Spring
2024

Beef
Sire Directory

CRV
BETTER COWS > BETTER LIFE

CRV, leading
in **health** and **efficiency**

FOCUSED
PASSIONATE
CUSTOMER-FOCUSED
CONSISTENT

DELIVERING SOLUTIONS THROUGH GENETICS

FOR AN EASY-TO-MANAGE HERD

CRV is not just another bull stud. What sets us apart are our core values—values that focus on delivering the genetic solutions producers need to **build better cows for a better life.** But, what does that mean forcattlemen? It means that at CRV, regardless of size,location, and management—we help producers improve their operation each year and take them to the **next level of success**.

We provide breeding and management solutions for better decision making that ultimately **lightens the workload** for ranchers. We bring innovations tofarms—helping them **operate more smoothly** and get the **best results possible**.

It's simple—we help our customers build more profitable and easy-to-manage herds—it's in our genes and it's what sets us apart from the industry.

With a healthier **more consistent herd, easier-to-manage**, and profitable operation, a beef producer, herd manager,or ranch hand will achieve a better work-life balance—and here's how CRV is going to get you there.

Cover photos courtesy BEEF NORTHWEST FEEDERS

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9	097AN00037	Connealy **Fortune** 752L	18870410	$25	$40	ANGUS
16	097AN00048	Baldridge **Cyclone** F289	19478576	$20	$40	ANGUS
4	097AN00057	Quaker Hill **Exclamation** 8JA3	19379565	$20	$40	ANGUS
4	097AN00058	Quaker Hill **Leverage** 8JA21	19424778	$20	$40	ANGUS
13	097AN00062	Quaker Hill **Dynamic** 0EN9	19994331	$25	$40	ANGUS
16	097AN00063	Quaker Hill **Blazer** 0A8	19994507	$25	$40	ANGUS
14	097AN00064	Quaker Hill **Rocket** 0U10	19991758	$25	$40	ANGUS
14	097AN00065	Quaker Hill **Rush** 0U20	19991324	$25	$40	ANGUS
13	097AN00069	Pine View **Set Apart** H360	20054207	$25	$40	ANGUS
12	097AN00070	Pine View **Inertia** H301	20050689	$25	$40	ANGUS
10	097AN00071	EXEC Mr **Horse Power** 2SA5	19872705	$20	$40	ANGUS
10	097AN00072	EXEC Mr **Drill Sergeant** 2EN3	19977965	$20	$40	ANGUS
12	097AN00073	Huwa **Payweight** F117	20009698	$25	$40	ANGUS
8	097AN00078	Baldridge **Justus** J123	20039476	$20	$40	ANGUS
6	097AN00079	Ferguson **Money Market** 26J	20184161	$25	$40	ANGUS
15	097AN00080	Ferguson **Relentless** 49J	20185775	$25	$40	ANGUS
8	097AN00081	Baldridge **Jolly** J928	20191618	$20	$40	ANGUS
15	097AN00083	Ferguson **Nasdaq** 333J	20184157	$25	$40	ANGUS
11	097AN00084	M K **Drifter** 1317	20095290	$25	$40	ANGUS
5	097AN00090	Schaack **Home Run** 1002	20224351	$25	$40	ANGUS
16	097AN00091	Guess **Enrich** 206J	20127927	$25	$40	ANGUS
6	097AN00092	M K **Relevance** 2304	20499864	$25	$40	ANGUS
7	097AN00094	Connealy **El Ancho**	20385837	$25	$40	ANGUS
17	097AR00005	Quaker Hill **Ultra** H902	4229866	$20		RED ANGUS
17	097CH00001	EXEC/PFF **Mr Denali** 2SV6	M948652	$20		CHAROLAIS
18	097SM00001	Nichols **Beefmaker** SXF0**68**	3440906	$25		SIMMENTAL
18	097SM00002	Nichols **Beefmaker** SXG**181**	3601851	$25		SIMMENTAL
19	097LM00016	Wulfs **Cooley** 3710C	LFM2081567	$20		LIMOUSIN
19	097LM00017	**Wulfs 5395G** B2F	NXM2168288	$20		LIMOUSIN
20	097LM00018	**Wulfs 2139E** B2F	NPM2119927	$20		LIMOUSIN
20	097LM00019	**Wulfs 1086H** B2F	LFM2326096	$20		LIMOUSIN
21	097KB00001	Ms Sir Taka Ito **Fuji** 403J ET	FB86531	$20		WAGYU
21	097KB00002	Ms Sir Hasty **Redstorm** 412J ET	FB85733	$20		WAGYU
22	054BM00028	**D'Angelo**	C1081070	$20		BEEFMASTER
22	054BM00029	L Bar **Tejas**	C1082471	$20		BEEFMASTER

QUAKER HILL **LEVERAGE** 8JA21

NAAB#: 097AN00058 **REG NO:** 19424778

- LEVERAGE scores high for tenderness in his genomic scores.
- This Acclaim son has top growth EPDs while maintaining good birth weight and calving ease.

Jindra 3rd Dimension
Jindra Acclaim
Jindra Blackbird Lassy 1111

Hoover Dam
Quaker Hill Blackcap 2H8
Quaker Hill Blackcap 9Y35

TATTOO: 8JA21
DOB: 9/21/2018
BW: 70/ratio 96
WW: 797/ratio 134
YW: 1517/ratio 130
YR. SC: 37.21 CM
YR. HEIGHT: 49.3

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	7	0.6	76	148	0.34	1.55	0.9	0.85	11	0.47	0.54	0.88	0.60	14.1	12	28	147	0.9	-60	80	0.92	0.68	0.010	142	125	31	62	206	298
Accuracy	0.36	0.54	0.47	0.41	0.34	0.34	0.50	0.47	0.35	0.34	0.34	0.30	0.30	0.26	0.32	0.34	0.41	0.45	-	0.43	0.38	0.38	0.34	-	-	-	-	-	-
Percentile Rankings	45	35	20	10	4	85	15	50	80	40	80	45	65	25	20	40	1	10	95	3	20	40	45	25	25	95	45	3	15

QUAKER HILL **EXCLAMATION** 8JA3

NAAB#: 097AN00057 **REG NO:** 19379565

- Exclamation is a breed leader in RADG while still maintaining desirable maternal traits.
- He adds carcass merit to his offspring while transmitting excellent foot and leg structure.
- A calving ease sire who will add extra growth while keeping stature in an ideal place.

Jindra 3rd Dimension
Jindra Acclaim
Jindra Blackbird Lassy 1111

B/R New Day 454
Bridges 454 New Day 122
GAR Predestined A7003

TATTOO: 8JA31
DOB: 9/20/2018
BW: 66 /ratio 90
WW: 693 /ratio 117
YW: 1584 /ratio 136
YR. SC: 37.68 CM
YR. HEIGHT: 47.8

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	11	-0.5	60	134	0.34	1.82	0.2	-0.05	14	0.43	0.45	-0.99	0.93	9.2	15	34	92	0.2	-36	65	0.92	0.70	-0.012	158	112	42	57	196	296
Accuracy	0.36	0.56	0.47	0.42	0.35	0.35	0.51	0.48	0.36	0.35	0.35	0.30	0.31	0.27	0.32	0.35	0.41	0.44	-	0.44	0.40	0.39	0.35	-	-	-	-	-	-
Percentile Rankings	15	20	60	20	4	95	80	95	70	25	30	10	95	80	3	10	20	65	90	15	20	35	20	15	30	90	60	5	15

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

SCHAACK **HOME RUN** 1002

NAAB#: 097AN00090 **REG NO:** 20224351

ANGUS

- This Home Town son is backed by the great cows 7041 and 5M13 on the bottom side.
- He blends calving ease, growth and carcass into one great package.
- If you are looking for a top 2% PAP EPD bull who is also in the top 10% for HS, you have found your bull!

GAR Ashland
GAR Home Town
Chair Rock Sure Fire 6095

Connealy KW 1664 Consensus
KW 7010 1664 Consensus 3405
Rita 7041 of Rita 5M13 OBJ

TATTOO: 1002
DOB: 2/24/2021
BW: 84 /ratio 102
WW: 746 /ratio 104
YW: 1197 /ratio 104
YR. SC: 38.06 CM
YR. HEIGHT: 49.3

OWNER(S): Schaack Ranch, Wall SD & Wade Schaack, Clark SD

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	16	-0.2	78	139	0.28	1.86	0.4	0.71	18	0.53	0.45	-2.27	0.24	14.2	9	33	71	0.3	-25	63	1.36	1.21	-0.018	231	222	74	82	204	339
Accuracy	0.37	0.58	0.47	0.42	0.34	0.34	0.52	0.49	0.36	0.36	0.36	0.27	0.31	0.27	0.32	0.33	0.38	0.40	-	0.43	0.40	0.39	0.37	-	-	-	-	-	-
Percentile Rankings	2	20	15	15	30	95	60	60	50	65	30	2	10	25	45	15	40	55	75	20	3	1	15	1	1	20	4	3	2

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

FERGUSON **MONEY MARKET** 26J

NAAB#: 097AN00079 **REG NO:** 20184161

- A moderate framed bull with added growth and REA.
- With 17 traits in the top third of the breed, he is a balanced sire prospect.
- His 2-year-old dam did a magnificent job raising him.
- He posted ratios for WW of 116 and YW of 111.

Basin Payweight 1682
Deer Valley Growth Fund
Deer Valley Rita 36113
A&B Ferguson 6186
Ferguson Ms Ferg 202G
Ferguson MS Infinity 146E

TATTOO: 26J
DOB: 1/23/2021
BW: 77 /ratio 104
WW: 705 /ratio 116
YW: 1331 /ratio 111
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	8	1.2	86	151	0.30	1.84	0.7	0.75	30	0.42	0.48	3.32	1.00	12.6	12	40	56	0.2	-21	73	0.65	1.04	0.066	158	173	93	94	162	303
Accuracy	0.38	0.54	0.47	0.42	0.34	0.34	0.46	0.39	0.35	0.29	0.29	0.28	0.31	0.26	0.32	0.33	0.38	0.41	-	0.43	0.37	0.37	0.33	-	-	-	-	-	-
Percentile Rankings	35	50	5	5	20	95	30	60	5	20	50	90	95	50	20	2	65	70	70	10	55	10	95	20	15	2	1	30	15

M K **RELEVANCE** 2304

NAAB#: 097AN00092 **REG NO:** 20499864

- A son out the $150,000 Relevance that sold to ABS in the 2019 Woodhill Farms sale.
- A calving ease sire who adds pounds to his calves with well marbled ribeyes.
- He stems from the great Chloe 706 that resides at Lylester Ranch and traces back to Basin Chloe 6U59.

