



43rd Annual Illinois Performance Tested Bull Sale



Understanding Power Scores

Bull Sale Order -

The sale order for the 2011 Bull Sale will be determined by using the Power Score. The PS will be calculated for a bull based on “Percentile Rank” for six EPDs. The 2011 PS for bulls will **use the traits of BW, WW, YW, MM, Marb/%IMF & REA EPDs in the following equation.**

$$PS = (BW\% + WW\% + YW\% + MM\% + \text{Marbling or \%IMF} + REA)/6$$

In the equation, BW% is the bull’s percentile rank within his breed for BW, WW% is his percentile rank for WW, YW% is his percentile rank for YW, MM% is his percentile rank for MM, MB/%IMF is his percentile rank and REA is his percentile rank. The scoring system is similar to golf. **LOWER SCORES mean a more genetically desirable bull.**

PS Example. The following four Angus bulls are representative of those sold through previous IPT Bull Sales. Ranking these for use in a rotational system in which females will be used as replacements in the cowherd and bull calves will enter the feedlot as steers and sold on a grid basis.

Sire	BW	WW	YW	MM	Marb	REA
A	-.01	+48	+86	+25	+30	+.22
B	+2.7	+55	+104	+29	+45	+.49
C	+1.1	+54	+97	+30	+.54	+.38
D	+2.8	+49	+91	+23	+.24	+.20

To calculate the PS for the bulls above, use your breed’s most current Percentile Breakdown for Non-Parent Bulls (Spring 2011 Analysis) to determine percentile ranks for the various traits. The PS for these four Angus bulls based on the **“Percentile Ranks from the Spring 2011 Sire Evaluation Report – Non-Parent Bulls.”**

	BW	WW	YW	MM	Marb	REA	
A	11	40	45	25	66	43	230/6 = 38.3
B	67	12	6	5	38	7	135/6 = 22.5
C	30	15	15	3	26	16	105/6 = 17.5
D	70	35	30	40	76	47	298/6 = 49.7

Thus, the order of sale for the four bulls would be...

1st - Sire C = 17.5 **3rd** - Sire A = 38.3
2nd - Sire B = 22.5 **4th** - Sire D = 49.7