of other animals listed in the database. EPDs are expressed in units of measure for the trait, plus or minus. Interim EPDs may appear on young animals when their performance has yet to be incorporated into the American Angus Association National Cattle Evaluation (NCE) procedures. This EPD will be preceded by an "I", and may or may not include the animal's own performance record for a particular trait, depending on its availability, appropriate contemporary grouping, or data edits needed for NCE.

Accuracy (ACC), is the reliability that can be placed on the EPD. An accuracy of close to 1.0 indicates higher reliability. Accuracy is impacted by the number of progeny and ancestral records included in the analysis.

Calving Ease Direct (CED), is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers. It predicts the average difference in ease with which a sire's calves will be born when he is bred to first-calf heifers.

Birth Weight (BW), expressed in pounds, is a predictor of a sire's ability to transmit birth weight to his progeny compared to that of other sires.

Weaning Weight (WW), expressed in pounds, is a predictor of a sire's ability to transmit weaning growth to his progeny compared to that of other sires.

Residual Average Daily Gain (RADG), feed efficiency expressed in pounds per day, is a predictor of a sire's genetic ability for postweaning gain in future progeny compared to that of other sires, given a constant amount of feed consumed.

Yearling Weight (YW), expressed in pounds, is a predictor of a sire's ability to transmit yearling growth to his progeny compared to that of other sires.

Yearling Height (YH), is a predictor of a sire's ability to transmit yearling height, expressed in inches, compared to the that of other sires.

Scrotal Circumference (SC), expressed in centimeters, is a predictor of the difference in transmitting ability for scrotal size compared to that of other sires.

Docility (DOC), is expressed as a difference in yearling cattle temperament, with a higher value indicating more favorable docility in a sire's offspring compared to another sire.

MATERNAL

Heifer Pregnancy (HP), is a selection tool to increase the probability or chance of a sire's daughters becoming pregnant as first-calf heifers during a normal breeding season. A higher EPD is the more favorable direction, and the EPD is reported in percentage units.

Calving Ease Maternal (CEM), is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf daughters. It predicts the average ease with which a sire's daughters will calve as first-calf heifers when compared to daughters of other sires.

Maternal Milk (Milk), is a predictor of a sire's genetic merit for milk and mothering ability in his daughters compared to daughters of other sires. In other words, it is that part of a calf's weaning weight attributed to milk and mothering ability.

Mature Weight (MW), expressed in pounds, is a predictor of the difference in mature weight of daughters of a sire compared to the daughters of other sires.

Mature Height (MH), expressed in inches, is a predictor of the difference in mature height of a sire's daughters compared to daughters of other sires.

FOOT SCORE

Claw Set (Claw), is expressed in units of claw-set score. A lower EPD is more favorable, indicating a sire will produce progeny with more ideal claw set, which is toes that are symmetrical, even and appropriately spaced.

Foot Angle (Angle), is expressed in units of foot-angle score. A lower EPD is more favorable, indicating a sire will produce progeny with more ideal foot angle, which is a 45-degree angle at the pastern joint with appropriate toe length and heel depth.

CARCASS

The genetic evaluation produces a single set of EPDs for carcass traits where the units of measure are in trait format and analyzed on an age-constant basis.

Carcass Weight (CW), expressed in pounds, is a predictor of the differences in hot carcass weight of a sire's progeny compared to progeny of other sires.

Marbling (Marb), is expressed as a fraction of the difference in USDA marbling score of a sire's progeny compared to progeny of other sires.

Ribeye Area (RE), expressed in square inches, is a predictor of the difference in ribeye area of a sire's progeny compared to progeny of other sires.

Fat Thickness (Fat), expressed in inches, is a predictor of the differences in external fat thickness at the 12th rib (as measured between the 12th and 13th ribs) of a sire's progeny compared to progeny of other sires.