Connealy Confidence Plus
Woodhill Relevance
Woodhill Blackbird X197-Z7
Jindra Acclaim
MK Chloe 706
MK Chloe 511

TATTOO: 2304
DOB: 2/12/2022
BW: 82 /ratio 100
WW: 722 /ratio 104
YW: 1348 /ratio 107
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	5	0.3	79	156	0.38	1.80	0.5	0.45	19	0.51	0.42	1.01	0.36	14.4	6	27	95	0.4	-33	77	0.82	0.96	0.024	202	190	63	71	198	320
Accuracy	0.34	0.55	0.48	0.43	0.33	0.33	0.46	0.48	0.37	0.30	0.30	0.26	0.28	0.24	0.32	0.33	0.38	0.40	-	0.41	0.36	0.36	0.32	-	-	-	-	-	-
Percentile Rankings	60	30	15	3	1	90	55	80	50	55	20	50	25	30	75	45	20	50	90	5	35	15	65	5	10	55	20	10	10

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CONNEALY **EL ANCHO**

NAAB#: 097AN00094 **REG NO:** 20385837

- This bull gets his name because of the width of base and top he possesses.
- He is moderate frame bull that is calving ease with extra ribeye. Not a common combination to find.
- He should sire replacement females that calve unassisted, have plenty of milk, re-breed and stay in good body condition.

KCF Bennett Consent Y75

KCF Bennett Summation

Thomas Patricia 9705

LD Capitalist 316

Black Connie of Conanga 945N

Black Cora of Conanga 810

TATTOO: 153K
DOB: 11/9/2021
BW: 72 /ratio 97
WW: 624 /ratio 101
YW: 1107 /ratio 100
YR. SC: 34.61
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	14	-2.1	73	126	0.28	0.96	0.2	0.66	27	0.44	0.40	2.13	0.63	16.6	14	28	35	-0.1	-3	64	0.51	0.96	0.024	180	177	103	82	164	316
Accuracy	0.39	0.57	0.49	0.44	0.34	0.34	0.48	0.49	0.46	0.36	0.31	0.27	0.30	0.27	0.33	0.34	0.41	0.44	-	0.43	0.39	0.38	0.36	-	-	-	-	-	-
Percentile Rankings	4	4	25	30	35	40	85	65	15	30	15	75	70	10	10	40	85	90	25	20	70	15	65	15	10	1	3	25	10

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

BALDRIDGE **JOLLY** J928

NAAB#: 097AN00081 **REG NO:** 20191618

- JOLLY posted a UREA of 15 and a 5.64 UIMF.
- Combining his own performance and genomic scores, he will add carcass merit in his progeny.
- A moderate framed, calving ease specialist, he exhibits the shape and dimension desired today.
- His combination of HP, CEM, Milk and MW will make productive daughters that will last for many years.

Koupals B&B Identity
Mill Brae Identified 4031
Mill Brae Pro Blackcap 1092
Hoover No Doubt
Baldridge Isabel F062
Baldridge Isabel B061

TATTOO: J928
DOB: 2/6/2021
BW: 78 /ratio 100
WW: 719 /ratio 100
YW: 1209 /ratio 100
YR. SC: 39.33 CM
YR. HEIGHT: 49.9

OWNER(S): CRV, Madison WI, Judson & Denise Baldridge, North Platte NE

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	14	-2.1	59	108	0.23	1.13	0.0	1.45	11	0.46	0.46	3.29	0.58	18.6	16	32	18	0.0	3	56	1.24	0.88	0.061	207	186	96	73	191	344
Accuracy	0.35	0.51	0.43	0.38	0.32	0.32	0.52	0.48	0.37	0.29	0.29	0.26	0.30	0.26	0.33	0.34	0.37	0.41	-	0.42	0.39	0.38	0.36	-	-	-	-	-	-
Percentile Rankings	4	4	65	60	75	50	95	20	85	35	40	90	65	3	2	15	95	85	15	35	10	20	95	4	10	1	15	10	2

BALDRIDGE **JUSTUS** J123

NAAB#: 097AN00078 **REG NO:** 20039476

- JUSTUS daughters should be moderate females that milk well with docility and a good pattern.
- A calving ease prospect, he also has a nice pattern with great depth of rib.
- He will add ribeye to his calves while keeping a good IMF score.

Sitz Rainmaker 11127
21AR Rainmaker 8343A
21AR Eldorene 2025A
LD Capitalist 316
Baldridge Queen G040
Baldridge Queen A051

TATTOO: J123
DOB: 1/19/2021
BW: 56 /ratio 76
WW: 695 /ratio 99
YW: 1202 /ratio 95
YR. SC: 39.28 CM
YR. HEIGHT: 49.3

OWNER(S): CRV, Madison WI, Judson & Denise Baldridge, North Platte NE

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	14	-1.8	67	116	0.26	1.09	0.2	1.47	28	0.58	0.56	-0.36	0.54	12.1	14	31	41	-0.1	-8	44	0.75	0.89	0.025	150	140	78	77	141	261
Accuracy	0.35	0.52	0.45	0.41	0.30	0.30	0.50	0.46	0.35	0.26	0.26	0.22	0.23	0.22	0.28	0.30	0.36	0.37	-	0.38	0.34	0.34	0.32	-	-	-	-	-	-
Percentile Rankings	4	5	40	45	50	50	85	15	10	85	85	20	55	55	10	20	80	90	35	65	40	20	70	25	25	15	10	55	40

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CONNEALY **FORTUNE** 752L

NAAB#: 097AN00037 **REG NO:** 18870410

- If you want calves with a gentle disposition and expositive growth, this is your sire.
- Sons exhibit more muscle, more power and more bone. They have been an especially sought-after sire group when offered in sales.
- Daughters are excelling and have produced high selling offspring for multiple producers.

VAR Discovery 2240

MGR Treasure

SJH Impression of 6108 1614

Dr J Analyst M250

Quick Fair of Conanga 831

Quick Fawn of Conanga 680

TATTOO: 752L
DOB: 1/24/2017
BW: 80 /ratio 100
WW: 846 /ratio 118
YW: 1504 /ratio 126
YR. SC: 37.24 CM
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	1	2.6	97	172	0.36	1.97	1.1	1.56	24	0.46	0.50	1.74	0.60	12.6	8	16	150	1.2	-55	78	1.29	0.50	0.001	47	75	43	72	205	309
Accuracy	0.63	0.85	0.85	0.85	0.66	0.66	0.84	0.85	0.84	0.74	0.72	0.27	0.36	0.60	0.70	0.69	0.62	0.55	-	0.54	0.49	0.49	0.49	-	-	-	-	-	-
Percentile Rankings	85	80	1	1	2	95	4	15	25	35	60	65	65	40	55	95	1	2	95	3	4	65	35	75	50	90	20	3	10

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EXEC MR **DRILL SERGEANT** 2EN3

NAAB#: 097AN00072 **REG NO:** 19977965

- DRILL SERGEANT is a high growth son of SS Enforcer with a 331 $C.
- He comes from the Williams Erica cow family that has seen success.

SydGen Enhance
S S Enforcer E812
S S Miss Daybreak K011 3K17
E W A Peyton 642
EXEC Ms Erica 8345
Williams Prop Erica 255-139

TATTOO: 2EN3
DOB: 10/26/2020
BW: NA
WW: NA
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): Christopher Terembes, Charlottesville, VA

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	7	0.9	95	174	0.34	2.54	1.1	0.68	32	0.51	0.47	2.39	0.33	19.0	7	29	136	1.2	-55	78	1.27	0.83	.015	162	154	70	83	201	331
Accuracy	0.33	0.49	0.41	0.37	0.30	0.30	0.43	0.39	0.35	0.28	0.28	0.26	0.27	0.22	0.32	0.31	0.35	0.38	-	0.38	0.35	0.35	0.31	-	-	-	-	-	-
Percentile Rankings	45	45	1	1	4	95	5	65	3	55	45	80	20	2	65	30	2	3	95	4	10	25	55	20	20	35	3	5	3

EXEC MR **HORSE POWER** 2SA5

NAAB#: 097AN00071 **REG NO:** 19872705

- HORSE POWER is a high growth bull with great marbling and ribeye.
- He is leading the breed in the top 1% for WW, YW, MW, MH, CW and $F.

GAR Sure Fire
GAR Set Apart
Ogeechee Sunrise 5049
EWA Peyton 642
EXEC Ms Erica 8345
Williams Prop Erica 255-139

TATTOO: 2SA5
DOB: 10/16/2020
BW: NA
WW: NA
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): Christopher Terembes, Charlottesville, VA

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	8	2.9	108	186	0.32	2.51	1.4	0.61	20	0.57	0.50	1.29	0.57	11.4	12	22	142	1.5	-54	95	1.17	1.17	0.042	204	254	54	85	221	341
Accuracy	0.34	0.51	0.43	0.38	0.31	0.31	0.45	0.40	0.35	0.27	0.27	0.25	0.30	0.22	0.32	0.31	0.36	0.39	-	0.39	0.36	0.36	0.32	-	-	-	-	-	-
Percentile Rankings	35	85	1	1	10	95	1	70	45	80	60	55	60	60	20	80	1	1	95	1	15	3	85	4	1	80	2	2	2

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

M K **DRIFTER** 1317

NAAB#: 097AN00084 **REG NO:** 20095290

ANGUS

- DRIFTER is an outstanding prospect for adding pounds to your calf crop while keeping a good phenotype.
- A massive bull, he has more muscle, top and bone than most.
- This bull will put muscle and dimension in his progeny while maintaining carcass merit.

