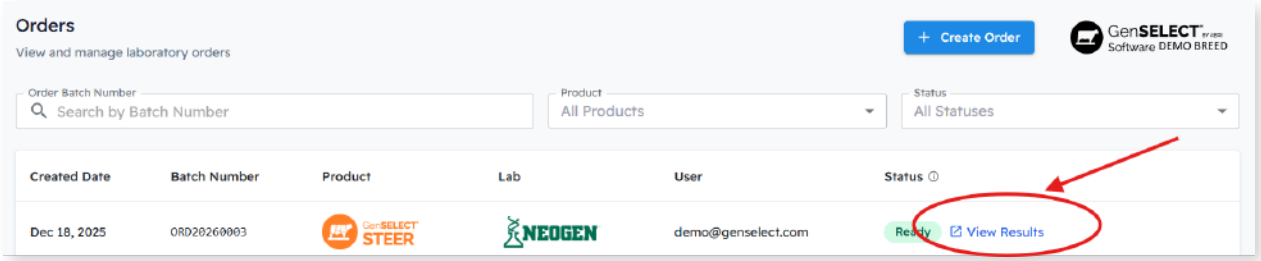
How to Interpret Your Results

Where are my results?

Once your results are ready, you will receive an email advising you to log back into the GenSELECT website. (Please check your junk mail in the event you don't see your results email).

Login to the GenSELECT website https://genselect.breedplan.com.au/login/ using the login details you entered when you placed your order.

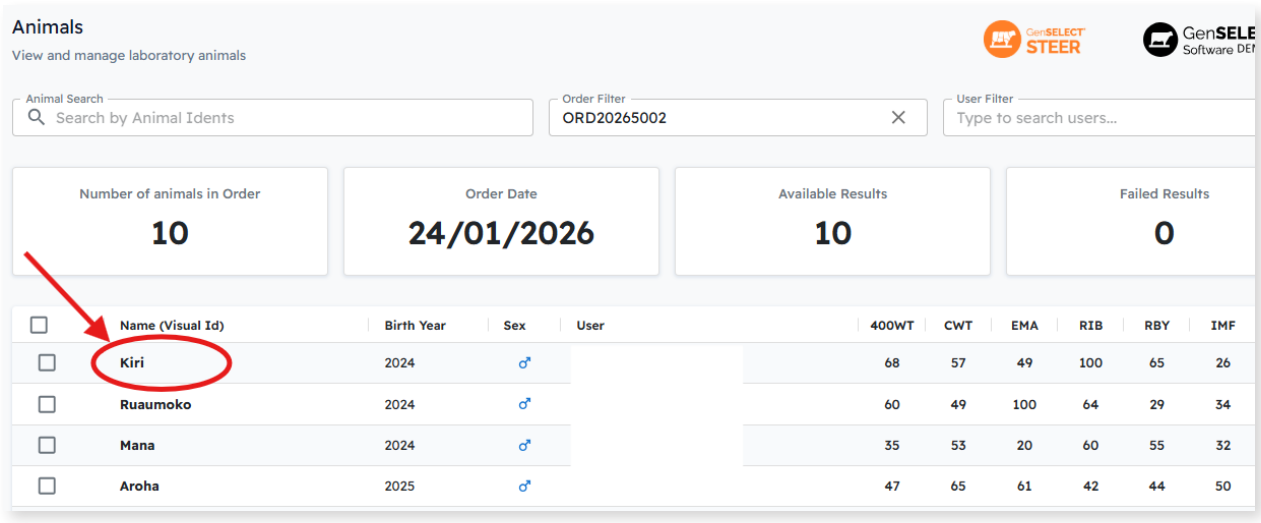
Click the **'View Results'** button.



How are the results reported?

For Individual Heifer & Steer Results: All traits are reported as genomic prediction score, from 0 (low) to 100 (high), with 50 being the average.

