STgenetics®

SPRING 2020

BEEF ON DAIRY SPECIALIST CATALOG

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The Beef CYCLE

The journey of raising beef is among the most complex of any food. This is due in part to their evolving nutritional needs throughout their lifetime. Beef cattle often change ownership up to three or four times, as they develop from calf to final point of sale.

♂ Steers vs. Heifers ♀

70-80 lbs	**Cow/calf**	60-70 lbs
	POINT OF SALE	
500-700 lbs	**Backgrounder**	450-600 lbs
	POINT OF SALE	
900-1100 lbs	**Feeder**	700-900 lbs
	POINT OF SALE	
1250-1450 lbs	**Packer**	1200-1300 lbs

Source: ams.usda.gov/market-news/livestock-grain-poultry

The 4M™ difference

Dairy and Beef; the new face of modern dairy

HOLSTEIN FEMALE

Breed the top tier of your herd with Holstein female 4M

- Heifer inventory management with selection intensity
- Better resource utilization
- Rapid genetic improvement

BEEF MALE

Breed the baseline of your herd with Beef male 4M

- Crossbred male calves have higher earnings
- Easier management-calving ease, shorter gestation length, heterosis, vigor and quality
- 4M Male Beef Sires chosen specifically with dairy in mind

What Breed to use for Beef on DAIRY?

WHY CHAROLAIS?

Positives

- Adds the most ribeye and muscle of any breed – great option for Jersey
- Birthweight – good for selling day-old calves
- Rapid early growth – good for selling at weaning

Considerations

- Calving ease can be reduced with increased birthweight
- Calves won't be black
- Will not add marbling

WHY SIMANGUS?

Positives

- Breed complementarity
- Marbling of Angus with Ribeye of Simmental "Stouter" looking calves at birth – good for selling day olds and weaned calves
- Great option for Jersey
- Fertility advantage

Considerations

- Calving ease can be reduced in some cases

WHY ANGUS?

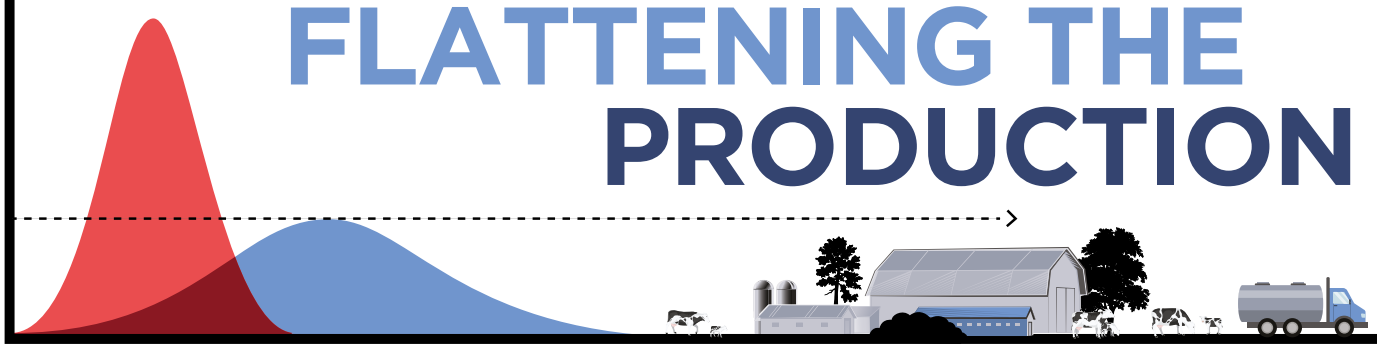
Positives

- Calving ease
- Marbling, carcass quality
- Growth, big appetite
- Largest genetic database and the most widely available
- Checks the most boxes through the entire beef production chain

Considerations

- Small at birth, fine boned, can be rejected as day-olds
- Less "visual" muscle than other breeds
- Carcass cutability/yield... fatten sooner/faster

FLATTENING THE PRODUCTION *Curve*



(source Valacta.com)

In this challenging time of Covid-19, dairy producers across global markets are asked, on short notice, to reduce milk production. It's not as simple as turning off a tap and this can be challenging.

HERE ARE A FEW PRACTICAL IDEAS AND CONCEPTS TO CONSIDER:

PRODUCTION PLANNING

- Have a good understanding of future calving's and milk requirements.
- Know the number of heifers that will enter the milking herd in the coming months.
- Know your animal inventory: number of cows in milk, number of dry cows and heifers.
- By knowing your animal inventory and health status you are able to make the proper culling decisions.
- Stagger shipments to auction and contact the transporter or auction before preparing for the cows to leave, to ensure they can be sold. (*According to the recommendations and options in your area as some abattoirs have been affected by Covid-19.)

GENETIC PLANNING

- Look at your genetic inventory and use beef on dairy on your bottom line while using 4M™ on your higher end to increase your genetic advancement.
- When making breeding decisions, prioritize solids and components to manage future production.
- Save on future Vet costs by selecting for superior Calving Ease Sires.

DRY OFF COWS EARLY

- Quickly dry off any cows that are producing very little milk (less than 40 lbs).
- If you must dry off cows with higher production:
  - decrease protein supply.
  - consider decrease milking frequency for 5-7 days (ie. milk once per day).
  - move the cow to another location.
  - **DO NOT** cut down on water.
  - be sure not to supply too much energy during the far-off period.

FEED WHOLE MILK TO CALVES

- It is important to ensure that the composition (components and SCC) and temperature are consistent.
- Bulk tank milk is preferable and avoid using sick cow milk (ex. Mastitis, Johne's, Leukosis).
- Any whole milk being used to feed calves should follow proper pasteurization cycles before being fed.
- **For newborns:** use whole milk following colostrum and transition milk.
- **For calves that are already being fed with milk replacer:** feed a half-and-half mixture with whole milk for 4-5 days before moving to 100% whole milk.
- Wean calves later: follow your milk-feeding plan, and then continue with 6L/day for the third month.
- Keep your crossbred beef calves longer to increase calf whole milk consumption.
- Keep your crossbred beef calves and feed them whole milk for increased revenues when selling.

REVIEW THE PERTINENCE OF ANY FEED ADDITIVES BEING USED TO INCREASE MILK OR COMPONENTS

HERDS WITH 3 MILKINGS/DAY - DECREASE MILKING FREQUENCY TO 2X

- For cows in mid to end of lactation.
- For the whole herd: lengthen the milking interval gradually over several days.

REVIEW FEEDING FOR LATER STAGE GROUPS, COWS WITH 150-200 DAYS IN MILK OR MORE

- Review the pertinence of additives used to increase milk or components.
- Reduce the protein supply.

ON FARM SAFETY

- Take precautions to keep yourself and farm employees safe throughout the COVID-19 outbreak.
- Implement CDC Protocols into everyday safety expectations on the farm.
- Encourage hand washing, distance while working, and clean and disinfect surfaces more frequently.
- Limit the amount of traffic in and out of your farm to the best of your ability.

CONSULT YOUR STGENETICS® REPRESENTATIVE

- Your STgenetics® Representatives are available to help advise you through these uncertain times that COVID-19 has brought to our industry.
- In an effort to keep our staff, family and customers safe and healthy we have utilized our Dairy Call Center more than ever to place orders, share the newest information, answer your questions about our programs, assist with genomic or mating decisions and can provide expert support to meet your dairy's needs.
  Please call 1-844-828-7849 or email dairy@stgen.com

Beef on DAIRY

WITH STgenetics®

MALE BEEF

Take control of your female population and breed 4M™ Male Beef on the baseline of your herd

- **Crossbred male calves** have higher earnings
- Easier management-calving ease, shorter gestation length, heterosis, vigor and quality
- 4M™ Male Beef Sires chosen specifically with dairy in mind

BEEF SIRES AVAILABLE IN 4M™ SEMEN

	CODE	NAME	4M™ FEMALE	4M™ MALE	TOP DOLLAR ANGUS	CED	BW	WW	YW	YH	CW	MARB	RE	FAT	$B	$C
ANGUS	551AN01612	DEER VALLEY **WEIGH MORE** 83101		✓	✓	13.0	0.5	77	144	0.9	57	1.36	0.89	-0.001	197	316
	551AN01609	SPRING GROVE **EL DORADO**		✓	✓	7.0	2.4	97	174	1.2	75	0.97	1.03	-0.033	191	309
	551AN01518	G A R **SUNBEAM**	✓	✓	✓	11.0	1.3	73	130	0.8	60	1.17	1.06	-0.027	190	321
	551AN01474	G A R **STORM**	✓	✓	✓	16.0	-1.1	77	134	0.9	58	1.03	0.96	-0.008	186	284
	151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✓	✓	✓	3.0	3.1	78	137	0.9	60	0.81	0.88	-0.014	177	272
	551AN01477	QHF WWA **BLACK ONYX** 5Q11	✓	✓	✓	11.0	-1.0	79	143	0.8	73	0.44	0.89	-0.007	175	291
	203AN01411	S A V **CATTLEMASTER** 4873	✓	✓	✓	9.0	2.6	76	133	1.1	58	0.97	1.17	0.006	171	289
	151AN01418	QUAKER HILL **CHIEFTAIN**	✓	✓	✓	3.0	2.4	73	121	0.3	54	0.82	0.79	0.005	164	262
	551AN01507	BOBCAT **BLUE SKY**	✓	✓	✓	5.0	3.4	80	139	0.5	64	0.81	0.68	0.036	168	289
	551AN01575	MCCABE MYCC **CASCADE**	✓	✓	✓	12.0	-1.4	70	135	0.4	59	0.67	0.98	0.027	158	249
	551AN01520	SYDGEN **RESOLVE** 7132		✓	✓	13.0	0.0	58	114	0.8	45	1.03	1.19	-0.009	165	291
	203AN01447	MGR **TREASURE**		✓	✓	12.0	-1.2	69	133	0.3	42	1.19	0.52	0.010	153	256

