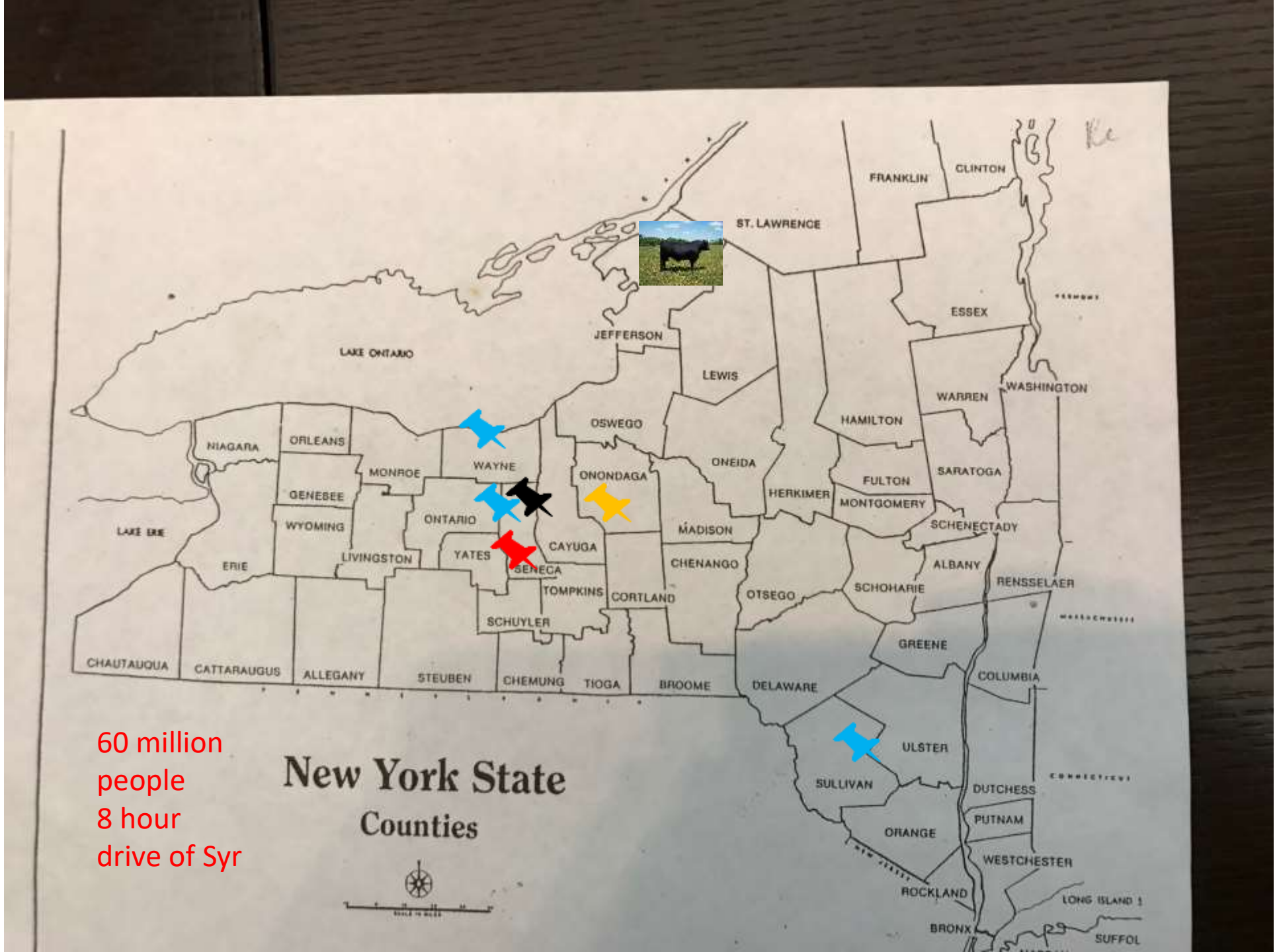
Improving Herd Genetics

January 12, 2021

Rich Brown Equity Angus
315-406-5335



60 million
people
8 hour
drive of Syr

"

Einstein's Definition of Insanity:

Continue to do the Same Thing

Expecting a Different Result

"

Improvement in Herd Genetics is Designed to Improve Farm Profit

To Improve Herd Genetics an Investment in Dollars and Time are Needed

What This Session Will Cover

Why do You Want to Improve Herd Genetics?

What do Your Customers Really Want to Buy From You? (Potential Markets)

New York State Environment for Cattle.

Some Different Beef Cattle Breeds that fit in the Environment.

Two Ways to Improve Herd Genetics.

Why strive for better Genetics

- Personal Preference
- Increased Profit Potential
- Higher Feeder Calf Prices
- Sale of higher quality meat results in new & repeat customers
- Potential for Breeding Stock Sales
- Similar cost of production

Potential Dollar Difference

- 20 cent difference per pound, calf weight.
- 500 lb steer calf x 20 cents/lb = $100 per calf.
- 15 steer calves to sell = $1,500 cash increase.
- 15 heifer calves to retain = $1,500 increased Value.
- Total of $3,000 increased Value to Farm per year.
- For just 3 years increased Value to Farm is $9,000.
- If your using a quality Bull also a Residual Value of $1,000 est.

NEW YORK STATE ENVIRONMENT

Where you are affects Genetic Decisions

- **STRONG POINTS**
- Relatively Inexpensive Feed
- Good quality land (3 acres/cow)
- Large Consumer Market Potential
- Multiple Processing Plants
- Excellent Transportation System
- Spring, Summer & Fall Weather

- **WEAK POINTS**
- Producers Have Off Farm Income
- Small Herds
- **Diversified / Non-uniform Cow Herds**
- Few Buyers
- No Data Feed Back From Buyers
- Short Growing Crop Season
- Winter Weather & Mud

CONTENTIAL BREEDS

- **Rapid Large Growth**
  - Simmental
  - Gelbvieh
  - Charolais
  - Limousin
  - Murry Gray
  - Belgian Blue
  - Piedmontese

BRITISH BREEDS

- **Excellent Marbling**
  - Black Angus
  - Red Angus
  - Hereford

Calf For Sale

- How much will you pay per pound for this calf? Given that the high price for the best calves today is $1.30/lb.
Assume the calf is 500 pounds.

Feeder Cattle Sale- Finger Lakes Livestock Exchange, Canandaigua, NY

Sale- 4/1/2017 1007 head

Prices range down from this according to quality, condition, fill and vaccination.

KIND	WEIGHT	WEIGHT	LOW	HIGH
Beef Steers	301 lbs.	500 lbs.	43	154
Beef Steers	501 lbs.	700 lbs.	58	138
Beef Steers	701 lbs.	701 lbs. plus	60	125
Beef Heifers	301 lbs.	500 lbs.	50	135
Beef Heifers	501 lbs.	700 lbs.	40	131
Beef Heifers	701 lbs.	701 lbs. plus	72	120
Beef Bulls	301 lbs.	500 lbs.	40	143
Beef Bulls	501 lbs.	700 lbs.	60	127
Beef Bulls	701 lbs.	701 lbs. plus	79	106
Beef Replacements			300.00 head	1325.00 head


ANGU
The Business Bree

How Do You Pick Replacements?

