

Find the Future

Bulls evaluated in the National Reference Sire Program offer opportunity.

by *Shane Bedwell*

The American Hereford Association's National Reference Sire Program (NRSP) is designed to identify and validate the genetic merit of young sires that offer seedstock producers and commercial users opportunities to improve their herds for specific traits and a combination of traits. It also provides ongoing confirmation of the profitability associated with Hereford genetics.

Keep in mind proven sires are also evaluated as part of the NRSP to further validate their value, while providing reliable data for comparing young sires to the Hereford population.

Study the tables on this page — performance of NRSP-sired, 2020-born calves at Olsen Ranch in Harrisburg, Neb. — and the bulls' expected progeny differences (EPDs). I am confident you will find bulls worthy of consideration. As you do, I encourage you to contact the breeders and inquire about germplasm or sons of the sires they are marketing this spring.

For reference, the base cow herd at Olsen Ranch for the NRSP is a commercial Hereford herd. Olsen Ranch has provided the breed with phenomenal value and results as an NRSP test herd for 23 years.

Table 1: 2020 Olsen Feed Efficiency Results										
Sire reg. no.	Sire name	No. progeny	Avg. DMI	Rank	ADG	Rank	F:G	Rank	Adj. F:G	Rank
Bulls used on heifers										
43864430	HRC Z-Dude 7597	15	27.8	4	4.19	2	6.77	2	6.68	2
43934356	JCS 1321 Mark Domino 8341	16	27.0	1	4.32	1	6.39	1	6.43	1
43734247	KBCR 49B Federal 634D	24	27.1	2	3.92	4	7.22	4	7.06	4
43268575	OR 3575 Husker N151 ET	12	27.1	3	4.06	3	6.90	3	7.04	3
Bulls used on cows										
43884151	Canyon Gem New Kid In Town 22F	9	27.0	11	4.94	1	5.51	4	5.30	2
43919937	Churchill Broadway 858F	14	26.8	9	4.74	5	5.72	8	5.63	8
43800218	CL 1 Domino 710E 1ET	18	27.5	13	4.79	2	5.75	10	5.50	4
43847198	EFBeef C609 Resolute E158 ET	20	25.9	7	4.69	7	5.53	5	5.60	5
43904896	EFBeef A250 Tested F294	20	25.9	8	4.77	3	5.45	3	5.60	6
43877356	FTF Powerhouse 7443E	16	25.9	5	4.64	8	5.60	6	5.76	11
43930411	KJ 555D Leader 117F	14	25.4	4	4.45	12	5.72	9	5.80	12
43943612	PCC 3055 49C Ace 7115	14	26.9	10	4.63	9	5.81	12	5.67	10
43910830	Schu-Lar Asset 36F	15	23.5	1	4.55	11	5.16	1	5.27	1
43624399	Schu-Lar Conversion 501 ET	13	24.6	2	4.23	13	5.87	13	6.08	13
43894968	SHF Foresight B413 F158	22	25.9	6	4.61	10	5.64	7	5.61	7
43872790	UPS Mighty 7850 ET	15	27.1	12	4.72	6	5.75	11	5.63	9
43910763	WHR X51 T306 Beefmaker 493E ET	9	25.0	3	4.76	4	5.24	2	5.39	3

Using the data

The following tables offer the EPD profiles and sire group phenotypic data for NRSP test sires.

Table 1. These are the phenotypic averages by sire group for dry matter intake (DMI), average daily gain (ADG), feed to gain (F:G) and adjusted feed to gain (Adj. F:G), which accounts for animal live weight.

Table 2. These are the complete performance results from birth to harvest by sire group. It is important to note there are two distinct sire groups analyzed separately. The first-calf heifers were managed differently from the mature cows. Consequently, two separate contemporary groups were formed, and data should only be compared within each group.