	CODE	NAME	4M™ FEMALE	4M™ MALE	TOP DOLLAR ANGUS	CE	BW	WW	YW	CW	YG	MARB	BF	REA	SHEAR	TI
SIMMENTAL/SIMANGUS	203SM00169	BHR **BANTU** J567E		✓		4.1	4.1	44.6	66.3	30.7	-0.53	-0.11	-0.144	0.81	-0.05	49.7
	203SM09000	TUEL **EFFECTIVE** A3055	✓	✓		16.4	-1.5	63.8	101.7	30.6	-0.21	0.49	-0.038	0.64	-0.35	78.3
	203SM09001	CLRS **CONQUEST** 634 C		✓	✓	15.5	-1.3	68.6	106.7	43.2	-0.06	0.46	-0.015	0.52	-0.42	78.4
	551SM09013	TJ **NORTHWARD** 573C	✓	✓		2.6	5.4	88.6	135.6	53.1	-0.36	0.28	-0.079	1.08	-0.48	78.2
	551SM09016	GW **COMPASS** 371C	✓	✓		14.7	2.0	84.1	133.8	23.4	-0.32	0.47	-0.044	0.83	-0.64	85.5
	551SM09017	GW **FREEDOM** 392C		✓		6.4	2.9	75.1	124.0	36.4	-0.28	0.49	-0.064	0.71	-0.55	79.5
	551SM09018	BRINK **APOLLO** D673	✓	✓		0.0	5.2	77.9	107.6	24.5	-0.68	0.02	-0.172	0.97	-	70.3
	551SM09037	RRR MR **REMEDY** 13F		✓	✓	10.0	-0.1	70.6	113.5	53.6	-0.26	0.39	-0.057	0.92	-0.39	76.9
	551SM09038	RRR MR **COMRADE** 27F		✓	✓	16.5	0.3	75.4	121.5	43.2	-0.17	0.48	-0.020	0.82	-0.29	82.1
	551SM09039	CCR **CAMPFIRE** 3399E		✓		13.1	1.1	84.1	120.8	44.6	-0.41	0.39	-0.083	1.07	-0.48	88.3

OTHER BREEDS	CODE	NAME	4M™ FEMALE	4M™ MALE	CED	BW	WW	YW	CW	MARB	RE	Fat
BRAUNVIEH	203BU01501	MR HLJ **PRIMETIME** B406	✓	✓	7	-0.6	40	66	24	0.88	0.3	-0.093
CHAROLAIS	551CH01505	WC **MILESTONE** 5223 P		✓	1	2.3	38	75	25	0.08	1.0	-0.016
CHAROLAIS	551CH01506	CCC WC **RESOURCE** 417 P		✓	4	-0.3	43	58	29	0.23	1.0	0.038
HORNED HEREFORD	551HH01700	JCS 240 **FLINTLOCK** 5815		✓	-5	3.1	62	105	63	0.20	0.3	-0.006
LIMOUSIN	203LM01400	CHR **ACE VENTURA** 129A	✓	✓	22	-5.3	55	95	8	0.07	0.8	-0.01

	CODE	NAME	4M™ FEMALE	4M™ MALE
WAGYU	203KB01327	VBV ROA **RED GALAXY**	✓	✓
	203KB01602	ST **PATTON** (ET) 421/3	✓	✓
	551KB01611	CHR **MICHIYOSHI** II	✓	✓
	551KB01612	MS LORD OF THE **RINGS** 545F-ET	✓	✓

Expected Progeny Difference (EPD), is the prediction of how future progeny are expected to perform. EPDs are expressed in units of measure for the trait, plus or minus. The EPDs listed above are provided by the breed association as of 5/7/2020. EPDs are expected to change every week.

STgenetics® Beef is excited to announce our partnership with Top Dollar Angus.
Top Dollar Angus (TDA) is the first and only certification program for commercial feeder cattle focused exclusively on Angus and Red Angus-based cattle with Top 20% growth and carcass traits. TDA strives to enhance the cattle buying process by providing value-based, genetic analytics that strongly correlate to risk reduction. The precision added by genetics verification helps fine tune profitability estimates, creating opportunities to seek out more valuable cattle.

Calving Ease & Low Birth Weight

Calving Ease EPDs:

- Are reported as the difference in **percentage of unassisted births** when a bull is mated to a heifer for her first calf.
- **Higher number is more favorable calving ease.**

Birth weight EPDs:

- Are reported in **pounds of calf at birth**. If genetics and environment are similar, bull calves will be heavier at birth than heifer calves.
- Birth weight is inversely correlated to calving ease. This means as one goes up, the other generally goes down. **Lower value is more favorable for calving ease**.

STgenetics® Recommendations:

If calving difficulty is a concern with crossbred beef calves on a dairy, consider selecting sires that have **higher calving ease and lower birth weight EPDs**. We recommend these types of bulls for use in heifers and any dairy experiencing calving difficulty in cows.

Angus CED EPD +6 or higher • Angus BW EPD +1.5 or lower SimAngus - not recommended

LOW BIRTH WEIGHT ANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CED	CED%	BW	BW %	WW	YW	YH
551AN01474	G A R **STORM**	✔	✔	✔	**16**	**2%**	**-1.1**	**10%**	77	134	0.9
551AN01596	VAR **STURDY**			✔	**14**	**4%**	**-0.6**	**15%**	70	134	0.6
551AN01575	MCCABE MYCC **CASCADE**	✔	✔	✔	**12**	**10%**	**-1.4**	**10%**	70	135	0.4
203AN01447	MGR **TREASURE**		✔	✔	**12**	**15%**	**-1.2**	**10%**	69	133	0.3
551AN01494	HF **LONG SHOT** 71D		✔	✔	**12**	**15%**	**-1.1**	**10%**	62	107	0.7
203AN01456	SITZ **DIVIDEND** 649C				**12**	**15%**	**-3.4**	**1%**	52	105	0.0
551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔	✔	**11**	**15%**	**-1.0**	**15%**	79	143	0.8
203AN01465	MUSGRAVE **APACHE**		✔	✔	**11**	**15%**	**-1.1**	**10%**	54	96	0.2
551AN01551	SCHROEDER **HIGH ROLLER**		✔	✔	**10**	**20%**	**-0.2**	**20%**	73	130	0.3

LOW BIRTH WEIGHT SIMMENTAL/SIMANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CE	CE%	BW	BW%	WW	YW
203SM09000	TUEL **EFFECTIVE** A3055	✔	✔		**16.4**	**10%**	**-1.5**	**15%**	63.8	101.7
551SM09031	CCR 707 **COWBOY** 6055B			✔	**15.9**	**10%**	**-0.6**	**25%**	75.1	109.6
203SM09001	CLRS **CONQUEST** 634 C		✔	✔	**15.5**	**15%**	**-1.3**	**20%**	68.6	106.7

LOW BIRTH WEIGHT SIRES IN OTHER BREEDS

OTHERS BREEDS	CODE	NAME	4M FEMALE	4M MALE	CE	CE%	BW	BW%	WW	YW
LIMOUSIN	203LM01400	CHR **ACE VENTURA** 129A	✔	✔	**22**	**1%**	**-5.5**	**1%**	55	95
BRAHMAN	551BR01906	MR **KALLION** 1352			**6.83**	**1%**	**-1.0**	**5%**	2	18
POLLED HEREFORD	551HP01611	PCR 3X **CHIEF** 507C			**10.6**	**5%**	**-1.9**	**5%**	58	89
BRAUNVIEH	203BU01501	MR HLJ **PRIMETIME** B406	✔	✔	**6.6**	**30%**	**-0.6**	**4%**	40	66

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The precision added by genetics verification helps fine tune profitability estimates, creating opportunities to seek out more valuable cattle.

BUSINESS, A WHOLE NEW WAY

DAIRY CALL CENTER

GETTING HELP HAS NEVER BEEN SO EASY!

Our experienced Dairy Team processes direct sales orders, answers your questions and provides expert support to meet your dairy's needs.

- **ORDER SEMEN**
- **GENOMIC TESTING & INFO**
- **MATING ASSISTANCE**
- **BEEF ON DAIRY**
- **LEGEND PROGRAM**

CALL TODAY

1-844-828-7849

dairy@stgen.com

Calving Ease + Positive Birth Weight

In some dairy operations it is desirable to have calves be as robust at birth as possible to appeal to calf buyer.

STGENETICS® RECOMMENDS:

- ✓ Angus sires with Birth Weight EPD of +2.0 or higher
- ✓ Any Simmental/SimAngus Sires

DID YOU KNOW? BIRTH WEIGHT TRAIT CONSISTS OF:

- ✓ Calf weight at birth adjusted to a mature dam equivalent.
- ✓ When comparing the birth weight EPDs of two sires, the larger EPD indicates a heavier average birth weight for calves sired by this bull.
- ✓ Expected progeny performance is reported in pounds.
- ✓ The EPD value predicts the difference in average birth weight of a bull's calves, compared to calves of all other bulls evaluated.