- Pet Disposition
- Out of Favorite Cow
- Long Eyelashes
- Wife's Favorite Pet
- First One on Trailer
- Eats Cookies
- Looks Pretty
- Consultant/Do Farm Visits
- Pedigree
- EPDs (Expected Progeny Differences)
- Enhanced EPDs with Genomics
- Ultra Sound Testing
- Physical Appearance
- Market Potential

Ways to Improve Genetics

- **Buy in** high quality cattle from a reliable source that doesn't have health issues or play games with the genetics. i.e. names or EPD's **Ask Questions**
- Buy Embryos; yearlings; heifers; cows; and bulls **Ask Questions**
- Can I see the dam/sire at your farm?
- Is the bull semen & genetic defect tested?
- Is the Heifer/Cow genetic defect tested?
- Is the farm on the NYSCHAP herd health program or a Closed Herd?
- Has the Registration Name been changed? (Farm Name Change $5.00)
- Visit the Farm Purchasing from & Observe All Aspects of Management
- **Raise your own** by using AI; Quality Bulls and Researching Available Data.

Registration Number

+*19814495 Equity 131 Duchess 79 DWF

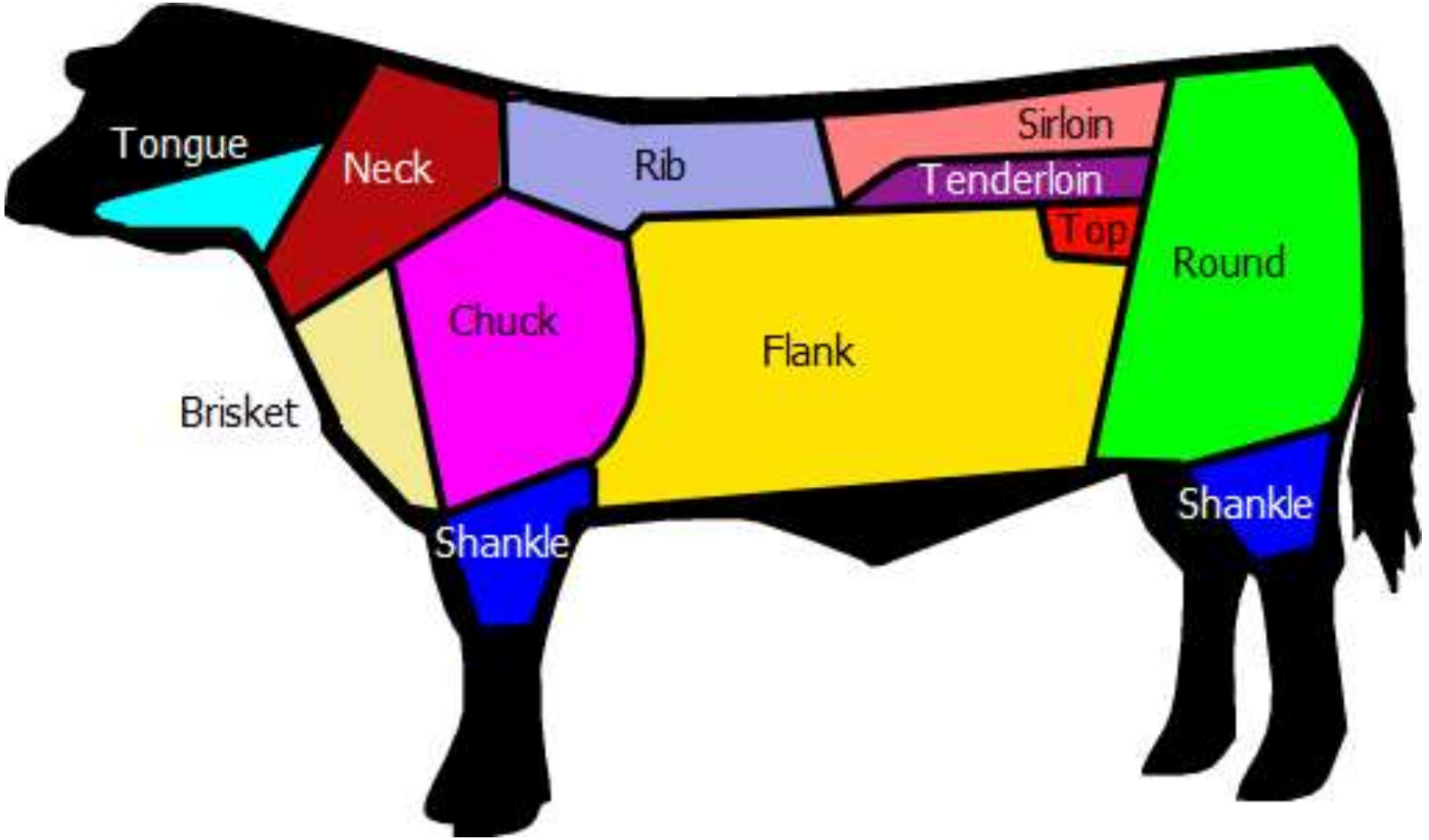
\+ Is a **Embryo** Calf

* Is a Calf with Both Parents and the Mating **DNA Verified**

Equity is the Farm Name (Easily Changed $5.00)

