IDAHO DEPARTMENT OF HEALTH & WELFARE
DIVISION OF PUBLIC HEALTH

West Nile Virus Surveillance Summary Data—Idaho, 2003–2017

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Human Data: WNV infections are reportable in Idaho. Reports are documented in the National Electronic Disease Surveillance (NEDSS) Base System (NBS). Cases are classified as neuroinvasive or non-neuroinvasive. Cases listed as neuroinvasive include the following categories found in NBS: meningitis, encephalitis, meningoencephalitis, polio-like syndrome, and neuroinvasive-other. Positive blood donors are reported by the American Red Cross or the Inland Blood Center.

Veterinary Data: Colleagues from the Idaho State Department of Agriculture and the Washington State University Animal Disease Diagnostic Laboratory provide BCDP with veterinary surveillance data.

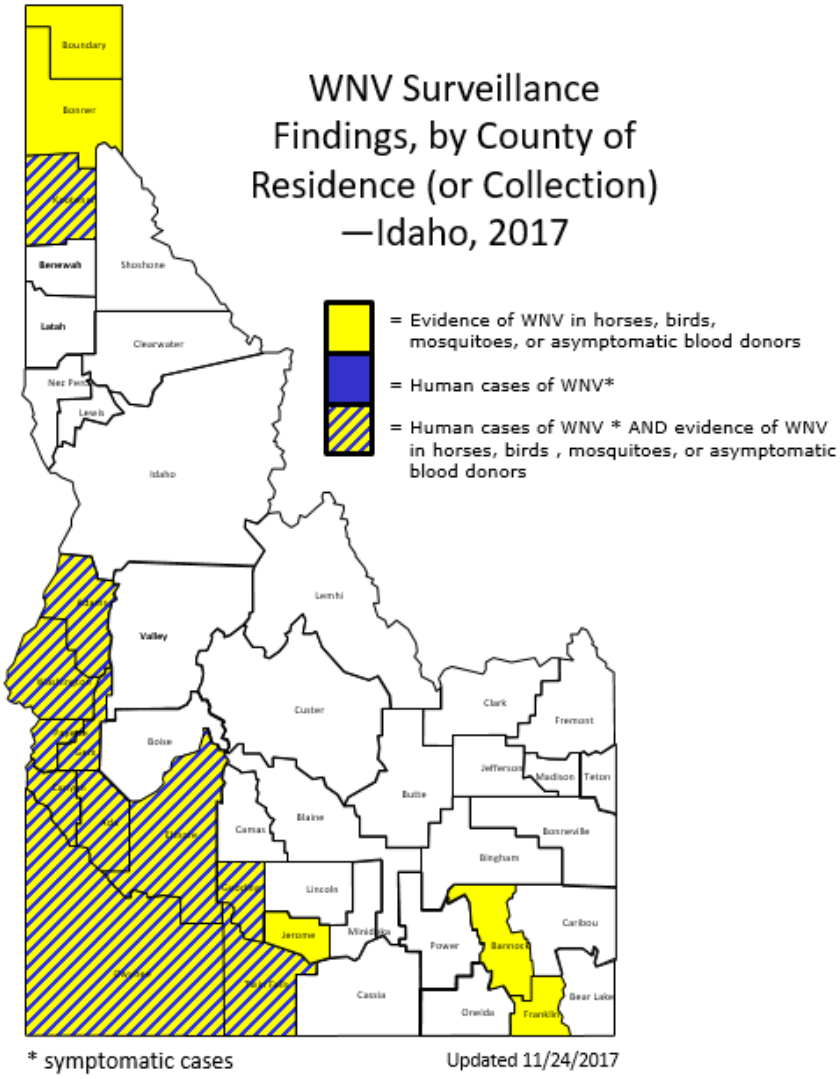
Avian Data: Avian surveillance is conducted by the Idaho Department of Fish and Game (IDFG) and Idaho Public Health Districts. Testing is conducted by IDFG and the Idaho Bureau of Laboratories.

Mosquito Data: Mosquito surveillance is conducted, through contractual agreement with selected mosquito abatement districts and Public Health Districts; participation varies from year to year. Not all counties in Idaho conduct mosquito surveillance or mosquito control.

2017 WEST NILE VIRUS* SURVEILLANCE SUMMARY

- Total reported symptomatic WNV cases: **25**
- West Nile virus-related deaths: **0**
- Asymptomatic presumptive viremic blood donors†: **7**
- Total reported positive horses/other mammals: **8**
- Total reported positive birds: **3**
- Counties reporting positive WNV mosquitoes: **13**
- Counties reporting positive WNV surveillance findings, all types: **16**

*West Nile virus = WNV



WNV- Positive Surveillance Findings, by County of Residence (or Collection), and Event Date—Idaho, 2017

Counties	Humans: Fever (Onset Date)	Humans: Neuroinvasive (Onset Date)	Animals (laboratory test-positive) (Diagnosis Date)	Asymptomatic Blood Donors†	Positive Mosquito Pools, by collection date‡
Ada	3 8/9/2017, 8/17, 9/17	5 8/23, 8/29, 9/13, 9/19, ~11/3	Horse, 8/29/2017 Crow, 9/15/2017	2 9/5/2017, 10/2	7/13/2017 (2), 7/19, 7/26 (2), 7/29, 8/3 (2), 8/4, 8/8, 8/9 (2), 8/10 (4), 8/11 (7), 8/15 (3), 8/16, 8/17, 8/18 (3), 8/23, 8/25 (3), 8/29 (4), 8/30, 8/31 (2), 9/5 (2), 9/7 (2), 9/8 (3), 9/12 (2)
Adams	1 8/23/2017			**2** **9/25/2017 (2)**	7/26/2017
Bannock			Llama, 7/6/2017		5/31/2017, 6/22, 6/27, 6/29(2), 7/12 (3), 7/13 (2)
Bear Lake					
Benewah					
Bingham					
Blaine					
Boise					
Bonner			Horse, 8/18/2017		
Bonneville					
Boundary			Horse, 9/22/2017		7/27/2017
Butte					
Camas					
Canyon	1 9/9/2017	1 9/16/2017		**1** **9/6/2017**	6/21/2017, 6/29, 7/4, 7/5, 7/14, 7/19, 7/27 (2), 8/3 (2), 8/16, 8/24
Caribou					
Cassia					