Other factors affect actual birthweight : Nutrition of dam during pregnancy • Region of country • Season of year

POSITIVE BIRTH WEIGHT ANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CED	CED%	BW	BW %	WW	YW	YH
551AN01612	DEER VALLEY **WEIGH MORE** 83101		✔	✔	**13**	**10%**	**0.5**	**35%**	77	144	0.9
551AN01520	SYDGEN **RESOLVE** 7132		✔	✔	**13**	**10%**	**0.0**	**25%**	58	114	0.8
551AN01568	TK **DRILLER**			✔	**12**	**10%**	**1.1**	**45%**	83	161	0.9
551AN01518	G A R **SUNBEAM**	✔	✔	✔	**11**	**15%**	**1.3**	**55%**	73	130	0.8
551AN01594	EXAR/SLC **ENHANCEMENT** 9006			✔	**9**	**30%**	**1.8**	**65%**	83	154	1.0
203AN01411	S A V **CATTLEMASTER** 4873	✔	✔	✔	**9**	**30%**	**2.6**	**80%**	76	133	1.1
551AN01609	SPRING GROVE **EL DORADO**		✔	✔	**7**	**45%**	**2.4**	**75%**	97	174	1.2

POSITIVE BIRTH WEIGHT SIMMENTAL/SIMANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CE	CE%	BW	BW%	WW	YM
551SM09038	RRR MR **COMRADE** 27F		✔	✔	**16.5**	**10%**	**0.3**	**45%**	75.4	121.5
551SM09016	GW **COMPASS** 371C	✔	✔		**14.7**	**20%**	**2.0**	**85%**	84.1	133.8
551SM09036	MAPLECREST **COWBOY UP**			✔	**14.4**	**20%**	**1.3**	**70%**	80.6	118.0
551SM09039	CCR **CAMPFIRE** 3399E		✔		**13.1**	**35%**	**1.1**	**65%**	84.1	120.8
551SM09043	CCR 3362 **YUMA** 1110F		✔	✔	**12.3**	**45%**	**0.6**	**55%**	65.7	100.4
551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	**11.9**	**50%**	**1.1**	**65%**	77.7	113.3

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Weaning WEIGHT

The **weaning weight** EPD predicts the difference, on average, in 205-day weight of one bull's progeny compared to progeny from another bull. This figure is reported in pounds, with a higher number being more desirable.

SIRES WHO HAVE A *higher* WEANING WEIGHT EPD *should*:

- PRODUCE CALVES THAT HOLD AN ADVANTAGE IN WEIGHT GAIN/PERFORMANCE FROM BIRTH TO WEANING
- PRODUCE CALVES THAT HOLD AN ADVANTAGE COMPARED TO CALVES OF OTHER SIRES WITHIN THE BREED
- OFFER THE MOST POTENTIAL VALUE TO PRODUCERS WHO MARKET THEIR CALVES AT WEANING AT SIX TO EIGHT MONTHS OF AGE

ANGUS

CODE	NAME	4M™ FEMALE	4M™ MALE		CED	BW	WW	WW%	YW	YH
551AN01609	SPRING GROVE **EL DORADO**		✔	✔	7	2.4	**97**	**1%**	174	1.2
551AN01578	FF RITO **REMARKABLE** 8M20			✔	-2	5.1	**93**	**1%**	176	1.4
551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	-5	4.6	**87**	**1%**	158	1.2
551AN01594	EXAR/SLC **ENHANCEMENT** 9006			✔	9	1.8	**83**	**1%**	154	1.0
551AN01568	TK **DRILLER**			✔	12	1.1	**83**	**1%**	161	0.9
551AN01507	BOBCAT **BLUE SKY**	✔	✔	✔	5	3.4	**80**	**3%**	139	0.5
551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔	✔	11	-1.0	**79**	**3%**	143	0.8
151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✔	✔	✔	3	3.1	**78**	**3%**	137	0.9
551AN01606	FHCC **EXTENT** 8566			✔	-1	4.9	**77**	**3%**	141	1.0
551AN01612	DEER VALLEY **WEIGH MORE** 83101		✔	✔	13	0.5	**77**	**3%**	144	0.9

SIMMENTAL/SIMANGUS

CODE	NAME	4M™ FEMALE	4M™ MALE		CED	BW	WW	WW%	YW
551SM09013	TJ **NORTHWARD** 573C	✔	✔		2.6	5.4	**88.6**	**1%**	135.6
551SM09016	GW **COMPASS** 371C	✔	✔		14.7	2.0	**84.1**	**3%**	133.8
551SM09039	CCR **CAMPFIRE** 3399E		✔		13.1	1.1	**84.1**	**3%**	120.8
551SM09036	MAPLECREST **COWBOY UP**			✔	14.4	1.3	**80.6**	**5%**	118.0
551SM09018	BRINK **APOLLO** D673	✔	✔		0.0	5.2	**77.9**	**10%**	107.6
551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	11.9	1.1	**77.7**	**10%**	113.3
551SM09038	RRR MR **COMRADE** 27F		✔	✔	16.5	0.3	**75.4**	**15%**	121.5
551SM09017	GW **FREEDOM** 392C		✔		6.4	2.9	**75.1**	**15%**	124.0
551SM09031	CCR 707 **COWBOY** 6055B			✔	15.9	-0.6	**75.1**	**15%**	109.6

OTHER BREEDS

OTHERS BREEDS	CODE	NAME	4M™ FEMALE	4M™ MALE	CED	BW	WW	WW%	YW
POLLED HEREFORD	551HP01611	PCR 3X **CHIEF** 507C			8.9	-2.6	**65**	**5%**	96
HORNED HEREFORD	551HH01700	JCS 240 **FLINTLOCK** 5815		✔	-5.2	3.1	**62**	**10%**	105
CHAROLAIS	551CH01506	CCC WC **RESOURCE** 417 P		✔	3.6	-0.3	**43**	**15%**	58

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The precision added by genetics verification helps fine tune profitability estimates, creating opportunities to seek out more valuable cattle.

STgenetics® PARTNERSHIP WITH Top Dollar Angus

- STgenetics® is a featured partner with Top Dollar Angus, which is the first and only certification program for commercial feeder cattle focused exclusively on Angus, SimAngus, and Red Angus-based cattle with top 25% growth and carcass traits.
- TheTop Dollar Angus (TDA) strives to enhance the cattle buying process by providing value-based, genetic analytics that strongly correlate to risk reduction.
- The precision that genetic verification adds helps fine tune profitability estimates, creating opportunities to seek out more valuable cattle. TDA has identified the STgenetics®sires, listed below, that meet required genetic specifications.

STgenetics® BEEF + Top Dollar Angus = A TRUE WIN-WIN!

"Success in the feedyard and packing plant requires feeder cattle that do three things well – stay healthy, grow fast and efficiently, and reach a high quality grade."
- Tom Brink, Top Dollar Angus founder

TOP DOLLAR ANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CW	CW%	MARB	MARB%	RE	RE%	FAT	FAT %	$B	$B %	$C	$C %
151AN01418	QUAKER HILL **CHIEFTAIN**	✔	✔		54	20%	0.82	20%	0.79	20%	0.005	45%	164	10%	262	15%
151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✔	✔		60	10%	0.81	20%	0.88	10%	-0.014	20%	177	4%	272	10%
203AN01411	S A V **CATTLEMASTER** 4873	✔	✔		58	10%	0.97	10%	1.17	1%	0.006	45%	171	10%	289	4%
203AN01447	MGR **TREASURE**		✔		42	40%	1.19	3%	0.52	50%	0.010	50%	153	20%	256	20%
203AN01465	MUSGRAVE **APACHE**		✔		43	40%	0.67	30%	0.66	30%	0.052	95%	122	60%	231	40%
551AN01474	G A R **STORM**	✔	✔		58	10%	1.03	10%	0.96	5%	-0.008	25%	186	3%	284	5%
551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔		73	1%	0.44	55%	0.89	10%	-0.007	25%	175	10%	291	4%
551AN01494	HF **LONG SHOT** 71D		✔		45	35%	0.80	20%	0.46	55%	0.056	95%	135	40%	219	50%
551AN01507	BOBCAT **BLUE SKY**	✔	✔		64	5%	0.81	20%	0.68	25%	0.036	85%	168	10%	289	4%
551AN01518	G A R **SUNBEAM**	✔	✔		60	10%	1.17	3%	1.06	2%	-0.027	10%	190	2%	321	1%
551AN01520	SYDGEN **RESOLVE** 7132		✔		45	35%	1.03	10%	1.19	1%	-0.009	25%	165	15%	291	4%
551AN01551	SCHROEDER **HIGH ROLLER**		✔		49	30%	0.78	25%	0.47	65%	0.012	55%	139	35%	232	40%
551AN01568	TK **DRILLER**				81	1%	0.85	20%	1.07	3%	0.005	45%	215	1%	340	1%
551AN01575	MCCABE MYCC **CASCADE**	✔	✔		59	10%	0.67	35%	0.98	5%	0.027	75%	158	15%	249	25%
551AN01578	FF RITO **REMARKABLE** 8M20				92	1%	1.03	10%	1.18	1%	-0.057	1%	256	1%	363	1%
551AN01594	EXAR/SLC **ENHANCEMENT** 9006				85	1%	1.10	5%	0.80	20%	0.037	85%	218	1%	330	1%
551AN01596	VAR **STURDY**				65	4%	1.06	10%	0.62	40%	-0.018	15%	184	2%	292	4%
551AN01605	FHCC **ENTHRALL** 8588				78	1%	0.79	20%	0.81	15%	0.002	40%	201	1%	293	3%
551AN01606	FHCC **EXTENT** 8566				68	3%	0.98	10%	0.94	10%	-0.022	15%	207	1%	323	1%
551AN01609	SPRING GROVE **EL DORADO**		✔		75	1%	0.97	10%	1.03	4%	-0.033	10%	191	1%	309	2%