Table 3. This table showcases the phenotypic averages to complement the phenotypic means of each of the sires in Table 1 and Table 2. Overall, the performance of the sire groups was phenomenal when you consider the gain and conversion aspects of the business. These cattle performed well and underscored the efficiency advantages that epitomize Hereford genetics. Just as impressively, these cattle graded nearly 90% USDA Choice and higher while achieving an average yield grade of 3.4. It is refreshing to see Hereford genetics hit industry value targets for

Table 2: Olsen Performance & Carcass Results																	
Sire reg. no.	Sire name	No. progeny	BW ratio	WW ratio	YW ratio	No. harvested	MARB score	MARB ratio	% Choice	HCW	HCW ratio	REA	REA ratio	FAT	FAT ratio	CYG	CYG ratio
Bulls used on heifers																	
43864430	HRC Z-Dude 7597	27	97%	100%	104%	15	609	112%	93%	887	101%	14.08	103%	0.68	96%	3.57	96%
43934356	JCS 1321 Mark Domino 8341	26	92%	98%	96%	16	611	112%	100%	867	99%	13.98	102%	0.73	103%	3.64	98%
43734247	KBCR 49B Federal 634D	42	102%	105%	105%	24	438	80%	75%	883	101%	13.33	97%	0.68	96%	3.79	102%
43268575	OR 3575 Husker N151 ET	30	100%	98%	98%	12	593	109%	83%	858	98%	13.50	99%	0.77	109%	3.86	104%
Bulls used on cows																	
43884151	Canyon Gem New Kid In Town 22F	23	101%	104%	102%	9	535	107%	100%	923.1	106%	15.07	108%	0.61	95%	3.21	93%
43919937	Churchill Broadway 858F	43	98%	100%	102%	14	549	110%	93%	896	103%	13.19	95%	0.86	134%	4.33	125%
43800218	CL 1 Domino 710E 1ET	41	104%	104%	105%	18	492	98%	89%	908	105%	13.23	95%	0.71	110%	3.98	115%
43847198	EFBeef C609 Resolute E158 ET	43	100%	103%	100%	20	531	106%	100%	868	100%	13.74	99%	0.68	106%	3.61	104%
43904896	EFBeef A250 Tested F294	41	98%	101%	99%	20	519	104%	90%	849	98%	14.00	101%	0.66	102%	3.39	98%
43877356	FTF Powerhouse 7443E	35	100%	96%	97%	16	444	89%	75%	841	97%	13.83	99%	0.56	87%	3.17	92%
43930411	KJ 555D Leader 117F	28	105%	96%	96%	15	458	92%	87%	828	95%	13.57	98%	0.58	91%	3.26	94%
43943612	PCC 3055 49C Ace 7115	41	98%	101%	100%	13	480	96%	77%	894	103%	14.31	103%	0.61	94%	3.34	97%
43910830	Schu-Lar Asset 36F	48	101%	98%	98%	15	486	97%	87%	836	96%	13.70	99%	0.57	89%	3.23	93%
43624399	Schu-Lar Conversion 501 ET	51	101%	100%	97%	13	538	108%	100%	843	97%	14.07	101%	0.68	106%	3.49	101%
43894968	SHF Foresight B413 F158	44	101%	102%	102%	21	533	106%	81%	877	101%	14.47	104%	0.62	96%	3.24	94%
43872790	UPS Mighty 7850 ET	37	105%	101%	103%	15	438	88%	80%	884	102%	13.92	100%	0.60	93%	3.39	98%
43910763	WHR X51 T306 Beefmaker 493E ET	36	100%	96%	99%	9	492	98%	100%	841	97%	14.24	102%	0.59	92%	3.11	90%

Table 3: Grand Averages of Progeny		
	Bulls used on heifers	Bulls used on cows
DMI	27.3	26
ADG	4.1	4.6
F:G	6.8	5.6
MARB score	562	500
% Choice	88	89
HCW	874	868
FAT	0.71	0.64
REA	13.7	14
CYG	3.7	3.4

Table 4: 2020 Olsen Sires EPD's (as of 1/17/2022)