Clark					
Clearwater					
Custer					
Elmore		1 9/8/2017			7/19/2017 (3), 7/26, 8/11 (10), 8/16
Franklin					9/7/2017
Fremont					
Gem		3 8/23/2017, 9/1, 9/12			7/10/2017 (3), 7/24 (2), 8/7 (3), 8/14 (2), 8/21 (4), 8/28 (2)
Gooding	1 8/21/2017	1 9/1/2017			7/25/2017, 8/3
Idaho					
Jefferson					
Jerome			Horse, 9/14/2017	1 9/7/2017	
Kootenai		1 7/14/2017	Horse, 9/29/2017		
Latah					
Lemhi					
Lewis					
Lincoln					
Madison					
Minidoka					
Nez Perce					
Oneida					
Owyhee		1 8/1/2017	Owl, 8/28/2017 Horse, 9/15/2017		7/11/2017 (2)
Payette	1 8/8/2017	1 8/18/2017	Horse, 8/10/2017 Bald eagle, 9/13/2017		6/20/2017, 7/19, 7/25 (3), 8/28 (2)
Power					
Shoshone					
Teton					
Twin Falls	1 8/28/2017			1 9/12/2017	8/3/2017

Valley					
Washington	2 8/25/2017, 8/25	1 8/10/2017			7/17/2017
Totals: **16** **Total counties with local WNV activity**	**10** **Humans reported with WN fever**	**15** **Humans reported with WN neuroinvasive disease**	**11** **Animals reported with laboratory detected WNV infection**	**7** **Asymptomatic blood donors reported by the Red Cross**	**13** **Counties where mosquito pools were detected by mosquito abatement districts or PHDs**

The data presented are (1) *provisional*, (2) *only* confirmed or probable symptomatic infections, (3) asymptomatic presumptive viremic blood donors identified by the American Red Cross and, (4) *only* Idaho residents.

† The American Red Cross and other blood banks routinely screen all donated blood for a variety of infectious agents in accordance with FDA protocols; WNV is included in such screening activities. All donated blood determined positive for WNV is discarded.

Every attempt is made to assure the accuracy of the information presented on the map and in the table. Numbers and dates presented here may change, based on completed investigations.

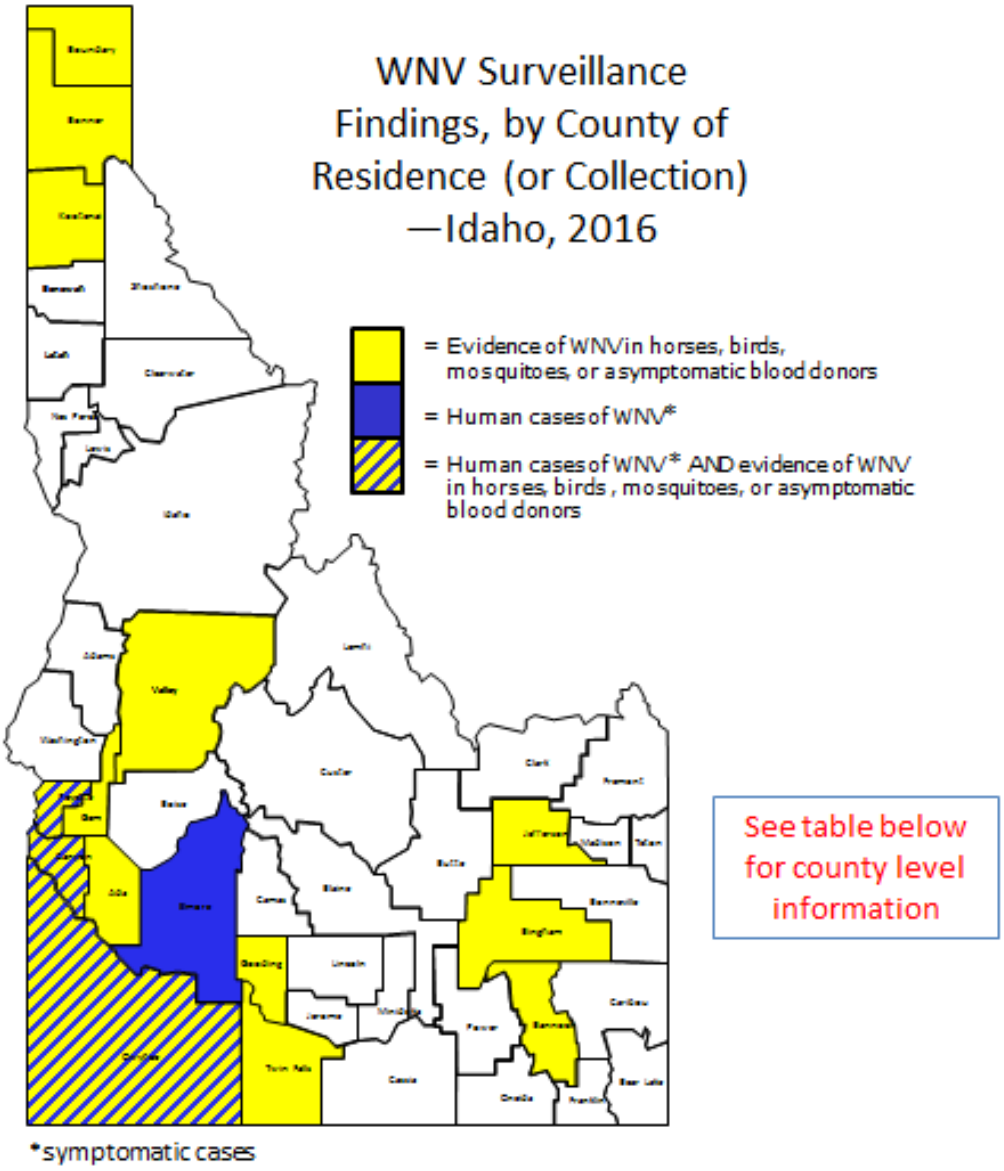
‡Positive mosquito pools are noted by collection date; testing takes several days after collection before results are available.

