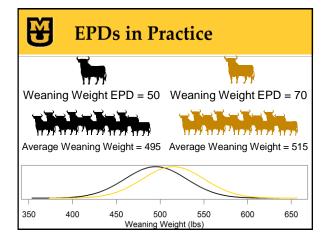
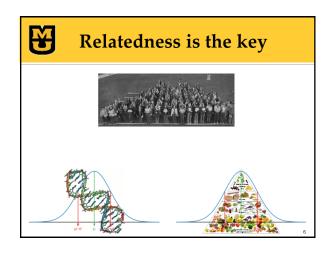


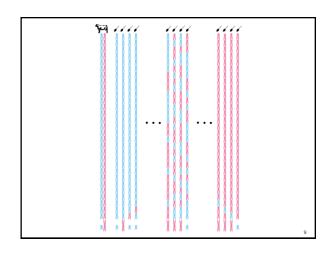
EPDs Defined Expected • Future, average, mean Progeny • Offspring Difference • Implies comparison between animals • NOT phenotypic performance

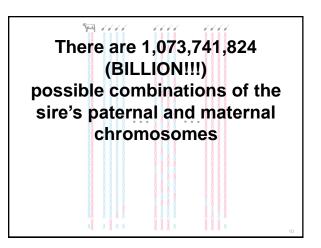




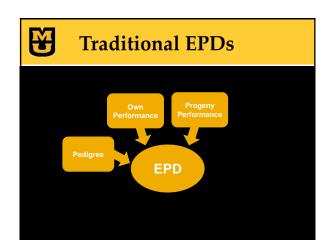


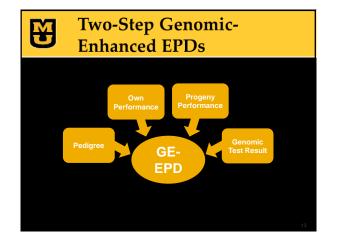


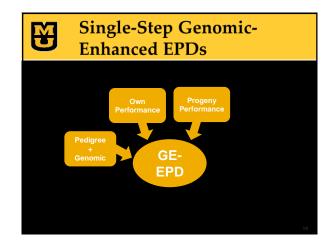


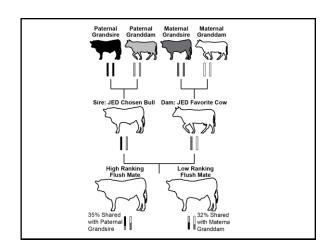




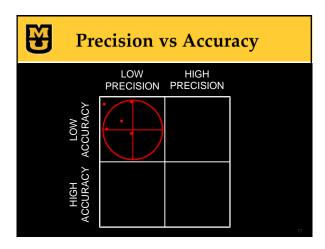


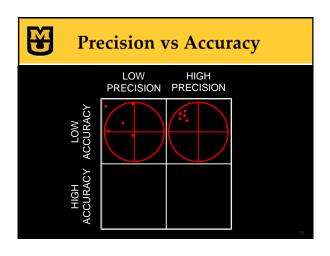


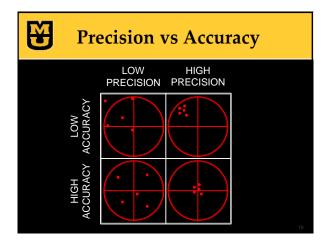


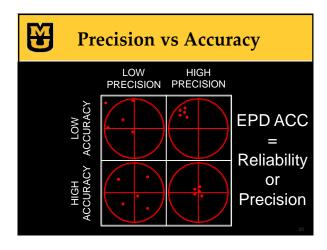


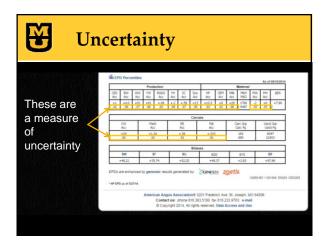


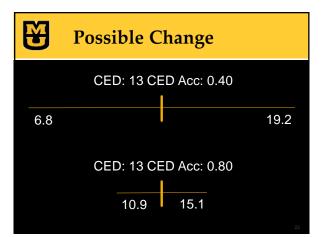




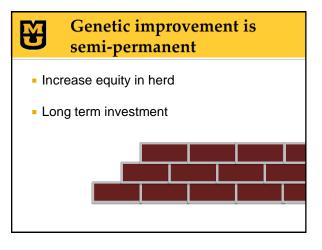


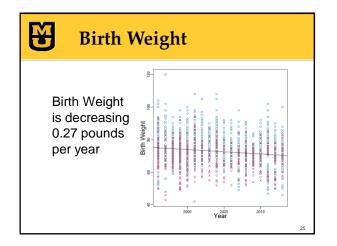


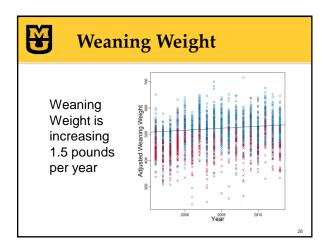


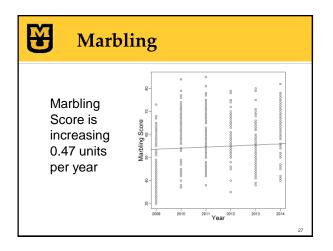


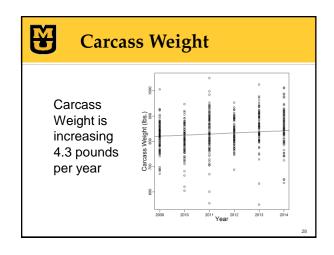












DOs and DON'Ts

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- DON'T double count information
 - Actual birth weight, birth weight EPD, calving ease EPD
 - Reduces accuracy of selection
- Limits ability to accomplish goal!!!

DOs and DON'Ts

- Do select using economically relevant traits
- DON'T select using indicator traits
- Limits ability to accomplish goal!!!