DW Dwarfism Gene

DWF, DWC, DWP

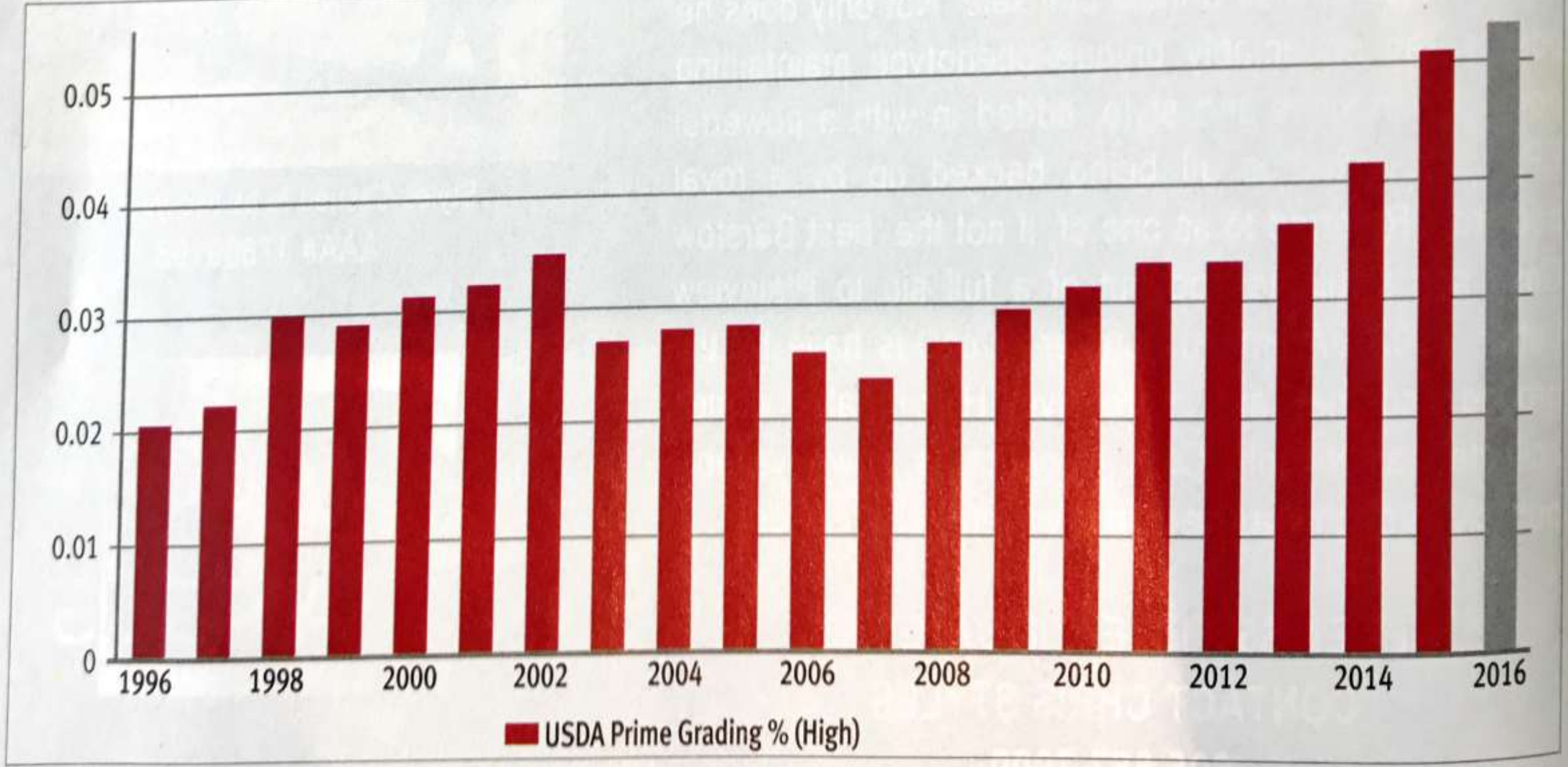


What we're really selling!

What are consumer's demanding?

- **TASTY** Marbling
- **TENDER** Age
- **SAFE & HEALTHY Source of PROTEIN**
- **CONSISTENT QUALITY**
- HUMANE TREATMENT
- FOOD SAFETY
- CHEAP & ABUNDANT
- ENVIRONMENTALLY FRIENDLY

Fig. 1: Historical USDA Prime grading percentage



Source: Urner Barry.

What Traits Contribute to the Bottom Line of a Cow/Calf Producer?

- **TOTAL WEIGHT OF CALF CROP**
  - # calves (affected by fertility)
  - Avg Weaning Weight Breed of Cattle make a Difference (mature size)
- **QUALITY OF CALVES**
  - Carcass (**IMF, REA, Backfat**) "Guessing or Data"
  - Condition (Target BCS 5 – not skinny but not fat)
- **Farm Health Reputation:** Johnes Disease, Respiratory, Mycoplasma (stress) etc. **BOOTS**
- **Angus Premium**

What Traits Contribute to the Bottom Line of a Feedlot Operation?

PURCHASE PRICE AND SALE PRICE

- QUALITY GRADE
  - Skeletal maturity (age) 14-18 months (Tenderness & Amount of Feed)
  - Marbling (Potential to **GRADE:** **Prime**; Choice; Select; Commercial)
- Yield (lbs sold & percent **YIELD:** **1**; **2**; 3; 4; 5)
  - REA - size
  - Backfat & KPH fat - waste
  - Hot Carcass Weight (Breed is Important)
- FEED EFFICIENCY (More data becoming available)
- **Uniformity** (Your Genetic Breeding Program)
- **Health** (Your Calves will develop your Farm Reputation)

Expected Progeny Differences (EPDs)

Performance, Pedigree, Progeny Data, Genotype

Calculated by a Single Step
Best Linear Unbiased Predictor (BLUP)
Genotypes 40,000 Single-nucleotide polymorphisms (SNPs)

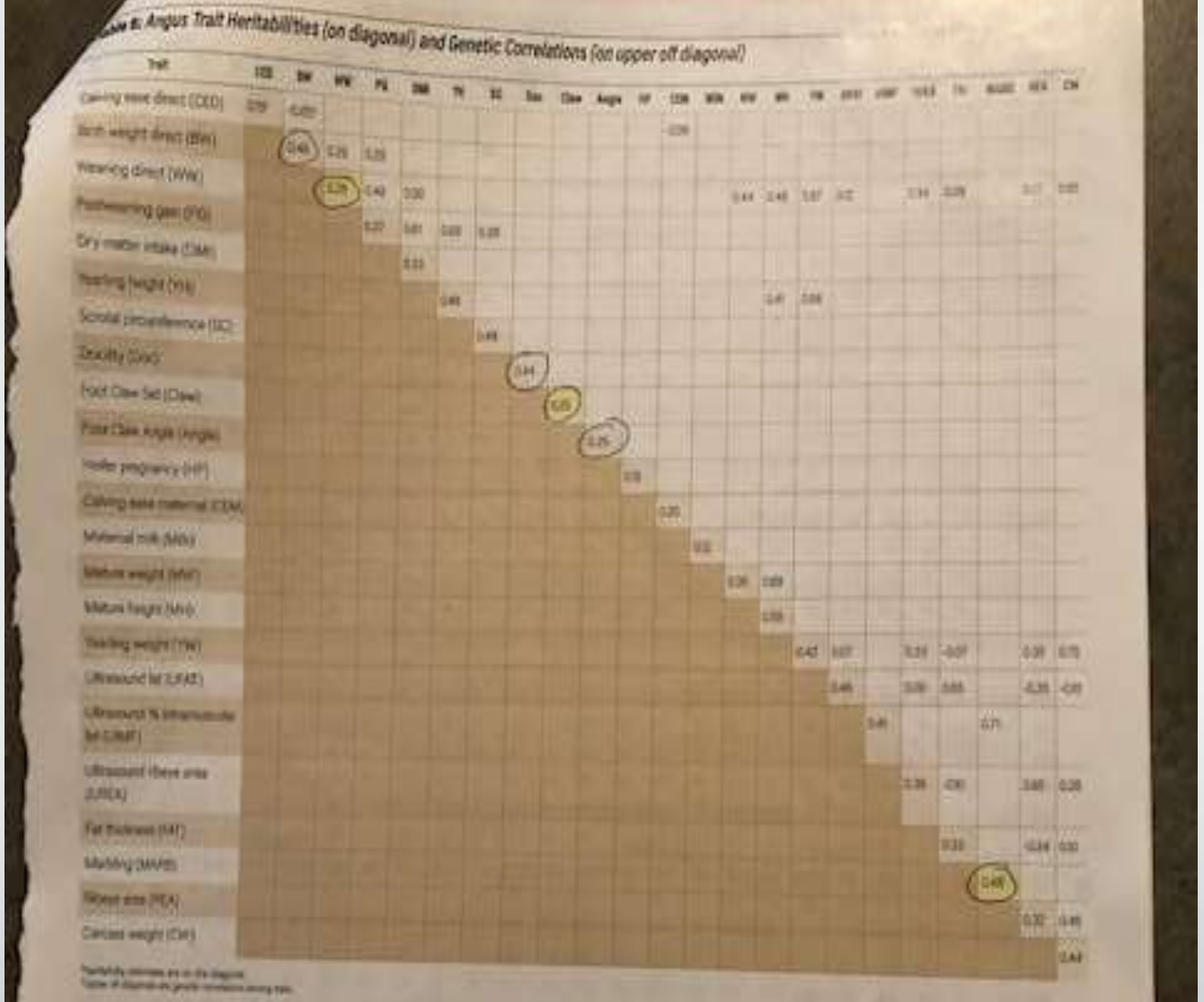
SSGBLUP or SINGLE STEP

EPDs

- **Birth Weight (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. Heritability 0.46
- **Weaning Weight (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. Heritability 0.28
- **Marbling (MARB),** expressed as a fraction of USDA marbling score, is a predictor of the difference in marbling of a sire's progeny compared to progeny of other sires. Heritability 0.48

- **Angus.org Feb 2020 issue Angus Journal; Spring 2020 Sire Evaluation Report**

Table B. Angus Trait Heritabilities (on diagonal) and Genetic Correlations (on upper off diagonal)



Note: Symbols are used with a registration number to denote important information about an animal. An "F" following the symbol for a genetic condition means the animal has tested free of the condition. A "C" following represents a carrier of the condition; an "A" represents an animal that is affected; and a "P" represents an animal that is a potential carrier by pedigree.