Basin Payweight 1682
Poss Maverick
Poss Pride 5163

Jindra Acclaim
MK Chloe 706
MK Chloe 511

TATTOO: 1317
DOB: 2/21/2021
BW: 90 /ratio 100
WW: 760 /ratio 100
YW: 1402 /ratio 100
YR. SC: 41 CM
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	-8	5.3	99	167	0.39	0.85	0.9	1.65	24	0.56	0.40	0.90	0.92	11.3	9	33	151	1.2	-65	99	0.98	1.00	0.018	203	205	39	78	226	332
Accuracy	0.35	0.51	0.44	0.39	0.33	0.33	0.45	0.48	0.37	0.30	0.30	0.27	0.29	0.27	0.33	0.34	0.38	0.40	-	0.41	0.37	0.36	0.33	-	-	-	-	-	-
Percentile Rankings	95	95	1	1	1	30	15	10	25	75	15	45	95	65	45	15	1	3	95	1	25	10	60	4	4	95	10	1	3

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

HUWA **PAYWEIGHT** 0481

NAAB#: 097AN00073 **REG NO:** 20009698

- PAYWEIGHT will add growth and marbling along with maintaining REA.
- For his added growth, his DMI is better than most, along with a high RADG.
- Tracing back to unforgettable cows. On his dam's side is 2536 and Scotch Cap 309. On his sire's side is Ext 614 and Lucy 178E.

Basin Payweight 1682
Huwa 733 Payweight 7038
GAR Daybreak 733

GAR Sure Fire
GAR Sure Fire F117
GAR Prophet 284

TATTOO: 0481
DOB: 10/27/2020
BW: 74 /ratio 100
WW: 573 /ratio 100
YW: 981 /ratio 100
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	3	3.3	95	162	0.31	1.89	1.1	0.92	30	0.49	0.42	1.77	0.52	10.5	9	28	120	1.2	-47	86	1.22	0.62	0.068	178	181	61	81	208	331
Accuracy	0.31	0.48	0.40	0.34	0.30	0.30	0.42	0.38	0.33	0.24	0.24	0.26	0.27	0.22	0.28	0.29	0.35	0.38	-	0.38	0.35	0.34	0.30	-	-	-	-	-	-
Percentile Rankings	75	90	1	2	15	95	5	50	5	50	20	65	55	70	45	40	5	3	95	2	10	55	95	15	10	60	4	3	3

PINE VIEW **INERTIA** H301

NAAB#: 097AN00070 **REG NO:** 20050689

- INERTIA will add growth and carcass merit to his calf crop.
- This is a bull who will add fleshing ability to his prodigy while maintaining growth.
- He stems from the productive Rita cow family tracing back to the popular Scotch Cap 309 cow.

GAR Momentum
GAR Inertia
GAR Prophet 2984

Baldridge Waylon W34
Pine View Rita B017
Pine View Rita X049

TATTOO: H301
DOB: 8/18/2020
BW: 60 /ratio 100
WW: NA
YW: 1177 /ratio 100
YR. SC: 38.00
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	5	2.7	87	151	0.32	1.79	0.8	0.49	30	0.64	0.58	1.51	0.67	10.0	11	38	104	1.1	-44	74	1.05	0.53	0.072	121	96	54	84	179	286
Accuracy	0.34	0.50	0.43	0.38	0.33	0.33	0.44	0.40	0.36	0.29	0.29	0.27	0.30	0.26	0.34	0.35	0.37	0.40	-	0.41	0.39	0.38	0.35	-	-	-	-	-	-
Percentile Rankings	60	80	4	5	10	90	25	75	5	95	95	60	80	75	25	3	15	4	95	10	20	70	95	40	45	80	2	15	20

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

PINE VIEW **SET APART** H360

NAAB#: 097AN00069 **REG NO:** 20054207

- SET APART's dam was the high selling bred heifer of the Mill Brae Female Dispersal.
- His granddam had 7@111 for WW and 6@108 for YW when she sold in the dispersal.
- He ranks in the top 1% for WW, YW, CW, $F, and top 2% for RADG, RE, $B, $C making him an excellent growth and gain sire.

GAR Sure Fire
GAR Set Apart
Ogeechee Sunrise 5049
Connealy Confidence Plus
Mill Brae CP Blackcap 7139
Mill Brae Obj Blackcap 9244

TATTOO: H360
DOB: 9/22/2020
BW: 75 /ratio 100
WW: NA
YW: 1225 /ratio 100
YR. SC: 39.00
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	3	4.2	95	167	0.36	1.62	1.1	1.24	22	0.57	0.52	3.05	0.19	12.1	4	28	120	1.0	-47	90	1.00	1.24	0.008	214	243	52	76	221	339
Accuracy	0.35	0.52	0.44	0.39	0.32	0.32	0.46	0.41	0.38	0.27	0.27	0.26	0.31	0.23	0.32	0.32	0.37	0.40	-	0.40	0.37	0.37	0.33	-	-	-	-	-	-
Percentile Rankings	75	95	1	1	2	85	5	30	35	80	70	90	10	55	90	40	5	10	95	1	20	2	45	3	1	85	10	2	2

QUAKER HILL **DYNAMIC** 0EN9

NAAB#: 097AN00062 **REG NO:** 19994331

- DYNAMIC is a bull to use on cows for added performance.
- His progeny will maintain the carcass merit to gain premiums.
- He will add ribeye and marbling to his progeny.

SydGen Exceed 3223
SydGen Enhance
SydGen Rita 2618
Byergo Black Magic 3348
Quaker Hill Queen 8BK1
Quaker Hill Queen 4A1

TATTOO: 0EN9
DOB: 10/13/2020
BW: 88 /ratio 114
WW: 695 /ratio 99
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	2	2.8	80	148	0.35	1.29	1.1	1.64	25	0.40	0.50	7.08	0.54	14.8	9	38	99	1.0	-42	74	1.06	1.13	0.029	184	208	66	76	205	332
Accuracy	0.38	0.55	0.46	0.38	0.35	0.35	0.45	0.40	0.36	0.30	0.30	0.30	0.32	0.27	0.33	0.34	0.40	0.44	-	0.42	0.38	0.38	0.34	-	-	-	-	-	-
Percentile Rankings	85	85	10	10	3	65	5	10	20	15	60	95	55	25	45	3	15	10	95	10	20	4	75	10	4	45	10	4	3

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

QUAKER HILL **ROCKET** 0U10

NAAB#: 097AN00064 **REG NO:** 19991758

- ROCKET has more frame than the typical Summation son.
- He possesses extra thickness to complement his added performance.
- His dam is from the great Blackcap cow family that has produced progeny all over the US.

KCF Bennett Consent Y75
KCF Bennett Summation
Thomas Patricia 9705
Deer Valley All In
Quaker Hill Blackcap 6AI3
Quaker Hill Blackcap 4EX1

TATTOO: 0U10
DOB: 9/10/2020
BW: 76 /ratio 99
WW: NA
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): Quaker Hill Farm, Louisa VA, CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	15	0.5	98	169	0.32	2.19	0.8	0.78	18	0.54	0.50	-0.16	0.57	13.4	16	32	105	0.9	-41	79	0.78	0.98	-0.002	189	198	73	96	179	305
Accuracy	0.36	0.55	0.44	0.39	0.32	0.32	0.46	0.41	0.37	0.30	0.30	0.26	0.30	0.26	0.32	0.33	0.40	0.44	-	0.41	0.38	0.37	0.33	-	-	-	-	-	-
Percentile Rankings	3	35	1	1	10	95	25	60	55	70	60	25	60	40	2	15	15	10	95	4	40	10	30	10	5	25	1	15	10

QUAKER HILL **RUSH** 0U20

NAAB#: 097AN00065 **REG NO:** 19991324

- RUSH combines calving ease with performance and phenotype.
- His progeny have extra ribeye area while maintaining calving ease.
- A Summation son, he traces back to the immortal Blackcap cow family from Quaker Hill.

KCF Bennett Consent Y75
KCF Bennett Summation
Thomas Patricia 9705
SydGen CC&7
Quaker Hill Blackcap 1C430
Quaker Hill Blackcap 1H8

TATTOO: 0U20
DOB: 9/14/2020
BW: 82 /ratio 106
WW: 445 /ratio 89
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): Quaker Hill Farm, Louisa VA, CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	7	0.9	74	137	0.33	1.07	0.5	1.26	35	0.56	0.54	1.36	0.48	10.2	3	41	71	0.5	-29	75	0.73	1.22	0.019	197	185	63	81	193	313
Accuracy	0.35	0.54	0.46	0.38	0.31	0.31	0.45	0.39	0.35	0.29	0.29	0.24	0.28	0.24	0.31	0.33	0.39	0.43	-	0.40	0.36	0.36	0.32	-	-	-	-	-	-
Percentile Rankings	45	45	25	15	10	45	55	25	1	75	80	55	45	75	95	1	45	40	85	10	45	2	60	10	10	55	4	10	10

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

FERGUSON **NASDAQ** 333J

NAAB#: 097AN00083 **REG NO:** 20184157

- He is a Growth Fund son out of a first calf heifer who did a great job with him.
- Ratios are 112 for WW and 108 for YW.
- Offering impeccable growth while maintaining remarkable CE and BW
- NASDAQ is in the top 1% for WW, YW, RADG, MW, CW, $W, $F and top 3% for CEM.

Basin Payweight 1682
Deer Valley Growth Fund
Deer Valley Rita 36113
Ferguson Stronghold 195E
Ferguson Ms Stronghold 52G
Ferguson MS Discovery 220E

TATTOO: 333J
DOB: 2/17/2021
BW: 76 /ratio 103
WW: 683 /ratio 112
YW: 1296 /ratio 108
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	9	0.9	102	188	0.38	2.90	0.9	0.97	19	0.51	0.55	4.98	0.71	13.9	15	33	146	1.1	-63	102	0.38	1.00	0.059	178	198	55	91	185	295
Accuracy	0.39	0.57	0.49	0.43	0.36	0.36	0.47	0.41	0.37	0.30	0.30	0.31	0.33	0.27	0.33	0.35	0.40	0.43	-	0.44	0.39	0.39	0.35	-	-	-	-	-	-
Percentile Rankings	30	45	1	1	1	95	15	45	50	55	85	95	85	35	3	15	1	4	95	1	80	10	95	10	4	75	1	10	15

FERGUSON **RELENTLESS** 49J

NAAB#: 097AN00080 **REG NO:** 20185775

- This bull will keep the mature height of your cow herd in check with his moderate MH EPD of .20.
- He is in the top 3% for ribeye at 1.16, while maintaining a marbling EPD of 1.12.
- RELENTLESS ratioed 111 for WW and 108 for YW in a contemporary group with 231 head.