TOP DOLLAR SIMMENTAL/SIMANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CW	CW%	YG	YG%	MARB	MARB%	BF	BF%	REA	REA%	TI	TI%
551SM09036	MAPLECREST **COWBOY UP**				49.0	3%	-0.11	90%	0.83	1%	-0.011	90%	0.77	25%	91.0	1%
551SM09035	MAPLECREST **RHINESTONE COWBOY**				51.5	2%	-0.16	75%	0.76	2%	-0.024	80%	0.86	15%	87.9	1%
551SM09038	RRR MR **COMRADE** 27F		✔		43.2	10%	-0.17	75%	0.48	20%	-0.02	90%	0.82	20%	82.1	5%
551SM09031	CCR 707 **COWBOY** 6055B				49.6	3%	-0.20	65%	0.47	20%	-0.033	65%	0.89	10%	82.8	4%
551SM09037	RRR MR **REMEDY** 13F		✔		53.6	1%	-0.26	45%	0.39	35%	-0.057	40%	0.92	10%	76.9	20%
203SM09001	CLRS **CONQUEST** 634 C		✔		43.2	10%	-0.06	95%	0.46	20%	-0.015	90%	0.52	75%	78.4	15%
551SM09043	CCR 3362 **YUMA** 1110F		✔		23.8	75%	-0.22	55%	0.64	5%	-0.022	80%	0.72	35%	79.6	10%

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ULTRAFertility™

When Conception Matters Most

Beef on Dairy designated ULTRAFertility™ sires also:

- Have a minimum of **500 INSEMINATIONS**
- Pregnancy check performed by **60 DAYS** post insemination
- Reliability exceeds **45%**
- Compared to the entire bull population, at over **300 HERDS**
- Verified on heifers and cows with 4M SEMEN

ULTRAFertility™ Sires are bulls who's conception rate is, at a minimum, 4% above the average of the entire breed population.

ULTRAFERTILITY ANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CED	BW	WW	YW	YH	CW	MARB	RE	FAT	$B	$C
151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✔	✔	✔	3	3.1	78	137	0.9	60	0.81	0.88	-0.014	177	272
551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔	✔	11	-1.0	79	143	0.8	73	0.44	0.89	-0.007	175	291
203AN01411	S A V **CATTLEMASTER** 4873	✔	✔	✔	9	2.6	76	133	1.1	58	0.97	1.17	0.006	171	289
551AN01551	SCHROEDER **HIGH ROLLER**	✔	✔	✔	10	-0.2	73	130	0.3	49	0.78	0.47	0.012	139	232

ULTRAFERTILITY SIMMENTAL/SIMANGUS SIRES

CODE	NAME	4M FEMALE	4M MALE		CE	BW	WW	YW	CW	YG	MARB	BF	REA	SHEAR	TI
203SM09001	CLRS **CONQUEST** 634 C		✔	✔	15.5	-1.3	68.6	106.7	43.2	-0.06	0.46	-0.015	0.52	-0.42	78.4
551SM09016	GW **COMPASS** 371C	✔	✔		14.7	2.0	84.1	133.8	23.4	-0.32	0.47	-0.044	0.83	-0.64	85.5

ULTRAFERTILITY LIMOUSIN SIRES

CODE	NAME	4M FEMALE	4M MALE	CED	BW	WW	YW	CW	MARB	RE	FAT
203LM01400	CHR **ACE VENTURA** 129A	✔	✔	22	-5.3	55	95	8	0.07	0.8	-0.01%

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ANGUS BEEF VALUE

$B Beef value ($B) facilitates multi-trait genetic selection for feedlot and carcass merit. $B is a terminal index representing the expected average dollar-per-carcass difference in the progeny postweaning performance and carcass value compared to progeny of other sires.

- Weaning & Yearling Weight
- Dry Matter Intake
- Carcass Weight
- Marbling
- Ribeye Area & Fat

Input prices and assumptions for the Angus $Beef formula:

FEEDLOT ASSUMPTIONS

Time on feed	170 Days
Ration cost	$240 per dry ton
Fed market	$131 per cwt. live

**Source: American Angus Association*

CARCASS ASSUMPTIONS

Quality Components

Prime premium (above Choice)	$15.00
CAB premium (above Choice)	$4.00
Choice-Select spread	$11.00
Standard discount	$-25.00

Yield Components

YG 1 premium	$3.50
YG 2 premium	$1.65
YG 3 base	$0.00
YG 4 & 5 discount	$-12.00
Avg. carcass wt., lb.	861
Heavyweight discount	$23.00

ANGUS EXAMPLE

Sire A $Beef = $190.00

Sire B $Beef = $150.00

$40.00

Calves from Sire A should be worth, on average **$40 per head more** than calves from Sire B for feedlot and carcass value.

ANGUS BEEF VALUE SIRES

CODE	NAME	4M FEMALE	4M MALE		CW	MARB	RE	FAT	$B	$B%	$C
551AN01578	FF RITO **REMARKABLE** 8M20			✔	92	1.03	1.18	-0.057	**256**	**1%**	363
551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	84	1.09	1.37	-0.081	**233**	**1%**	321
551AN01594	EXAR/SLC **ENHANCEMENT** 9006			✔	85	1.10	0.80	0.037	**218**	**1%**	330
551AN01568	TK **DRILLER**			✔	81	0.85	1.07	0.005	**215**	**1%**	340
551AN01606	FHCC **EXTENT** 8566			✔	68	0.98	0.94	-0.022	**207**	**1%**	323
551AN01605	FHCC **ENTHRALL** 8588			✔	78	0.79	0.81	0.002	**201**	**1%**	293
551AN01612	DEER VALLEY **WEIGH MORE** 83101		✔	✔	57	1.36	0.89	-0.001	**197**	**1%**	316
551AN01609	SPRING GROVE **EL DORADO**		✔	✔	75	0.97	1.03	-0.033	**191**	**1%**	309
551AN01518	G A R **SUNBEAM**	✔	✔	✔	60	1.17	1.06	-0.027	**190**	**2%**	321
551AN01474	G A R **STORM**	✔	✔	✔	58	1.03	0.96	-0.008	**186**	**3%**	284
551AN01596	VAR **STURDY**			✔	65	1.06	0.62	-0.018	**184**	**2%**	292
151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✔	✔	✔	60	0.81	0.88	-0.014	**177**	**4%**	272
551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔	✔	73	0.44	0.89	-0.007	**175**	**10%**	291
203AN01411	S A V **CATTLEMASTER** 4873	✔	✔	✔	58	0.97	1.17	0.006	**171**	**10%**	289
551AN01507	BOBCAT **BLUE SKY**	✔	✔	✔	64	0.81	0.68	0.036	**168**	**10%**	289
551AN01520	SYDGEN **RESOLVE** 7132		✔		45	1.03	1.19	-0.009	**165**	**15%**	291
151AN01418	QUAKER HILL **CHIEFTAIN**	✔	✔	✔	54	0.82	0.79	0.005	**164**	**10%**	262
551AN01575	MCCABE MYCC **CASCADE**	✔	✔	✔	59	0.67	0.98	0.027	**158**	**15%**	249

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Yearling Height (YH) sires

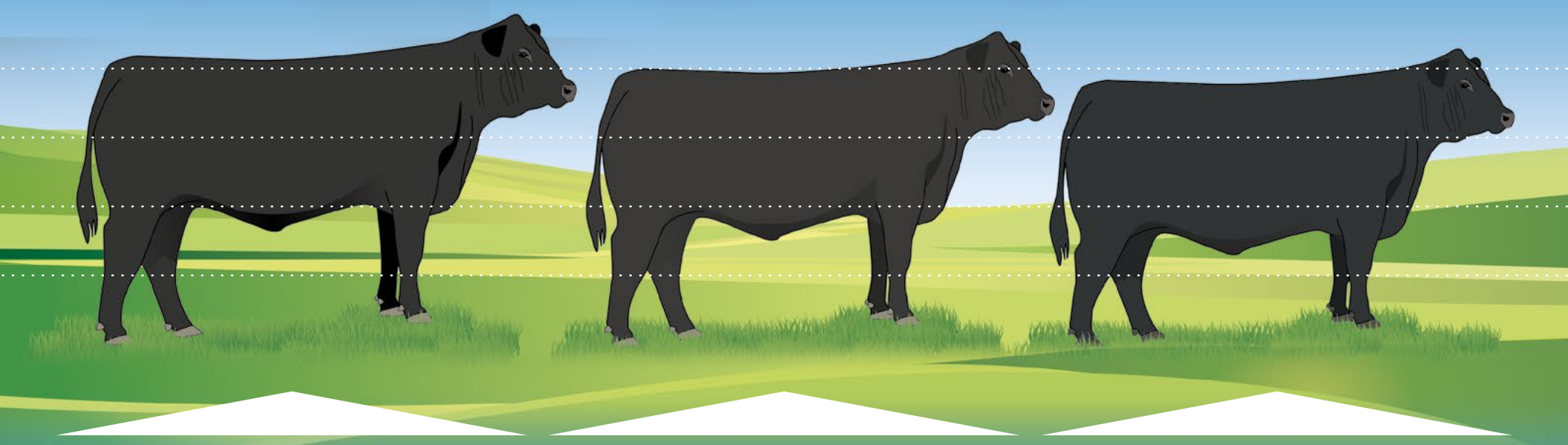
What is Acceptable *Size?*

FRAME SCORE AS A PREDICTOR OF FINAL HARVEST WEIGHT.