The status for a bull listed in this Spring 2020 Sire Evaluation Report represents the status of that animal as of Dec. 13, 2019.

Symbol	Meaning
#	Pathfinder sire or Pathfinder sire
+	Embryo transfer calf

Symbol	Meaning
DM	Double muscling

Symbol	Meaning
RTF	Produced 35 or more calves from

cross-Breed EPD Adjustment Factors

Table 1: *Adjustment factors to estimate across-breed EPDs*

Breed	BW	WW	YW	Milk	Marb[a]	RE	Fat	CW
Angus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hereford	1.0	-16.1	-44.0	-10.4	-0.32	0.06	-0.075	-67.3
Red Angus	2.5	-19.5	-29.8	2.7	-0.13	0.24	-0.049	-14.4
Shorthorn	4.2	-32.5	-44.0	2.9	-0.05	0.55	-0.025	7.2
South Devon	2.3	-27.0	-68.1	4.4	-0.38	0.40	-0.181	-72.5
Beefmaster	4.0	21.3	-3.8	9.5				
Brahman	9.7	49.8	10.8	18.8		0.01	-0.164	-36.6
Brangus	2.7	14.2	0.5	15.8				
Santa Gertrudis	4.9	37.5	34.9	20.8	-0.46	0.14	-0.091	-10.8
Braunvieh	1.9	-19.4	-42.4	4.8	-0.65	1.05	-0.107	-51.7
Charolais	6.2	29.6	24.7	8.7	-0.31	0.82	-0.200	8.8
Chiangus	2.5	-21.0	-36.0	4.2	-0.47	0.57	-0.140	-17.8
Gelbvieh	3.3	-11.6	-19.6	12.4	-0.52	0.92	-0.102	-5.3
Limousin	2.2	-17.2	-48.6	-2.1	0.01	0.65	-0.021	-3.1
Maine-Anjou	1.6	-30.0	-63.1	-4.3	-0.46	1.02	-0.184	-32.9
Salers	0.6	-9.9	-41.8	7.1	0.09	1.16	-0.179	-43.0
Simmental	2.5	-13.0	-18.7	1.7	-0.08	0.48	-0.049	-5.4
Tarentaise	2.5	19.1	-15.8	22.4				

[a]Marbling score units: 4.00 = Sl00; 5.00 = Sm00

Source: U.S. Meat Animal Research Center

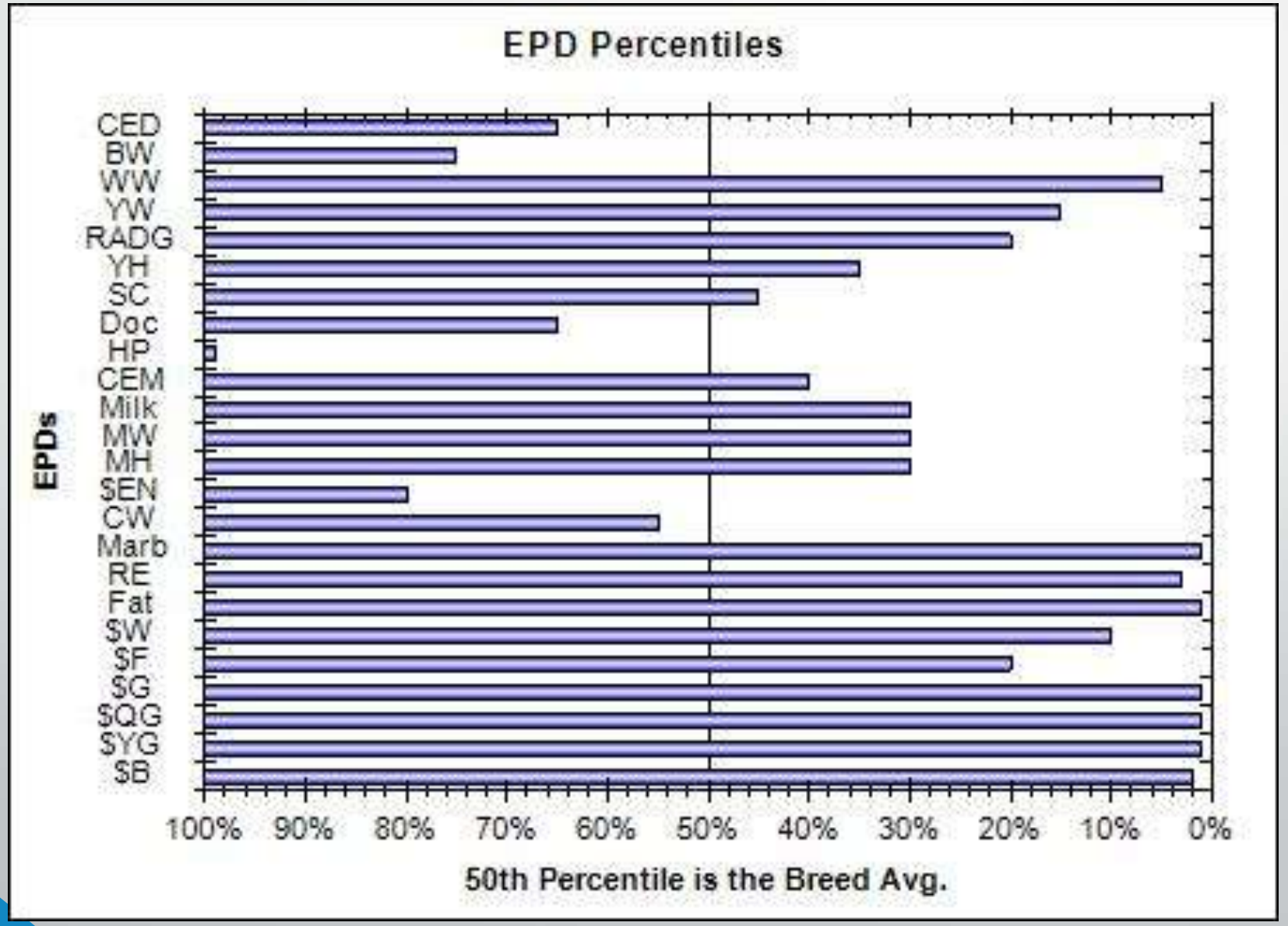
Table 2: *Example of using across-breed adjustment factors to convert noncomparable within-breed EPDs to comparable across-breed EPDs*