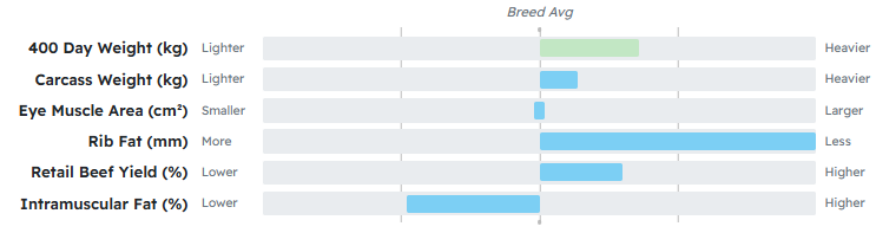
Steer example:



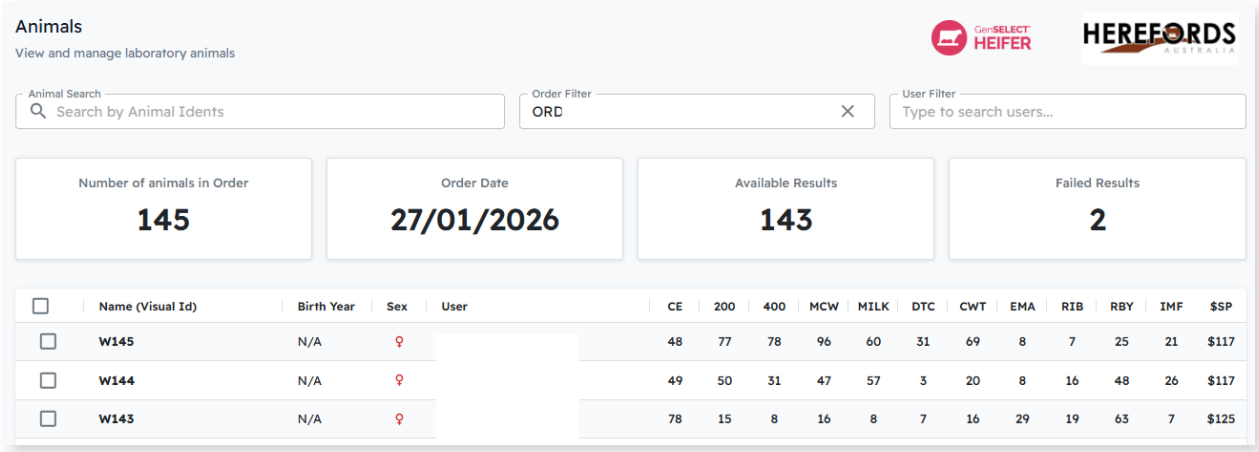
Select an individual animal (by clicking on the animals Name (Visual ID) to see the percentile graph.

