



Commercial Genomics
BIF 2024



About BREEDPLAN

The world's most widely used livestock genetic evaluation

First genetic evaluation for beef cattle

Developed by researchers at the University of New England in Australia

Primary focus on the seedstock sector

Initially used pedigree and phenotypes

Launched single-step genomic evaluation in 2017

Used by over 100 breed associations worldwide

Has been instrumental in delivering genetic gain globally.



But for commercial ranchers...

Like most cattle genetic evaluations BREEDPLAN only helps seedstock producers attain gain across their breeding herd.

BREEDPLAN and other similar evaluations help commercial ranchers buy the right bull.

They do not provide the full genetic picture

The barrier to entry with data collection and pedigree requirements are not suited for the needs of commercial ranchers.

Guesswork and subjective selection decisions leave commercial ranchers at a disadvantage in genomics.

Commercial ranchers often struggle with interpreting data and results.



BREEDPLAN Select

Aimed at the specific needs of the commercial rancher to complete the genetic picture of their herd with a low-density chip DNA test.

Allows for selection decisions based on



Better carcass performance



Higher Growth Rates



Increase Fertility



Launching in 2024 with




Genotypes by



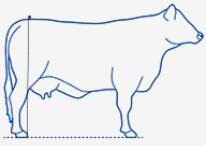
Available to most single-step breeds. Crossbred option coming soon.

Seedstock

Pedigree Data




Phenotypic Data



Single Step

Genotypic Data



Black Box



BREEDPLAN

EPDs / EBVs

February 2024 Hereford BREEDPLAN


	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	Birth Wt. (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mat Cow Wt. (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (days)	Carcass Wt (kg)	Eye Muscle Area (sq cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)	Docility (kg/day)	NFI-F
EBV	+7.6	+4.1	-0.3	+2.4	+34	+61	+77	+56	+17	+2.5	-6.9	+62	+5.8	+2.1	+3.4	+0.5	+1.0	+35	-
Accuracy	44%	36%	72%	71%	68%	67%	68%	60%	54%	67%	40%	55%	48%	53%	57%	48%	55%	44%	-
Breed Avg. EBVs for 2022 Born Calves Click for Percentiles																			
EBV	+2.1	+2.2	-1.1	+4.5	+36	+59	+83	+71	+17	+2.3	-2.7	+55	+4.5	+0.7	+0.9	+1.0	+0.8	+3	-0.01

Commercial

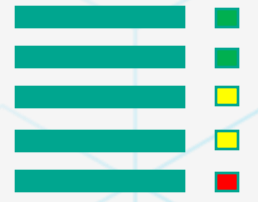


SNP Data
(Low density chip)

Prediction Equations



DGVs



Simplified Data Visualizations & Insights

BREEDLOGIC

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Test Herd 2024

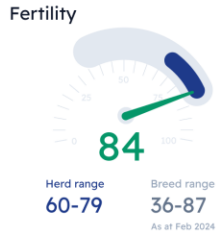
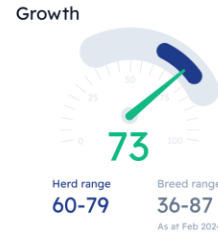
Overview Animals **DGVs** Comparison

Details

Test date
12 Dec 2023

Breed
Hereford

Calving year
2020



Show more detail

Selection

Selection criteria

Animal name...	DIR	DTRS	MILK	DTC	400D	MCW	CW	RBV	IMF	DOC	INDEX
WNAE99	42	33	15	30	44	32	51	40	50	44	48
WNAF214	35	35	66	72	70	68	51	55	61	71	77
WNAG134	22	16	88	85	78	75	25	36	44	62	65
OSA043377074AHR	48	50	62	63	67	66	65	39	33	54	58
OSA0216133062NZ...	66	55	60	25	32	31	33	40	48	51	58
YAVJ022	68	88	75	36	79	65	77	85	80	90	88
WNAE99	42	33	15	30	44	32	51	40	50	44	48
WNAE99	42	33	15	30	44	32	51	40	50	44	48
WNAF214	35	35	66	72	70	68	51	85	61	71	77
WNAG134	22	16	88	85	78	75	25	39	44	62	65
OSA043377074AHR	48	50	62	63	67	66	65	55	33	54	58
OSA0216133062NZ...	66	55	60	25	32	31	33	36	48	51	58
YAVJ022	68	88	75	36	79	65	77	40	80	90	88

