

BOVINE TUBERCULOSIS

Protecting the health of your cattle



Minnesota Board of Animal Health

651-201-6831

www.bah.state.mn.us

Bovine Tuberculosis

- Caused by bacteria.
- Slow growing organism. Long incubation period.
- Organism survives longer in moist, cool environments.
- Wide range of species susceptible.
- Spread from animal to animal.
- Chronic disease.

Signs of TB in Cattle

- May cause wasting and respiratory disease.
- Most of the time, there are **NO** signs!



Bovine TB Tests



Caudal Fold Test

Comparative Cervical Test



COMPARATIVE CERVICAL, TUBERCULIN TEST RESULTS					
NAME OF HERD OWNER (Last, First, Middle Initial)			ADDRESS (Including Zip Code)		
COMPARATIVE TEST		INJECTION DATE		PRIOR CAUDAL TEST	
NUMBER TESTED		NUMBER TESTED		DATE INJECTED	
COMPARATIVE REACTION		OBSERVATION DAYS		NEG. REV. SUB. REA.	
<input type="checkbox"/> 1ST	<input type="checkbox"/> 2ND	<input type="checkbox"/> 3RD			
NAME OF VETERINARIAN			TITLE		DATE

The graph plots Cervical Response (Mikrazon) on the y-axis against Bovine Tuberculin Response (Mikrazon) on the x-axis. Both axes range from 0 to 17. The graph is divided into three zones by diagonal lines:

- Negative for *M. bovis* Zone:** The area above the upper diagonal line, where Cervical Response is greater than Bovine Response.
- Suspect Zone:** The area between the two diagonal lines, where Cervical Response is between 1/2 and 2/3 of Bovine Response.
- Reactor Zone:** The area below the lower diagonal line, where Cervical Response is less than 1/3 of Bovine Response.

