



Research Project





Joint Effort

- GSF
 - CSA
 - U of Guelph (Steve Miller)
 - SRC/Genserve
 - NSERC
 - RAK (Bob Kemp, Sean McGrath)
 - Canadian Simmental Breeders
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- Project is to include a variety of M.Sc. and Post Docs located at U of G and SRC



Leverage Existing Data

- EXAMPLE:
- Over 1.1 million pedigree entries
- 921,000 Birth weights
- 789,000 Weaning weights
- 324,000 Individual breeding records
- 8,231 DNA samples on the cow herd
- 20,000 DNA samples on file with Genserve



Other CSA Data

- Calving Ease
- Calf Vigour
- Mothering Ability
- Teat and Udder Scores
- Mature size and Body Condition
- Temperament
- Scrotal Circumference
- Ultrasound / Carcass / Meat Quality Data



Project Goals

- Collect additional data on difficult to measure traits such as feed intake, meat quality, etc.
- Explore and evaluate traits
 - Fertility
 - Longevity
 - Growth
 - Efficiency
 - Meat Quality
- Develop SNP DNA assisted technologies for use in Simmental and Simmental influenced populations using 50K SNP technology



Deliverables

- Simmental specific DNA panel for traits of importance
- Incorporation of DNA SNP results into genetic evaluation of Simmental
- Breeding strategies and extension material
- Breeding tools for the larger beef industry