Reg. No.	Sire Name	CE EPD	CE ACC	BW EPD	BW ACC	WW EPD	WW ACC	YW EPD	YW ACC	DMI EPD	DMI ACC	SC EPD	SC ACC	SCF EPD	SCF ACC	MM EPD	MM ACC	MG EPD
Bulls used on heifers																		
43864430	HRC Z-Dude 7597	12.4	0.45	-1.4	0.63	46	0.53	84	0.55	0.2	0.35	1	0.39	31.5	0.37	32	0.34	55
43934356	JCS 1321 Mark Domino 8341	14.5	0.44	-2.5	0.64	43	0.54	63	0.56	0.2	0.34	1.4	0.43	16.6	0.3	34	0.31	56
43734247	KBCR 49B Federal 634D	9.8	0.55	0.4	0.78	78	0.65	115	0.64	0.1	0.4	1	0.36	19.7	0.32	19	0.3	58
43268575	OR 3575 Husker N151 ET	7.4	0.56	0.5	0.8	46	0.71	76	0.72	0.1	0.64	1	0.38	20.6	0.39	30	0.47	53
Bulls used on cows																		
43884151	Canyon Gem New Kid In Town 22F	8	0.43	1.8	0.62	70	0.52	114	0.54	0.3	0.32	1.2	0.35	19.5	0.29	22	0.27	57
43919937	Churchill Broadway 858F	1.6	0.48	2.8	0.84	71	0.76	117	0.74	0.2	0.41	1.6	0.5	23.3	0.34	27	0.34	63
43800218	CL 1 Domino 710E 1ET	9.7	0.59	2.1	0.83	66	0.76	103	0.76	0.5	0.45	1.3	0.66	22	0.4	34	0.42	67
43847198	EFBeef C609 Resolute E158 ET	8.3	0.41	1.5	0.72	65	0.61	95	0.62	0.4	0.51	1.6	0.4	22.4	0.31	18	0.35	50
43904896	EFBeef A250 Tested F294	6	0.44	0.2	0.69	58	0.59	90	0.61	0.3	0.47	1.1	0.4	20	0.32	36	0.32	65
43877356	FTF Powerhouse 7443E	6	0.44	1.3	0.66	54	0.56	89	0.58	-0.1	0.4	1.3	0.32	21.2	0.29	35	0.31	62
43930411	KJ 555D Leader 117F	4	0.46	2.2	0.72	65	0.61	87	0.61	0.3	0.38	2	0.43	22.8	0.31	27	0.3	60
43943612	PCC 3055 49C Ace 7115	13.7	0.41	-0.3	0.72	54	0.61	80	0.62	0.3	0.4	0.9	0.38	22.4	0.32	26	0.33	53
43910830	Schu-Lar Asset 36F	7.5	0.44	1.5	0.75	49	0.64	79	0.66	-0.2	0.54	0.8	0.48	22.4	0.35	26	0.33	51
43624399	Schu-Lar Conversion 501 ET	8.5	0.44	1.6	0.82	62	0.74	82	0.74	0.1	0.69	0.8	0.41	19.7	0.37	9	0.43	40
43894968	SHF Foresight B413 F158	2	0.44	2.8	0.78	70	0.68	115	0.68	0.3	0.49	1.3	0.51	18.6	0.31	21	0.32	56
43872790	UPS Mighty 7850 ET	1.8	0.42	4	0.83	70	0.72	107	0.73	0.6	0.4	2.2	0.53	22	0.31	39	0.32	74
43910763	WHR X51 T306 Beefmaker 493E ET	8.5	0.47	1.5	0.71	56	0.6	90	0.62	0.2	0.4	1.1	0.42	23.3	0.37	24	0.34	52