VE FORM 6-29D (NOV 77) PART 1 STATE - REGAL OFFICE



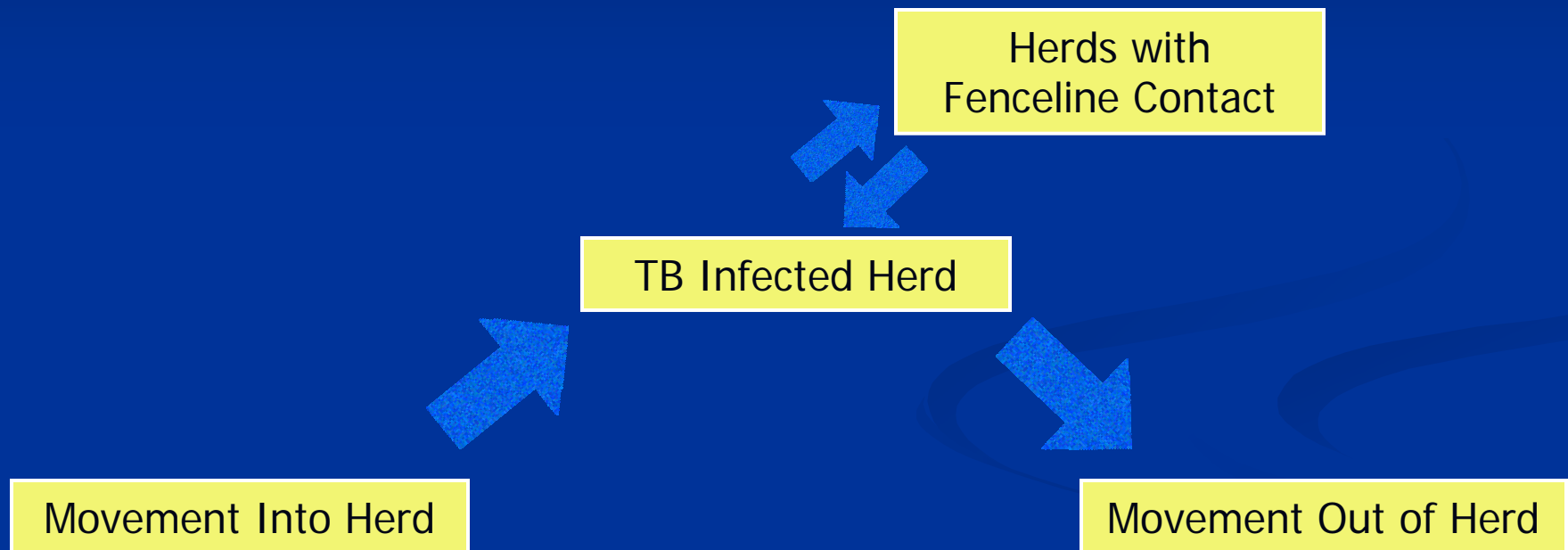
Necropsy

Bovine TB Lesions

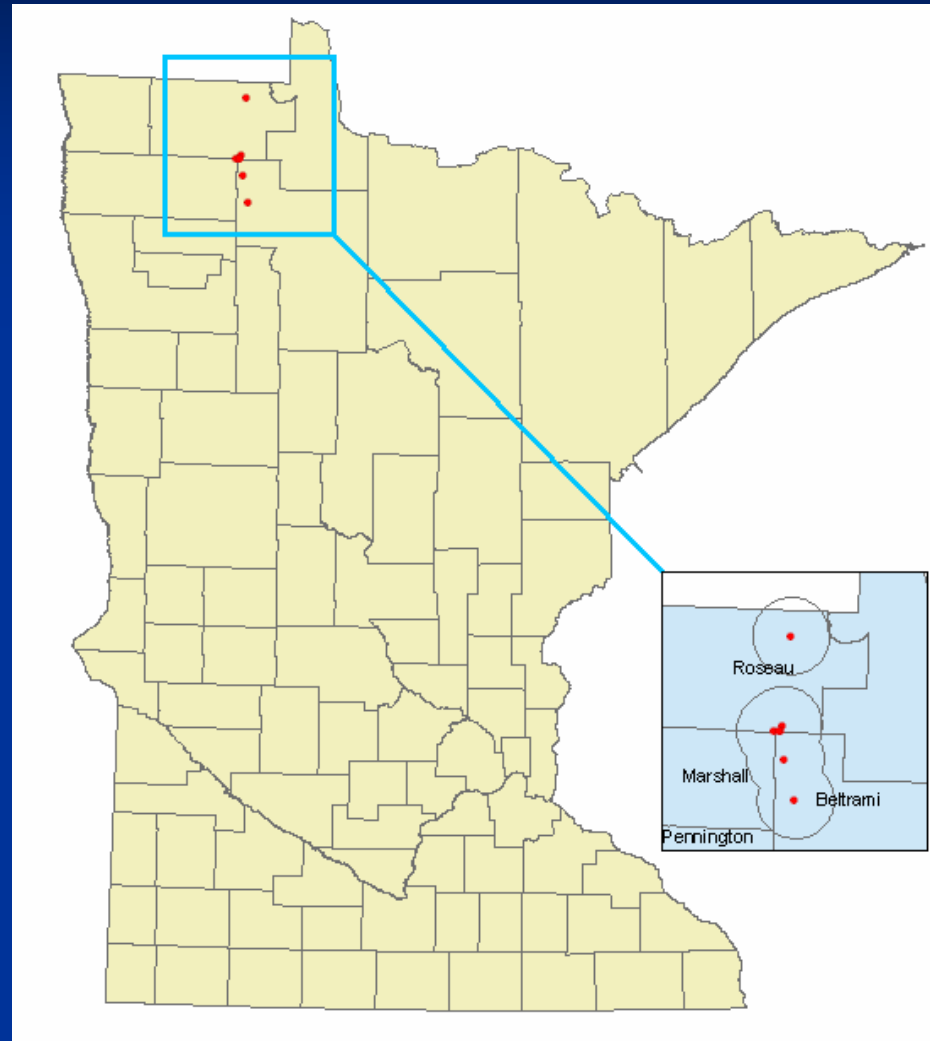


TB in Minnesota

TB Investigation



Seven Infected Herds in Minnesota



5 in Roseau County

2 in Beltrami County

Minnesota's TB Status

• Accredited-Free (AF)

• **Modified Accredited
Advanced (MAA)**

• Modified Accredited
(MA)

