



44th Annual Illinois Performance Tested Bull Sale



Understanding Power Scores

Bull Sale Order –

The sale order for the 2012 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 2012 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	-.04	+50	+89	+25	+35	+30
B	+2.2	+57	+104	+29	+50	+57
C	+0.8	+56	+97	+30	+59	+49
D	+2.8	+51	+94	+23	+34	+28

To calculate the PS for the bulls above, use your breed’s most current Percentile Breakdown for Non-Parent Bulls (Spring 2012 Analysis) to determine percentile ranks for the various traits. The PS for these four Angus bulls based on the **“Percentile Ranks from the Spring 2012 Sire Evaluation Report – Non-Parent Bulls.”**

	BW	WW	YW	MM	Marb	REA	
A	9	37	40	30	57	50	223/6 = 37.2
B	60	12	8	10	31	13	134/6 = 22.3
C	25	15	20	7	20	21	108/6 = 18.0
D	72	35	27	45	60	53	292/6 = 48.7

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

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|---------------------------------------|---------------------------------------|
| 1st - Sire C = 18.0 | 3rd - Sire A = 37.2 |
| 2nd - Sire B = 22.3 | 4th - Sire D = 48. |