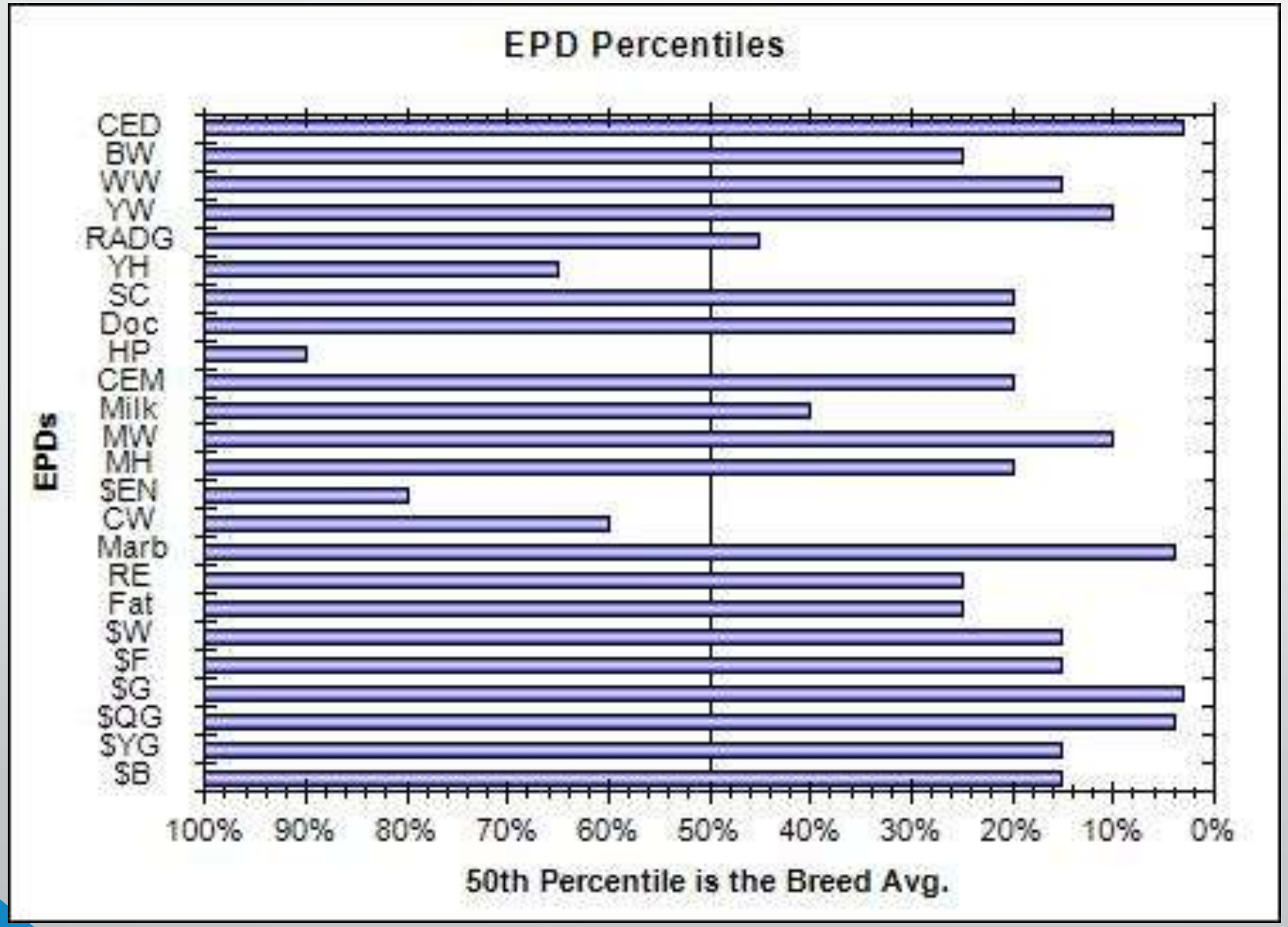
		BW	WW	YW	Milk
Angus	AB adj. factors[1]:	0.0	0.0	0.0	0.0
Bull #001	EPD[2]:	2.8	56	83	20
	AB-EPD[3]:	2.8	56	83	20
Simmental	AB adj. factors[1]:	2.5	-13.0	-18.7	1.7
Bull #002	EPD[2]:	1.8	68	101	22
	AB-EPD[3]:	4.3	55	82	24

[1]AB adj. factors are the across-breed adjustment factors from Table 1.

[2]EPDs are the within-breed EPD values from the breed's genetic evaluation for the bull of interest.

[3]Across-breed EPDs after adjustment factors are applied to within-breed EPDs.


EPD Percentiles
EPDs
CED
BW
WW
YW
RADG
YH
SC
Doc
HP
CEM
Milk
MW
MH
$EN
CW
Marb
RE
Fat
$W
$F
$G
$QG
$YG
$B
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
50th Percentile is the Breed Avg.


EPD Percentiles
EPDs
CED
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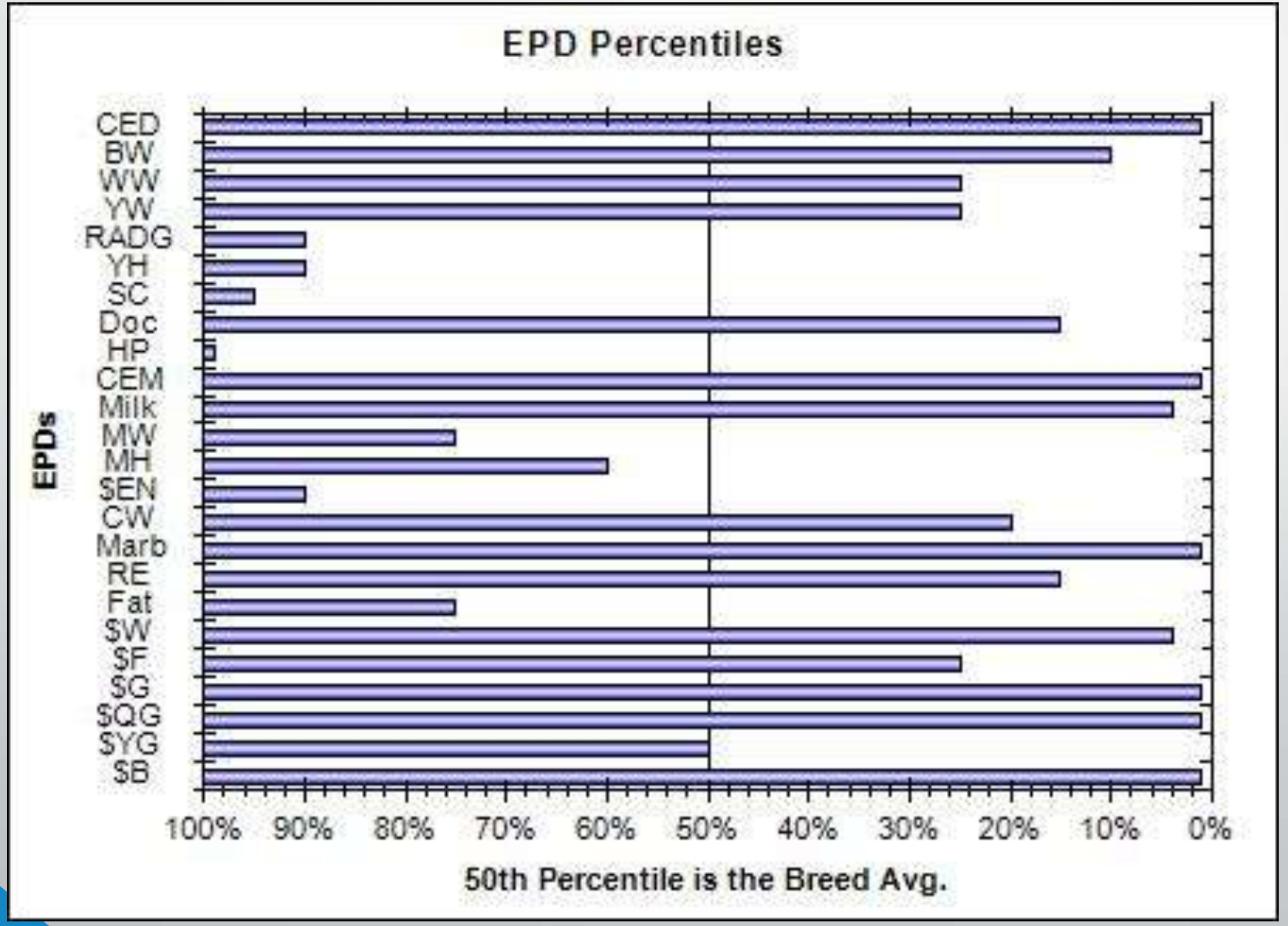
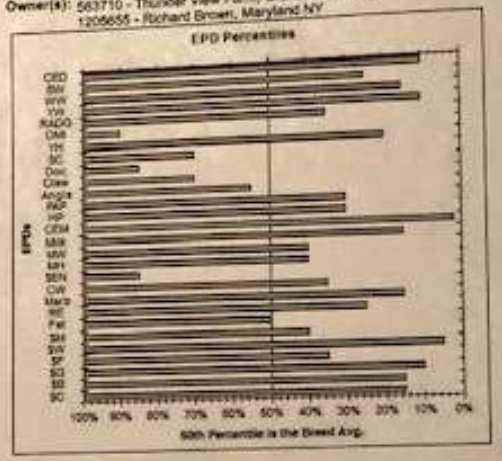
YW
RADG
YH
SC
Doc
HP
CEM
Milk
MW
MH
$EN
CW
Marb
RE
Fat
$W
$F
$G
$QG
$YG
$B
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
50th Percentile is the Breed Avg.