GBV Data

	400WT	CWT	EMA	RIB	RBY	IMF
Genomic Prediction	68	57	49	100	65	26

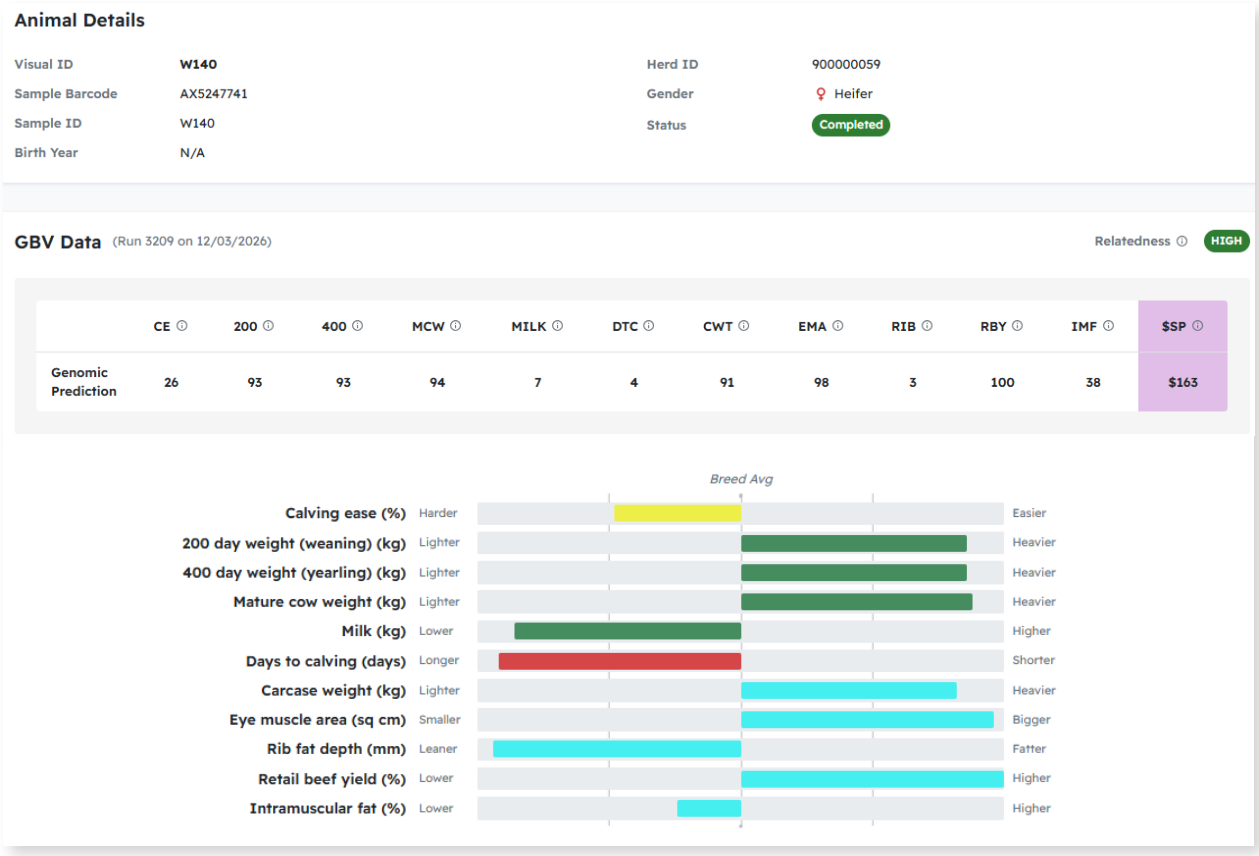


Heifer example:



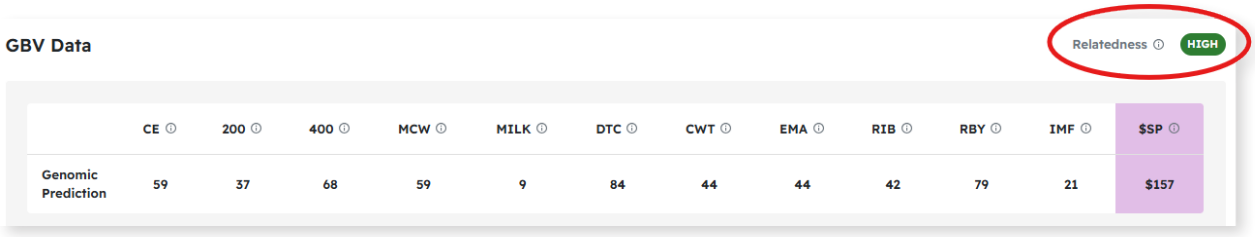
Name (Visual Id)	Birth Year	Sex	User	CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
W145	N/A	♀		48	77	78	96	60	31	69	8	7	25	21	$117
W144	N/A	♀		49	50	31	47	57	3	20	8	16	48	26	$117
W143	N/A	♀		78	15	8	16	8	7	16	29	19	63	7	$125

Clicking on an animals' Visual ID will bring up the animals' individual details and graph.



	CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
Genomic Prediction	26	93	93	94	7	4	91	98	3	100	38	$163

Understanding Relatedness – How reliable are the predictions?



The relatedness indicator shows how genetically similar this animal is to the reference population used for genomic analysis.

HIGH Animal is genetically similar to the reference population. GBV comparisons are reliable and meaningful.

