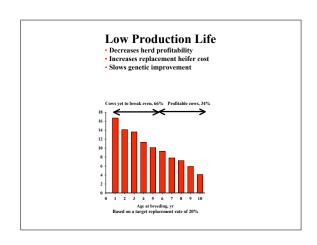
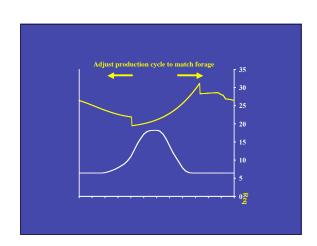


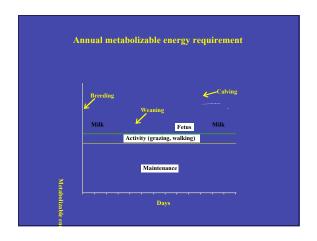
## Factors affecting cow efficiency • Feed efficiency • Production life

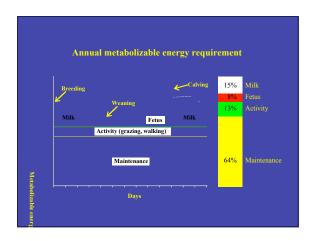


## Contributors to production life

- Fertility
- Weight of calf weaned
- Udders structure/health
- Feet and leg structure/health
- Dental wear
- Temperament





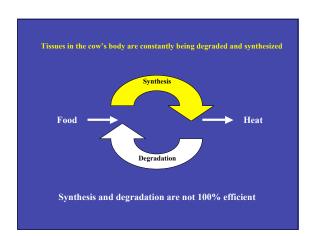


A cow is at maintenance when she is neither gaining or losing energy
(No change in body weight)

Inputs (feed energy) = Outputs (heat energy)

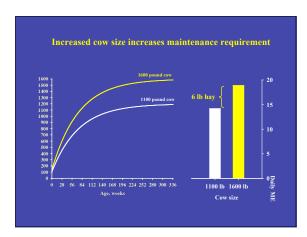
Factors affecting maintenance

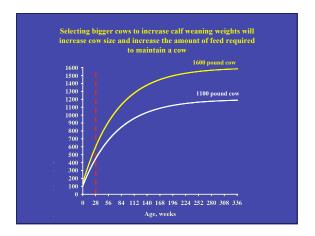
• Cow size
• Milk production potential
• Genetics

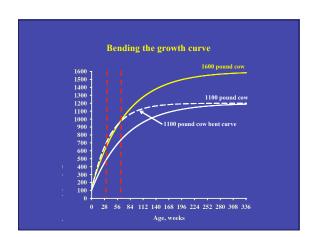


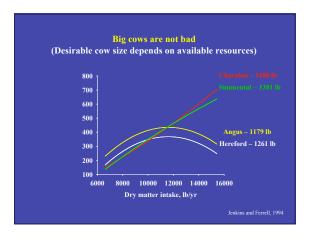
The more tissue that is maintained, the more food energy is required to maintain the tissue

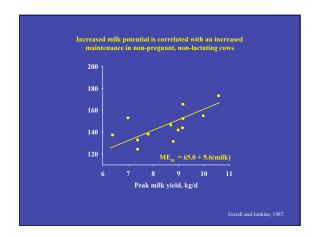
Bigger cows take more feed to maintain their weight

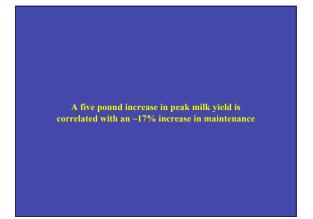




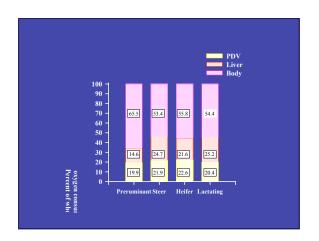


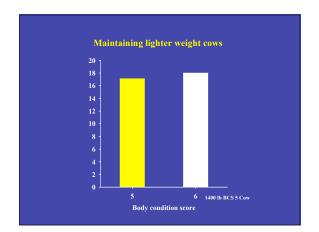


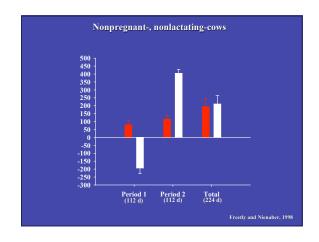


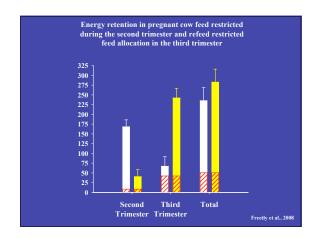


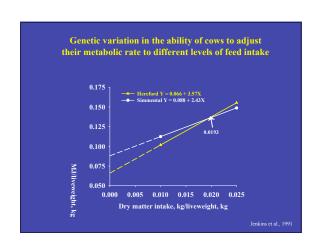
Metabolic energy required for maintenance of nonpregnant, nonlactating mature cows	
Breed Cross	Daily Maintenance kcal/kg <sup>0.75</sup>
Angus-Hereford	130
Charolais – X	129
Jersey – X	145
Simmental - X	160

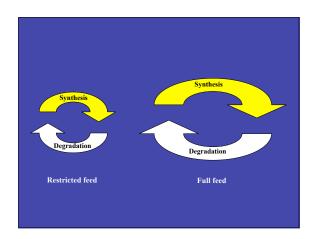


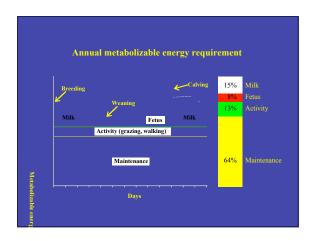






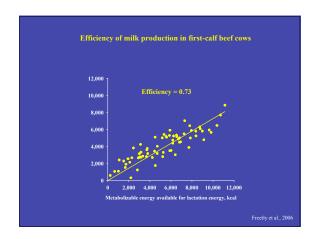


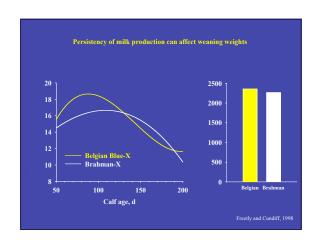


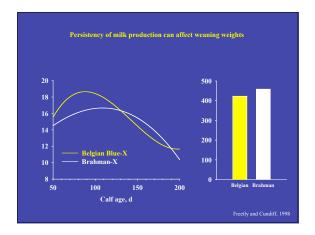


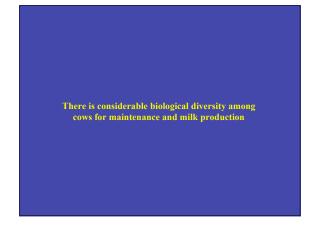
## Milk • Milk yield • Persistency of lactation











Development of marker-assisted technologies offer an opportunity to select cows for difficult to measure traits like maintenance

Fitting cows to your operation requires defining your resources and market end points, and then fitting the biological type to your environment

A good cow in one production environment may not be a good cow in another environment Take advantage of the diversity that different types of cows offer in establishing a cow herd