Carcass size is a heritable trait that stems from both the sire and dam. Finding the best beef sire to compliment the breed of the dam is important market Beef on Dairy calves that fit into an acceptable size range for beef processors without being penalized on heavy or light carcasses.

Holstein are known for their larger frame, which can take many days on feed and can be heavily discounted by the packer. STgenetics® recommends sires that can reduce stature and likely days to finish when mating to Holstein cows by identifying Angus sires under 1.0 for Yearling Height (YH) EPD. Lower YH values will provide the greatest correction to Holstein frame size in the resulting crossbred market cattle.

With Jersey cows having a smaller stature, STgenetics® recommends a higher YH EPD to add more frame to the Beef on Dairy cross. We recommend Angus sires at 0.8 and taller for the YH EPD for Jerseys.



LARGE FRAME

Expected weight to grade Choice

Steers	Heifers
▲▲ 1,350 lb.	▲▲ 1,250 lb.

Typical minimum qualifications for this grade, are thrifty, have large frames, and are tall and long bodied for their age.

MEDIUM FRAME

Expected weight to grade Choice

Steers	Heifers
▲▲ 1,200 lb.	▲▲ 1,100 lb.

Typical minimum qualifications for this grade, are thrifty, have slightly large framesare slightly tall and slightly long bodied for their age.

SMALL FRAME

Expected weight to grade Choice

Steers	Heifers
1,200 lb. ▼▼	1,100 lb. ▼▼

Feeder cattle included in this grade are thrifty, have small frames, and are shorter bodies and not as tall as specified as the minimum for the medium frame grade.

Source: October 2000 USDA Agricultural Marketing Service publication *U.S. Standards for Grades of Feeder Cattle*.

YEARLING HEIGHT ANGUS SIRES

CODE	NAME	4M™ FEMALE	4M™ MALE		CED	BW	WW	YW	YH	YH%
203AN01456	SITZ **DIVIDEND** 649C				12	-3.4	52	105	**0.0**	**90%**
203AN01465	MUSGRAVE **APACHE**		✔	✔	11	-1.1	54	96	**0.2**	**75%**
151AN01418	QUAKER HILL **CHIEFTAIN**	✔	✔	✔	3	2.4	73	121	**0.3**	**70%**
203AN01447	MGR **TREASURE**		✔	✔	12	-1.2	69	133	**0.3**	**65%**
551AN01551	SCHROEDER **HIGH ROLLER**		✔	✔	10	-0.2	73	130	**0.3**	**70%**
551AN01575	MCCABE MYCC **CASCADE**	✔	✔	✔	12	-1.4	70	135	**0.4**	**55%**

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BREED FOR PROFIT

UTILIZE SIMMENTAL TI AS A WAY TO IMPROVE PROFITABTILITY POTENTIAL OR YOUR FUTURE PROGENY'S CARCASS AND YIELD GRADES.

TI TERMINAL INDEX

TI RANKS ANIMALS BASED ON THEIR GENETIC MERIT WHERE SIMMENTAL OR SIMANGUS BULLS ARE SIRING CALVES THAT ARE PLACED ON FEED AND SOLD ON A VALUE BASED MARKET GRID THAT REWARDS CARCASS GRADE AND YIELD.

SIMMENTAL/SIMANGUS

CODE	NAME	4M FEMALE	4M MALE		CW	YG	MARB	BF	REA	TI	TI%
551SM09036	MAPLECREST **COWBOY UP**			✔	49.0	-0.11	0.83	-0.011	0.77	**91.0**	**1%**
551SM09039	CCR **CAMPFIRE** 3399E		✔		44.6	-0.41	0.39	-0.083	1.07	**88.3**	**1%**
551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	51.5	-0.16	0.76	-0.024	0.86	**87.9**	**1%**
551SM09016	GW **COMPASS** 371C	✔	✔		23.4	-0.32	0.47	-0.044	0.83	**85.5**	**2%**
551SM09031	CCR 707 **COWBOY** 6055B			✔	49.6	-0.20	0.47	-0.033	0.89	**82.8**	**4%**
551SM09038	RRR MR **COMRADE** 27F		✔	✔	43.2	-0.17	0.48	-0.020	0.82	**82.1**	**5%**
551SM09043	CCR 3362 **YUMA** 1110F		✔	✔	23.8	-0.22	0.64	-0.022	0.72	**79.6**	**10%**
551SM09017	GW **FREEDOM** 392C		✔		36.4	-0.28	0.49	-0.064	0.71	**79.5**	**10%**
203SM09001	CLRS **CONQUEST** 634 C		✔	✔	43.2	-0.06	0.46	-0.015	0.52	**78.4**	**15%**
203SM09000	TUEL **EFFECTIVE** A3055	✔	✔		30.6	-0.21	0.49	-0.038	0.64	**78.3**	**15%**
551SM09013	TJ **NORTHWARD** 573C	✔	✔		53.1	-0.36	0.28	-0.079	1.08	**78.2**	**15%**
551SM09037	RRR MR **REMEDY** 13F		✔	✔	53.6	-0.26	0.39	-0.057	0.92	**76.9**	**20%**

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RIBEYE AREA

As the indicator of muscling and factor in determination of Yield Grade, the Ribeye Area EPD is expressed in square inches, it is a predictor of the difference in ribeye area of a sire's progeny compared to progeny of other sires. It is the best interpreter for overall muscling within the carcass. As ribeye area increases, retail product yield increases.

Fat Thickness

Expressed in inches, Fat thickness, also referred to as backfat, is a measure of external fat thickness on a carcass. Measured between the 12th and 13th ribs, external fat is the most important determinant of retail yield and therefore Yield Grade.

Source: University of Arkansas Research & Extension and American Angus Association

ANGUS – REA

CODE	NAME	4M FEMALE	4M MALE		CW	MARB	RE	RE%	FAT	$B	$B%	$C
551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	84	1.09	**1.37**	**1%**	-0.081	233	321	301
551AN01520	SYDGEN **RESOLVE** 7132		✔	✔	45	1.03	**1.19**	**1%**	-0.009	165	291	360
551AN01578	FF RITO **REMARKABLE** 8M20			✔	92	1.03	**1.18**	**1%**	-0.057	256	363	287
203AN01411	S A V **CATTLEMASTER** 4873	✔	✔	✔	58	0.97	**1.17**	**1%**	0.006	171	289	229
203AN01427	SAC **MESSENGER**	✔	✔		45	0.50	**1.11**	**2%**	-0.003	141	230	341
551AN01568	TK **DRILLER**			✔	81	0.85	**1.07**	**3%**	0.005	215	340	319
551AN01518	G A R **SUNBEAM**	✔	✔	✔	60	1.17	**1.06**	**2%**	-0.027	190	321	313
551AN01609	SPRING GROVE **EL DORADO**		✔	✔	75	0.97	**1.03**	**4%**	-0.033	191	309	248
551AN01575	MCCABE MYCC **CASCADE**	✔	✔	✔	59	0.67	**0.98**	**5%**	0.027	158	249	281
551AN01474	G A R **STORM**	✔	✔	✔	58	1.03	**0.96**	**5%**	-0.008	186	284	353

SIMMENTAL/SIMANGUS – REA

CODE	NAME	4M FEMALE	4M MALE		CW	YG	MARB	BF	REA	REA%	TI
551SM09013	TJ **NORTHWARD** 573C	✔	✔		53.10	-0.36	0.28	-0.079	**1.08**	**2%**	78.2
551SM09039	CCR **CAMPFIRE** 3399E		✔		44.60	-0.41	0.39	-0.083	**1.07**	**2%**	88.3
551SM09018	BRINK **APOLLO** D673	✔	✔		24.50	-0.68	0.02	-0.172	**0.97**	**10%**	70.3
551SM09037	RRR MR **REMEDY** 13F		✔	✔	53.60	-0.26	0.39	-0.057	**0.92**	**10%**	76.9
551SM09031	CCR 707 **COWBOY** 6055B			✔	49.60	-0.20	0.47	-0.033	**0.89**	**10%**	82.8
551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	51.50	-0.16	0.76	-0.024	**0.86**	**15%**	87.9
551SM09016	GW **COMPASS** 371C	✔	✔		23.40	-0.32	0.47	-0.044	**0.83**	**15%**	85.5
551SM09038	RRR MR **COMRADE** 27F		✔	✔	43.20	-0.17	0.48	-0.020	**0.82**	**20%**	82.1
551SM09036	MAPLECREST **COWBOY UP**			✔	49.00	-0.11	0.83	-0.011	**0.77**	**25%**	91.0

OTHER BREEDS – REA

OTHER BREEDS	CODE	NAME	4M FEMALE	4M MALE	CW	MARB	RE	RE%	FAT
CHAROLAIS	551CH01505	WC **MILESTONE** 5223 P		✔	25	0.08	**1.03**	**4%**	-0.016
CHAROLAIS	551CH01506	CCC WC **RESOURCE** 417 P		✔	29	0.23	**1.00**	**5%**	0.038
POLLED HEREFORD	551HP01611	PCR 3X **CHIEF** 507C			71	0.18	**0.55**	**15%**	0.054
RED ANGUS	151AR00002	BHRA **HELIOS** Y506			24	0.53	**0.19**	**15%**	0.010

