The tables below contain comparisons among breeds based on reports by the U. S. Meat Animal Research Center, Clay Center, Nebraska. **These estimates apply under conditions similar to those at the Center**. Calves at MARC are weaned in the fall so the post-weaning period is over winter. This probably depresses yearling weight of Bos indicus-derivative breeds relative to British and Continental breeds.

The base of comparison is Angus breed average. As an example, compared to breedaverage Angus sires, breed-average Charolais are predicted to sire offspring averaging 7.5 lb heavier at birth, 16 lb heavier at weaning, 2 lb heavier at yearling, 0.91 degrees lower in marbling, 0.77 sq in larger in ribeye, and 0.21 in lower in fat cover; Charolaissired daughters would be predicted to wean calves 10 lb lighter through maternal ability, compared to Angus-sired daughters, as predicted by differences in Milk EPD. For sires where Angus is not involved, the two relevant breed factors are compared. So, relative to breed-average Charolais sires, breed-average Simmental sires would be predicted to sire calves averaging 3.7 lb lighter at birth, 6 lb lighter at weaning, 7 lb lighter at yearling, 0.13 degrees higher in marbling, 0.03 sq in lower in ribeye area, and 0.06 in higher in fat thickness; Simmental-sired daughters would be predicted to wean calves 10 lb heavier than Charolais-sired daughters, as predicted by differences in Milk EPD

NOTE: These are **breed-average** comparisons for sire effects only. For comparisons between purebreds, in order to include both sire and dam effect the differences shown below should be doubled.

Registry association breed averages can be seen on this website (<u>http://beef.tamu.edu</u>) in the list of publications under "Genetics & Selection". Look for "2014 Breed Averages for EPD Traits". Factors to adjust EPDs of individuals of different breeds, also based on U. S. Meat Animal Research Center studies, can be found in another publication on the above website, "2014 Across-Breed EPD Adjustments."

Other EPD values calculated by some breeds (but for which no across-breed adjustments are available) include various combinations of calving ease, gestation length, scrotal circumference, yearling hip height, mature weight, mature height, docility, stayability (longevity in the herd), carcass weight, Yield Grade or cutability (percent lean), tenderness, and \$ Value Indexes. For a complete breed genetic evaluation report, contact the particular breed association or their website.

Breed	Birth Weight	Weaning Weight	Yearling Weight	Milk	Marbling	REA	Fat
Angus	base	base	base	base	base	base	base
Beefmaster	+4.9	-1	-39	-16			
Brahman	+10.9	+13	-51	+6	-1.35	-0.48	-0.15

Brangus	+3.4	-8	-37	-11			
Braunvieh	+3.3	-32	-72	+11			
Charolais	+7.5	+16	+1	-10	-0.91	+0.77	-0.22
Chiangus	+4.1	-29	-61	-13	-0.71	+0.06	-0.14
Gelbvieh	+2.4	-3	-18	+7	-0.84	+0.61	-0.19
Hereford	+4.4	-6	-34	-23	-0.76	-0.28	-0.06
Limousin	+3.7	-3	-41	-8	-1.22	+1.15	
MaineAnjou	+4.8	-28	-50	-11	-1.02	+0.62	-0.24
Red Angus	+1.1	-16	-33	-4	-0.43	-0.36	-0.04
Salers	+2.0	-12	-31	-1	-0.40	+0.37	-0.22
Santa Gertrudis	+5.4	-4	-37	-11	-1.17	-0.52	-0.11
Shorthorn	+6.6	-23	-33	0	-0.66	-0.27	-0.15
Simmental	+3.8	+10	-6	0	-0.78	+0.74	-0.22
South Devon	+4.1	-10	-30	+1	-0.21	-0.02	-0.14
Tarentaise	+2.0	-1	-47	+2			

Updated June, 2014.