\$VALUE INDEXES

\$Value Indexes, reported in dollars per head, are multi-trait selection indexes where a higher value suggests more profit. The \$Value is an estimate of how future progeny of each sire are expected to perform, on average, compared to progeny of other sires if sires were randomly mated to cows and if calves were exposed to the same environment.

Maternal Weaned Calf Value (\$M), expressed in dollars per head, predicts profitability differences in progeny due to genetics from conception to weaning. Increased selection pressure on \$M aims to decrease overall mature cow size and improve foot structure and fertility while maintaining weaning weights consistent with today's production.

Weaned Calf Value (\$W), expressed in dollars per head, provides the expected difference in future progeny preweaning performance from birth to weaning. Increased selection pressure on \$W increases weaning and maternal milk traits while increasing mature cow size.

Cow Energy Value (\$EN), expressed in dollars savings per cow per year, assesses differences in cow energy requirements as an expected dollar savings difference in daughters of sires. A larger value is more favorable when comparing two animals. Components for computing \$EN savings difference include lactation energy requirements and energy costs associated with differences in mature cow size.

Feedlot Value (\$F), expressed in dollars per head, is the expected average difference in future progeny performance for postweaning merit compared to progeny of other sires. The underlying objective assumes commercial producers will retain ownership of cattle through the feedlot phase and sell fed cattle on a carcass weight basis with no considerations of premiums or discounts for quality and yield grade.

Grid Value (\$G), expressed in dollars per carcass, is the expected average difference in future progeny performance for carcass grid merit, including quality and yield grade attributes, compared to progeny of other sires.

Beef Value (\$B), expressed in dollars per carcass, represents the expected average differences in the progeny postweaning performance and carcass value compared to progeny of other sires. This index assumes commercial producers wean all male and female progeny, retain ownership of these animals through the feedlot phase, and market these animals on a quality-based carcass grid.

Understanding Hereford EPDs

The American Hereford Association (AHA) currently produces expected progeny differences (EPDs) for 17 traits and calculates three profit indexes. AHA's genetic evaluation makes use of a Marker Effects Model that allows the calculation of EPDs by incorporating the pedigree, phenotypic and genomic profile of an animal. Animals that have a genomic profile will be denoted with a GE-EPD logo.

The current suite of Hereford EPDs and profit indexes includes:

Calving Ease — Direct (CE)

CE EPD is based on calving ease scores and birth weights and is measured on a percentage. CE EPD indicates the influence of the sire on calving ease in females calving at 2 years of age. For example, if sire A has a CE EPD of 6 and sire B has a CE EPD of -2, then you would expect on average, if comparably mated, sire A's calves would have an 8 percent more likely chance of unassisted calving when compared to sire B's calves.

Birth Weight (BW)

BW EPD is an indicator trait for calving ease and is measured in pounds. For example, if sire A has a BW EPD of 3.6 and sire B has a BW EPD of 0.6, then you would expect on average, if comparably mated, sire A's calves would come 3 lb. heavier at birth when compared to sire B's calves. Larger BW EPDs usually, but not always, indicate more calving difficulty. The figure in parentheses found after each EPD is an accuracy value or reliability of the EPD.

Weaning Weight (WW)

WW EPD is an estimate of pre-weaning growth that is measured in pounds. For example, if sire A has a WW EPD of 60 and sire B has a WW EPD of 40, then you would expect on average if comparably mated, sire A's calves would weigh 20 lb. heavier at weaning when compared to sire B's calves.

Yearling Weight (YW)

YW EPD is an estimate of post-weaning growth that is measured in pounds. For example, if sire A has a YW EPD of 100 and sire B has a YW EPD of 70, then you would expect on average if comparably mated, sire A's calves would weigh 30 lb. heavier at a year of age when compared to sire B's calves.

Dry Matter Intake (DMI)

The DMI EPD predicts the daily consumption of pounds of feed. For example, if sire A has a DMI EPD of 1.1 and sire B has a DMI EPD of 0.1, you would expect sire B's progeny, if comparably mated, to consume on average 1 pound of feed less per day.

