



Icelandic Sheep Breeders of North America

Volume 6, Number 1 Winter 2002
Editor, Kathy Hayes

Rhinebeck Presentation on Southram Station and Icelandic Sheep Farming

Gudmundar Johannasson

Sheep Farming in Iceland seasons:

December: breeding season
December: May - housing season
February - March: shearing season
May: lambing
June - August: grazing season
September: sheep gathering
September - November: lamb finishing and slaughtering

Sheep Breeding/Recording in Iceland

- Approximately 470,000 winterfed sheep in Iceland
- 1,025 farms keep records for a total of 217,599 winterfed sheep
- Average farm size is about 212 sheep
- Average autumn weight (October) of ewes is 65 kg (143 lbs.)
gaining up to 76 kg. (167.2 lbs.) in April, before lambing
- Average litter size is 1.81
- Low incidence of triplets or bigger litter size; only about 5% of the ewes
- Ovulation rate varies much less than other breeds (80% have two corpora lutea)
- Average meat production per ewe is 27.2 kg (59.84 lbs.)
- Highest meat production per ewe on one farm is 41.3 kg (90.86 lbs.)
- Average wool production per ewe is 2.14 (4.708 lbs.)

Sheep Recording - What is Recorded?

- Weight in October, January and April
- Horned or polled
- Health
- Father of lambs
- Number of lambs
- Fleece weight

Lambs:

- Father and Mother
- Date of birth
- Sex and color, health
- Live weight before slaughtering
- Carcass grading
- Ultrasound measures if scanned

SOUTHRAM - www.bssl.is

South Iceland Sheep Breeding Center

- is a subcompany owned by farmers in the region
- about 10,000 ewes AI'd by fresh semen from Southram each year
- Exportation of frozen semen to USA
- Inquiries from UK, Jordania, Denmark, Lithuania, etc.
- Non return 72% (one vaginal AI) - 76% (one laporoscopic AI)

Selection of Sires

- Sires are selected after progeny testing on the farms
- Outstanding carcass grading of progenies noted in sheep records
- Performance of daughters, milking abilities and/or prolificacy
- Breeding value calculated by BLUP (Best Linear Unbiased Prediction)

Evaluation and Judging of Sheep/Measuring and Conformation Scoring

Measures:

- Chest circumference, cm
- Back broadness, cm
- Leg length (left front leg) mm
- Eye muscle thickness, mm
- Back fat thickness, mm

Conformation Scoring

- Head
- Neck and Shoulders
- Chest and Conformation
- Back
- Loins
- Leg Muscle
- Wool
- Feet
- Harmony

Evaluation and Judging of Sheep/Ultrasound Scanning

- Ultrasound measuring of eye muscle and muscle shape scoring predicts total muscling of the carcass
- Ultrasound measuring of back fat predicts the total fat of the carcass
- Ultrasound measuring leads to selecting and breeding for more meat and less fat which translates to more meat for the consumer

Progeny Testing of Sires

Progenies are evaluated by:

- Measuring and conformation scoring
- Ultrasound scanning measuring eye muscle and back fat thickness along with muscle shape
- Wool characteristics
- Carcass grading, including leanness

All calculated into what is called a "meat quality index"

The breeder can select "meat/fat ratio" in the "meat quality index"

Results:

Monitoring of sire's performance by their progenies, meat quality and mothering abilities through progeny testing and sheep recording on the farms.

- All this gives ability to produce better meat in a more economical way for the benefit of the consumer

Southram: the Future

- Testing new semen concentrates being able to offer fresh semen that lives longer, up to 4 days.
- Changing freezing methods, offering semen for good results with cervical AI instead of laparoscopic AI
- Breeder can do the insemination, rather than hiring a veterinarian
- Embryo transfer
- Courses on insemination and breeding for foreign breeders