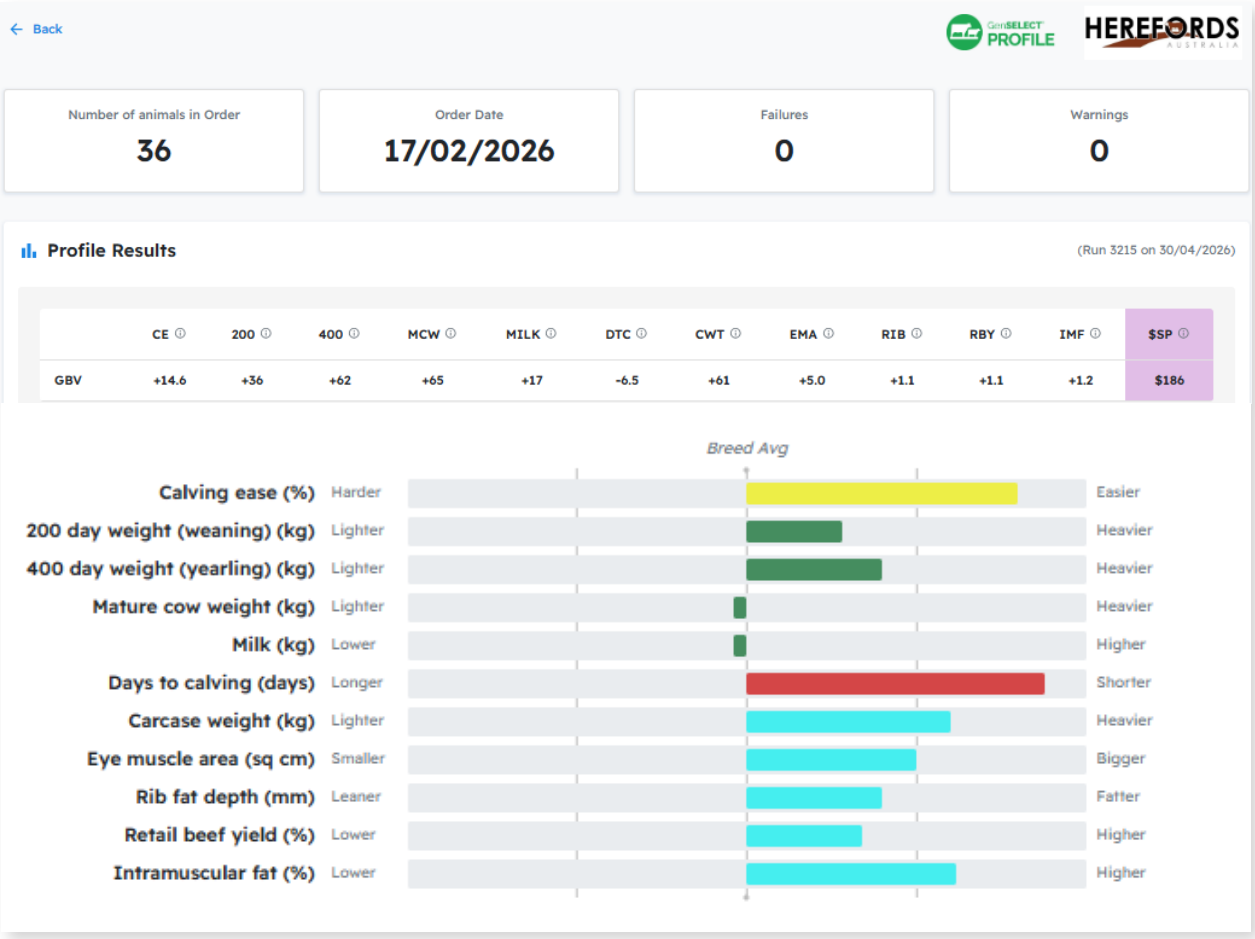
MEDIUM Animal has some genetic differences from the reference population. Use caution when comparing GBV values.

LOW Relatedness is too low for reliable GBV comparisons. Animal is excluded fromgenomic evaluation.

Note that an animal with low relatedness to the reference population **will not** have results reported as they aren't deemed reliable enough to make selection decisions from.