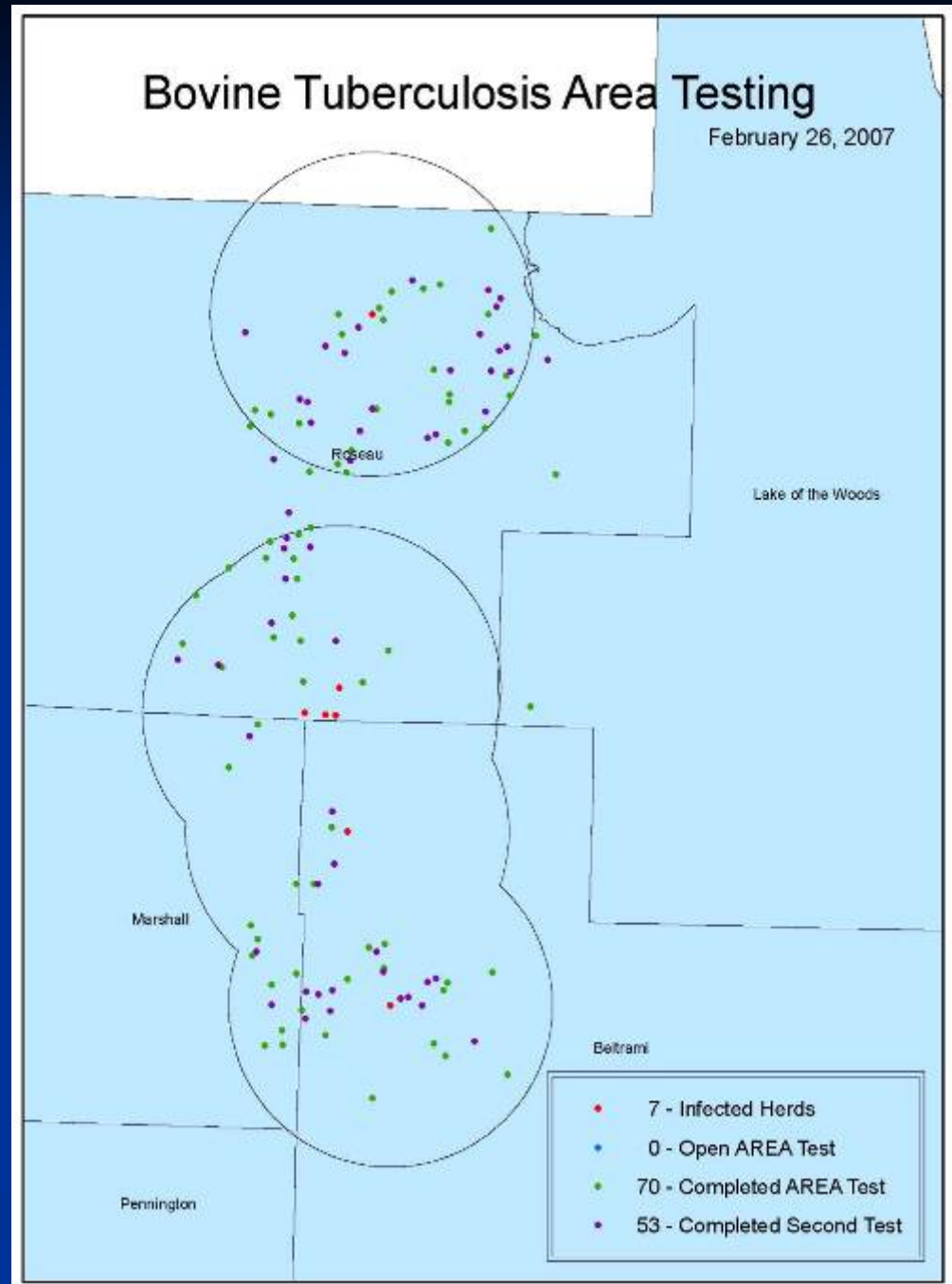
• Accreditation
Preparatory (AP)

• Nonaccredited (NA)

- Minnesota is now a Modified Accredited Advanced state.
- Bovine TB Management Plan will be our roadmap to regain status.

Northwestern Minnesota Bovine TB Testing

- Test cattle within 10 miles of an infected herd.