Scrotal Circumference (SC)

Measured in centimeters and adjusted to 365 days of age, SC EPD is the best estimate of fertility. It is related to the bull's own semen quantity and quality, and is also associated with age at puberty of sons and daughters. Larger SC EPDs suggest younger age at puberty. Yearling sons of a sire with a 0.7 SC EPD should have yearling scrotal circumference measurements that average 0.7 centimeters (cm) larger than progeny by a bull with an EPD of 0.0 cm.

Sustained Cow Fertility

The AHA's new SCF EPD is a prediction of a cow's ability to continue to calve from three years of age through 12 years of age, given she calved as a two-year-old. The EPD is expressed as a deviation in the proportion of the 10 possible calvings to 12 years old expressed as a probability. For example, the daughters of a bull with a 30 EPD would have the genetic potential to have one more calf by age 12 than the daughters from a bull with a 20 EPD. In other words, the daughters from the 30 EPD bull would have a 10% greater probability of having one more calf than the bull with a 20 EPD. This is equivalent to saying that the daughters are 10% more likely to remain in the herd to age 12.

Maternal Milk (MM)

The MM EPD of a sire's daughters is expressed in pounds of calf weaned. It predicts the difference in average weaning weights of sires' daughters' progeny due to milking ability. Daughters of the sire with a +14 MM EPD should produce progeny with 205-day weights averaging 24 lb. more (as a result of greater milk production) than daughters of a bull with a MM EPD of -10 lb. (14 minus -10.0 = 24 lb.). This difference in weaning weight is due to total milk production during the entire lactation.

Maternal Milk & Growth (M&G)

The M&G EPD reflects what the sire is expected to transmit to his daughters for a combination of growth genetics through weaning and genetics for milking ability. It is an estimate of the daughter's progeny weaning weight. A bull with a 29 lb. M&G EPD should sire daughters with progeny weaning weights averaging 19 lb. heavier than progeny of a bull's daughters with a M&G EPD of 10 lb. (29 minus 10 = 19 lb.). It is equal to one-half the sire's weaning weight EPD, plus all of his MM EPD. No accuracy is associated with this since it is simply a mathematical combination of two other EPDs. It is sometimes referred to as "total maternal" or "combined maternal."

Maternal Calving Ease (MCE)

MCE EPD predicts how easily a sire's daughters will calve at two years of age and is measured on a percentage. For example, if sire A has a MCE EPD of 7 and sire B has a CE EPD of -3, then you would expect on average if comparably mated, sire A's daughters would calve with a 10% more likely chance of being unassisted when compared to sire B's daughters.

Mature Cow Weight (MCW)

The MCW EPD was designed to help breeders select sires that will either increase or decrease mature size of cows in the herd. The trait was developed after years of cow weight data collection and the EPD relates directly to the maintenance requirements of a cow herd. For example, if sire A has a MCW EPD of 100 and sire B has an EPD of 85, then you would expect the females of sire A, if comparably mated, to be 15 lb. heavier at mature size.

Udder suspension (UDDR)

UDDR EPDs are reported on a 9 (very tight) to 1 (very pendulous) scoring scale. Differences in sire EPDs predict the difference expected in the sires' daughters' udder characteristics when managed in the same environment.

For example, if sire A has a UDDR EPD of 0.4, and sire B has a UDDR EPD of -0.1, the difference in the values is 0.5, or one-half of a score. If daughters of sires A and B are raised and managed in the same environment, you would expect half a score better udder suspension in daughters of sire A, compared to sire B.

Teat size (TEAT)

TEAT EPDs are reported on a 9 (very small) to 1 (very large, balloon shaped) scoring scale. Differences in sire EPDs predict the difference expected in the sires' daughters' udder characteristics when managed in the same environment.

For example, if sire A has a teat size EPD of 0.4, and sire B has a teat size EPD of -0.1, the difference in the values is 0.5, or one-half of a score. If daughters of sires A and B are raised and managed in the same environment, you would expect half a score smaller teat size in daughters of sire A, compared to sire B.