GAR Sure Fire
Thomas Relentless 8505
Thomas Blackcap 6692
Springfield Ramesses 6124
Ferguson Ms Ramesses 146G
E&b Lady Final Answer 273

TATTOO: 49J
DOB: 1/29/2021
BW: 85 /ratio 115
WW: 674 /ratio 111
YW: 1300 /ratio 108
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	9	0.8	79	142	0.29	1.84	0.7	1.49	12	0.52	0.43	0.88	0.76	11.6	11	28	75	0.2	-24	65	1.12	1.16	0.012	193	199	66	76	189	311
Accuracy	0.36	0.56	0.47	0.41	0.33	0.33	0.46	0.39	0.33	0.25	0.25	0.27	0.28	0.21	0.29	0.31	0.37	0.41	-	0.42	0.37	0.36	0.32	-	-	-	-	-	-
Percentile Rankings	30	40	15	10	25	95	30	15	80	60	25	45	90	60	25	40	40	70	75	20	15	3	50	10	5	45	10	10	10

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

BALDRIDGE **CYCLONE** F289

- His progeny have excellent front ends like himself.
- He excels at calving ease while adding growth.
- He is in the top 3% for claw and 1% for angle.

NAAB#: 097AN00048 **REG NO:** 19478576

EF Commando 1366
Baldridge Command C036
Baldridge Blackbird A030

GAR Prophet
Baldridge Isabel B061
Baldridge Isabel Y69

TATTOO: F289
DOB: 4/19/2018
BW: 76 /ratio 93
WW: 740 /ratio 107
YW: 1351 /ratio 109
YR. SC: 37.59 CM
YR. HEIGHT: 51.4

OWNER(S): CRV, Madison WI, Judson & Denise Baldridge, North Platte NE

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	10	-0.6	72	139	0.27	2.60	0.6	0.59	19	0.32	0.31	0.51	0.24	11.6	11	32	58	0.4	-17	54	0.92	0.78	0.014	141	131	81	75	156	283
Accuracy	0.37	0.56	0.49	0.45	0.34	0.34	0.53	0.50	0.40	0.33	0.33	0.31	0.31	0.30	0.36	0.37	0.41	0.43	-	0.44	0.41	0.40	0.38	-	-	-	-	-	-
Percentile Rankings	20	15	25	15	40	95	40	70	50	3	1	35	10	60	25	15	60	50	55	40	25	30	55	30	30	10	15	35	25

GUESS **ENRICH** 206J

- He is a very docile bull with good feet, a high heifer pregnancy rate and great carcass merit.
- A Wilks Enrich son who has a 90 $M and 335 $C.
- ENRICH did very well at the Cal Poly Bull Test having an ADG of 4.47 and ADG Ratio of 121.

NAAB#: 097AN00091 **REG NO:** 20127927

SydGen Enhance
Wilks Enrich
EZAR Lady Ida 7185

Connealy In Focus 4925
GVC Pristine C079
GVC Miss Formation U28

TATTOO: 206J
DOB: 8/15/2021
BW: 86 /ratio 105
WW: 791 /ratio 100
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	5	2.2	95	159	0.31	1.60	1.0	1.31	35	0.46	0.45	4.10	0.40	19.0	9	32	100	0.6	-39	78	0.93	1.00	0.034	180	198	90	91	189	335
Accuracy	0.32	0.53	0.43	0.35	0.29	0.29	0.42	0.36	0.31	0.22	0.23	0.24	0.26	0.20	0.26	0.28	0.34	0.37	-	0.39	0.35	0.34	0.31	-	-	-	-	-	-
Percentile Rankings	60	75	1	2	15	85	10	25	1	35	35	95	30	2	45	15	15	30	95	4	25	10	80	5	3	3	1	10	3

QUAKER HILL **BLAZER** 0A8

- A calving ease sire who adds growth and docility.
- BLAZER claims many breed leading ancestors in his pedigree.
- He is in the top 10% for PAP.

NAAB#: 097AN00063 **REG NO:** 19994507

GAR Early Bird
GAR Ashland
Chair Rock Ambush 1018

Sitz Investment 660Z
Thomas Pride 43180
Cox Pride LGW 9781

TATTOO: 0A8
DOB: 9/25/2020
BW: 70 /ratio 91
WW: 614 /ratio 100
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): Quaker Hill Farm, Louisa VA, CRV Madison WI

	PRODUCTION								MANAGEMENT					MATERNAL						CARCASS				$VALUES					
	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	Claw	Angle	PAP	HS	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat	$AxH	$AxJ	$M	$W	$B	$C
EPD	12	-0.2	76	139	0.27	1.92	0.4	1.06	24	0.49	0.43	-1.35	0.62	3.5	12	22	63	0.2	-14	65	0.76	0.82	0.023	176	178	59	72	169	278
Accuracy	0.37	0.56	0.48	0.39	0.35	0.35	0.47	0.41	0.37	0.31	0.32	0.29	0.31	0.28	0.34	0.36	0.41	0.45	-	0.44	0.40	0.39	0.35	-	-	-	-	-	-
Percentile Rankings	10	20	20	15	40	95	65	40	25	50	25	10	70	95	20	80	55	70	50	20	40	25	65	10	10	65	20	20	25

SPRING 2024 ANGUS BREED AVERAGE EPDS

Production: CED: 6 BW: 1.2 WW: 62 YW: 110 RADG: 0.25 DMI: 1.01 YH: 0.5 SC: 0.84 DOC: 18 CLAW: 0.49 ANGLE: 0.48 PAP: 1.3 HS: 0.54 **Maternal:** HP: 12 CEM: 8 MILK: 26 MW: 60 MH: 0.3 $EN: -14 **Carcass:** CW: 46 MARB: 0.58 RE: 0.59 FAT: 0.014 $AxH: 83 $AxJ: 67 $M: 60 $W: 59 $B: 139 $C: 240

QUAKER HILL **ULTRA** H902

NAAB#: 097AR00005 **REG NO:** 4229866

- ULTRA supports a balanced set of EPDs that work for producing replacements and terminal stock alike.
- His pedigree is packed full of breed-leading sires and dams!

BIEBER ROUSE SAMURAI X22
BIEBER SPARTACUS A193
BIEBER TILLY 233U
BIEBER DEEP END B597
ROUSE EMMA F89
3SCC EMMA C52

TATTOO: H902
DOB: 03/07/2020
BW: 66 lbs/ratio 99
WW: 739/ratio
YW: NA
YR. SC: 29 CM
YR. HEIGHT: NA

OWNER(S): CRV, Madison, WI

	ProS	HB	GM	CED	BW	WW	YW	ADG	DMI	MILK	ME	HPG	CEM	STAY	MARB	YG	CW	REA	FAT
EPD	82	55	27	14	-4.6	77	125	0.30	2.06	0.28	8	15	9	13	0.60	0.26	18	-0.21	0.06
Accuracy	-	-	-	44	47	44	45	45	14	21	12	28	28	37	39	32	40	38	34
Percentile Rankings	64	43	74	38	9	6	6	10	93	31	79	6	19	73	18	99	73	98	99

SPRING 2024 RED ANGUS BREED AVERAGE EPDS
PROS: 89 HB: 53 GM: 35 CED: 13 BW: -1.8 WW: 62 YW: 100 ADG: 0.23 DMI: 1.5 MILK: 25
ME: 4 HPG: 12 CEM: 7 STAY: 15 MARB: 0.41 YG: 0.07 CW: 23 REA: 0.11 FAT: 0.02

EXEC/PFF **MR DENALI** 2SV6

NAAB#: 097CH00001 **REG NO:** M948652

- Mr DENALI is a phenotypically and structurally correct bull providing for functional offspring.
- A light birth weight sire, he will add ribeye to his progeny.

FINK 8790 OF 2126 GM
RAILE SOVEREIGN J827 Y064
RC NICHOLE T082 V175
TR MR FIRE WATER 5792RET
LAC PLD PRETTY 613D
LAC MS GRID MAKER 813U

TATTOO: 2SV6
DOB: 02/09/2020
BW: NA
WW: NA
YW: NA
YR. SC: NA
YR. HEIGHT: NA

OWNER(S): CRV, Madison, WI

	CE	BW	WW	YW	MILK	MCE	MTL	SC	CW	REA	FAT	MARB	TSI
EPD	12.2	-4.8	44	85	39	7.1	61	0.9	17	0.73	0.006	0.05	234.32
Accuracy	0.23	0.30	0.25	0.21	0.21	0.19	0.22	0.18	0.17	0.18	0.16	0.17	-
Percentile Rankings	40	6	95	90	2	70	25	60	50	30	60	65	85

SPRING 2024 CHAROLAIS BREED AVERAGE EPDS
CE: 10 BW: -1.1 WW: 61 YW: 110 MILK: 24 MCE: 9 MTL: 54 SC: 1.0 CW:23.77 REA: 0.70 FAT: 0.014 MARB: 0.1 TSI: 253

WULFS **COOLEY** 3710C

NAAB#: 097LM00016 **REG NO:** LFM2081567

- COOLEY is a feed efficient bull who is also calving ease with added performance.
- His ratios are BW@96, WW@109, YW@111, RE@105, Fat@86, and RFI -1.72.