GenSELECT Profile

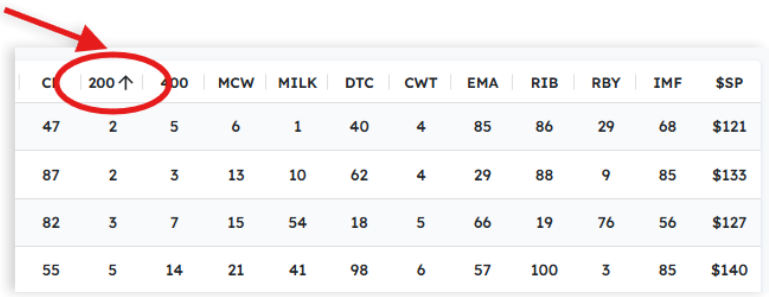
The Genomic Breeding Values (GBVs) provided, that are averaged across the 30 females sampled can be compared to BREEDPLAN Estimated Breeding Values (EBVs) to help you identify where you herd sits compared to the wider industry.



Sorting Animals within the GenSELECT Portal

Within the GenSELECT portal animals can be sorted by one trait at a time, by clicking the relevant heading.

Clicking the heading once will sort animals within the order from lowest genetic merit score to the highest. If you click the heading again the sort will be reversed, with the highest animals at the top of the list.

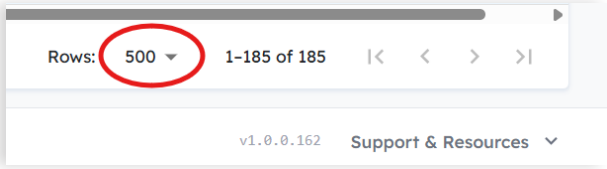


CE	200 ↑	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
47	2	5	6	1	40	4	85	86	29	68	$121
87	2	3	13	10	62	4	29	88	9	85	$133
82	3	7	15	54	18	5	66	19	76	56	$127
55	5	14	21	41	98	6	57	100	3	85	$140

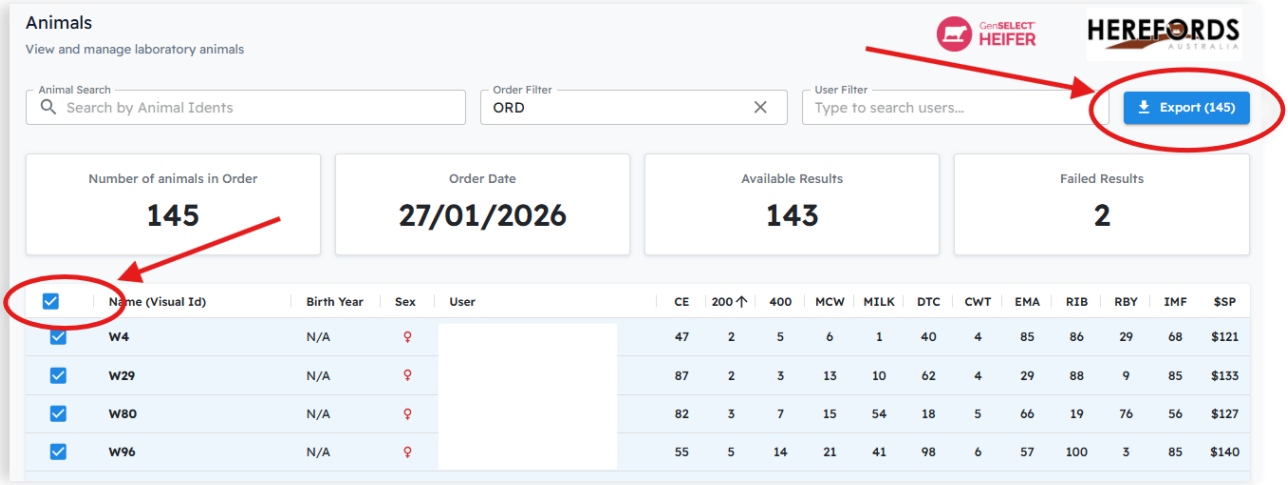
For more comprehensive sorting and to capture & store your selections you can export the results into Excel.

Exporting Results

Go to the bottom right of the screen and select the number of rows that will capture all the animals in your order.