Carcass Weight (CW)

CW EPD is a beneficial trait when considering the impact that pounds have relative to end product value. At the same age constant endpoint, sires with higher values for carcass weight will add more pounds of hot carcass weight compared to sires with lower values for carcass weight. For example, if sire A has a CW EPD of 84 and sire B has a CW EPD 64, then you would expect the progeny of sire A, if harvested at the same age constant endpoint, to have a 20-lb. advantage in terms of hot carcass weight.

Rib Fat (FAT)

The FAT EPD reflects differences in adjusted 365-day, 12th-rib fat thickness based on carcass measurements of harvested cattle. Sires with low, or negative FAT EPDs, are expected to produce leaner progeny than sires with higher EPDs. Ultrasound measures are also incorporated into this trait and have been shown to be highly correlated with the performance of slaughter progeny. All data is expressed on a carcass scale.

Ribeye Area (REA)

REA EPDs reflect differences in an adjusted 365-day ribeye area measurement based on carcass measurements of harvested cattle. Sires with relatively higher REA EPDs are expected to produce better-muscled and higher percentage yielding slaughter progeny than will sires with lower REA EPDs. Ultrasound measurements are also incorporated into this trait and have been shown to be highly correlated with the performance of slaughter progeny. All data is expressed on a carcass scale.

Marbling (MARB)

MARB EPDs reflect differences in an adjusted 365-day marbling score (intramuscular fat, [IMF]) based on carcass measurements of harvested cattle. Breeding cattle with higher MARB EPDs should produce slaughter progeny with a higher degree of IMF and therefore higher quality grades. Ultrasound measurements are also incorporated into this trait and have been shown to be highly correlated with the performance of slaughter progeny. All data is expressed on a carcass scale.

Baldy Maternal Index (BMIS)

The BMIS is a maternally focused index that is based on a production system that uses Hereford x Angus cross cows. Progeny of these cows are directed towards Certified Hereford Beef. This index has significant weight on Sustained Cow Fertility, which predicts fertility and longevity of females. There is a slightly positive weight on Weaning Weight, Mature Cow Weight and Milk which accounts for enough growth but ensures females do not increase inputs. There is some negative emphasis on Dry Matter Intake, but a positive weighting on Carcass Weight which is anticipated to provide profitability from finishing of non-replacement females and castrated males. Marbling and Rib-eye Area are also positively weighted to keep the harvested progeny successful for CHB. This index is geared to identify Hereford bulls that will be profitable when used in a rotational cross with mature commercial Angus cows.

Brahman Influence Index (BIIS)

The BIIS is a maternally focused index that is based on a production system that uses Brahman x Hereford cross cows. Progeny of these cows are directed towards a commodity beef market since Certified Hereford Beef® does not accept Brahman influenced cattle. This index has significant weight on Sustained Cow Fertility, which predicts fertility and longevity of females. There is a slightly positive weight on Weaning Weight, Mature Cow Weight and Milk which accounts for enough growth but ensures females do not increase inputs. There is some negative emphasis on Dry Matter Intake, but a positive weighting on Carcass Weight which is anticipated to provide profitability in finishing non-replacement females and castrated males. Marbling and Rib-eye Area are also positively weighted to keep harvested progeny successful for a variety of commodity based programs. This index targets producers that use Hereford bulls on Brahman influenced cows.

Certified Hereford Beef Index (CHBS) The Certified Hereford Beef Index (CHBS) is a terminal sire index that is built on a production system where Hereford bulls are mated to mature commercial Angus cows where all progeny will be targeted for Certified Hereford Beef after the finishing phase. This index has significant weight on Carcass Weight and Marbling to ensure profit on the rail. As well there is a positive weighting for Average Daily Gain along with a negative weighting on Dry Matter Intake to ensure efficient pounds of growth in the finishing phase. In addition, there is a positive weighting for Rib-eye Area and a negative weighting for Back Fat to maintain desirable Yield Grades. This is the only index that has no emphasis on fertility. Remember that no replacement heifers are being retained.



