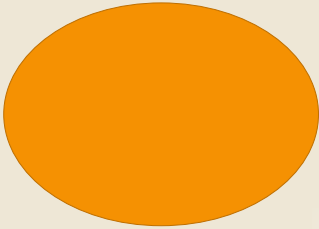


AB-EPD Adjustments: Why and How?

Joe Epperly
Assistant Executive Director
North American Limousin Foundation

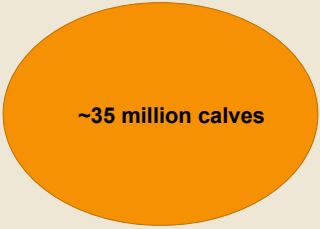
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Total Beef Herd



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Total Beef Herd



~35 million calves

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Total Beef Herd



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Total Beef Herd



~750k pedigree calves

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Pedigree Calves



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Tomato

Serving Size: 100 g	
Amount Per Serving	
Calories 32	Calories from Fat 3
% Daily Value*	
Total Fat 0g	0%
Saturated Fat 0g	0%
Trans Fat	
Cholesterol 0mg	0%
Sodium 0mg	0%
Total Carbohydrate 7g	2%
Dietary Fiber 2g	9%
Sugars 5g	
Protein 2g	
Vitamin A 30% • Vitamin C 30%	
Calcium 2% • Iron 3%	

*Percent Daily Values are based on a 

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TABLE 1: ADJUSTMENT FACTORS TO ADD TO EPDs OF EIGHTEEN DIFFERENT BREEDS TO ESTIMATE ACROSS BREED EPDs

Breed	Birth Wt. (lb)	Weaning Wt. (lb)	Yearling Wt. (lb)	Marbling (lb)	Score ¹	Ribeye Area (sq in)	Fat Thickness (in)	Carcass Weight (lb)
Angus	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0
Hereford	2.3	-7.8	-26.6	-17.3	-0.31	-0.07	-0.06	-59.0
Red Angus	2.5	-31.4	-34.6	3.3	-0.27	0.01	-0.06	-9.0
Shorthorn	4.7	-36.6	-17.3	4.1	-0.14	0.37	-0.10	-7.1
South Devon	3.3	-11.4	-27.1	3.9	-0.08	0.29	-0.13	-24.8
Dorset	4.7	17.9	0.5	5.9				
Brabant	10.3	45.1	6.6	23.6	-0.78	-0.05	-0.14	-27.8
Brangus	3.3	12.0	4.0	6.3				
Santa Gertrudis	5.7	30.3	43.0	17.0	-0.54	-0.09	-0.08	2.2
Brahman	1.9	-25.5	-30.0	-0.8	-0.70	0.78	-0.02	-13.0
Charolais	0.0	-34.6	-40.4	8.2	-0.33	1.01	-0.08	-18.1
Chianina	3.2	-27.0	-40.5	-1.7	-0.34	0.34	-0.08	-15.0
Limousin	2.8	-22.6	-29.3	2.3	-0.27	0.75		-12.0
Mane-Anjou	4.2	-30.5	-38.7	-6.2	-0.57	0.97	-0.07	-15.9
Rollers	1.8	-7.3	-25.7	5.9	-0.09	0.94	-0.16	-23.5
Simmental	3.2	-4.4	-12.1	4.4	-0.34	0.49	-0.12	-4.4
Tarentaise	3.4	25.1	5.6	24.2				

¹Scoring scale: 0.00 = 0, 1.00 = 100

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2015 Born Limousin Bull Performance Data