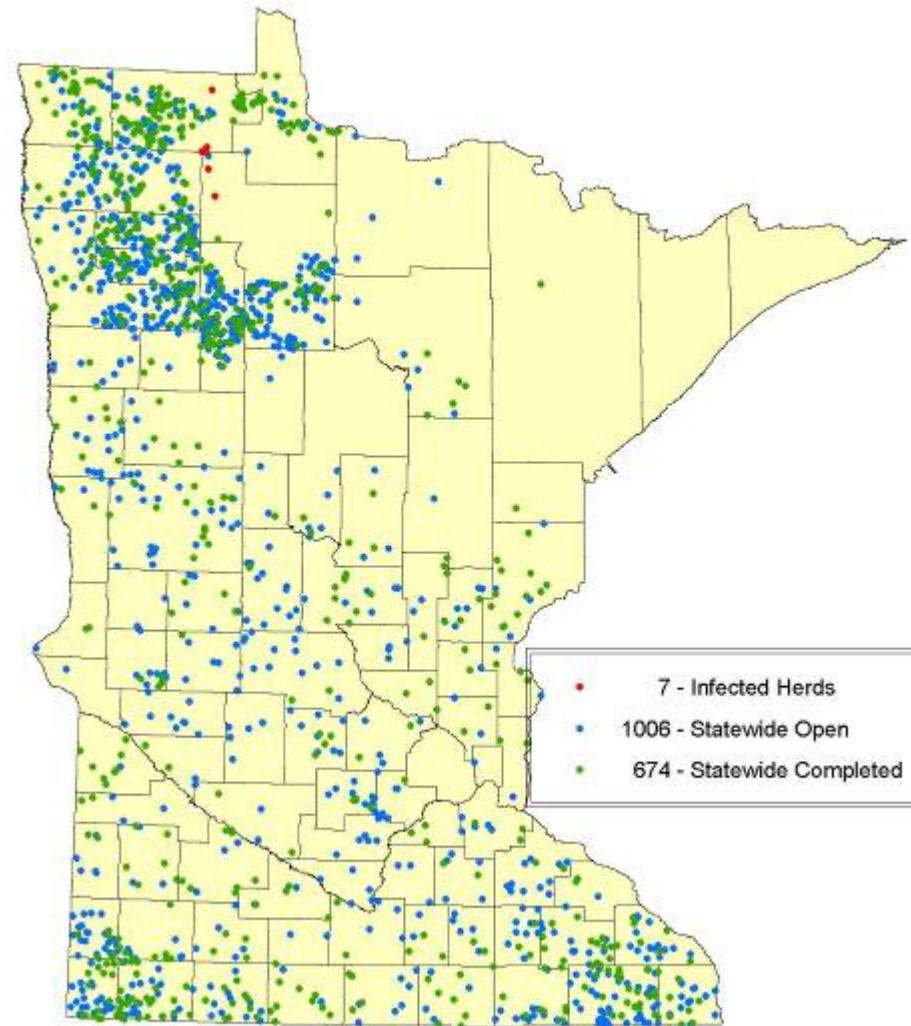


Statewide Bovine TB Testing

- Producers that have imported cattle from Arizona, California, Colorado, Kansas, Nebraska, New Mexico, Nevada, Oklahoma, North Dakota, Texas, Utah, and Iowa.
- Any herds that have or have commingled with rodeo or roping steers.
- Any herd that moves cattle over state lines for feeding.