Mosquito surveillance is not done statewide.
Idaho taxing districts for mosquito abatement districts are shown in the link:
https://tax.idaho.gov/ptt/gis/2016TaxDistricts/Mosquito_Abatement/Mosquito_Abatement.pdf

A subset of these counties conduct WNV testing of mosquitoes during the summer months through either a state or commercial agreement for surveillance. Participating counties include the following: Ada, Adams, Bannock, Bingham, Boundary, Canyon, Elmore, Franklin, Bear Lake, Gem, Jefferson, Owyhee, Payette, Power, Teton, Twin Falls, and Washington.

2016 WNV SURVEILLANCE SUMMARY

- Total reported symptomatic WNV cases: **9**
- West Nile virus-related deaths: **0**
- Asymptomatic presumptive viremic blood donors†: **2**
- Total reported positive horses: **10**
- Other species: **0**
- Counties reporting positive mosquitoes: **10**
- Total positive counties reporting local transmission: **15**



WNV- Positive Surveillance Findings, by County of Residence (or Collection), and Event Date—Idaho, 2016

Counties	Humans: Fever (Onset Date)	Humans: Neuroinvasive (Onset Date)	Horses/other mammals (Diagnosis Date) laboratory-confirmed only	Asymptomatic Blood Donors†	Positive Mosquito Pools, by first positive collection date†, additional positive collection dates listed
Ada				7/26/2016	7/26/2016, 8/4, 8/17, 8/25, 8/30, 9/1, 9/7, 9/8, 9/13
Adams					
Bannock					7/29/2016, 8/3, 8/4
Bear Lake					
Benewah					
Bingham					7/25/2016
Blaine					
Boise					
Bonner			8/27/2016, 9/13 (2 horses)		
Bonneville					
Boundary			8/12/2016, 9/7, 9/15, 9/20 (4 horses)		
Butte					
Camas					
Canyon	2 8/12/2016, 11/13/2016	1 8/11/2016			6/28/2016, 6/29, 7/7, 7/19, 7/28
Caribou					
Cassia					
Clark					
Clearwater					
Custer					
Elmore	2			8/1/2016	

	7/21/2016, 8/15/2016				
Franklin					
Fremont					
Gem					7/6/2016, 7/6 (outside MAD), 7/19, 7/25, 8/16. 8/23. 8/30
Gooding			9/9/2016 (1 horse)		
Idaho					
Jefferson					9/8/2016
Jerome					
Kootenai			9/23/2016 (1 horse)		
Latah					
Lemhi					
Lewis		1 8/3/2016 (acquired out of state)			
Lincoln					
Madison					
Minidoka					
Nez Perce					
Oneida					
Owyhee		1 8/23/2016			7/15/2016
Payette	2 8/12/2016, 8/16/2016		8/3/2016, 8/17 (2 horses)		6/27/2016, 7/18, 8/1, 8/8, 8/22, 8/30
Power					
Shoshone					
Teton					
Twin Falls					8/3/2016, 8/17, 8/30
Valley					8/3/2016
Washington					

Totals: 15 Total counties with local WNV activity	6 Humans reported with WN fever	3 Humans reported with WN neuroinvasive disease	10 Animals reported with WNV infections	2 Asymptomatic blood donors reported by the Red Cross	10 Counties where +mosquito pools were detected by mosquito abatement districts or PHDs

The data presented are (1) *provisional*, (2) *only* confirmed or probable symptomatic infections, (3) asymptomatic presumptive viremic blood donors identified by the American Red Cross and, (4) *only* Idaho residents.

† The American Red Cross routinely screens all donated blood for a variety of infectious agents, including WNV. All donated blood determined positive for WNV is discarded.

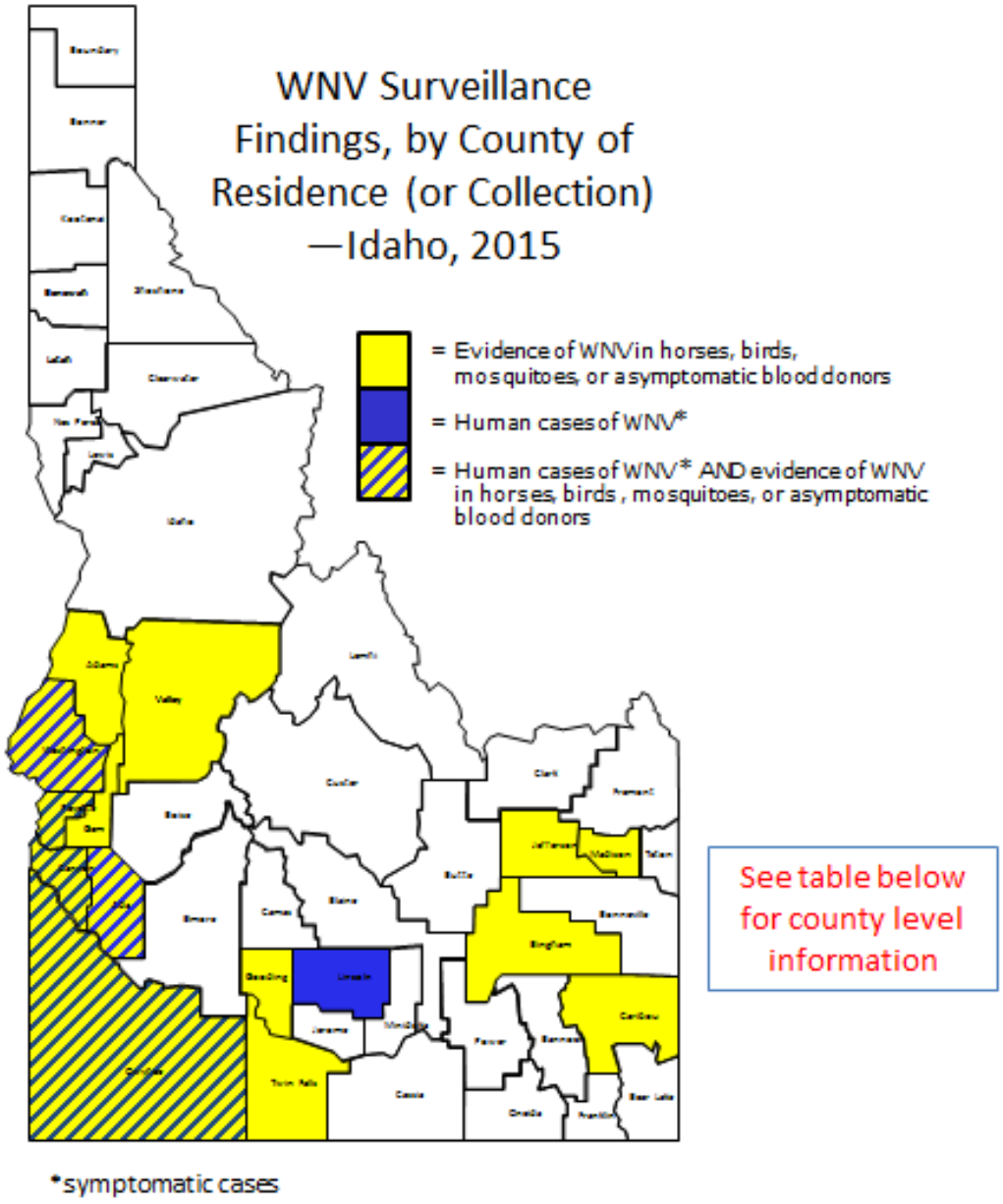
Every attempt is made to assure the accuracy of the information presented on the map and in the table. Numbers and dates presented here may change, based on completed investigations.
†Positive mosquito pools are noted by collection date; testing takes several days before results are available. Most mosquito abatement districts do not cover the entire county. To learn more, visit the link to 2016 Idaho Mosquito Abatement taxing districts:
https://tax.idaho.gov/ptt/gis/2016TaxDistricts/Mosquito_Abatement/Mosquito_Abatement.pdf