ANGUS – FAT

CODE	NAME	4M FEMALE	4M MALE		CW	MARB	RE	FAT	FAT%	$B	$C
551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	84	1.09	1.37	**-0.081**	**1%**	233	321
551AN01578	FF RITO **REMARKABLE** 8M20			✔	92	1.03	1.18	**-0.057**	**1%**	256	363
551AN01609	SPRING GROVE **EL DORADO**		✔	✔	75	0.97	1.03	**-0.033**	**10%**	191	309
551AN01518	G A R **SUNBEAM**	✔	✔	✔	60	1.17	1.06	**-0.027**	**10%**	190	321
551AN01606	FHCC **EXTENT** 8566			✔	68	0.98	0.94	**-0.022**	**15%**	207	323
551AN01596	VAR **STURDY**			✔	65	1.06	0.62	**-0.018**	**15%**	184	292

SIMMENTAL/SIMANGUS – FAT

CODE	NAME	4M FEMALE	4M MALE	CW	YG	MARB	BF	BF%	REA	TI
551SM09018	BRINK **APOLLO** D673	✔	✔	24.5	-0.68	0.02	**-0.172**	**3%**	0.97	70.3
551SM09039	CCR **CAMPFIRE** 3399E		✔	44.6	-0.41	0.39	**-0.083**	**15%**	1.07	88.3
551SM09013	TJ **NORTHWARD** 573C	✔	✔	53.1	-0.36	0.28	**-0.079**	**20%**	1.08	78.2

OTHER BREEDS – FAT

OTHER BREEDS	CODE	NAME	4M FEMALE	4M MALE	CW	MARB	RE	FAT	FAT%
CHAROLAIS	551CH01505	WC **MILESTONE** 5223 P		✔	25	0.08	1.03	**-0.016**	**15%**
HORNED HEREFORD	551HH01700	JCS 240 **FLINTLOCK** 5815		✔	63	0.20	0.29	**-0.006**	**20%**
RED ANGUS	151AR00002	BHRA **HELIOS** Y506			24	0.53	0.19	**0.010**	**25%**

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MARBLING

THE FOUNDATION OF

DELICIOUS BEEF

MARBLING IS ONE OF THE MOST IMPORTANT FACTORS IN DETERMINING THE QUALITY OF A CARCASS.

It's found in the white flecks of intramuscular fat in the beef muscle, creating a marble like pattern.
Graders evaluate the amount and distribution of marbling in the ribeye muscle to determine the quality of grade.
Strong visual indicator for the meat's tenderness, texture, juiciness and flavor.

PRIME

- **Contains the most amount marbling.**
- **Produced in smaller quantities compared to the other grades.**
- **Generally sold in upscale restaurants.**

CHOICE

- **Beef is high quality, but has less marbling than Prime.**
- **Will be very tender, juicy and flavorful.**

SELECT

- **A very uniform in quality piece of meat and leaner than the higher grades.**
- **Fairly tender, but it may lack some of the juiciness and flavor of the higher grades.**

Marbling EPD (MARB), expressed as a fraction of the difference in USDA marbling score of a sire's progeny compared to progeny of other sires.

Source: United States Department of Agricultural

	CODE	NAME	4M FEMALE	4M MALE		CW	MARB	MARB%	RE	FAT	$B	$C
ANGUS	551AN01612	DEER VALLEY **WEIGH MORE** 83101		✔	✔	57	**1.36**	**2%**	0.89	-0.001	197	316
	203AN01447	MGR **TREASURE**		✔	✔	42	**1.19**	**3%**	0.52	0.010	153	256
	551AN01518	G A R **SUNBEAM**	✔	✔	✔	60	**1.17**	**3%**	1.06	-0.027	190	321
	551AN01594	EXAR/SLC **ENHANCEMENT** 9006			✔	85	**1.10**	**5%**	0.80	0.037	218	330
	551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	84	**1.09**	**10%**	1.37	-0.081	233	321
	551AN01596	VAR **STURDY**			✔	65	**1.06**	**10%**	0.62	-0.018	184	292
	551AN01578	FF RITO **REMARKABLE** 8M20			✔	92	**1.03**	**10%**	1.18	-0.057	256	363
	551AN01520	SYDGEN **RESOLVE** 7132		✔	✔	45	**1.03**	**10%**	1.19	-0.009	165	291

	CODE	NAME	4M FEMALE	4M MALE		CW	YG	MARB	MARB%	BF	REA	TI
SIMMENTAL/ SIMANGUS	551SM09036	MAPLECREST **COWBOY** UP			✔	49.0	-0.11	**0.83**	**1%**	-0.011	0.77	91.0
	551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	51.5	-0.16	**0.76**	**2%**	-0.024	0.86	87.9
	551SM09043	CCR 3362 **YUMA** 1110F		✔	✔	23.8	-0.22	**0.64**	**5%**	-0.022	0.72	79.6
	551SM09017	GW **FREEDOM** 392C		✔		36.4	-0.28	**0.49**	**20%**	-0.064	0.71	79.5
	203SM09000	TUEL **EFFECTIVE** A3055	✔	✔		30.6	-0.21	**0.49**	**20%**	-0.038	0.64	78.3
	551SM09038	RRR MR **COMRADE** 27F		✔	✔	43.2	-0.17	**0.48**	**20%**	-0.020	0.82	82.1
	551SM09016	GW **COMPASS** 371C	✔	✔		23.4	-0.32	**0.47**	**20%**	-0.044	0.83	85.5
	551SM09031	CCR 707 **COWBOY** 6055B			✔	49.6	-0.20	**0.47**	**20%**	-0.033	0.89	82.8

OTHERS BREEDS	CODE	NAME	4M FEMALE	4M MALE	CW	MARB	MARB%	RE	FAT
BRAHMAN	551BR01906	MR **KALLION** 1352			35	**6.84**	**6%**	0.34	0.020
BRAUNVIEH	203BU01501	MR HLJ **PRIMETIME** B406	✔	✔	24	**0.88**	**10%**	0.27	-0.093
CHAROLAIS	551CH01506	CCC WC **RESOURCE** 417 P		✔	29	**0.23**	**15%**	1.00	0.038
POLLED HEREFORD	551HP01611	PCR 3X **CHIEF** 507C			71	**0.18**	**20%**	0.55	0.054

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CARCASS WEIGHT

Carcass Weight is a main factor in the determination of the value of the carcass when cattle are sold on the grid. Carcass Weight is also used in Yield Grade calculations to estimate carcass cutability. When determining breeding options for Carcass Weight, breeders should select for matching the size of the cattle to nutritional resources. Carcass size is genetically influenced and can be changed with an emphasis on frame size and growth rate in breeding decisions.

Carcass Weight EPD (CW), expressed in pounds is a predictor of the differences in hot carcass weight of a sire's progeny compared to progeny of other sires.

Source: University of Arkansas Research & Extension and American Angus Association

	CODE	NAME	4M FEMALE	4M MALE		CW	CW%	MARB	RE	FAT	$B	$C
ANGUS	551AN01578	FF RITO **REMARKABLE** 8M20			✔	**92**	**1%**	1.03	1.18	-0.057	256	363
	551AN01594	EXAR/SLC **ENHANCEMENT** 9006			✔	**85**	**1%**	1.10	0.80	0.037	218	330
	551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	**84**	**1%**	1.09	1.37	-0.081	233	321
	551AN01568	TK **DRILLER**			✔	**81**	**1%**	0.85	1.07	0.005	215	340
	551AN01605	FHCC **ENTHRALL** 8588			✔	**78**	**1%**	0.79	0.81	0.002	201	293
	551AN01609	SPRING GROVE EL **DORADO**		✔	✔	**75**	**1%**	0.97	1.03	-0.033	191	309
	551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔	✔	**73**	**1%**	0.44	0.89	-0.007	175	291
	551AN01606	FHCC **EXTENT** 8566			✔	**68**	**3%**	0.98	0.94	-0.022	207	323
	551AN01596	VAR **STURDY**			✔	**65**	**4%**	1.06	0.62	-0.018	184	292
	551AN01507	BOBCAT **BLUE SKY**	✔	✔	✔	**64**	**5%**	0.81	0.68	0.036	168	289
	551AN01518	G A R **SUNBEAM**	✔	✔	✔	**60**	**10%**	1.17	1.06	-0.027	190	321
	151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✔	✔	✔	**60**	**10%**	0.81	0.88	-0.014	177	272
	551AN01575	MCCABE MYCC **CASCADE**	✔	✔	✔	**59**	**10%**	0.67	0.98	0.027	158	249
	551AN01474	G A R **STORM**	✔	✔	✔	**58**	**10%**	1.03	0.96	-0.008	186	284
	203AN01411	S A V **CATTLEMASTER** 4873	✔	✔	✔	**58**	**10%**	0.97	1.17	0.006	171	289
	551AN01612	DEER VALLEY **WEIGH MORE** 83101		✔	✔	**57**	**15%**	1.36	0.89	-0.001	197	316

	CODE	NAME	4M FEMALE	4M MALE		CW	CW%	MARB	RE	FAT	$B	$C
SIMMENTAL/SIMANGUS	551SM09037	RRR MR **REMEDY** 13F		✔	✔	**53.6**	**1%**	-0.26	0.39	-0.057	0.92	76.90
	551SM09013	TJ **NORTHWARD** 573C	✔	✔		**53.1**	**2%**	-0.36	0.28	-0.079	1.08	78.20
	551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	**51.5**	**2%**	-0.16	0.76	-0.024	0.86	87.90
	551SM09031	CCR 707 **COWBOY** 6055B			✔	**49.6**	**3%**	-0.20	0.47	-0.033	0.89	82.80
	551SM09036	MAPLECREST **COWBOY UP**			✔	**49.0**	**3%**	-0.11	0.83	-0.011	0.77	91.00
	551SM09039	CCR **CAMPFIRE** 3399E		✔		**44.6**	**10%**	-0.41	0.39	-0.083	1.07	88.30
	551SM09038	RRR MR **COMRADE** 27F		✔	✔	**43.2**	**10%**	-0.17	0.48	-0.020	0.82	82.10
	203SM09001	CLRS **CONQUEST** 634 C		✔	✔	**43.2**	**10%**	-0.06	0.46	-0.015	0.52	78.40
	551SM09017	GW **FREEDOM** 392C		✔		**36.4**	**25%**	-0.28	0.49	-0.064	0.71	79.50

