Saskatchewan Program Updates

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Programs

- Rabies response program
- Anthrax response program
- BVD screening and control program
- Johne’s disease screening and control program

SK Rabies response program

- Multiple partners
  - Veterinarians/vet clinics
  - CFIA
  - Ministry of Health
  - Ministry of Agriculture

- Contact information
  - Rabies hotline: 1-844-7-RABIES (1-844-772-2437)
  - Email: RRAV@gov.sk.ca

Rabies surveillance

- Response program deals with rabies suspects having contact with humans or domestic animals
- Separate surveillance program for non-contact rabies suspects
  - Bats anywhere, foxes (esp. north), any wildlife with clinical symptoms (except skunks)
  - Skunks – leading edge of enzootic zone
  - Contact local conservation office or CWHC

Graphs showing data on rabies suspects from 1998 to 2016.
SASKATCHEWAN SKUNK RABIES DISTRIBUTION OF CONFIRMED CASES 2000 - 2016

2016 cases to date: 20 skunks, 14 bats, 2 cats, 1 dog, 1 bovine, 1 equine, 1 sheep, 1 goat

(plus 10 bats under the surveillance program)

SK anthrax response program

- Anthrax testing
  - Carcass-side test kits
  - Free testing at PDS
- “Designated representative”
  - Deliver QO and information materials
  - Inspects site
  - Makes recommendations for carcass control & disposal, C&D, vaccination
  - Verifies carcass disposal, C&D, removes QO

www.svma.sk.ca

SK anthrax cases – 2013 to 2016

- 2013 – 0
- 2014 – 1
  - RM of Preeceville No. 334
    - Bovine (3 cows, 2 bulls) – December; feed related
- 2015 – 3
  - RM of Paynton No. 470
    - Bison (6 cows, 3 calves, 1 bull) – July
  - RM of Harris No. 316 (x2)
    - Bovine (1 cow, 2 calves) – July
    - Bovine (3 cows) – December; feed related
BVD screening and control

- Program pays for testing (ear notch), and cost of shipping samples to PDS*
- Cow-calf producers
- Test calves – aborted, dead, deformed, sick
- Test yearlings if still on farm of origin and signs consistent with BVDV

*if using pre-paid Purolator labels

If positive BVD test...

- $500 reimbursement to producer for “veterinary consultation fees” to develop customized BVD control program

SK BVD positive tests June 2014 - November 2016 (98% NOT tested under this program)

<table>
<thead>
<tr>
<th>Positive tests (research excluded, serum neutralization excluded)</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorescent Antibody (V)</td>
<td>3</td>
<td>13</td>
<td>3</td>
<td>19</td>
</tr>
<tr>
<td>Immunohistochemistry (IHC)</td>
<td>1</td>
<td>31</td>
<td>32</td>
<td>64</td>
</tr>
<tr>
<td>Real Time PCR</td>
<td>3</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>4</td>
<td>47</td>
<td>35</td>
<td>86</td>
</tr>
</tbody>
</table>

Johne’s Program

- SK Stock Growers Association
- Application based
- Whole-herd testing for Johne’s
  - 250 head limit
  - ELISA
- Risk Assessment and Management Plans (RAMP)
Johne’s Program (cont’d)

• Eligibility
  – Any SK cattle producer
  – Can re-apply every 2nd year

• Costs covered
  – Laboratory costs
  – Vet fees for blood collection
    • hourly
    • Mileage
  – Consumables
  – Shipping

Johne’s Program (cont’d)

• Results to date (Nov ’13 – Mar ’16)
  – #cattle tested: ~7900
    • #cattle positive: 200 (2.5%)”
  – #herds tested: 62 (50 unique herds)
    • 10 herds tested 2x, 2 herds tested 3x
    • #herds positive: 37/50 (74%)
    • Within herd positives: up to 25%”

• Does NOT represent overall prevalence in SK!
  – Only 8 (16%) did not suspect/know Johne’s was present
  – 6/8 (75%) were right

Johne’s Program (cont’d)

• Caveat – what about herds with only 1 or 2 positive tests? (the case of false positives)
  – “How positive is it?”
  – ELISA interpretation:
    • <=0.45 Negative
    • >0.45 and <0.55 Suspect
    • >=0.55 Positive
Johne’s commercial ELISA: serum

“Not intended to be interpreted as an individual cow test. If utilized individually then PCR confirmation recommended on feces. It should also be noted that there is a subset of animals that may be negative on this ELISA but still shedding MAP”

3x participation....

- Producer 1
  - 2013: 18 (24%)
  - 2014: 4 (5%)
  - 2016: 9 (9%)

- Producer 2
  - 2013: 1 (0.7%)
  - 2014: 0
  - 2016: 3 (1.7%)

saskatchewan.ca

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