Quick summary of WNV cases—Idaho, 2016*				
Case count	**Onset Date Range**	**Sex**	**Age**	**Deaths**
9 (3 neuroinvasive)	7/21/2016 to 11/13/2016	M (67%)	Mean = 44 y (range 12y to 68 y)	0

*as of 1/13/2017

2015 WNV SURVEILLANCE SUMMARY: FINAL

- Total reported symptomatic WNV cases: 13
- West Nile virus-related deaths: 0
- Asymptomatic presumptive viremic blood donors†: 6
- Total reported positive counties: 15



WNV- Positive Surveillance Findings, by County of Residence (or Collection), and Event Date—Idaho, 2015

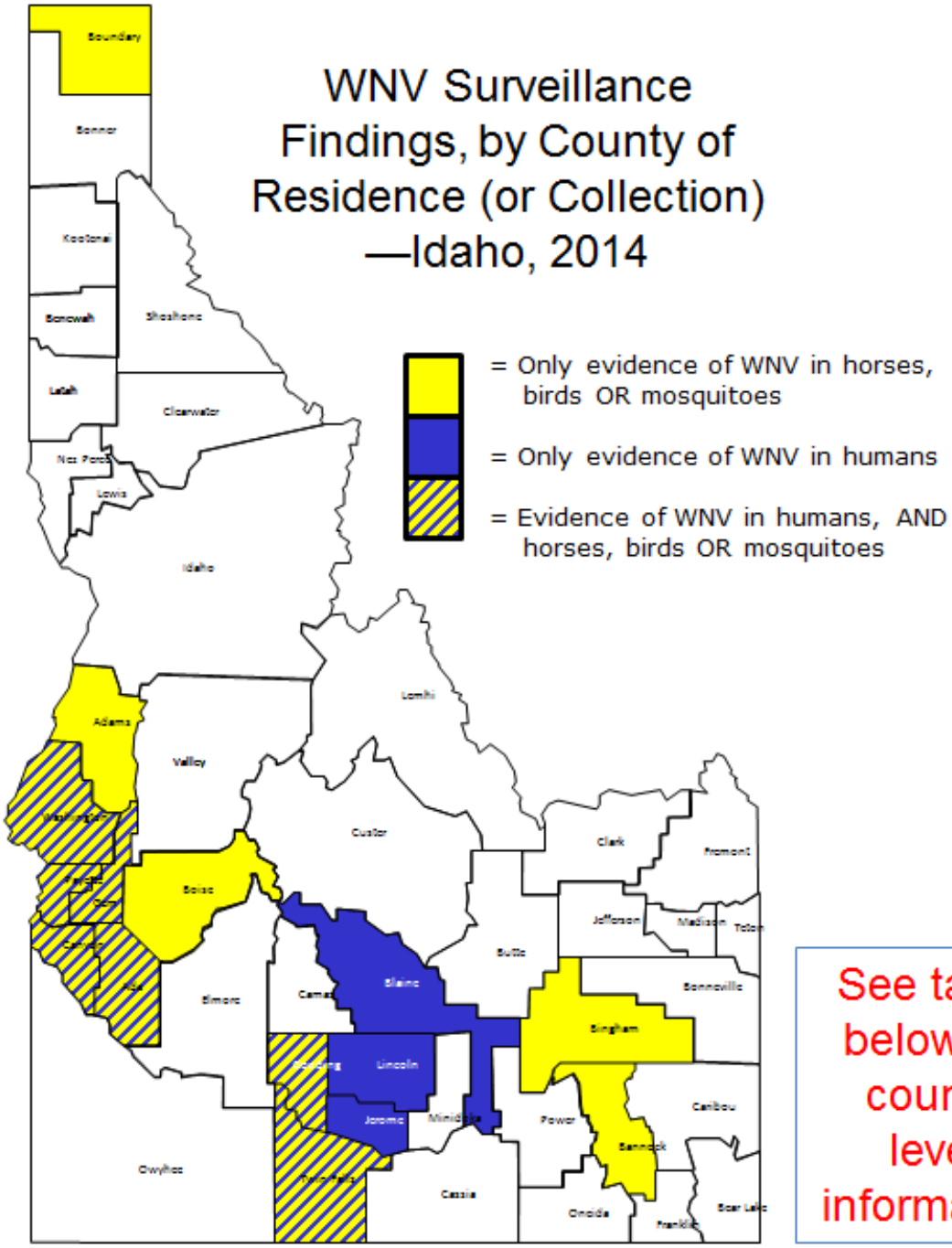
Counties	Humans: Fever (Onset Date)	Humans: Neuroinvasive (Onset Date)	Horses/other mammals (Diagnosis Date)	Asymptomatic Blood Donors†	Positive Mosquito Pools, by first positive collection date†	Positive birds
Ada	**1** 8/15			**2**	**Positive** 7/8	
Adams					**Positive** 7/24	
Bannock						
Bear Lake						
Benewah						
Bingham				**1**	**Positive** 7/13	
Blaine						
Boise						
Bonner						
Bonneville						
Boundary						
Butte						
Camas						
Canyon	**4** 7/10, 7/31, 8/31, 9/1				**Positive** 6/22	
Caribou				**1**		
Cassia						
Clark						
Clearwater						
Custer						
Elmore						
Franklin						
Fremont						
Gem			**1 horse**		**Positive**	