What would you do... If you were driving from Columbia,

Missouri to Ft Worth, Texas?

Have a Plan





Have a Plan

- Why would I want to develop a plan (a.k.a. breeding objective)?
- Focus selection decisions on our economic well being
- Make selection decisions more accurately and consistently
- Simplifies evaluation of candidates for selection

Courtesy of Michael MacNeil



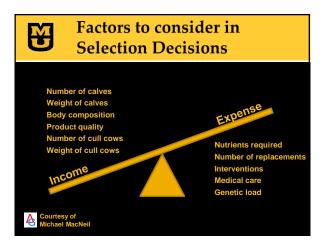
Questions

- That is a lot of EPD to consider at one time genetic improvement would be faster if I considered few traits, right?
- That depends on how you define "genetic improvement"
- Individual traits would change more quickly by considering fewer of them
- But, what trait should we be maximizing?

Courtesy of Michael MacNeil

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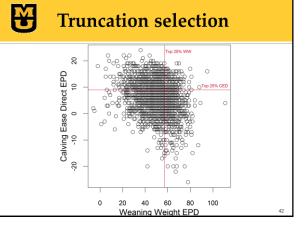
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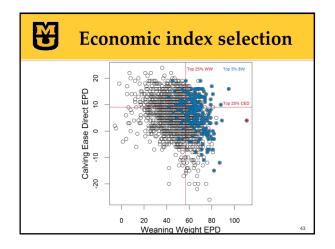
What is an economic index?

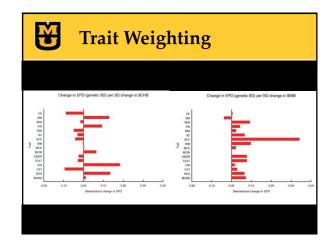
- Combination of EPDs weighted according to their economic importance
- Expressed as a dollar value
- Breeds have different indexes
- Different indexes for different marketing endpoints

Why Selection Indices?

- Profit Motivated
- Breeding Objectives Compatible
- Multi-trait Selection
- Simple









- HB vs HB w/o Carcass & Feedyard = 0.89
- HB vs HB w/o Stayability = 0.74

