

EPDs:

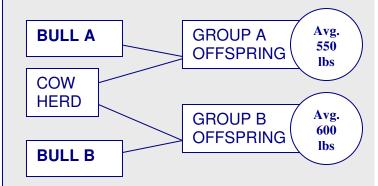
- allow breeders to estimate an animal's value as a parent
- allow a fair comparison of breeding value by removing environmental bias such as climate, feed and special management
- help breeders make informed decisions regarding breeding stock selection by evaluating numerous traits including growth-related traits (BW, WW, YW, Milk), carcass (REA, FAT, %IMF, etc.) and reproductive efficiency (CE, MCE, SC)
- estimate the average calf performance of one parent compared to the average calf performance of another parent, assuming similar mates

EPDs are an indication of how an animal's calves will perform on average compared to another animal's calves.

For example, if Bull A (weaning weight EPD of +10) and Bull B (WW of +60) were randomly mated with ten similar cows, we would expect the group average weaning weight of Bull A's offspring to be 50 lbs lighter than that of Bull B's (60-10=50).

Calf	Α	В
1	500	400
2	510	450
3	520	500
4	530	550
5	540	600
6	560	600
7	570	650
8	580	700
9	590	750
10	600	800
Avg.	550	600

Note that not all calves from Bull B have a higher weaning weight, but the average is 50 lbs higher.



Accuracy – reflects the reliability of the EPD value. High accuracy values (>.70) mean the EPD value is closer to the true breeding value than an EPD value with a lower accuracy (<.20).

EPD averages for 2009-born Black Angus calves		
BW	+3.0	
WW	+40	
YW	+71	
Milk	+17	
TM	+37	
CE	+1.0	
MCE	+4.0	
SC	+0.38	
REA	+0.06	
FAT	+0.010	
MARB	+0.17	

Tool for evaluating animals include EPDs, pedigree information, DNA test information, and visual assessment.