			8/26		6/22	
Gooding			**1 horse** 8/18			
Idaho						
Jefferson			**1 mule** 9/15			
Jerome						
Kootenai						
Latah						
Lemhi						
Lewis						
Lincoln	**1** 9/18	**1** 7/23				
Madison			**1 horse** 9/24			
Minidoka						
Nez Perce						
Oneida						
Owyhee		**1** 7/26			**Positive** 7/6	
Payette		**2** 7/10, 8/8			**Positive** 7/7	
Power						
Shoshone						
Teton						
Twin Falls				**1**	**Positive** 8/18	
Valley				**1**	**Positive** 7/23	
Washington	**2** 6/30, 9/4	**1** 8/20	**1 horse** 7/23		**Positive** 6/30	
Totals: **15** **Total counties with reported WNV activity**	**8** **Humans reported with WN fever**	**5** **Humans reported with WN neuroinvasive disease**	**5** **Animals reported with WNV infections** **(4 horses, 1 mule)**	**6** **Asymptomatic blood donors reported by the Red Cross**	**9** **Counties where + mosq. pools were detected by mosq. abatement districts or PHD**	**0** **Positive birds**

The data presented are (1) *provisional*, (2) *only* confirmed or probable symptomatic infections, (3) asymptomatic presumptive viremic blood donors identified by the American Red Cross and, (4) *only* Idaho residents.

† The American Red Cross routinely screens all donated blood for a variety of infectious agents, including WNV. All donated blood determined positive for WNV is discarded.

Every attempt is made to assure the accuracy of the information presented on the map and in the table. Numbers and dates presented here may change, based on completed investigations.
†Positive mosquito pools are noted by collection date; testing takes several days before results are available. Most mosquito abatement districts do not cover the entire county. To learn more, visit the link to 2015 Idaho Mosquito Abatement taxing districts:
http://tax.idaho.gov/ptt/gis/2015TaxDistricts/Mosquito_Abatement/Mosquito_Abatement.pdf



See table below for county level information

WNV- Positive Surveillance Findings,
by County of Residence (or Collection), and Event Date—Idaho, 2014*

Counties	Humans Fever (Onset Date)	Humans Neuroinvasive (Onset Date)	Horses/other mammals (Diagnosis Date)	Birds (Diagnosis Date)	Positive Mosquito Pools, by collection date†
Ada	1	1	1	0	Positive
Adams	0	0	0	0	Positive
Bannock	0	0	1	0	0
Bear Lake	0	0	0	0	0
Benewah	0	0	0	0	0
Bingham	0	0	0	0	Positive
Blaine	1	0	0	0	0
Boise	0	0	1	0	0
Bonner	0	0	0	0	0
Bonneville	0	0	0	0	0
Boundary	0	0	0	0	Positive
Butte	0	0	0	0	0
Camas	0	0	0	0	0
Canyon	0	1	0	0	Positive
Caribou	0	0	0	0	0
Cassia	0	0	0	0	0
Clark	0	0	0	0	0
Clearwater	0	0	0	0	0
Custer	0	0	0	0	0
Elmore	0	0	0	0	0
Franklin	0	0	0	0	0
Fremont	0	0	0	0	0
Gem	2	0	0	0	Positive
Gooding	2	1	1	0	0
Idaho	0	0	0	0	0
Jefferson	0	0	0	0	0
Jerome	1	0	0	0	0
Kootenai	0	0	0	0	0

Latah	0	0	0	0	0
Lemhi	0	0	0	0	0
Lewis	0	0	0	0	0
Lincoln	4	0	0	0	0
Madison	0	0	0	0	0
Minidoka	0	0	0	0	0
Nez Perce	0	0	0	0	0
Oneida	0	0	0	0	0
Owyhee	0	0	0	0	0
Payette	0	1	0	0	Positive
Power	0	0	0	0	0
Shoshone	0	0	0	0	0
Teton	0	0	0	0	0
Twin Falls	1	0	0	0	Positive
Valley	0	0	0	0	0
Washington	1	2	2	0	0
Totals	**13**	**6**	**6**	**0**	**8 counties**