Selection criteria

Show: Top performing Amount: 10

DGVs: DIR X DTRS X MILK X DTC X 400D X CW X

Show Range: DGVs RBV X

0 25 50 75 100

+ Add another

Clear Apply

Simplified Data Visualizations & Insights



Test Herd 2024

Overview Animals **DGVs** Comparisons

Details

Test date
12 Dec 2023

Breed
Hereford

Calving year
2020

Calving ease



Herd range: 36-53
Breed range: 24-75
As at Feb 2024

Growth



Herd range: 60-79
Breed range: 36-87
As at Feb 2024

Fertility

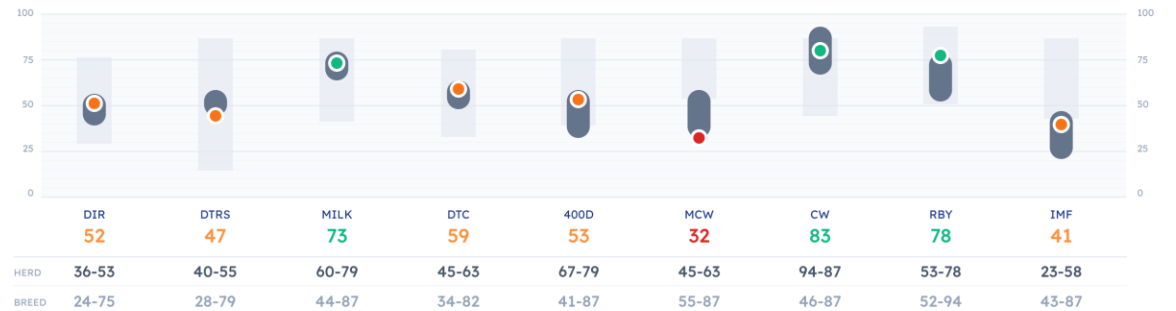


Herd range: 60-79
Breed range: 36-87
As at Feb 2024

Carcase



Herd range: 45-63
Breed range: 27-87
As at Feb 2024



[Hide more detail](#)

Selection

[Selection criteria](#)

Animal name...	DIR	DTRS	MILK	DTC	400D	MCW	CW	RBY	IMF	DOC	INDEX
WNAE99	42	33	15	30	44	32	51	40	50	44	48
WNAF214	35	35	66	72	70	68	51	55	61	71	77
WNAG134	22	16	88	85	78	75	25	36	44	62	65

Comparison tool For animal Selection and Purchasing Decisions

B BREEDLOGIC

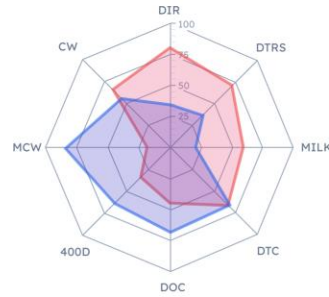
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DGV comparison

The increasing availability of marker information in livestock combined with improvements in genomic selection methods allow breeders to select animals on genotypes early in life. The use of pedigree, phenotypic, and genotypic data in combination can increase genetic progress by decreasing the generational interval and by increasing the accuracy of genomic predictions and thus reliability of assessment of animals' genetic merit.

Name	DIR	DTRS	MILK	DTC	400D	MCW	CW	RBY	IMF	DOC	INDEX
Test Herd 2024	52	47	73	59	53	32	83	78	32	83	78
Glendank Park Tyrone (PP)	52	47	73	59	53	32	83	78	32	83	78

4 results



Glendank Park Tyrone (PP)

- Angus Stud
- Bull
 - Angus
 - Sire: Days Jamieson P021 (AI) (PP)
 - Dam: Glendank Park Marshall L P086 (P)
 - Homozygous poll. T144 has a strong head and is wide based with good skin and hair. He has 2 maternal sisters retained in herd.

\$/Head Described



Lot 1 - Chateau ThorT26 (P A AA)

- Angus Stud
- Bull
 - Angus
 - Sire: Chateau New Generation (P A AA)
 - Dam: Chateau Princess Moonstruck (H A U)
 - What a way to celebrate our 10th Annual Sale by opening with a bull like Thor T26. A Polled, French Pure sire that is one of the heaviest bulls...

\$/Head Described



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\$/Head Described



Alpine Quarter Pounder T426

- Alpine Angus
- Bull
 - Angus
 - Sire: Banquet Quarter Pounder Q252
 - Dam: Alpine Edwina Q331
 - Upstanding Quarter Pounder son with an excellent Birth to Growth spread and decent Carcase attributes. Out of a feminine Main Event daughter. Our Main Event females, like their brothers have im...

\$/Head Described

Questions?