JCL LODESTAR 27L
RUNL STETSON 850S
RUNL 72L
CONNEALY MENTOR 7374
WULFS ABET 3710A
WULFS UMINAH 8140U

TATTOO: FI 3710C
DOB: 08/28/15
BW: 78 lbs/ratio 96
WW: 700 lbs/ratio 109
YW: 1340 lbs/ratio 111
YR. SC: 36.4 CM
YR. HEIGHT: 50.5

OWNER(S): Wulf Cattle, Morris, MN

	CED	BW	WW	YW	GEST	MILK	TM	CEM	SC	ST	DOC	YG	CW	REA	MARB	FAT	$MTI
EPD	10	0.9	66	111	-3	32	64	9	0.40	14	17	-0.39	43	1.05	0.34	-0.07	65.59
Accuracy	0.87	0.94	0.84	0.84	0.95	0.66	-	0.61	0.77	0.46	0.80	0.65	0.92	0.91	0.92	0.88	-
Percentile Rankings	55	50	60	45	60	10	30	15	85	20	10	10	30	10	40	4	35

WULFS **5395G** B2F

NAAB#: 097LM00017 **REG NO:** NXM2168288

- 5395G is a calving ease sire that exhibited great performance.
- He will add ribeye while maintaining low yield grades and a lean carcass for his progeny.
- His individual performance ratios were BW@95, WW@108, YW@107, RE@114, Fat@94, and ADG of 5.05.

HOOK'S BEACON 56B
CLRS E-TRADE 405E
CLRS BONNIA 405 B
WULFS ARCHBALD X624A
WULFS CHROME 5395C
CLARKS APRICOT 153A

TATTOO: FI 5395G
DOB: 03/30/2019
BW: 82 lbs/ratio 95
WW: 614 lbs/ratio 108
YW: 1315 lbs/ratio 107
YR. SC: 35 CM
YR. HEIGHT: 51

OWNER(S): Wulf Cattle, Morris, MN

	CED	BW	WW	YW	GEST	MILK	TM	CEM	SC	ST	DOC	YG	CW	REA	MARB	FAT	$MTI
EPD	8	2.9	88	135	-8	27	71	3	0.20	16	18	-0.49	32	1.26	0.02	-0.07	61.29
Accuracy	0.61	0.80	0.50	0.51	0.79	0.20	-	0.28	0.21	0.21	0.43	0.58	0.79	0.76	0.80	0.65	-
Percentile Rankings	70	80	4	10	1	30	5	85	80	10	10	30	40	15	60	35	30

SPRING 2024 LIMOUSIN BREED AVERAGE EPDS

CED: 10 BW: 1.3 WW: 65 YW: 99 MILK: 25 TM: 57 CEM: 6 SC: 0.7 STAY: 11 DOC: 12 YG: -0.33 CW: 27 REA: 0.87 MARB: 0.09 FAT: -0.05 $MTI: 56

WULFS **2139E** B2F

NAAB#: 097LM00018 **REG NO:** NPM2119927

- 2139E specializes in calving ease and short gestation.
- He has shown to be extremely fertile and perfect for the difficult breeder.

WULFS XCLUSIVE 2458X
WULFS ZANE X238Z
WULFS MYRLENE 2332M

RUNL STETSON 850S
WULFS ZINFANDEL 2139Z
WULFS ROUTINE 5049R

TATTOO: FI 2139E
DOB: 04/02/2017
BW: 78 lbs/ratio 89
WW: 550 lbs/ratio 104
YW: 1050 lbs/ratio 86
YR. SC: 31.5 CM
YR. HEIGHT: 51.5

OWNER(S): Wulf Cattle, Morris, MN

	CED	BW	WW	YW	GEST	MILK	TM	CEM	SC	ST	DOC	YG	CW	REA	MARB	FAT	$MTI
EPD	14	-1.8	53	75	-3	19	45	8	-0.60	16	18	-0.49	11	1.05	-0.15	-0.06	44.37
Accuracy	0.79	0.93	0.53	0.55	0.93	0.23	-	0.45	0.29	0.46	0.47	0.65	0.91	0.89	0.91	0.86	-
Percentile Rankings	15	10	75	75	45	85	90	20	-	15	10	60	75	55	70	75	80

WULFS **1086H** B2F

NAAB#: 097LM00019 **REG NO:** LFM2326096

- 1086H will shorten gestation while exhibiting extreme performance.
- Added ribeye and pounds while minimizing fat.
- His ratios are WW@117, YW@115, RE@104, Fat@96, and had an RFI of -3.51.

RUNL STETSON 850S
WULFS COOLEY 3710C
WULFS ABET 3710A

SPRNG CRKS U W 5006U
WULFS YI 1086Y
MISS WULFETTE 9375W

TATTOO: FI 1086H
DOB: 09/08/2020
BW: 92 lbs/ratio 105
WW: 700 lbs/ratio 117
YW: 1452 lbs/ratio 115
YR. SC: 36.5 CM
YR. HEIGHT: 53

OWNER(S): Wulf Cattle, Morris, MN

	CED	BW	WW	YW	GEST	MILK	TM	CEM	SC	ST	DOC	YG	CW	REA	MARB	FAT	$MTI
EPD	7	2.9	117	139	-4	33	72	6	0.80	14	16	-0.36	46	1.08	0.20	-0.07	64.38
Accuracy	0.46	0.51	0.52	0.52	0.30	0.34	-	0.26	0.29	0.33	0.42	0.36	0.45	0.43	0.43	0.40	-
Percentile Rankings	95	90	20	5	45	3	5	50	60	20	10	10	20	10	70	3	45

SPRING 2024 LIMOUSIN BREED AVERAGE EPDS

CED: 10 BW: 1.3 WW: 65 YW: 99 MILK: 25 TM: 57 CEM: 6 SC: 0.7 STAY: 11 DOC: 12 YG: -0.33 CW: 27 REA: 0.87 MARB: 0.09 FAT: -0.05 $MTI: 56

MS SIR TAKA ITO **FUJI** 403J ET

NAAB#: 097KB00001 **REG NO:** FB86531

- FUJI excels in calving ease while adding above breed average growth.
- His pedigree can boast many breed leaders.

TAKAEI 1412
WORLD K'S TAKAZAKURA
DAI NI SAKURA 7

MT FUJI
BARV MS FUJI ITOZURU DOI 709E ET
CHR MS ITOZURU DOI 367

TATOO: MS 403J
DOB: 07/14/2021
BW: 65 lbs/ratio
WW: NA
YW: NA
YR.SC: NA
YR.HEIGHT: NA
TENDER: 5
SCD: AA

OWNER(S): CRV, Madison, WI

	BW	WW	YW	MILK	TM	CW	REA	FT	IMF
EPD	-0.6	2	2	2	2	-16	-0.13	0.00	.55
Accuracy	0.32	0.24	0.13	0.14		0.11	0.09	0.10	0.13
Percentile Rankings	35	45	45	20	35	65	90	60	25

MS SIR HASTY **REDSTORM** 412J ET

NAAB#: 097KB00002 **REG NO:** FB85733

- REDSTORM holds excellent growth genetics and will increase performance in his progeny.
- He is top 1% for total maternal setting him up to sire excellent replacement quality daughters.

HB BIG AL 502
SOR HASTINGS 1066
WSI KAEDEMARU 2

SOR BIG AL
ROWE BIG AL S GC PEACH 04D
KHR MS AYAKO

TATOO: MS 412J
DOB: 08/11/21
BW: 65 lbs/ratio 100
WW: NA
YW: NA
YR.SC: NA
YR.HEIGHT: NA
TENDER: 4
SCD: VA

OWNER(S): CRV, Madison, WI

	BW	WW	YW	MILK	TM	CW	REA	FT	IMF
EPD	2.4	26	35	4	17	7	0.01	0.00	-0.50
Accuracy	0.24	0.18	0.11	0.04		0.02	0.02	0.02	0.01
Percentile Rankings	90	1	1	10	1	10	50	60	85

SPRING 2024 WAGYU BREED AVERAGE EPDS
BW: 0.2 WW: 1 YW: 2 MILK: -1 TM: 0 CW: -11 REA: 0.01 FAT: -0.01 IMF: 0.1

NICHOLS **BEEFMAKER** SXF0**68**

NAAB#: 097SM00001 **REG NO:** 3440906

- With added growth and carcass merit, BEEFMAKER68 has a remarkable terminal index.
- He is high for API, docility, stayability and milk, making his daughters great maternal prospects.

NICHOLS IDEAL Z286
NICHOLS IDEAL B49
NICHOLS ALYNE P185

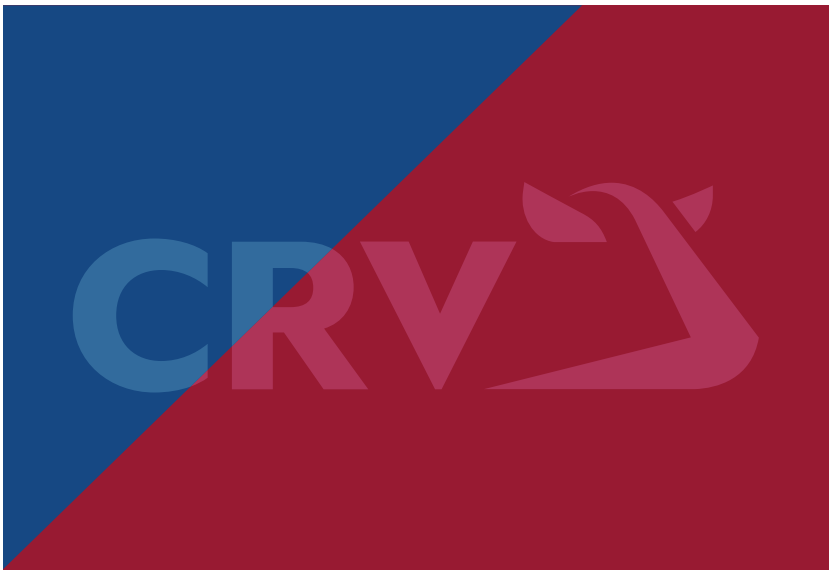
NICHOLS MASTERPIECE X41
NICHOLS MARA A17
NICHOLS MARA T52

TATTOO: SXF068
DOB: 03/21/2018
BW: 86 lbs/ratio 103
WW: 903 lbs/ratio 125
YW: 1476 lbs/ratio 114
YR.SC: NA
YR. HEIGHT: NA

OWNER(S): Nichols Farms, Bridgewater, IA

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC	CW	YG	MARB	BF	REA	SHEAR	API	TI
EPD	4.2	2.4	88.5	143.2	0.34	3.4	30.1	72.8	16.0	13.7	55.2	0.15	0.76	0.045	0.49	-0.27	147.1	93.1
Accuracy	0.56	0.68	0.62	0.60	0.60	0.28	0.19	0.29	0.32	0.60	0.44	0.35	0.45	0.38	0.41	0.01	-	-
Percentile Rankings	99	90	15	10	10	95	10	10	35	35	10	99	10	99	85	95	30	15

NICHOLS **BEEFMAKER** SXG**181**



NAAB#: 097SM00002 **REG NO:** 3601851

- BEEFMAKERG181 transmits calving ease, and adds performance and carcass merit, setting him up as a great sire for making replacement females.
- This bull was selected and retained by Nichols for wide use in their herd.