Total Reported Cases: 19

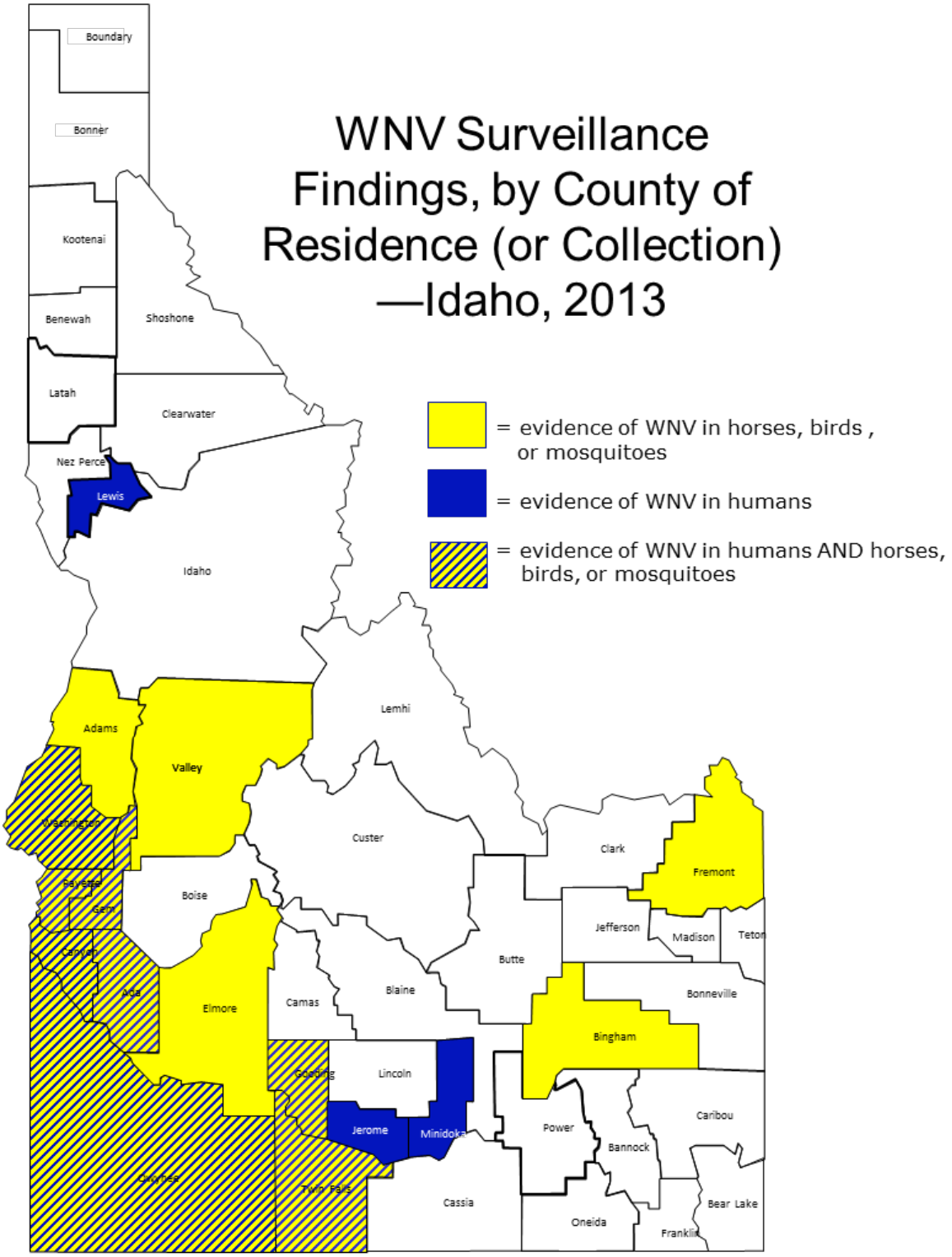
Total Reported Positive Counties: 15

*The data presented are (1) *provisional*, (2) *only* confirmed or probable symptomatic infections and (3) *only* reflects Idaho residents.
Every attempt is made to assure the accuracy of the information presented in the table. Numbers and dates presented here may change, based on completed investigations.

West Nile virus-related deaths: 0
Positive blood donors: 0

†Positive mosquito pools are noted by collection date; testing takes several days before results are available. Most mosquito abatement districts do not cover the entire county. To learn more, visit the link to 2013 Idaho Mosquito Abatement taxing districts:
http://tax.idaho.gov/ptt/gis/2013TaxDistricts/Mosquito_Abatement/Mosquito_Abatement.pdf

