

Dale Bumpers Small Farms Research Center Mission: To develop scientific principles and technologies to enhance the profitability of small scale farms.







Haemonchus contortus or Barber Pole Worm

- A blood sucking worm
- Very prolific one adult female can produce 5,000 eggs per day
- Short life cycle about 3 weeks from time of infection until eggs are produced
- Affects weak, young, pregnant, or lactating animal













Using NSIP to select for parasite resistance NSIP • NSIP allows recording of FEC at 2 different ages: • Weaning (42 to 90 d) • Postweaning (90 to 150 d) • Weaning FEC are generally collected at the time

 Weaning FEC are generally collected at the time the lambs are first dewormed. In flocks using FAMACHA, producers are encouraged to collect weaning FEC prior to treating more than a small percentage of the lambs.























Progeny-Tested Sires in NSIP

- A -100 EBV thus predicts a 100% reduction in average progeny FEC relative to the mean, and is the lower limit for FEC EBVs. Note that a number of sires approach that limit.
- There is no upper limit. For example, a +150 EBV predicts that progeny will have means for FEC that are 150% above average.
- Variation within the population: the more variation that is present, the easier it is to identify the best.

D. Notter, 2012; NCERA-214 Symposium, Spencer, IA









Genetic Selection

- Selection for certain traits are useful to meet farm goals. Select for moderate to high heritability traits.
- National Sheep Improvement Program: genetic selection of sheep based on performance using Estimated Breeding Values. For more information, nsip.org.