OTHERS BREEDS	CODE	NAME	4M FEMALE	4M MALE	CW	CW%	MARB	RE	FAT
BRAHMAN	551BR01906	MR **KALLION** 1352			**35**	**9%**	6.84	0.34	0.02
CHAROLAIS	551CH01506	CCC WC **RESOURCE** 417 P		✔	**29**	**10%**	0.23	1.00	0.038
CHAROLAIS	551CH01505	WC **MILESTONE** 5223 P		✔	**25**	**20%**	0.08	1.03	-0.016
POLLED HEREFORD	551HP01611	PCR 3X **CHIEF** 507C			**71**	**25%**	0.18	0.55	0.054

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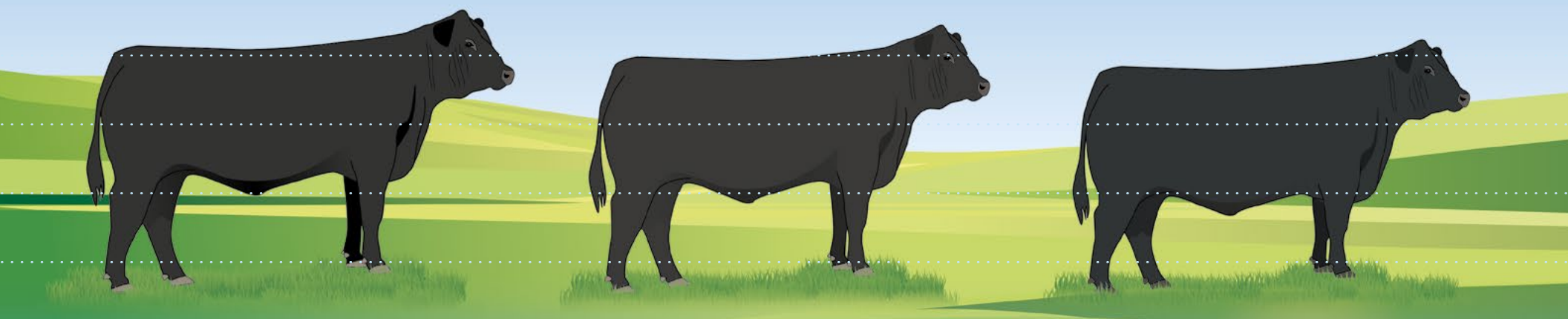
USDA FEEDER CATTLE STANDARDS

THREE CATEGORIES ARE USED TO CLASSIFY AND STANDARDIZE FEEDER CATTLE SOLD – THRIFTINESS, THICKNESS AND FRAME SIZE.

Performance pays in any operation. Dairymen can benefit from receiving a premium for day-olds or retain ownership of their crossbred calves. It is important understand the requirements of the cattle feeder and packer to be able to benefit from the value of those progeny. Cattle feeders are interested in health, feed efficiency, growth and marketability of the cattle, whereas packers are focused on carcass quality, yield and cut-out. The genetic makeup of both parents will help predetermine how the crossbreed Beef on Dairy calves will be fed to reach a marketable product at their finished weight in a feedyard. Below are the USDA Standards for Feeder Cattle.

FRAME SCORE

Determined by the length and height of calf by visually estimating the distance from the fore flank to the rear flank and the chest to ground from the calf's hip.



LARGE FRAME (L)

Very tall and long bodied feeder cattle that would not be expected to grade Choice until their weights exceed 1,350 pounds for steers and 1,250 pounds for heifers.

MEDIUM FRAME (M)

Have slightly large frames and would expect to produce Choice at live weights of 1,200 to 1,350 pounds for steers and 1,100 to 1,250 pounds for heifers.

SMALL FRAME (S)

Small framed with shorter bodied cattle that do not meet Medium standards. Steers and heifers would be expected to produce Choice carcasses at live weights before their reaching 1,200 and 1,100 pounds, respectively.

MUSCLE THICKNESS GRADES

NO. 1

Displays moderately thickness throughout with a rounded appearance through the hip and loin, with moderate width between the front and rear legs. Cattle have this thickness with a thin layer of fat but can have varying degrees of fat cover.

NO. 2

Slightly thick throughout, with marginal muscularity through the forearm and rear quarter. Exhibits rounded appearance through the hip and loin, with slender width between front and rear legs. They tend to also have a thin layer of fat but can varying degrees of fat cover.

NO. 3

Thin through their forearm and rear quarter and have a sunken appearance over the hip and loin. Their legs are set closely together. Cattle show this narrowness with a thin layer of fat but can have varying degrees of fat cover.

NO. 4

Cattle that are thrifty, however, fall below the No. 3 requirements and are lightly muscled.

THRIFTINESS

Cattle that are expected to perform normally in their present state and exhibit good general health and soundness. Cattle within this category may have any combination of frame size and thickness.

STgenetics®

BEEF SIRES AVAILABLE FOR BEEF ON DAIRY PROGRAM

SPRING 2020

ANGUS

CODE	NAME	4M FEMALE	4M MALE	TDA	CED	CED%	BW	BW%	WW	WW%	YW	YW%	YH	YH%	CW	CW%	MARB	MARB%	RE	RE%	FAT	FAT%	$B	$B%	$C	$C%
551AN01578	FF RITO **REMARKABLE** 8M20			✔	-2	95%	5.1	95%	93	1%	176	1%	1.4	1%	92	1%	1.03	10%	1.18	1%	-0.057	1%	256	1%	363	1%
551AN01568	TK **DRILLER**			✔	12	10%	1.1	45%	83	1%	161	1%	0.9	10%	81	1%	0.85	20%	1.07	3%	0.005	45%	215	1%	340	1%
551AN01594	EXAR/SLC **ENHANCEMENT** 9006			✔	9	30%	1.8	65%	83	1%	154	1%	1.0	5%	85	1%	1.10	5%	0.80	20%	0.037	85%	218	1%	330	1%
551AN01611	DEER VALLEY **HIGH RANK** 82115			✔	-5	99%	4.6	95%	87	1%	158	1%	1.2	2%	84	1%	1.09	10%	1.37	1%	-0.081	1%	233	1%	321	1%
551AN01606	FHCC **EXTENT** 8566			✔	-1	95%	4.9	95%	77	3%	141	2%	1.0	5%	68	3%	0.98	10%	0.94	10%	-0.022	15%	207	1%	323	1%
551AN01612	DEER VALLEY **WEIGH MORE** 83101		✔	✔	13	10%	0.5	35%	77	3%	144	1%	0.9	10%	57	15%	1.36	2%	0.89	10%	-0.001	35%	197	1%	316	1%
551AN01609	SPRING GROVE **EL DORADO**		✔	✔	7	45%	2.4	75%	97	1%	174	1%	1.2	2%	75	1%	0.97	10%	1.03	4%	-0.033	10%	191	1%	309	2%
551AN01605	FHCC **ENTHRALL** 8588			✔	5	60%	2.5	80%	76	4%	150	1%	0.9	10%	78	1%	0.79	20%	0.81	15%	0.002	40%	201	1%	293	3%
551AN01518	G A R **SUNBEAM**	✔	✔	✔	11	15%	1.3	55%	73	10%	130	10%	0.8	15%	60	10%	1.17	3%	1.06	2%	-0.027	10%	190	2%	321	1%
551AN01596	VAR **STURDY**			✔	14	4%	-0.6	15%	70	10%	134	4%	0.6	35%	65	4%	1.06	10%	0.62	40%	-0.018	15%	184	2%	292	4%
551AN01474	G A R **STORM**	✔	✔	✔	16	2%	-1.1	10%	77	4%	134	5%	0.9	10%	58	10%	1.03	10%	0.96	5%	-0.008	25%	186	3%	284	5%
151AN01419	QUAKER HILL **ROYAL FLUSH** 4AI3	✔	✔	✔	3	75%	3.1	90%	78	3%	137	3%	0.9	10%	60	10%	0.81	20%	0.88	10%	-0.014	20%	177	4%	272	10%
551AN01477	QHF WWA **BLACK ONYX** 5Q11	✔	✔	✔	11	15%	-1.0	15%	79	3%	143	2%	0.8	15%	73	1%	0.44	55%	0.89	10%	-0.007	25%	175	10%	291	4%
203AN01411	S A V **CATTLEMASTER** 4873	✔	✔	✔	9	30%	2.6	80%	76	5%	133	10%	1.1	3%	58	10%	0.97	10%	1.17	1%	0.006	45%	171	10%	289	4%
151AN01418	QUAKER HILL **CHIEFTAIN**	✔	✔	✔	3	75%	2.4	75%	73	10%	121	15%	0.3	70%	54	20%	0.82	20%	0.79	20%	0.005	45%	164	10%	262	15%
551AN01507	BOBCAT **BLUE SKY**	✔	✔	✔	5	60%	3.4	90%	80	3%	139	3%	0.5	45%	64	5%	0.81	20%	0.68	25%	0.036	85%	168	10%	289	4%
551AN01575	MCCABE MYCC **CASCADE**	✔	✔	✔	12	10%	-1.4	10%	70	10%	135	3%	0.4	55%	59	10%	0.67	35%	0.98	5%	0.027	75%	158	15%	249	25%
551AN01520	SYDGEN **RESOLVE** 7132		✔	✔	13	10%	0.0	25%	58	40%	114	25%	0.8	15%	45	35%	1.03	10%	1.19	1%	-0.009	25%	165	15%	291	4%
203AN01447	MGR **TREASURE**		✔	✔	12	15%	-1.2	10%	69	15%	133	10%	0.3	65%	42	40%	1.19	3%	0.52	50%	0.010	50%	153	20%	256	20%
203AN01427	SAC **MESSENGER**	✔	✔		-1	95%	2.7	80%	57	45%	102	45%	0.7	25%	45	35%	0.50	50%	1.11	2%	-0.003	30%	141	35%	230	40%
551AN01551	SCHROEDER **HIGH ROLLER**		✔	✔	10	20%	-0.2	20%	73	10%	130	5%	0.3	70%	49	30%	0.78	25%	0.47	65%	0.012	55%	139	35%	232	40%
551AN01494	HF **LONG SHOT** 71D		✔	✔	12	15%	-1.1	10%	62	30%	107	35%	0.7	25%	45	35%	0.80	20%	0.46	55%	0.056	95%	135	40%	219	50%
203AN01465	MUSGRAVE **APACHE**		✔	✔	11	15%	-1.1	10%	54	55%	96	55%	0.2	75%	43	40%	0.67	30%	0.66	30%	0.052	95%	122	60%	231	40%
203AN01456	SITZ **DIVIDEND** 649C				12	15%	-3.4	1%	52	60%	105	40%	0.0	90%	43	40%	0.44	55%	0.46	55%	0.061	95%	127	50%	228	40%

