

HETTINGER RESEARCH EXTENSION CENTER SCRAPIE INCIDENCE REPORT

Scrapie Calendar of Events

- A. March 2002 NDSU announces presence of scrapie in the Fargo flock.
- B. April HREC sacrifices 16 ewes and 21 lambs that originated in the Fargo flock.
- C. May two yearling Columbia ewes born in Fargo were verified positive for scrapie. Their mothers were also at Hettinger and both were negative.
- D. In late May the HREC flock was put under quarantine. (At this time we did not know if there were positive animals in the HREC flock or if the two from Fargo were the only positively infected animals.)
- E. The decision was made to bleed purebred lambs and mature ewes with commercial lambs being indemnified.
- F. June Bleeding Began
 1. ARS (90 head)
 2. Sunny Farm (248 head)
 3. MRCC (448 head)
 4. Prison (116 head)
 5. Camp Grafton (250 head)
 6. HREC (360 head)(* All AQR@and ARR@were re-bled.)

Sheep That Were Indemnified

1. April 37 Columbia ewes and lambs
2. June 100 ewes and 357 fall lambs
3. July 100 ewes and 325 Spring lambs
4. August 299 ewes
5. September 15 lambs and 7 ewes
6. December 36 ewes and 6 lambs
(From re-bleed)

Re-bleeding Information

1. Seventeen head were reclassified to AQQ@status.
2. Nineteen were reclassified as Apending@
3. Eight lambs were born of reclassified AQQ@ewes from unknown sires.
(Bred prior to knowledge of the presence of Scrapie)

Facilities Impact

- Facilities exposure was confined to the confinement barn at HREC.
- The infected ewes lambled only once at HREC and their infection was verified before they left the confinement barn.
- Three inches of soil was removed and five inches was replaced.
- The whole facility was washed down with chlorine.

Project Impact

- All current breeding projects have been terminated.
- Has had no impact on grazing research projects
- Current out of season lambing work was nearing completion.
- The lean lamb project was terminated.

SCRAPIE BREAKDOWN - COLUMBIAS

Year Born	QQ	QR	RR	Unknown
1996	5	2	0	
1997	8	3	1	
1998	8	0	0	
1999	12	5	1	
2000	12	12	1	
2001	12	20	5	
2002	45	6	1	21

SCRAPIE BREAKDOWN - COMMERCIAL SHEEP

Year Born	QQ	QR	RR	Unknown
1995	14	2	1	
1996	46	26	12	
1997	121	100	34	
1998	61	70	17	
1999	116	67	22	
2000	89	82	32	
2001	137	173	31	

SCRAPIE BREAKDOWN - PURCHASED COMMERCIAL REPLACEMENTS

Year	QQ	QR	RR
2002	40	126	64

SCRAPIE BREAKDOWN - TOTALS

Columbias
Commercials
Replacements

*R-Gene frequencies between main flock and replacements might raise some questions.