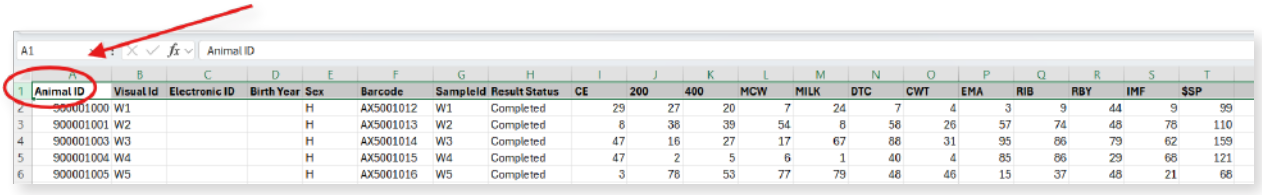
Click the tick box at the top of the list of animals, which will select all the animals on the screen. Then click the 'Export' button & the results will download into an Excel file. The file can then be found in your downloads folder.



Name (Visual Id)	Birth Year	Sex	User	CE	200 ↑	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
W4	N/A	♀		47	2	5	6	1	40	4	85	86	29	68	$121
W29	N/A	♀		87	2	3	13	10	62	4	29	88	9	85	$133
W80	N/A	♀		82	3	7	15	54	18	5	66	19	76	56	$127
W96	N/A	♀		55	5	14	21	41	98	6	57	100	3	85	$140

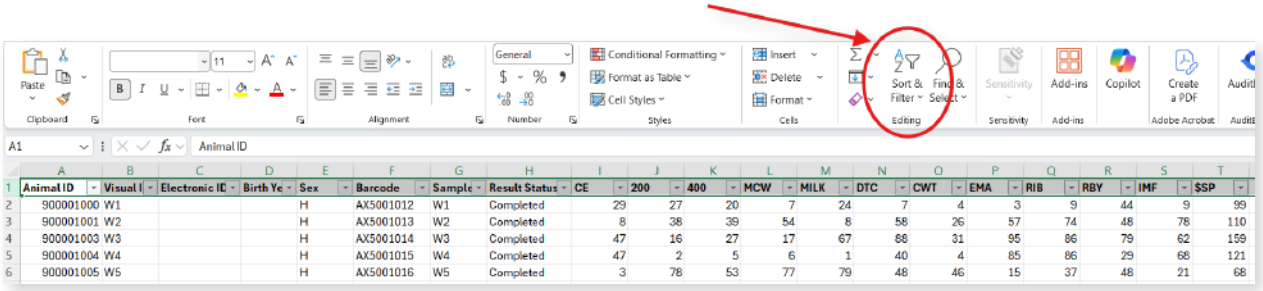
Adding Filters to your Excel Results File

Select row 1 to highlight all the heading fields.



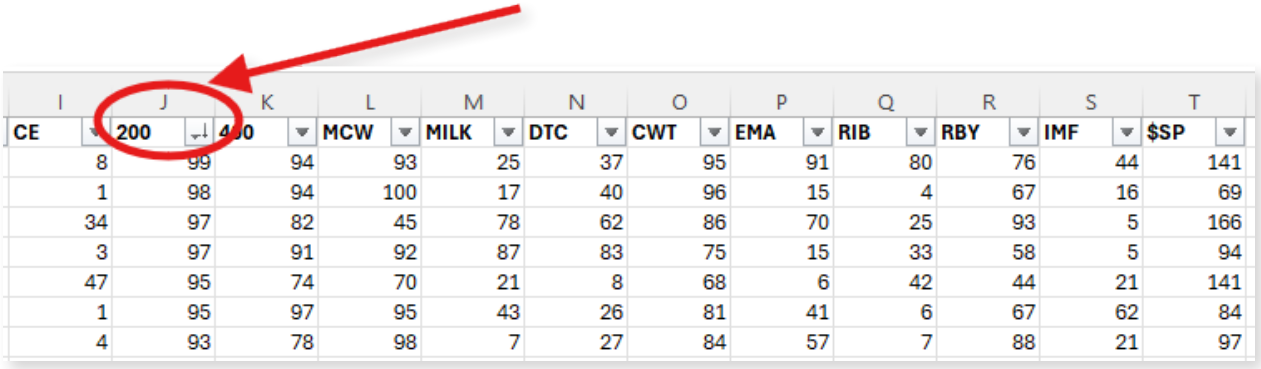
Animal ID	Visual Id	Electronic ID	Birth Year	Sex	Barcode	SampleId	Result Status	CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
900001000	W1			H	AX5001012	W1	Completed	29	27	20	7	24	7	4	3	9	44	9	99
900001001	W2			H	AX5001013	W2	Completed	8	38	39	54	8	58	26	57	74	48	78	110
900001003	W3			H	AX5001014	W3	Completed	47	16	27	17	67	88	31	95	86	79	62	159
900001004	W4			H	AX5001015	W4	Completed	47	2	5	6	1	40	4	85	86	29	68	121
900001005	W5			H	AX5001016	W5	Completed	3	78	53	77	79	48	46	15	37	48	21	68