Last reviewed 3/10/2015

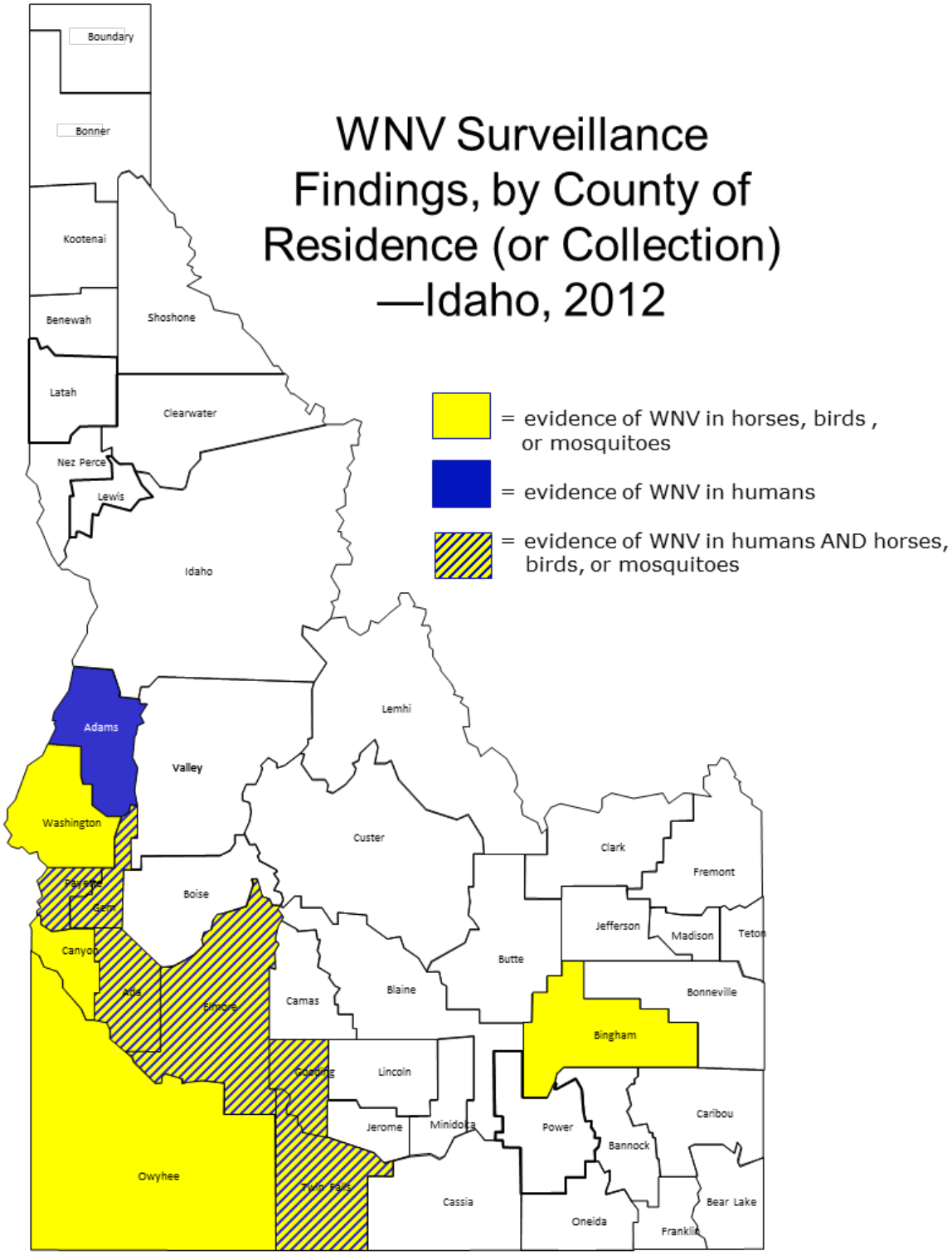


Lewis County case exposed in Canyon County

WNV Surveillance Findings, by County—Idaho, 2013

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Positive Mosquito Pools
Ada	**7**	0	**1**	-	**Positive**
Adams	0	0	-	-	**Positive**
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	**Positive**
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	**6**	**8**	**5**	-	**Positive**
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	0	0	-	-	**Positive**
Franklin	0	0	-	-	-
Fremont	0	0	**1**	-	-
Gem	0	**1**	**1**	-	**Positive**
Gooding	1	**1**	-	-	**Positive**
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	**1**	0	-	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	0	-	-	-
Lewis	0	**1**	-	-	-

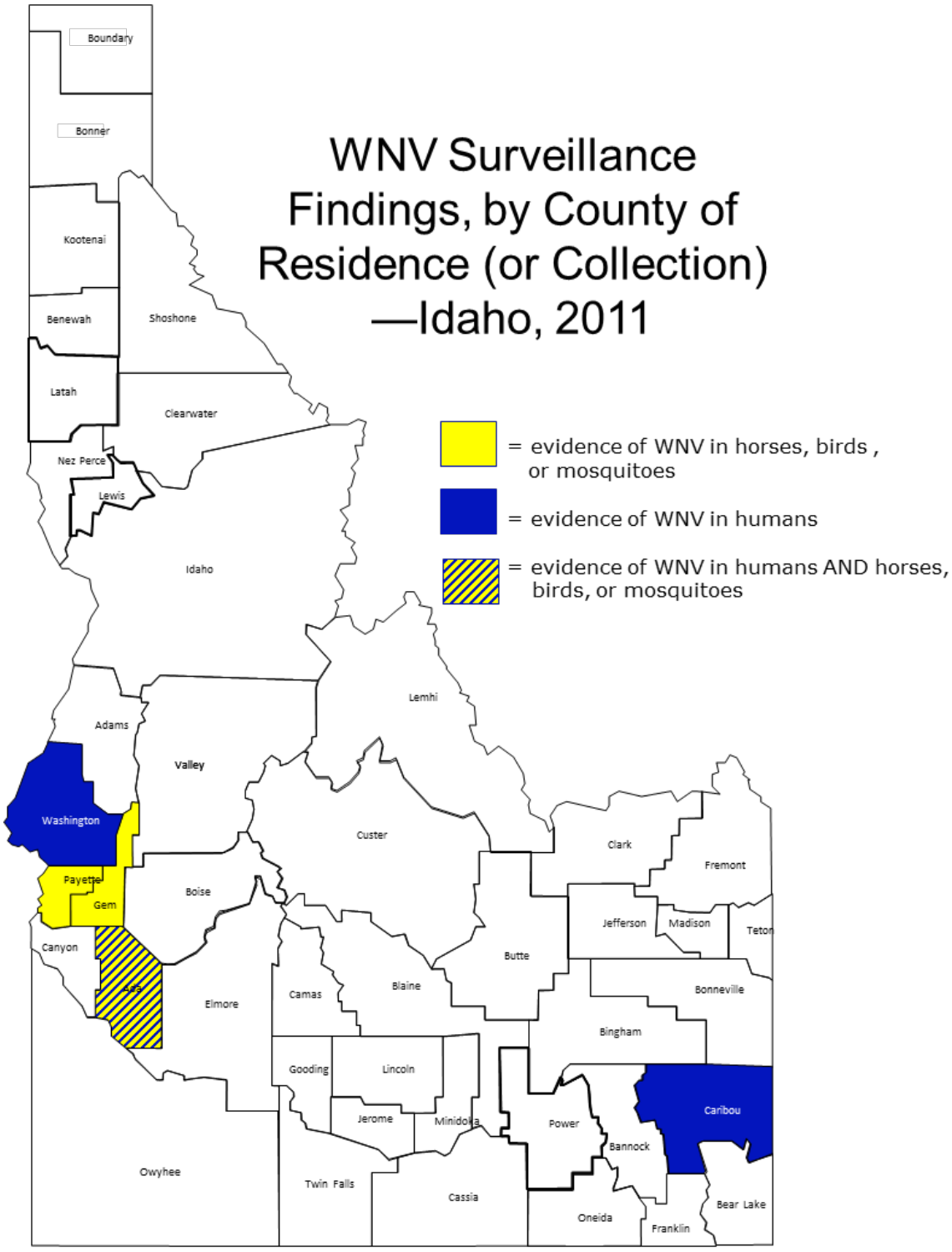
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-
Minidoka	**1**	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	**1**	**1**	**1**	-	**Positive**
Payette	**4**	**1**	-	-	**Positive**
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	**2**	**1**	-	-	**Positive**
Valley	0	0	**1**	-	**Positive**
Washington	**3**	0	-	-	**Positive**
Totals	**26**	**14**	**10**	**0**	**12**
As of 1/24/2014: Total reported cases: **40** Total positive counties: **16**					
The data presented include *only* confirmed or probable symptomatic infections and *only* reflects Idaho residents. Every attempt is made to assure the accuracy of the information presented in the table. Numbers and dates presented here may change, based on completed investigations.					
West Nile virus-related deaths: **2** (included in totals shown in table) Blood donors: **12** (10 asymptomatic donors not in table)					


