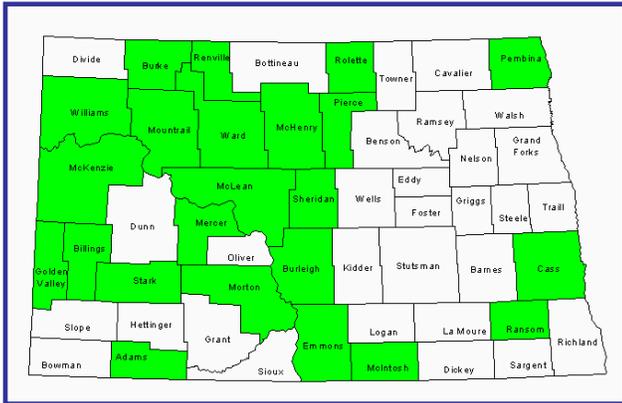


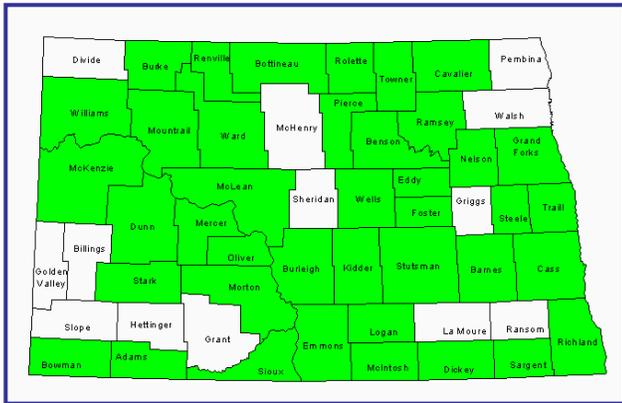


**Figure 3. WNV-Positive Equine Cases by County\* of Submission, North Dakota, 2003**  
 (\*Counties with WNV cases in green)



In addition, 823 birds were collected and sent either to the VDL or the United States Geographical Survey National Wildlife Health Center in Madison, Wisc. for WNV testing. One hundred and sixty-eight birds belonging to more than 25 different species were positive for WNV (Table 1). Birds were submitted for WNV testing from 50 of North Dakota's 53 counties. WNV infected birds were identified in 40 counties (Figure 4).

**Figure 4. WNV-Positive Avian Cases by County\* of Submission, North Dakota, 2003**  
 (\*Counties with WNV cases in green)



In 2003, statewide mosquito monitoring using New Jersey mosquito traps was expanded from 53 to 87 trapping sites. Female *Culex tarsalis* counts peaked the last week of July. Counts dropped off slightly but remained at similar levels until the end of August. Live trapping of mosquitoes was established at nine separate

sites throughout the state and was conducted weekly from July 1 through Sept. 18, 2003. Testing of 96 mosquito pools resulted in 11 pools with WNV-antibody positive results from five counties. County-specific data is listed in Table 2

**Table 1. WNV-Positive Bird Species, 2003**

North Dakota Bird Species	# WNV-Positive
American Robin	13
American White Pelican	5
Black Capped Chick	1
Blackbird	6
Blue Bird	1
Blue Jay	15
Bobolink	4
Canada Goose	3
Cedar Waxwing	4
Chickadee	8
Crow	51
Eastern Bluebird	2
Finch	8
Goldfinch	2
Grackle	4
Great Horned Owl	1
Hawk	2
Kingbird	1
Magpie	1
Merlin	1
Mourning Dove	2
Owl	1
Ring-billed Gull	3
Sharp Skinned Hawk	2
Snowy Owl	4
Sparrow	14
Swallow	2
Unknown	2
Wren	2
Yellow Finch	3



**Table 2. Number of WNV Cases Per County, North Dakota, 2003**

County	Human	Horse	Bird	Mosquito Pools
Adams	7	1	1	
Barnes	4		1	5
Benson	3		1	
Billings	1	1		
Bottineau	5		4	
Bowman	11		1	
Burleigh	98	5	21	1
Cass	32	2	12	
Cavalier	1		4	
Dickey	18		1	
Divide	1			
Dunn	13		1	
Eddy	2		2	
Emmons	7	3	2	
Foster	6		3	
Golden Valley		1		
Grand Forks	2		10	2
Grant	7			
Griggs	3			
Hettinger	3			
Kidder	3		1	
LaMoure	26			
Logan	4		3	
McHenry	18	1		
McIntosh	4	1	1	
McKenzie	10	1	1	
McLean	28	1	8	
Mercer	17	1	3	
Morton	48	2	7	
Mountrail	6	2	3	
Nelson	2		2	
Oliver	7		1	
Pembina		1		
Pierce	2	1	6	
Ramsey	12		8	
Ransom	11	1		
Renville	7	1	2	
Richland	11		1	

**Table 2. Number of WNV Cases Per County, North Dakota, 2003 (cont.)**

County	Human	Horse	Bird	Mosquito Pools
Rolette	3	3	2	
Sargent	14		3	
Sheridan	6	1		
Sioux	6		1	
Slope	2			
Stark	22	3	6	
Steele			1	
Stutsman	30		13	1
Towner	2		1	
Traill	2		4	
Walsh	7			
Ward	44	4	16	
Wells	5		3	
Williams	29	3	4	2