Reg. No.	Sire Name	MCE EPD	MCE ACC	MCW EPD	MCW ACC	UDDER EPD	UDDER ACC	TEAT EPD	TEAT ACC	CWT EPD	CWT ACC	FAT EPD	FAT ACC	REA EPD	REA ACC	MARB EPD	MARB ACC	BMI	BII	CHB	GE- EPDs
Bulls used on heifers																					
43864430	HRC Z-Dude 7597	8.6	0.3	98	0.37	1.4	0.43	1.4	0.43	78	0.45	0.018	0.43	0.75	0.43	0.51	0.45	617	715	176	yes
43934356	JCS 1321 Mark Domino 8341	11.3	0.28	38	0.34	1.4	0.43	1.4	0.44	67	0.44	0.058	0.43	0.86	0.43	0.66	0.43	383	476	161	yes
43734247	KBCR 49B Federal 634D	1.3	0.35	126	0.37	1.4	0.46	1.5	0.46	77	0.43	0.038	0.4	0.29	0.4	-0.54	0.41	376	432	64	yes
43268575	OR 3575 Husker N151 ET	10.1	0.43	31	0.55	1.1	0.64	1.3	0.65	74	0.59	0.148	0.56	0.54	0.57	0.63	0.59	437	538	163	yes
Bulls used on cows																					
43884151	Canyon Gem New Kid In Town 22F	4.9	0.3	101	0.31	1.4	0.42	1.3	0.41	93	0.41	0.018	0.38	0.96	0.4	0.38	0.4	453	556	182	yes
43919937	Churchill Broadway 858F	-0.9	0.33	107	0.38	1.3	0.53	1.4	0.52	107	0.49	0.158	0.48	0.5	0.48	0.66	0.47	521	653	210	yes
43800218	CL 1 Domino 710E 1ET	14.3	0.47	110	0.41	1.6	0.6	1.8	0.59	95	0.53	0.068	0.52	0.12	0.5	0.13	0.51	450	540	139	yes
43847198	EFBeef C609 Resolute E158 ET	1.9	0.29	98	0.36	1.5	0.47	1.6	0.46	89	0.52	0.068	0.5	0.64	0.49	0.71	0.51	491	615	190	yes
43904896	EFBeef A250 Tested F294	4.1	0.28	66	0.36	1.4	0.44	1.4	0.45	79	0.53	0.098	0.52	0.74	0.52	0.6	0.52	441	551	168	yes
43877356	FTF Powerhouse 7443E	2.5	0.24	80	0.28	1.4	0.39	1.4	0.4	61	0.47	-0.012	0.43	0.52	0.45	0.01	0.45	423	488	109	yes
43930411	KJ 555D Leader 117F	1.1	0.29	97	0.37	1.4	0.45	1.4	0.45	55	0.48	0.028	0.46	0.3	0.45	0.14	0.46	430	518	91	yes
43943612	PCC 3055 49C Ace 7115	5.2	0.28	72	0.35	1.4	0.46	1.4	0.46	81	0.48	-0.022	0.45	0.76	0.46	0.1	0.46	454	525	131	yes
43910830	Schu-Lar Asset 36F	3.5	0.3	41	0.38	1.3	0.45	1.4	0.45	61	0.48	0.018	0.47	0.54	0.47	0.44	0.48	457	548	147	yes
43624399	Schu-Lar Conversion 501 ET	6.4	0.41	107	0.42	1.7	0.57	1.7	0.58	59	0.64	0.038	0.61	0.76	0.62	0.45	0.63	418	520	133	yes
43894968	SHF Foresight B413 F158	3.9	0.29	99	0.36	1.4	0.47	1.2	0.48	91	0.55	0.038	0.53	1.12	0.54	0.61	0.54	453	571	200	yes
43872790	UPS Mighty 7850 ET	-0.9	0.29	108	0.36	1.4	0.5	1.3	0.5	92	0.48	0.048	0.46	0.61	0.47	-0.07	0.46	445	523	117	yes
43910763	WHR X51 T306 Beefmaker 493E ET	5.8	0.32	104	0.39	1.4	0.48	1.4	0.47	78	0.48	0.038	0.46	0.94	0.47	0.51	0.46	500	601	173	yes

both quality and yield, especially in today's cattle feeding climate where most cattle are fed long past their endpoint.

Table 4. These are the EPDs for the sires used in the Olsen test. They include all of the observed post-weaning phenotypes and are reflective of the genetic evaluation released Jan. 17, 2022.

Because of AHA's partnership with Olsen Ranch and other test herds, breeders can make better-informed decisions relative to traits of interest.

Nominate bulls and herds

The AHA is seeking nominations for the NRSP. As alluded to in this article, participating sires reap the benefit of acquiring high-accuracy carcass EPDs and performance data. Breeders can also leverage a sire's participation in the NRSP as a marketing tool.

NRSP bull nominations are due March 1. Visit Hereford.org/genetics/breedimprovement/nrsp/ for full program details and to complete the online application.

The AHA always seeks opportunities to build on the impressive group of current NRSP test herds. These test herds gain access to leading-edge germplasm from some of the most progressive Hereford herds in the U.S. If you are interested in becoming a test herd for the NRSP, please contact Shane Bedwell at sbedwell@hereford.org. **HW**



Progeny of NRSP sires underscore Hereford genetics' efficiency and the ability to match consumer quality demands. Nearly 90% of the cattle in the recent test graded USDA Choice or higher.