EPD Percentiles
EPDs
CED
BW
WW
YW
RADG
YH
SC
Doc
HP
CEM
Milk
MW
MH
SEN
CW
Marb
RE
Fat
$W
$F
$G
$QG
$YG
$B
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
50th Percentile is the Breed Avg.

AMERICAN ANGUS ASSOCIATION - THE BUSINESS BREED

Equity 386 Duchess Autumn B **Reg: AAA *18543301** **Cow**

Sire: SydGen Blacksmith 4010 AAA *17871732 [RDF] Dam: Equity 180 Duchess Autumn Ob AAA *16748645
Birth Date: 06/18/2016 **Tattoo:** 386
Parentage: SNP Ancestry: SNP
Parents Qualified
Breeder: 1205655 - Richard Brown, Maryland NY
Owner(s): 563710 - Thunder View Farm, Grahamsville NY
1205655 - Richard Brown, Maryland NY



As of 12/17/2020

Production								Maternal							
CED Acc % Prog	BW Acc % Prog	WW Acc % Prog	YW Acc % Prog	RADG Acc % Prog	DMI Acc % Prog	YH Acc % Prog	SC Acc % Prog	HP Acc % Dau	CEM Acc % Dau	Milk Acc %	MkH MkD	MW Acc % Prog	MH Acc % Prog	$EN %
+12 .33 10%	+.1 .48 25%	+70 .41 15%	+129 .36 10%	+.25 .29 35%	+1.63 .29 90%	+.8 .43 20%	+.46 .39 70%	+12.8 .22 30%	+15 .29 2%	+30 .30 15%		+68 .35 40%	+.5 .38 40%	-24 85%

Management			
Doc Acc % Prog	Claw Acc % Prog	Angle Acc % Prog	PAP Acc % Prog
+9 .34 85%	+.55 .23 70%	+.50 .21 55%	+.34 .21 30%

Carcass						$Values					
CW Acc %	Marb Acc %	RE Acc %	Fat Acc %	Carc Grp Prog	Uvid Grp Prog	$M %	$W %	$F %	$G %	$B %	$C %
+49 .40 35%	+.98 .36 15%	+.77 .36 15%	+.008 .32 50%			+63 40%	+80 5%	+87 35%	+70 10%	+157 15%	+267 15%

EXECUTIVE SIRES

EWA ASCEND 7306

Breed: Angus | Birth Date: 09-26-2017 | +*19054050 | Tattoo: 7306

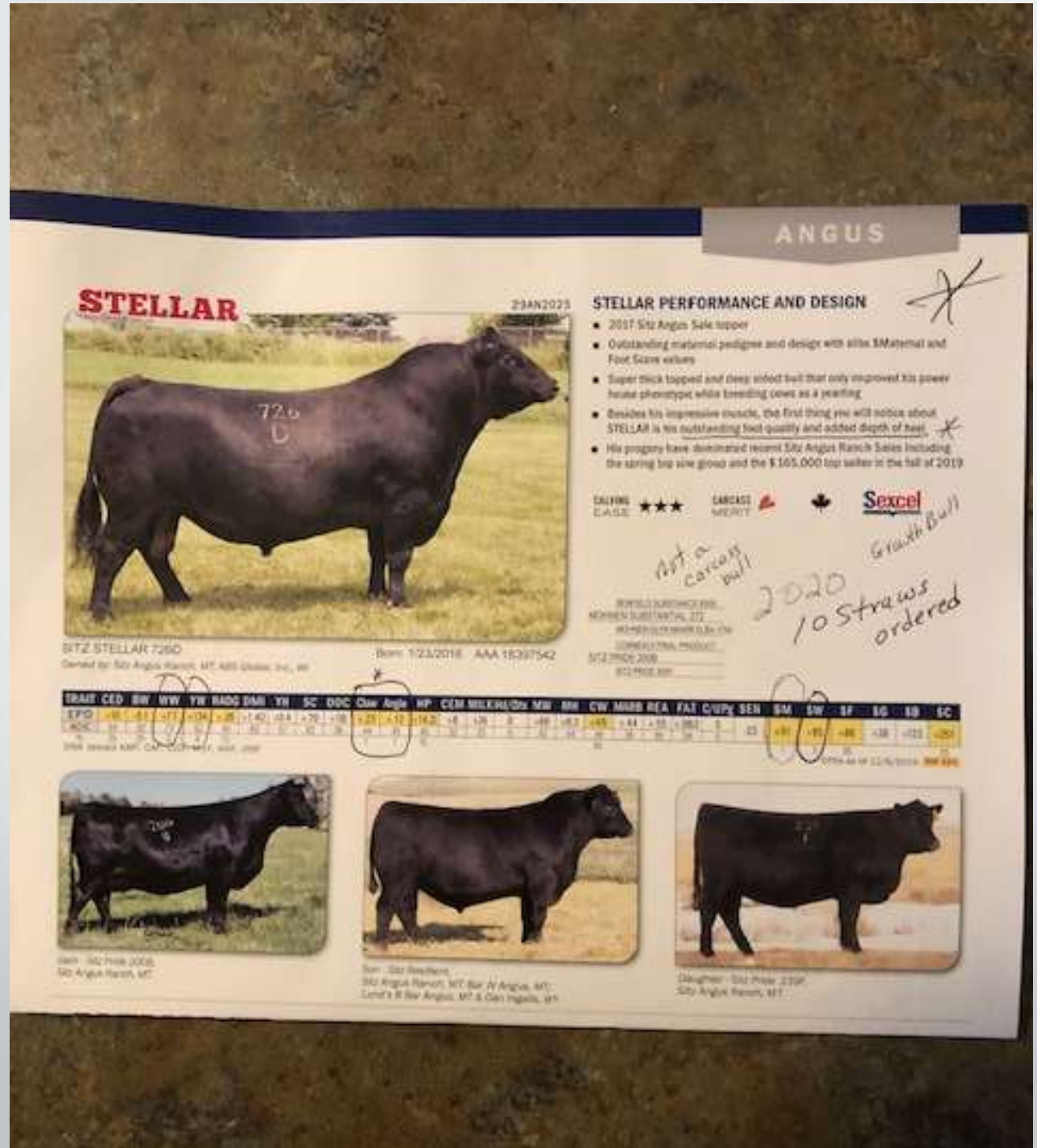
Sire: *GAR Momentum | Dam: +*EWA 3128 of 9067 Weigh Up

