From Phenotypes to EPDs ... EPD Calculation in Cowboy Language







Breaking Down Phenotype ... Introducing the Genetic Model

Phenotype = Avg + Breeding Value + EnvironmentEPD = $\frac{1}{2}$ Breeding Value

<u>ID WW Avg BV Env</u>	
1) $850 = 725 + 10 + 115$	
2) 720 = 725 - 5 + 0	The Party
3) 600 = 725 + 25 - 150	
1,000,000) 680 = 725 + 20 - 65	

































The Genetic Model ... Calculating EPDs

Phenotype = Avg + Breeding Value + Environment Expanding environmental effects Phenotype = Avg + Breeding Value + Age + Heterosis + Contemporary Group + Unknown Rearrange to solve for breeding value Breeding Value = Phenotype - Avg - Avg -Heterosis - Contemporary Group - Unknown