K C F BENNETT SOUTHSIDE
NICHOLS EXTRA E122
NICHOLS BLK HEIRESS W316

HOOK'S BEACON 56B
NICHOLS BEAUTY SME052
NICHOLS BEAUTY C54

TATTOO: SXG181
DOB: 04/14/2019
BW: 78 lbs/ratio 92
WW: 680 lbs/ratio 100
YW: 1329 lbs/ratio 106
YR.SC: NA
YR. HEIGHT: NA

OWNER(S): Nichols Farms, Bridgewater, IA

	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	DOC	CW	YG	MARB	BF	REA	SHEAR	API	TI
EPD	13.9	1.1	83.9	140.1	0.35	11.3	28.0	71.1	9.9	13.5	69.3	0.08	0.6	0.013	0.64	-0.19	140.9	90.2
Accuracy	0.51	0.54	0.48	0.48	0.48	0.48	0.28	0.27	0.31	0.47	0.40	0.33	0.41	0.37	0.37	0.04	-	-
Percentile Rankings	35	70	25	15	10	4	20	15	90	35	1	99	20	99	60	99	40	20

SPRING 2024 SIMMENTAL BREED AVERAGE EPDS
CE: 13 BW: 0.2 WW: 76 YW: 117 ADG:0.26 MCE: 7 MILK: 24 MWW: 62 STAY: 15 DOC: 12
CW: 33 YG: -0.21 MARB: 0.36 BF: -0.04 REA: 0.67 SHEER: -0.34 API: 133 TI: 81

D'ANGELO

NAAB#: 054BM00028 **REG NO:** C1081070

- A grandson of L Bar 5502, the historic performance leader in the breed.
- He excels in traits like birth weight, fertility and conformation.
- His sire, Angelo, has sired calves internationally and is popular with all of their owners.

L BAR 5502
ANGELO 239/05
3225
BELLISSIMO 76/4
854/8
MORGAN 77-2

TATTOO: 6036
DOB: 08/14/2016
BW: NA
WW: NA
YW: NA
YR.SC: NA
YR. HEIGHT: NA

OWNER(S): Lorenzo Lasater, San Angelo TX & M Doyle Sanders, New Ulm TX

	CED	BW	WW	YW	MILK	TM	CEM	RFI	SC	AFC	ST	REA	MB	FT	TI	MI	FEI
EPD	2.01	1.0	27	45	7	21	3.79	0.02	0.42	-0.01	-1.48	0.24	-0.13	-0.04	77.62	15.21	14.27
Accuracy	0.36	0.63	0.42	0.39	0.23	-	0.20	0.05	0.32	0.20	0.23	0.32	0.36	0.30	-	-	-
Percentile Rankings	85	75	35	45	90	55	20	45	40	15	50	40	85	15	40	50	50

L BAR **TEJAS**

NAAB#: 054BM00029 **REG NO:** C1082471

- Sired by L Bar 3432, a great carcass sire and goes back to L Bar 7499, the best maternal line at Isa.
- His dam, L Bar 4454, is one of the breed's most impressive donor females.
- He is a trait leader for Stayability and $FE.
- L Bar Tejas blends growth, maternal and carcass in one package.

0476
L BAR 3432
0461
L BAR 0422
L BAR 4454
L BAR 0465

TATTOO: 6033
DOB: 08/14/2016
BW: NA
WW: NA
YW: NA
YR.SC: NA
YR. HEIGHT: NA

OWNER(S): M Doyle Sanders, New Ulm, TX; Lorenzo Lasater, San Angelo, TX

	CED	BW	WW	YW	MILK	TM	CEM	RFI	SC	AFC	ST	REA	MB	FT	TI	MI	FEI
EPD	4.66	-0.7	37	64	10	28	3.36	-0.17	0.66	0.00	7.00	0.53	0.20	-0.02	113.14	22.86	25.39
Accuracy	0.33	0.61	0.66	0.65	0.38	-	0.21	0.11	0.46	0.21	0.26	0.65	0.69	0.56	-	-	-
Percentile Rankings	25	20	15	15	40	20	35	95	30	15	1	15	10	85	15	25	5

SPRING 2024 BEEFMASTER BREED AVERAGE EPDS

CED: 3 BW: 0.1 WW: 21 YW: 37 MILK: 10 TM: 20 CEM: 3 RFI: 0 SC: 0.3 AFC: -0.7 STAY: -1.2 REA: 0.1 MARB: 0 FAT: 0 TI: 64 MI: 16 FEI: 12

Angus Sire Genomic Evaluations

NAAB CODE	NAME	TEST	CED%	BW%	WW%	YW%	DMI%	YH%	SC%	DOC%	Claw%	Angle%	PAP%	HS%	HP%	CEM%	MILK%	MW%	MH%	CW T%	MARB%	RE%	FAT%	$AxH	$AxH
097AN00037	Fortune	ANGUS GS	85	80	1	1	95	4	15	25	35	60	65	65	40	55	95	1	2	3	4	65	30	50	90
097AN00048	Cyclone	HD50K	20	15	25	15	95	40	70	50	3	1	35	10	60	25	15	60	50	40	25	30	55	30	10
097AN00057	Exclamation	HD50K	15	20	60	20	95	80	95	70	25	30	10	95	80	3	10	20	65	15	20	35	20	30	90
097AN00058	Leverage	ANGUS GS	45	35	20	10	85	15	50	80	40	80	45	65	25	20	40	1	10	3	20	40	45	25	95
097AN00062	Dynamic	ANGUS GS	85	85	10	10	65	5	10	20	15	60	95	55	25	45	3	15	10	10	20	4	75	3	45
097AN00063	Blazer	HD50K	10	20	20	15	95	65	40	25	50	25	10	70	95	20	80	55	70	20	40	25	65	10	65
097AN00064	Rocket	HD50K	3	35	1	1	95	25	60	55	70	60	25	60	40	2	15	15	10	4	40	10	30	10	25
097AN00065	Rush	HD50K	45	45	25	15	45	55	25	1	75	80	55	45	75	95	1	45	40	10	45	2	60	1	55
097AN00069	Set Apart	HD50K	75	95	1	1	85	5	30	35	80	70	90	10	65	90	40	5	10	1	20	2	45	45	85
097AN00070	Inertia	HD50K	60	80	4	5	90	25	75	5	95	95	60	80	75	25	3	15	4	10	20	70	95	1	80
097AN00071	Horse Power	ANGUS GS	35	85	1	1	95	1	70	45	80	60	55	60	70	20	80	1	1	1	15	3	85	10	80
097AN00072	Drill Sergeant	ANGUS GS	45	45	1	1	95	5	65	3	55	45	80	20	2	65	30	2	3	4	10	25	55	20	20
097AN00073	Payweight	ANGUS GS	75	90	1	2	95	5	50	5	50	20	65	55	70	45	40	5	3	2	10	55	95	25	60
097AN00078	Justus	HD50K	4	5	40	45	50	85	15	10	85	85	20	55	55	10	20	80	90	65	40	20	70	10	15
097AN00079	Money Market	ANGUS GS	35	50	5	5	95	30	60	5	20	50	90	95	50	20	2	65	70	10	55	10	95	25	2
097AN00080	Relentless	ANGUS GS	30	40	15	10	95	30	15	80	60	25	45	90	60	35	40	40	70	20	15	3	50	5	45
097AN00081	Jolly	HD50K	4	4	65	60	50	95	20	85	35	40	90	65	3	2	15	95	85	35	10	20	95	10	1
097AN00083	Nasdaq	ANGUS GS	30	45	1	1	95	15	45	50	55	85	95	85	35	3	15	1	4	1	80	10	95	5	75
097AN00084	Drifter	ANGUS GS	95	95	1	1	30	15	10	25	75	15	45	95	65	45	15	1	3	1	25	10	60	4	95
097AN00090	Home Run	ANGUS GS	2	20	15	15	95	60	60	50	65	30	2	10	25	45	15	40	55	20	3	1	15	1	20
097AN00091	Enrich	ANGUS GS	60	75	1	2	85	10	25	1	35	35	95	30	3	45	15	15	30	4	25	10	80	5	3
097AN00092	Relevance	ANGUS GS	60	30	15	3	90	55	80	50	55	20	50	25	30	75	45	20	50	5	35	15	65	10	55
097AN00094	El Ancho	ANGUS GS	4	4	25	30	40	85	65	15	30	15	75	70	10	10	40	85	90	20	70	15	65	10	1

AMERICAN ANGUS ASSOCIATION®: GENOMIC ENHANCED - EPDs (GE-EPDs)

Genomic tests, or DNA results, are used to enhance the predictability of current selection tools to achieve more accuracy on EPDs for younger animals and characterize traits difficult or expensive to measure, such as feed efficiency, carcass traits or maternal traits. GE-EPDs uniquely use genomic test results in addition to pedigree, performance and progeny data for increased reliability of an animal's EPD. Depending on the trait, GE-EPDs on unproven bulls have the same amount of accuracy as if they had already sired 8-35 calves.