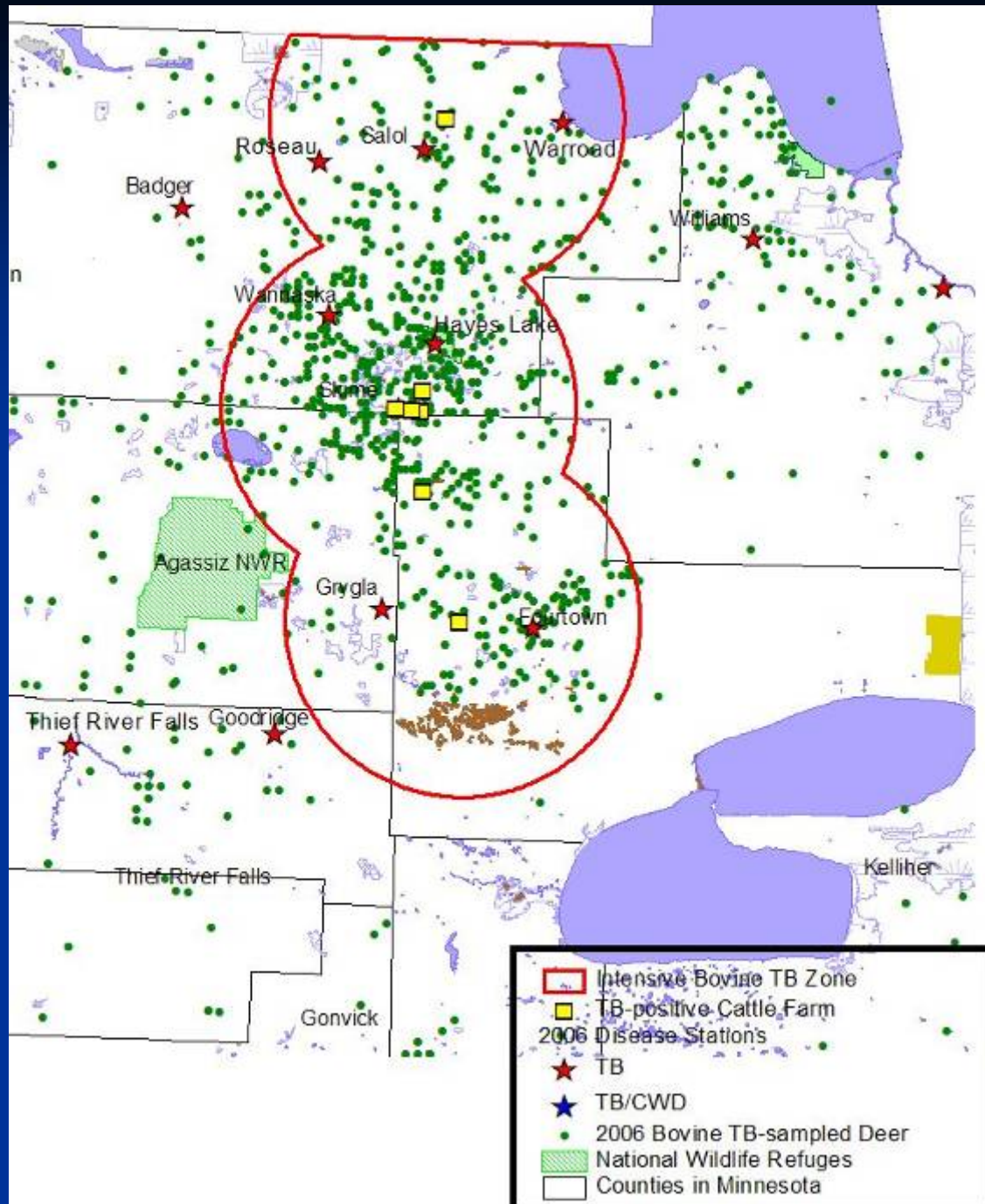
Statewide Bovine Tuberculosis Surveillance