Click the 'Sort & Filter' button in the toolbar of Excel. Note that your screen layout may vary from the image.



Animal ID	Visual I	Electronic ID	Birth Ye	Sex	Barcode	Sample	Result Status	CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
900001000	W1			H	AX5001012	W1	Completed	29	27	20	7	24	7	4	3	9	44	9	99
900001001	W2			H	AX5001013	W2	Completed	8	38	39	54	8	58	26	57	74	48	78	110
900001003	W3			H	AX5001014	W3	Completed	47	16	27	17	67	88	31	95	86	79	62	159
900001004	W4			H	AX5001015	W4	Completed	47	2	5	6	1	40	4	85	86	29	68	121
900001005	W5			H	AX5001016	W5	Completed	3	78	53	77	79	48	46	15	37	48	21	68

Filters have now been applied so you can click the arrow drop down icons on each heading to sort the fields you are interested in.



CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
8	99	94	93	25	37	95	91	80	76	44	141
1	98	94	100	17	40	96	15	4	67	16	69
34	97	82	45	78	62	86	70	25	93	5	166
3	97	91	92	87	83	75	15	33	58	5	94
47	95	74	70	21	8	68	6	42	44	21	141
1	95	97	95	43	26	81	41	6	67	62	84
4	93	78	98	7	27	84	57	7	88	21	97

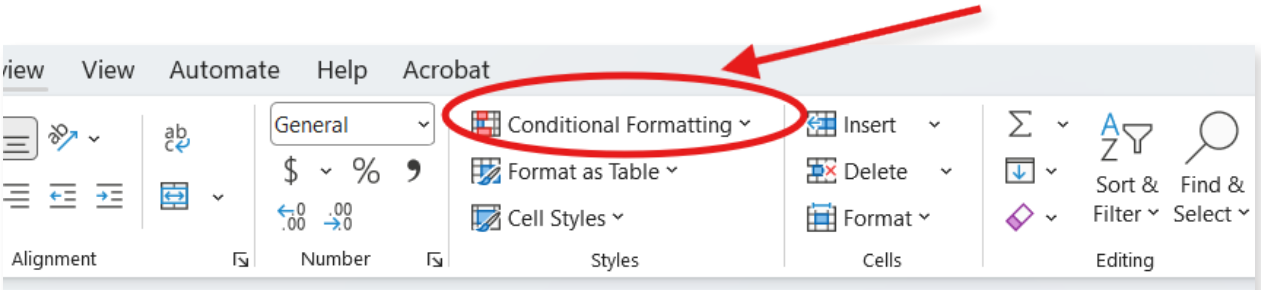
Conditional Formatting – Highlighting animals based on 'rules'.

Select the 'Conditional Formatting' button and choose **'Highlight Cell Rules'**, **'Greater Than'** – in this example 50 was entered as the cut off number – as the numbers are presented as genomic prediction scores 50 is the average.

Note that the Sustainability Production Index is reported as an index.

Result Status	CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
Completed	8	99	94	93	25	37	95	91	80	76	44	141
Completed	1	98	94	100	17	40	96	15	4	67	16	69
Completed	34	97	82	45	78	62	86	70	25	93	5	166
Completed	3	97	91	92	87	83	75	15	33	58	5	94
Completed	47	95	74	70	21	8	68	6	42	44	21	141
Completed	1	95	97	95	43	26	81	41	6	67	62	84
Completed	4	93	78	98	7	27	84	57	7	88	21	97

Exclude selecting the index column, as it will have numbers outside of the 1 to 100 scale.