	Act. Birth Weight	Adj. 205 day Weight	Adj. 365 day Weight	Adj. Back Fat	Adj. IMF	Adj. REA
Lim-Flex						
Average	80.0	674.4	1188.4	0.27	3.10	14.17
Minimum	42.0	374.8	817.8	0.04	0.60	8.77
Maximum	117.0	1054.4	1616.7	0.86	7.25	21.44
Purebred						
Average	82.8	646.8	1146.0	0.20	2.42	15.36
Minimum	41.0	333.7	679.2	0.03	0.75	8.76
Maximum	118.0	1043.9	1596.2	0.51	5.72	21.02
Fullblood						
Average	79.9	660.9	1048.1	0.16	3.08	14.67
Minimum	65.0	474.6	702.9	0.08	3.02	13.46
Maximum	98.0	895.7	1422.1	0.24	3.13	15.87
Percentage						
Average	80.4	656.1	1155.8	0.21	2.67	14.69
Minimum	47.0	415.5	772.2	0.02	1.26	9.82
Maximum	110.0	996.4	1449.7	0.60	5.68	19.30

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Actual BW	Average EPD	Average Wt.	Minimum EPD	Maximum EPD	Count
<70	-0.6	64.3	-8.3	4.2	4899
70-79	0.3	74.7	-6.6	6.0	5023
80-89	1.1	84.1	-4.2	6.4	6842
90-99	2.2	93.5	-1.9	7.6	3011
>100	3.7	105.5	-1.9	10.0	731
Average	1.0	82.1			

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Possible Change

BIF Accuracy	CED	BW	WW	YW	MK	CEM	SC	CW	REA	MARB
(%)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(%)	(cm.)	(in ²)	(in ²)	(in ²)	(in ²)
0	8.6	3.0	16.2	24.7	14.8	8.9	0.70	36	0.46	0.24
0.1	7.8	2.8	15.0	22.0	13.7	8.0	0.62	32	0.41	0.22
0.2	6.9	2.5	13.4	19.4	12.2	7.1	0.56	29	0.37	0.20
0.3	6.1	2.2	11.7	16.8	10.8	6.2	0.49	25	0.32	0.17
0.4	5.2	1.9	10.0	14.2	9.2	5.3	0.42	22	0.28	0.14
0.5	4.3	1.6	8.1	11.5	7.4	4.5	0.35	18	0.23	0.12
0.6	3.5	1.3	6.4	9.0	5.8	3.6	0.28	14	0.18	0.10
0.7	2.6	1.0	4.8	6.4	4.3	2.7	0.21	11	0.14	0.07
0.8	1.7	0.7	3.2	3.9	2.9	1.8	0.15	7	0.09	0.05
0.9	0.9	0.4	1.5	2.1	1.4	0.9	0.08	4	0.05	0.02

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Seedstock Producers

- When planning hybrid matings, use other breed association tools

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Example

	CED	BW	WW	YW	MK	CEM	CW	REA	MARB	FT
AAA EPDs	6	-1.4	63	102	27	11	34	0.26	0	0.021
USMARC Adj.	NA	-3.7	81	143	41	NA	46	-0.75	0.43	0.151
IGS Evaluation	14	-4.6	73	119	29	11	34	0.26	0.19	0.030

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Use breed association tools

Progeny Calculator - see how a battery of bulls compares if mated to a single female

Cow Registration #:

Use My Females

Retrieve this Cow's Information

All My Bulls

My Sires

My Sires Inventory

Progeny Tested Sires

Genetic Indicator Sires

446 Bulls

Reset

Calculate this bull

Breed #

Tattoo

Name

SC

CED

BW

WW

YW

MIK

TM

CEM

SC

ST

DOC

YC

CW

REA

FAT

MARB

SMIT

SIC

Colours

Color

Heating

EPDS

green

value in the top 25% of the breed

EPDS

red

value in the bottom 25% of the breed

EPDS

black

value in the middle 25% of the breed

G

green

3 or more growth trait values in the top 25%, none in the bottom 25%

G

red

one or more growth trait values in the bottom 25%

C

green

2 or more carcass trait values in the top 25%, none in the bottom 25%

C

red

one or more carcass trait values in the bottom 25%

Resulting Progeny EPD % Ranks

Growth & Feedlot

Carcass

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Summary

• Use the Macro tools for Macro decisions and vice versa

• Use breed association support for planned hybrid matings

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Questions?

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