Trait	CED	BW	WW	YW	SC	DOC	MK	CW	MARB	RE	Adj. BW 72	Adj. WW 752	Adj. YW 1218
EPD	+11	+2.8	+98	+169	+.75		+23	+93	+1.28	+.98		+226	
%	35%	85%	7%	7%	69%		69%	7%	7%	7%	7%	7%	7%

Breeder: **Edgewood Angus LLC - Virginia** | Owner: **Executive Sires, Inc & The Ascend Group**

- **Ascend continues to live up to the hype! Sires a $200,000 valued heifer calf in first calf crop, EXEC Ms Rita 9A15!**
- The first calves have arrived all around the nation and breeders love their added phenotype and extraordinary EPD figures. They have lived up to expectations thus far, offering calving ease, explosive growth and their genomic profiles have been next level!
- Used successfully on heifers and boasts a perfect calving ease score as well.
- Ascend is an extremely unique performance Angus sire that has added look, extension and structural integrity with a remarkable EPD profile!
- Ascend's dam sold privately for $100,000 to the very progressive De-Su Angus program in Iowa.
- Ascend offers a special package of phenotype, EPDs, stellar genomic profile and tremendous fertility!
- Ascend has frozen high-quality semen since 11 months of age and continues to be a big volume semen producer.
- Ascend is a must use sire! The perfect outcross performance giant for Ten X, Rampage, Acclaim, Black Magic, Resource, Jet Black, Enhance, Payweight and a h[illegible] of other sires' daughters.
- **Number 2 Proven Sire in the Entire Angus Population for $Beef!**


ANGUS
Rainfall
FIREBALL
GB FIREBALL 672
Born: 10/20/2016
10 straws ordered
year-2020
+ 10 ordered on 4/6/2020
Total 20 straws
SURE FIRE WINNER
■ Sure fire calving ease and carcass quality with added performance
■ Double digit Calving Ease EPD with top 10% growth for a big time curve bender spread
■ Offers a combination of Marbling and Rib Eye Area EPDs that is unmatched by any other active sire in the Angus breed today
■ Offers significant sire line advantages for foot quality, muscle and $Beef
■ His +346 $Combined index puts him among the top active multi-trait sires in the breed today
CED BW WW YW DOC HP CEM MARB REA FAT SEN SC
EPD
SPRING 2020 | 21


ANGUS
STELLAR
23AN2025
STELLAR PERFORMANCE AND DESIGN
2017 Sitz Angus Sale topper
Outstanding maternal pedigree and design with elite $Maternal and Foot Score values
Super thick topped and deep sided bull that only improved his power house phenotype while breeding cows as a yearling
Besides his impressive muscle, the first thing you will notice about STELLAR is his outstanding foot quality and added depth of heel
His progeny have dominated recent Sitz Angus Ranch Sales including the spring top sire group and the $165,000 top seller in the fall of 2019
CALVING EASE
CARCASS MERIT
Sexcel
Not a carcass bull
Growth Bull
2020
10 Straws ordered
SITZ STELLAR 726D
Born: 1/23/2018 AAA 18397542
TRAIT CED BW WW YW RADG DMI YH SC DOC Dav Angle HP CEM MILK/Milk MW MH CW MARB REA FAT CUPV SEN $M $W $F $G $B $C
EPD
ACC

– PROGRESS YEAR AFTER YEAR –

EQUITY ANGUS

Equity Angus Calf Crop *AVERAGE EPDs*	CED	BW	WW	YW	SCR	DOC	MILK	MARB	REA	FAT	$B
2008	6.7	0.9	36.1	62.4	0.30	4.1	19.0	0.38	0.12	-0.001	61.37
2009	10.5	-0.1	44.2	78.5		11.5	21.5	0.60	0.15	0.016	78.48
2010	10.6	0.8	48.0	83.8	0.76	8.3	21.4	0.60	0.35	0.006	81.16
2011	7.3	1.1	45.0	77.1			22.7	0.61	0.30	0.020	73.56
2012	7.3	0.9	46.3	79.6	0.66	9.0	19.4	0.50	0.26	0.007	76.46
2013	7.6	1.2	49.0	84.0	0.42	5.0	21.5	0.74	0.28	-0.002	88.64
2014	7.1	1.3	50.6	86.4	0.49	15.0	24.9	0.87	0.45	-0.010	94.60
2015	6.9	1.5	53.0	87.1	0.58	13.0	25.2	0.88	0.48	-0.007	96.20
Predicted 2016	7.0	1.5	55.4	88.3	0.61	16.0	25.4	0.91	0.49	-0.009	98.10

Rich Brown • (315) 406—5335
equityangus@gmail.com • www.equityangus.com
Port Byron, NY

Cattle for the Future Today!