GENOMIC IMPACT ON THE EPD In the AAA's weekly genetic evaluation, the genomic results are incorporated using a single-step method to calculate EPDs. Incorporating genomic results helps to better define the genetic relationship among animals. The animal's genotype allows us to determine which flush-mates or siblings are more genetically related. In fact, genomic testing allows all pedigree relationships to be better defined. These relationships are quantified using SNP data (genomic results) known as an animal's genomic relationship. Animals more closely related to ancestors with large amounts of actual performance data (weaning weights, yearling weight, carcass data, etc.) and genomic results will experience a greater benefit from genomic testing, including greater EPD accuracy and spread, than those with less data in the Association's database.

IMPORTANCE OF PHENOTYPIC PERFORMANCE DATA
Genomic testing is an additional tool for breeders to use to more accurately predict the future performance of animals as parents in the population, but this is not a replacement to performance data recording. Phenotypic measures continue to be an important part in further developing improved genomic panels and refining this technology over time.

PERCENT RANKS PROVIDED WITH GENOMIC RESULTS
Percent ranks (1-100) are provided by the AAA to assist in establishing direction of interest for each trait. If you are making selection decisions for traits that have an EPD provided by the AAA, then the EPDs should be considered the selection tool of choice. The EPD and accuracy account for all sources of information available on the animal of interest (e.g., pedigree, own record, weights/ measures, genomic results). Using EPD and genomic percent ranks separately leads to double counting information and will decrease selection efficiency. With that, the EPD provides the most accurate and up-to-date information as it is updated every week; whereas, genomic percent ranks only update once a year and are a by-product of the system.

CONCLUSION Genomic-enhanced EPDs are the best estimate of an animal's genetic value as a parent combining all available sources of information. Genomics permit higher prediction accuracies for younger animals and characterize genetics for traits where it's difficult to measure the phenotype. To learn more about available genomic tests and place an order, go to **www.angus.org/AGI**.

BEEF TRAIT EXPLANATIONS

Expected Progeny Difference (EPD) - The prediction of how future progeny of each animal are expected to preform relative to the progeny of other animals listed in the database. EDPs are expressed in units of measure for the trait, plus or minus.

Accuracy (ACC) - 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.

$Value Index ($Value) - An economic selection index allows multiple changes in several different traits at once pertaining to a specific breeding objective. 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 the sires were randomly mated to cows and if calves were exposed to the same environment.

PRODUCTION EPDs

Calving Ease Direct (CED) - 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 EPD (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 EPD (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.

Yearling Weight EPD (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.

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

Dry Matter Intake (DMI) - Expressed in pounds per day, is a predictor of difference in transmitting ability for feed intake during the post weaning phase, compared to that of other sires.

Yearling Height EPD (YH) - A predictor of a sire's ability to transmit yearling height, expressed in inches, compared to 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.

Maintenance Energy (ME) - Maintenance Energy predicts the difference in maintenance energy requirements. Expressed in Mcal per Month with a low value preferred.

Stayability (STAY) - Stayability predicts differences in the ability of an animals' retained daughters to remain productive in the herd – calve every year – through 6 years of age. Expressed as Percent with a high value preferred.

MATERNAL EPDs

Calving Ease Maternal (CEM) - 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) - A predictor of a sire's genetic merit for milk and mothering ability as expressed 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, it 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.

Cow Energy Value ($EN) - Expressed in dollar 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 (more dollars saved on feed energy expenses). Components for computing the cow $EN savings difference include lactation energy requirements and energy costs associated with differences in mature cow size.

CARCASS EPDs

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

Marbling (Marb) - 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, it 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, it 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.

Yield Grade (YG) - Yield Grade predicts differences in USDA Yield Grade, which is calculated using CW, REA and Fat. Expressed as Yield Grade Units with a low value preferred.

Carcass Weight (CW) - Carcass Weight predicts differences in actual hot carcass weight. Expressed in pounds with preference on high value.

MANAGEMENT EPDs

Docility (Doc) - Expressed as a difference in yearling cattle temperament, with a higher value indicating more favorable docility. It predicts the average difference of progeny from a sire in comparison with another sire's calves. In herds where temperament problems are not an issue, this expected difference would not be realized.

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

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

Pulmonary Arterial Pressure EPD (PAP) - Expressed in millimeters of Mercury (mmHg), with a lower EPD being more favorable indicating a sire should produce progeny with a lower PAP score. PAP score is an indicator of susceptibility to high altitude disease commonly experienced at elevations greater than 5,500 feet. Selection for this trait aims to improve the genetic potential for a sire's progeny to have lower PAP scores thus a lower chance of contracting high altitude disease increasing the environmental adaptability of cattle living in mountain areas.

Hair Shed EPD - Expressed in units of hair shed score, with a lower EPD being more favorable indicating a sire should produce progeny who shed their winter coat earlier in the spring. Selection for this trait should improve the genetic potential for a sire's progeny to shed off earlier increasing the environmental adaptability of cattle living in heat stressed areas and producers grazing endophyte-infected (hot) fescue.

ANGUS ON DAIRY $VALUE

Angus-On-Dairy $Value Indexes are bioeconomic selection indexes that allow multiple changes in several different traits at once pertaining to a dairy-beef crossbreeding objective. These values are terminal crossbreeding indexes to estimate how future beef-on-dairy progeny of each Angus sire are expected to perform, on average, compared to beef-on-dairy progeny of other Angus sires if the sires were randomly mated and beef-on-dairy calves were exposed to the same environment. These indexes were designed as specific cross-breeding tools for Angus bulls being mated to dairy cows. Two indexes have been developed for the dairy market:

Angus-On-Holstein ($AxH) - A terminal index, expressed in dollars per head, to predict profitability differences in progeny due to genetic traits weighted by appropriated economics of each Angus sire when mated to Holstein females. The underlying breeding objective assumes Angus bulls will be mated to Holstein females to produce Angus-dairy crossbred calves to be fed and marketed on a quality-based grid. Traits included are as follows: calving ease, growth from birth through the feeding phase, feed intake, dressing percent, yield grade, quality grade, muscling, and height.

Angus-On-Jersey ($AxJ) - A terminal index, expressed in dollars per head, to predict profitability differences in progeny due to genetic traits weight by appropriated economics of each Angus sire when mated to Jersey females. The underlying breeding objective assumes Angus bulls will be mated to Jersey females to produce Angus-dairy crossbred calves to be fed and marketed on a quality-based grid. Traits included are as follows: calving ease, growth from birth through the feeding phase, feed intake, dressing percent, yield grade, quality grade, and muscling.

BREED SPECIFIC BEEF TRAIT EXPLANATIONS

ANGUS $VALUE INDEX

Maternal Weaned Calf Value ($M) - An index, expressed in dollars per head, predicts profitability differences from conception to weaning with the underlying breeding objective assuming that individuals retain their own replacement females within herd and sell the rest of the cull female and all male progeny as feeder calves. The model assumes commercial producers will replace 25% of their breeding females in the first generation and 20% of their breeding females in each subsequent generation. Traits included are as follows: calving ease direct, calving ease maternal, weaning weight, milk, heifer pregnancy, docility, mature cow weight, claw set and foot angle.

Weaned Calf Value ($W) - An index, expressed in dollars per head, to predict profitability differences in progeny due to genetics from birth to weaning. The underlying objective being producers will retain 20% of the female progeny as replacements and sell the rest of the cull females and their male counterparts as feeder calves. Traits included are as follows (in no particular order): birth weight, weaning weight, milk, and mature cow weight.

Feedlot Value ($F) - An index, expressed in dollars per head, to predict profitability differences in progeny due to genetics for postweaning feedlot merit compared to the progeny of other sires. The underlying objective assumes producers will retain ownership of cattle through the feedlot phase and sell fed cattle on a carcass weight basis, but with no consideration of premiums or discounts for quality and yield grade. Traits contributing directly to the index are as follows: yearling weight (gain), carcass weight and dry-matter intake.

Grid Value ($G) - An index, expressed in dollars per carcass, to predict profitability differences in progeny due to genetics for carcass grid merit compared to progeny of other sires. The underlying objective assumes producers will market cattle on an above-industry-average carcass grid. Traits included in the index are as follows (in no particular order): carcass weight, marbling, ribeye area, and fat.

Beef Value ($B) - A terminal index, expressed in dollars per carcass, to predict profitability differences in progeny due to genetics for postweaning and carcass traits. This terminal 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 carcass grid. Traits included in the index are as follows: yearling weight, dry-matter intake, marbling, carcass weight, ribeye area and fat.

**Combined Value ($C) -** An index, expressed in dollars per head, which includes all traits that make up both Maternal Weaned Calf Value ($M) and Beef Value ($B) with the objective that commercial producers will replace 20% of their breeding females per year with replacement heifers retained within their own herd. The remaining cull heifer and steer progeny are then assumed to be sent to the feedlot where the producers retain ownership of those cattle and sell them on a quality-based carcass merit grid. Expected progeny differences (EPDs) directly influencing a combined index: calving ease direct (CED) and maternal (CEM), weaning weight (WW), yearling weight (YW), maternal milk (Milk), heifer pregnancy (HP), docility (DOC), mature cow weight (MW), foot angle (Angle), claw set (Claw), dry matter intake (DMI), marbling (Marb), carcass weight (CW), ribeye area (RE) and fat thickness (Fat).

RED ANGUS INDEXES & EPDs

Profitability & Sustainability (ProS) - Profitability and Sustainability is an all-purpose index that predicts average economic differences in all segments in the beef supply chain. This index is a combination of the breeding objectives modeled in the HerdBuilder and GridMaster selection indexes. In this index, replacement heifers are retained from within the herd and all remaining progeny are fed out to slaughter and sold on a quality-based grid. Traits included in this index include calving ease, growth, HPG, STAY, Mature Weight, Dry Matter Intake and carcass traits. The resulting index is expressed in dollars per head born (Index/High Value).

HerdBuilder (HB) - HerdBuilder is a maternal selection index that predicts the economic differences of animals for traits that are important from conception through weaning. Expressed as dollars per head born, HB is calculated based on the scenario that bulls are mated to heifers and cows, replacement heifers are retained and all remaining progeny are marketed at weaning. Traits included in the HB index include Calving Ease Direct, Calving Ease Maternal, Weaning Weight, Milk, Mature Weight, Heifer Pregnancy and Stayability (Index/High Value).