SIMANGUS

CODE	NAME	4M FEMALE	4M MALE	TDA	CE	CE%	BW	BW%	WW	WW%	YW	YW%	CW	CW%	YG	YG%	MARB	MARB%	BF	BF%	REA	REA%	SHEAR	SHEAR%	TI	TI%
203SM00169	BHR **BANTU** J567E		✔		4.1	50%	4.1	35%	44.6	99%	66.3	99%	30.7	10%	-0.53	99%	-0.11	15%	-0.144	99%	0.81	55%	-0.05	90%	49.7	99%
203SM09000	TUEL **EFFECTIVE** A3055	✔	✔		16.4	10%	-1.5	15%	63.8	55%	101.7	45%	30.6	50%	-0.21	60%	0.49	20%	-0.038	65%	0.64	50%	-0.35	40%	78.3	15%
203SM09001	CLRS **CONQUEST** 634 C		✔	✔	15.5	15%	-1.3	20%	68.6	35%	106.7	35%	43.2	10%	-0.06	95%	0.46	20%	-0.015	90%	0.52	75%	-0.42	15%	78.4	15%
551SM09013	TJ N**ORTHWARD** 573C	✔	✔		2.6	99%	5.4	99%	88.6	1%	135.6	2%	53.1	2%	-0.36	20%	0.28	55%	-0.079	20%	1.08	2%	-0.48	4%	78.2	15%
551SM09016	GW **COMPASS** 371C	✔	✔		14.7	20%	2.0	85%	84.1	3%	133.8	2%	23.4	80%	-0.32	30%	0.47	20%	-0.044	50%	0.83	15%	-0.64	1%	85.5	2%
551SM09017	GW **FREEDOM** 392C		✔		6.4	99%	2.9	95%	75.1	15%	124.0	10%	36.4	25%	-0.28	40%	0.49	20%	-0.064	30%	0.71	35%	-0.55	1%	79.5	10%
551SM09018	BRINK **APOLLO** D673	✔	✔		0.0	99%	5.2	60%	77.9	10%	107.6	20%	24.5	35%	-0.68	4%	0.02	1%	-0.172	3%	0.97	10%	-	-	70.3	3%
551SM09031	CCR 707 **COWBOY** 6055B			✔	15.9	10%	-0.6	25%	75.1	15%	109.6	30%	49.6	3%	-0.20	65%	0.47	20%	-0.033	65%	0.89	10%	-0.37	35%	82.8	4%
551SM09035	MAPLECREST **RHINESTONE COWBOY**			✔	11.9	50%	1.1	65%	77.7	10%	113.3	20%	51.5	2%	-0.16	75%	0.76	2%	-0.024	80%	0.86	15%	-0.34	45%	87.9	1%
551SM09036	MAPLECREST **COWBOY UP**			✔	14.4	20%	1.3	70%	80.6	5%	118.0	15%	49.0	3%	-0.11	90%	0.83	1%	-0.011	90%	0.77	25%	-0.34	45%	91.0	1%
551SM09037	RRR MR **REMEDY** 13F		✔	✔	10.0	75%	-0.1	35%	70.6	30%	113.5	20%	53.6	1%	-0.26	45%	0.39	35%	-0.057	40%	0.92	10%	-0.39	25%	76.9	20%
551SM09038	RRR MR **COMRADE** 27F		✔	✔	16.5	10%	0.3	45%	75.4	15%	121.5	10%	43.2	10%	-0.17	75%	0.48	20%	-0.020	90%	0.82	20%	-0.29	75%	82.1	5%
551SM09039	CCR **CAMPFIRE** 3399E		✔		13.1	35%	1.1	65%	84.1	3%	120.8	10%	44.6	10%	-0.41	10%	0.39	35%	-0.083	15%	1.07	2%	-0.48	4%	88.3	1%
551SM09043	CCR 3362 **YUMA** 1110F		✔	✔	12.3	45%	0.6	55%	65.7	50%	100.4	50%	23.8	75%	-0.22	55%	0.64	5%	-0.022	80%	0.72	35%	-0.35	40%	79.6	10%

OTHER BREEDS

CODE	NAME	4M FEMALE	4M MALE	CED	CED%	BW	BW%	WW	WW%	YW	YW%	CW	CW%	MARB	MARB%	RE	RE%	FAT	FAT%
151AR00002	BHRA **HELIOS** Y506			11	70%	-0.6	70%	58	50%	90	55%	24	35%	0.53	20%	0.19	16%	0.01	25%
551BR01906	MR **KALLION** 1352			6.86	1%	-0.8	5%	2.5	95%	17.9	75%	35	9%	6.84	6%	0.34	35%	0.02	85%
203BU01501	MR HLJ **PRIMETIME** B406	✔	✔	6.6	30%	-0.6	4%	40	80%	66	55%	24	50%	0.88	10%	0.27	75%	-0.093	35%
551CH01505	WC **MILESTONE** 5223 P		✔	0.7	85%	2.3	85%	38	30%	75	20%	25	20%	0.08	55%	1.03	4%	-0.016	15%
551CH01506	CCC WC **RESOURCE** 417 P		✔	3.6	70%	-0.3	35%	43	15%	58	50%	29	10%	0.23	15%	1.00	5%	0.038	100%
551HH01700	JCS 240 **FLINTLOCK** 5815		✔	-5.2	95%	3.1	55%	62	10%	105	10%	63	60%	0.20	20%	0.29	70%	-0.006	20%
551HP01611	PCR 3X **CHIEF** 507C			8.9	10%	-2.6	5%	65	5%	96	20%	71	25%	0.18	20%	0.55	15%	0.054	95%
203LM01400	CHR **ACE VENTURA** 129A	✔	✔	22	1%	-5.3	1%	55	90%	95	65%	8	95%	0.07	45%	0.80	45%	-0.01	95%
203KB01327	VBV ROA **RED GALAXY**	✔	✔																
203KB01602	ST **PATTON** (ET) 421/3	✔	✔																
551KB01611	CHR **MICHIYOSHI** II	✔	✔																
551KB01612	MS LORD OF THE **RINGS** 545F-ET	✔	✔																

"Expected Progeny Difference (EPD), is the prediction of how future progeny are expected to perform. EPDs are expressed in units of measure for the trait, plus or minus. The EPDs listed above are provided by the breed association as of 5/7/2020. EPDs are expected to change every week."

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		Vision+™ 75	NEW* Vision+™ 20
GENOMIC VALUES PROVIDED BY CDCB		✓ CDCB Validated	✓ CDCB Validated
	NUMBER OF TRAITS	75*	20
CDCB*	PRODUCTION	7	Milk Yield, Fat Yield, % Fat, Protein Yield, % Protein
CDCB*	HEALTH & LONGEVITY	20	Productive Life, Livability, SCS, DPR
CDCB*	CONFORMATION	22	UDC, FLC, BSC
CDCB*	SELECTION INDICES	4	NM$, CM$, FM$
	MILK MARKERS	Kappa Casein, Beta Casein A2, Beta Casein AB, Beta Lactoglobulin	Kappa Casein, Beta Casein A2, Beta Casein AB, Beta Lactoglobulin
	MARKERS PACKAGE	18 included*	Available for upgrade
	ecofeed	✓	✓
	PARENTAGE DISCOVERY	✓	✓
	CHROMOSOMAL MATING	✓	✓

*Vision+20: Available soon from STgenetics® and Genetic Vision-ST™: 20 traits genomic test for females. Watch for further announcement.

*75 Traits genomic test is for the Holstein breed. The number of traits vary for each breed.

*CDCB: Council on Dairy Cattle Breeding.

*All standard marker results (18) will be included with your genomic results at no extra cost with purchase of STgenetics® semen.

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