February 26, 2007

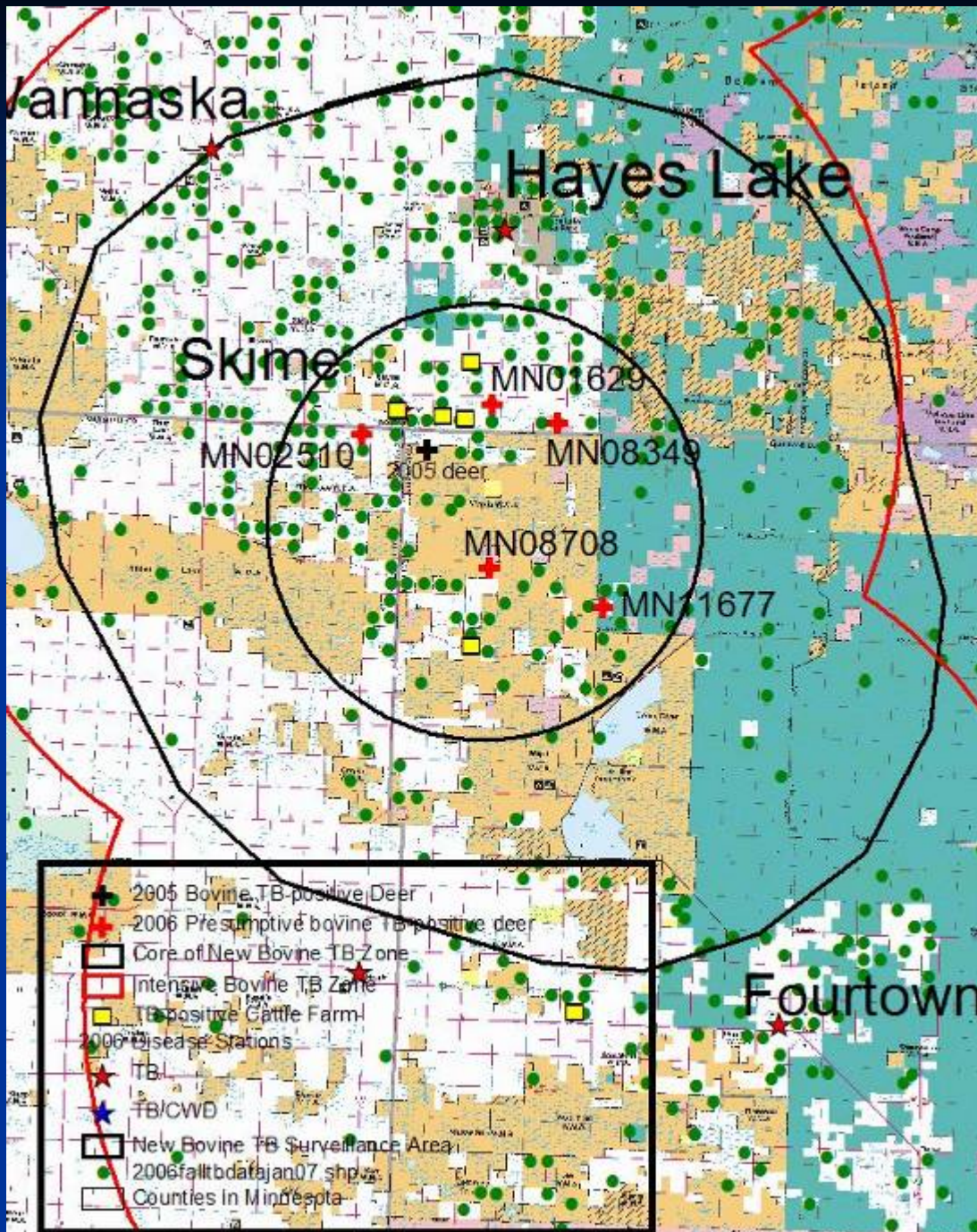


Wildlife TB Testing

- DNR tested hunter harvested free-ranging deer statewide this fall.
- 5000 samples were collected across Minnesota.
- 5 deer in NW Minnesota tested positive.



TB Wildlife Management Plan



- Goal: Reduce the opportunity for deer-to-deer or deer-to-livestock transmission of by removing potentially TB-positive deer.
- Reduction of deer through:
 - Sharp shooting event
 - Landowner shooting permits
 - Expanded bag limits
 - Special hunts
 - Fencing for stored farm forage
 - Recreational feeding ban
 - On-farm risk management

TB Tax Credit

- Producers can receive 50% of their testing costs back in a tax credit.
- The credit applies to the following producer paid expenses
 - Veterinarian fees
 - Labor expenses
 - Equipment rental fees
- Talk to tax professional for more information.


What can you do to help?



- Test cattle.
- Implement good biosecurity.
- Keep good records.
- Register your premises with Minnesota's animal identification system.

For more information ...

- Your herd veterinarian
- District veterinarian
- Board of Animal Health, 877-MN TB Free (688-2373)
www.bah.state.mn.us



Minnesota
Board of Animal Health
Safeguarding domestic animal health in Minnesota

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Minnesota Bovine TB Investigation: Current Updates

December 20, 2006 - TB Tax Credit available to cattle producers
Minnesota cattle owners paying for bovine tuberculosis (TB) testing for their cattle can offset the costs of that testing with a new tax credit offered beginning this year. The bovine TB testing credit is a refundable credit that allows cattle owners to claim a credit against their taxes for an amount equal to one half of the expenses incurred to conduct TB testing. [Click here to read more.](#)

November 29, 2006 - Deer feeding restrictions established to reduce bovine TB transmission
In an effort to reduce the possibility of bovine tuberculosis (TB) transmission among wild deer and elk, supplemental deer feeding has been banned this winter in a 4,000-square-mile area of northwestern Minnesota, the Department of Natural Resources (DNR) announced today. [Click here to read more.](#)

October 31, 2006 - Seventh infected herd discovered
The Board of Animal Health announced today that a seventh bovine TB-infected herd was discovered in Beltrami County. The additional infected herd was identified through 10-mile area tests. [For more information, click here.](#)

[For the full TB investigation history, click here.](#)

Maps of the TB investigation

Area testing
This map shows an update on the herds tested within a 10-mile radius of an infected herd.



Disease investigation
Herds that bought animals from or sold animals to the infected herds were also tested. This map shows an update on the testing of these herds.



Infected herds
Seven infected herds have been located, all in the northwest corner of Minnesota.



Statewide surveillance
Approximately 1500 herds statewide will be tested that meet certain criteria. This map shows the progress of this testing.