GridMaster (GM) - GridMaster is a selection index that predicts the average economic difference of non-replacement calves through the postweaning phase of production. GM places selection pressure on growth, feedyard performance and carcass traits. Expressed as dollars per head born, GM is calculated based on the scenario that progeny are fed out to slaughter and marketed on a quality-based carcass grid. Traits included in GM include Average Daily Gain, Carcass Weight, Dry Matter Intake, Marbling, Back Fat and Rib Eye Area (Index/High Value).

SIMMENTAL INDEXES & EPDs

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.

LIMOUSIN INDEXES & EPDs

Mainstream Terminal Index ($MTI) - A multiple trait index- expressed in dollars per head. The index measures differences in expected profit per carcass produced on a mainstream grid. This index considers post-weaning growth, yeild grade and quality grade.

CHAROLAIS INDEXES & EPDs

Terminal Sire Index (TSI) - The AICA Terminal Sire Index (TSI) is a formal method of combing Expected Progeny Differences (EPD) – BW, WW, YW, REA, CW, MARB and FAT – into one single value on which to base selection decisions. The TSI uses estimates of the genetic relationships between traits with an economic default value based on three year rolling USDA data.

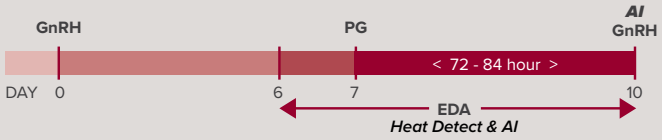
BEEF COW Protocols

HEAT DETECTION & TAI

For best results perform AI 12 (+/-) 2 hr after detection of estrus. Use of estrus detection aids (EDA) is highly recommended.

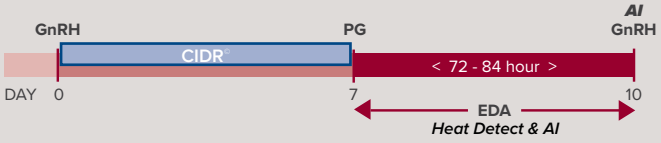
Select Synch & TAI

Heat detection & AI days 6 to 10 and TAI with GnRH all non-responders 72 - 84 hr after PG.



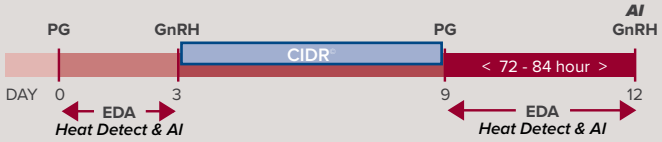
Select Synch + CIDR© & TAI

Heat detect & AI days 7 to 10 and TAI with GnRH all non-responders 72-84 hr after PG.



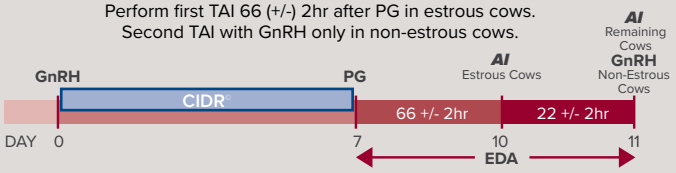
PG 6-day CIDR© & TAI

Heat detect & AI days 0 to 3. Insert CIDR© to non-responders, heat detect & AI days 9 to 12. TAI with GnRH non-responders 72-84hr after CIDR© removal.



7-day CO-Synch+CIDR© & Split-TAI

Perform first TAI 66 (+/-) 2hr after PG in estrous cows. Second TAI with GnRH only in non-estrous cows.

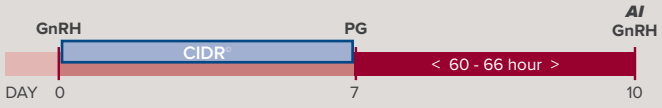


FIXED-TIME AI

Time for Fixed-time AI (**TAI**) should be considered as the approximate average time of insemination based on the number of females to inseminate, labor and facilities.

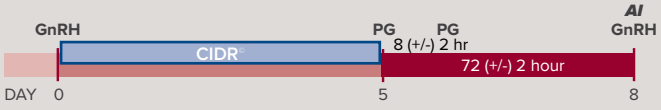
7-day CO-Synch+ CIDR©

Preform TAI with GnRH at 60 to 66hr after PG.



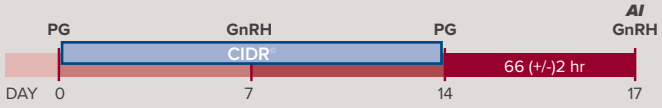
5-day CO-Synch + CIDR©

Perform TAI with GnRH at 72 (+/-) 2 hr after CIDR removal. Two injections of PG 8 (+/-) 2 hr apart are required for this protocol.



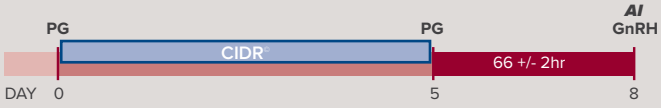
7 & 7 Synch

Heat detect & AI days 0 to 3. Insert CIDR© to non-responders, heat detect & AI days 9 to 12. TAI with GnRH non-responders 72-84hr after CIDR© removal.



Bos indicus PG 5-day+CIDR©

Perform TAI with GnRH at 66 (+/-) 2 hr after CIDR removal.



EDA
Aervoe™, AIPAint™, Detect-her™, Estrotect™, Kamar™,Mark-her™, Paintstik™, Quick Shot™, Tell Tail™, Twist-Stik™

GnRH
Cystorelin®, Factrel®, Fertagyl®, OvaCyst®, GONABreed®

PG
estroPLAN®, Estrumate®, Lutalyse®, Lutalyse® HighCon, ProstaMate®, SYNCHSURE™

These protocols were assembled by the ***Beef Reproduction Task Force***. Programs are intended to promote sustainable food production systems by the beef industry through sound reproductive management practices for replacement heifers and postpartum cows. The Beef Reproduction Task Force recommends working with a licensed veterinarian for proper use and application of all reproductive hormones.
Approved 11/17/2022.

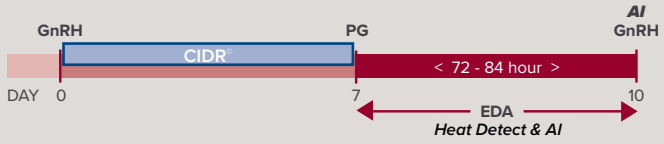
BEEF HEIFER Protocols

HEAT DETECTION & TAI

For best results perform AI 12 (+/-) 2 hr after detection of estrus. Use of estrus detection aids (EDA) is highly recommended.

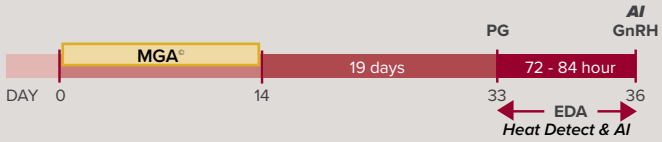
Select Synch + CIDR© & TAI

Heat detect & AI days 7 to 10 and TAI with GnRH all non-responders 72-84 hr after PG.



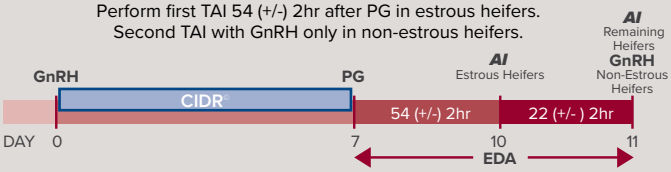
MGA©-PG & TAI

Heat detect & AI days 33 to 36 and TAI with GnRH all non-responders 72-84 hr after PG.



7-day CO-Synch + CIDR© & Split-TAI

Perform first TAI 54 (+/-) 2hr after PG in estrous heifers. Second TAI with GnRH only in non-estrous heifers.



14-day CIDR©-PG & TAI

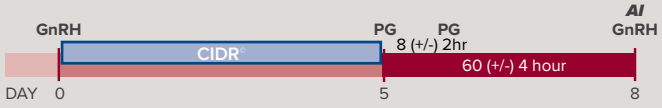
Heat detect & AI days 30 to 33 and TAI with GnRH all non-responders 72 (+/-) 2hr after PG.

FIXED-TIME AI

Time for Fixed-time AI (**TAI**) should be considered as the approximate average time of insemination based on the number of females to inseminate, labor and facilities.

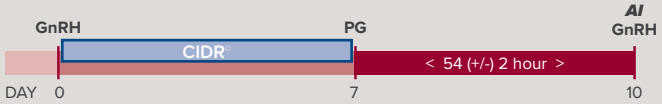
5-day CO-Synch + CIDR©

Perform TAI with GnRH at 60 (+/-) 4 hr after CIDR removal. Two injections of PG 8 (+/-) 2hr apart are required for this protocol.



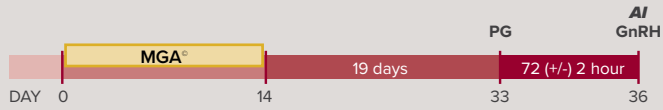
7-day CO-Synch + CIDR©

Preform TAI with GnRH at 54 (+/-) 2hr after PG.



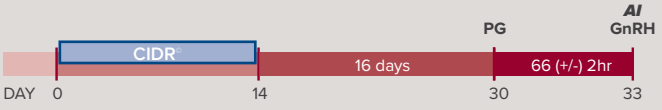
MGA© -PG & TAI

Perform TAI with GnRH 72 (+/-) 2hr after PG.



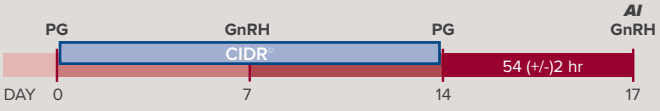
14-day CIDR©-PG & TAI

Perform TAI with GnRH at 66 (+/-) 2hr after PG.



7 & 7 Synch

Perform TAI with GnRH at 54 (+/-) 2hr after CIDR© removal.



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GnRH

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PG

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Approved 11/17/2022.

CRV

BETTER COWS > BETTER LIFE

PRODUCT OF USA

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