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Quick Reference to ASA EPD and \$ Indexes

Expected Progeny Differences (EPD): EPD are the most accurate and effective tool available for comparing genetic levels. In using EPD, the difference between two sires' EPD represents the unit difference expected in the performance of their progeny. For example, if sires A and B have EPD of +10 and -5, a 15-unit difference would be expected in their progeny (moving from -5 to +10 yields 15 units). Key to using EPD is knowing what units they are expressed in. For example, if the above case referred to weaning weight EPD, A would be expected to sire 15-pounds more weaning weight than B. If calving ease were the trait, A would be expected to sire 15-percent more unassisted births in first-calf heifers; in other words, if B sired 30 assists in a group of 100 heifers, we'd expect A to require 15 assists. A percentile-ranking chart is required to determine where a bull's EPD rank him relative to other bulls in the breed. For percentile rankings or more detailed information about EPD and \$ indexes visit www.simmental.org. Listed below are the units ASA EPD are expressed in:

All-Purpose Index (API): Dollars per cow exposed under an all-purpose-sire scenario. (See below for more details.)

Back Fat (BF): Inches of backfat.

Birth Weight (BW): Pounds of birth weight.

Calving Ease (CE): Percent of unassisted births when used on heifers.

Carcass Weight (CW): Pounds of carcass weight.

Maternal Calving Ease (MCE): Percent of unassisted births in first-calving daughters.

Milk (MLK): Pounds of weaning weight due to milk.

Marbling (MRB): Marbling score.

Maternal Weaning Weight (MWW): Pounds of weaning weight due to milk and growth.

Ribeye Area (REA): Square inches of ribeye.

Warner-Bratzler Shear Force (WBSF):

Pounds of force required to shear a steak.

Stayability (STAY): Percent of daughters remaining in the cowherd at 6 years of age.

Terminal Index (TI): Dollars per cow exposed under a terminal-sire scenario. (See below for more details.)

Weaning Weight (WW): Pounds of weaning weight.

Yearling Weight (YW): Pounds of yearling weight.

Yield Grade (YG): Yield grade score.

\$ Indexes: Though EPD allow for the comparison of genetic levels for many economically important traits, they only provide a piece of the economic puzzle. That's where \$ indexes come in. Through well-conceived, rigorous mathematical computation, \$ indexes blend EPD and economics to estimate an animal's overall impact on your bottom line. The same technology that led to the dramatic progress in swine, poultry and dairy genetics over the last several decades was used to develop the following \$ indexes: **All-Purpose Index (API):** Evaluates sires for use on the entire cow herd (bred to both Angus first-calf heifers and mature cows) with the portion of their daughters required to maintain herd size retained and the remaining heifers and steers put on feed and sold grade and yield.

Terminal Index (TI): Evaluates sire for use on mature Angus cows with all offspring put on feed and sold grade and yield.

Using API and TI: First, determine which index to use; if you're keeping replacements use API, if not, TI. Then, just as with EPD, zero in on the unit difference between bulls. (As described above, index units are in dollars per cow exposed.) The difference can be used to determine how much a bull is worth compared to another. Or, put another way, how much you can pay for one bull compared to another. For example, when buying an all-purpose-type sire, you can quickly figure a bull scoring +100 for API is worth an extra \$6,000 over a +50 bull if both are exposed to 30 cows over 4 years (\$50 diff. x 30 hd. x 4 yr. = \$6,000). A percentile-ranking chart is required to determine where a bull's index value ranks him relative to other bulls in the breed. For percentile rankings or more detailed information about EPD and \$ indexes visit www.simmental.org.



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Saturday, December 2, 2023

11:00 am

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Phone: 919-552-9111

Test Station MGR: Kyle Miller, 828-456-3943, NCDA Mountain Research Station

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