Result Status	CE	200	400	MCW	MILK	DTC	CWT	EMA	RIB	RBY	IMF	$SP
Completed	1	98	94	100	17	40	96	15	4	67	16	69
Completed	8	99	94	93	25	37	95	91	80	76	44	141
Completed	26	93	93	94	7	4	91	98	3	100	38	163
Completed	8	79	89	98	53	0	91	96	1	100	21	117
Completed	61	81	78	48	75	18	91	82	10	98	3	178
Completed	23	85	96	99	3	35	87	3	6	18	85	153
Completed	34	97	82	45	78	62	86	70	25	93	5	166
Completed	4	93	78	98	7	27	84	57	7	88	21	97
Completed	53	89	91	83	33	77	84	79	65	58	26	177
Completed	61	83	76	51	74	0	84	39	4	96	5	141

Strategically Reviewing Your Results

What's your breeding objective?

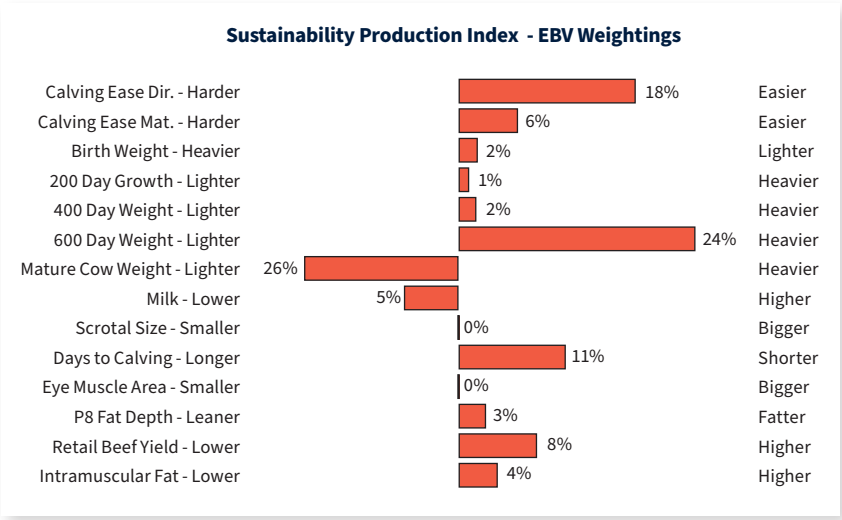
Are you looking to strategically feed/sell/cull or mate?

Determine which traits will help you reach your goals and then sort animals accordingly – if the SPI Index is in line with your breeding objective and the selection pressure you wish to apply, then sorting on the SPI Index can be a useful place to start before then considering individual traits along with other factors you may wish to select on (phenotype/temperament/pregnancy status/calving date etc).

Sustainability Production Index ($) - *Estimates the genetic differences between animals in net profitability per cow joined in a commercial self-replacing Hereford herd targeting the domestic market and with a strong focus on sustainability. Daughters are retained for breeding, so maternal traits are of importance. Steers are finished on grass until 20 months of age to target 300 kg carcasses with 10 mm P8 fat depth.*

Sustainability Production Index

- Commercial self-replacing Hereford herd targeting the domestic market and with a strong focus on sustainability.
- Selected heifers are retained so maternal traits are important
- Steers finished on grass
- Steers target 300kg carcases with 10mm P8 fat depth at 20 months of age



For context on how your animals rank on the Sustainability Production Index please see the following percentile table.

Percentile Band	Sustainability Production Index ($)	Percentile Band	Sustainability Production Index ($)
Top Value	+287	Top 55%	+148
Top 1%	+240	Top 60%	+143
Top 5%	+218	Top 65%	+137
Top 10%	+205	Top 70%	+131
Top 15%	+196	Top 75%	+125
Top 20%	+188	Top 80%	+118
Top 25%	+181	Top 85%	+111
Top 30%	+175	Top 90%	+101
Top 35%	+170	Top 95%	+88
Top 40%	+164	Top 99%	+63
Top 45%	+159	Low Value	-9
Top 50%	+154		

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