New Animal Set	Reg. No. / Name	Birth Date	Sex	Tag / Tatt	Dam Reg. No. / Dam Name	Sire Reg. No. / Sire Name	CED	BW	WW	YW	RADG	DMI	YH	SC	Doc	HP	CEM	Milk	MW	MH	$EN	CW	Marb	RE	Fat
☐	AAA 18680003 [DDF-OSF] Equity 455 Duchess Excess	07/14/2015	C	455 455	AAA 17843720 Equity 34 Duchess Elise	AAA 17861130 Equity 383 Excess	+12 .26	-.1 .30	+35 .21	+67 .27	+.17 .32	-.05 .32	+.5 .32	-.36 .36	+16 .24	+2.9 .22	+11 .08	+26 .14	+49 .33	+.4 .16	-3.47	+20 .18	+1.86 .29	+.45 .24	+.055 .28
☐	AAA 17843720 [DDC] Equity 34 Duchess Elise	01/09/2014	C	34 34	AAA 16270655 Equity 39 Duchess Bell NCC1	AAA 16290873 G A R Progress	+15 .33	-.5 .36	+39 .28	+69 .31	+.16 .36	+.19 .36	+.2 .36	-.36 .39	+13 .29	+12.1 .27	+15 .16	+27 .22	+14 .38	+.2 .22	+.89	+17 .26	+1.46 .34	+.45 .31	+.029 .34
☐	AAA 17533320 [DDF] Equity 73 Noelle Avia	02/15/2013	C	73 73	AAA 16270656 Equity 59 Noelle Evangline	AAA 16290873 G A R Progress	+16 .38	-.2 .43	+37 .32	+69 .32	+.19 .36	+.15 .36	+.1 .36	-.15 .39	+14 .29	-1.0 .27	+15 .16	+28 .24	+47 .38	+.4 .22	-6.03	+15 .26	+1.35 .34	+.53 .31	+.005 .34
☐	AAA 18322356 Equity 425 Noelle Rilee 93	06/01/2015	C	425 425	AAA 17533320 Equity 73 Noelle Avia	AAA 17533324 Equity 93 Dealer Progress	+12 .28	+.6 .32	+36 .23	+69 .26	+.21 .31	-.07 .31	+.2 .31	-.33 .35	+16 .24	+2.2 .23	+12 .08	+28 .14	+45 .32	+.4 .15	-5.79	+17 .18	+1.35 .29	+.58 .24	+.033 .29
☐	AAA 18325529 Equity 315 Ayaka Crish Pat	04/22/2015	C	315 315	AAA 16600584 Equity 110 Ayaka Gene NW	AAA 15676975 SQ Patriot 103R	+7 .27	+1.9 .34	+47 .25	+82 .20							+11 .13	+21 .17	I+30 .05	I+.5 .05	+.64	+35 .15	+1.16 .17	+.59 .21	+.001 .18
☐	AAA 18543301 Equity 386 Duchess Autumn B	05/18/2016	C	386 386	AAA 16748645 Equity 180 Duchess Autumn Ob	AAA 17871732 SydGen Blacksmith 4010	+14 .28	+.5 .33	+57 .24	+109 .28	+.29 .32	+.15 .32	+.9 .34	+.82 .38	+21 .26	+12.9 .23	+14 .07	+28 .13	+50 .33	+.5 .16	-15.36	+43 .18	+1.15 .29	+.79 .25	+0 .29
☐	AAA 18091558 [AMF] Equity15 Ayaka Sue Patriot	01/28/2015	C	15 15	AAA 16872659 Equity 141 Gene 187 Ayaka 99	AAA 15676975 SQ Patriot 103R	+9 .25	-.2 .33	+48 .25	+80 .16							+12 .11	+19 .16	I+16 .05	I+.4 .05	+5.28	+28 .13	+1.12 .15	+.60 .19	+.011 .16
☐	AAA 18741891 Equity 47 Ayaka Ecco TS	03/01/2017	C	47 47	AAA 18091558 Equity15 Ayaka Sue Patriot	AAA 17633563 S A V Ten Speed 3022	I+7 .05	I+.4 .05	I+57 .05	I+100 .05							I+11 .05	I+28 .05			-18.57	I+44 .05	I+1.06 .05	I+.77 .05	I-.048 .05
☐	AAA 18080992 Equity 45 Forever Lady Q181	02/15/2015	C	45 45	AAA 17143103 Equity 201 Forever Lady Q181	AAA 16645185 44 Conveyance 0X52	+6 .26	+.1 .35	+52 .27	+91 .21							+9 .13	+32 .18			-20.13	+49 .16	+1.01 .18	+.89 .23	+.026 .19
☐	AAA 18324514 Equity 325 Forever Lady Cogi	04/26/2015	C	325 325	AAA 16491204 COGI Forever Lady 903	AAA 16645185 44 Conveyance 0X52	I+5 .05	I+1.1 .05	I+53 .05	I+92 .05							I+11 .05	I+34 .05			-23.47	+48 .15	+.99 .18	+.47 .22	-.014 .18
☐	AAA 18322355 Equity 405 Noelle Diane 93	05/21/2015	C	405 405	AAA 16848133 Equity 51 Noelle Karrie 79	AAA 17533324 Equity 93 Dealer Progress	+9 .18	+1.6 .30	+42 .19	+74 .08							+10 .07	+27 .11	I+18 .05	I+.2 .05	-2.28	I+20 .05	I+.97 .05	I+.39 .05	I+.009 .05
☐	AAA 17884772 [AMC-DDF] Equity 144 Ayaka Kim	02/13/2014	C	144 144	AAA 16426086 Equity 109 Ayaka Duke	AAA 15676975 SQ Patriot 103R	I+9 .05	I+.4 .05	I+43 .05	I+72 .05							I+12 .05	I+22 .05	I+16 .05	I+.3 .05	+6.15	I+21 .05	I+.96 .05	I+.50 .05	I-.022 .05
☐	AAA 16748645 Equity 180 Duchess Autumn Ob	11/11/2010	C	180 180	AAA 16270655 Equity 39 Duchess Bell NCC1	AAA 13776378 S S Objective T510 0T26	+10 .36	+1.7 .39	+50 .30	+90 .31	+.19 .40	+.38 .40	+.5 .37	+1.08 .40	+13 .30	+10.8 .28	+11 .19	+23 .25	+16 .40	+.2 .24	+1.83	+27 .27	+.91 .35	+.42 .33	-.015 .35
☐	AAA 18091533 Equity 135 Blackbird Sara P	03/15/2015	C	135 135	AAA 17629372 Equity 233 Blackbird Molly	AAA 15676975 SQ Patriot 103R	+5 .29	+1.3 .35	+50 .26	+83 .20							+9 .12	+18 .17			+2.53	+29 .14	+.91 .17	+.41 .21	-.024 .17
☐	AAA 18091559 Equity 175 Harmony Eve P	03/19/2015	C	175 175	AAA 16577871 Equity 40 Roxy Harmony Pic	AAA 15676975 SQ Patriot 103R	+6 .26	+.8 .35	+39 .26	+66 .19							+9 .12	+19 .17	I+15 .05	I+.3 .05	+9.89	+21 .14	+.91 .17	+.51 .20	-.028 .17
☐	AAA 18741892 Equity 57 Forever Lady Q181	03/03/2017	C	57 57	AAA 18080992 Equity 45 Forever Lady Q181	AAA 15015255 NCC Midland N001	I+10 .05	I-.6 .05	I+44 .05	I+76 .05							I+11 .05	I+27 .05			-6.39	I+27 .05	I+.91 .05	I+.55 .05	I+.008 .05
☐	AAA 18383658 [AMC] Equity 265 Ayaka Gladys Conv	04/10/2015	C	265 265	AAA 17190616 Equity 171 Ayaka Rosie 79	AAA 16645185 44 Conveyance 0X52	+6 .23	+1.6 .33	+47 .25	+80 .17							+10 .12	+31 .16	I+15 .05	I+.2 .05	-11.06	+38 .13	+.90 .15	+.49 .20	-.036 .16


Udders, Feet and Legs
Fig. 1: Front Feet Claw Set
Fig. 2: Front feet angle and rear feet angle
Fig. 3: Rear legs, side view
Fig. 4: Rear legs, hind view
Fig. 3: Beef Improvement Federation teat size and conformation scoring system


Shanahan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How do I decide the correct Bull for each Cow?
(Know your Cows) "Recommendations"

- Determine the number of cow groups in your herd. (1-4)
- Use _____ on cows that are feminine and sound but could use power and carcass traits.
- Use _____on cows that are balanced, moderate females that could use more maternal
- Use _____on cows that are big framed, have a lot of bone, or are very easy fleshing that could use more carcass traits, feed efficiency, and size moderation.
- Use _____ on cows that need claw and pastern improvement.
- **My cell phone number 315-406-5335**


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Luke 2:14 KJV
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TAKE AWAYS

- Know Why You Want to Improve Herd Genetics
- Know What Your Customers Want to Buy
- Know Your Environment and the Breed Best Suited for You
- Develop a Plan to Improve Your Herd Over Time (Buy and/or Raise)
- Decisions made by using EPD's enhanced with Genomics
- Selections by evaluating Physical Characteristics of Animal
- Visit/Study Farms with Reputable Reputations and Observe Management

THANKS FOR YOUR ATTENTION