WNV Surveillance Findings, by County of Residence (or Collection) —Idaho, 2012
= evidence of WNV in horses, birds , or mosquitoes
= evidence of WNV in humans
= evidence of WNV in humans AND horses, birds, or mosquitoes
Boundary
Bonner
Kootenai
Benewah
Shoshone
Latah
Clearwater
Nez Perce
Lewis
Idaho
Adams
Lemhi
Valley
Washington
Custer
Clark
Fremont
Boise
Jefferson
Madison
Teton
Canyon
Butte
Ada
Elmore
Camas
Blaine
Bonneville
Bingham
Gooding
Lincoln
Caribou
Jerome
Minidoka
Power
Bannock
Owyhee
Twin Falls
Cassia
Bear Lake
Oneida
Franklin

WNV Surveillance Findings, by County—Idaho, 2012

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Positive Mosquito Pools
Ada	**1**	**1**	-	**1 (Barn Owl)**	**Positive**
Adams	**1**	0	-	-	-
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	**Positive**
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	0	0	**3**	-	**Positive**
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	**1**	**2**	**1**	-	-
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	**4**	**1**	-	-	**Positive**
Gooding	**1**	0	**2**	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	0	0	-	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	0	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-

Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	0	0	**2**	**1 (Golden Eagle)**	**Positive**
Payette	**2**	**1**	-	**1 (American Kestrel)**	**Positive**
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	**2**	0	-	-	**Positive**
Valley	0	0	-	-	-
Washington	0	0	**1**	-	-
Totals	**12**	**5**	**9**	**3**	**7 counties**
Total reported cases: **17** Total reported counties: **11**					
West Nile virus-related deaths: **0** Blood donors: **2** (asymptomatic, not in table)					



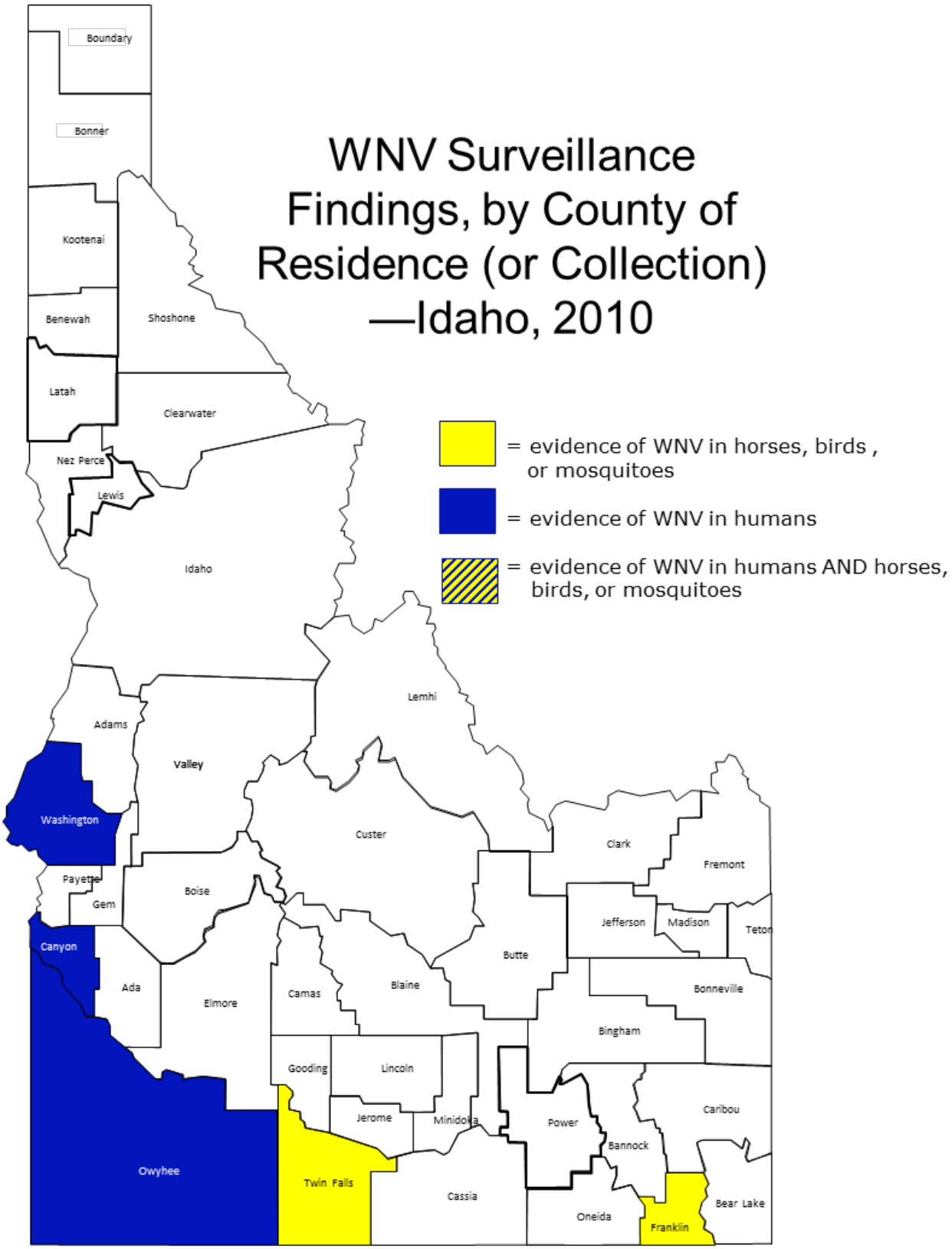
updated 6/14/2018

IDAHO DEPARTMENT OF HEALTH & WELFARE
DIVISION OF PUBLIC HEALTH

WNV Surveillance Findings, by County—Idaho, 2011

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	**1**	0	**1**	-	-
Adams	0	0	-	-	-
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	-
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	0	0	-	-	-
Caribou	0	**1**	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	0	0	-	-	-
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	0	0	-	-	**Positive**
Gooding	0	0	-	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	0	0	-	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	0	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-

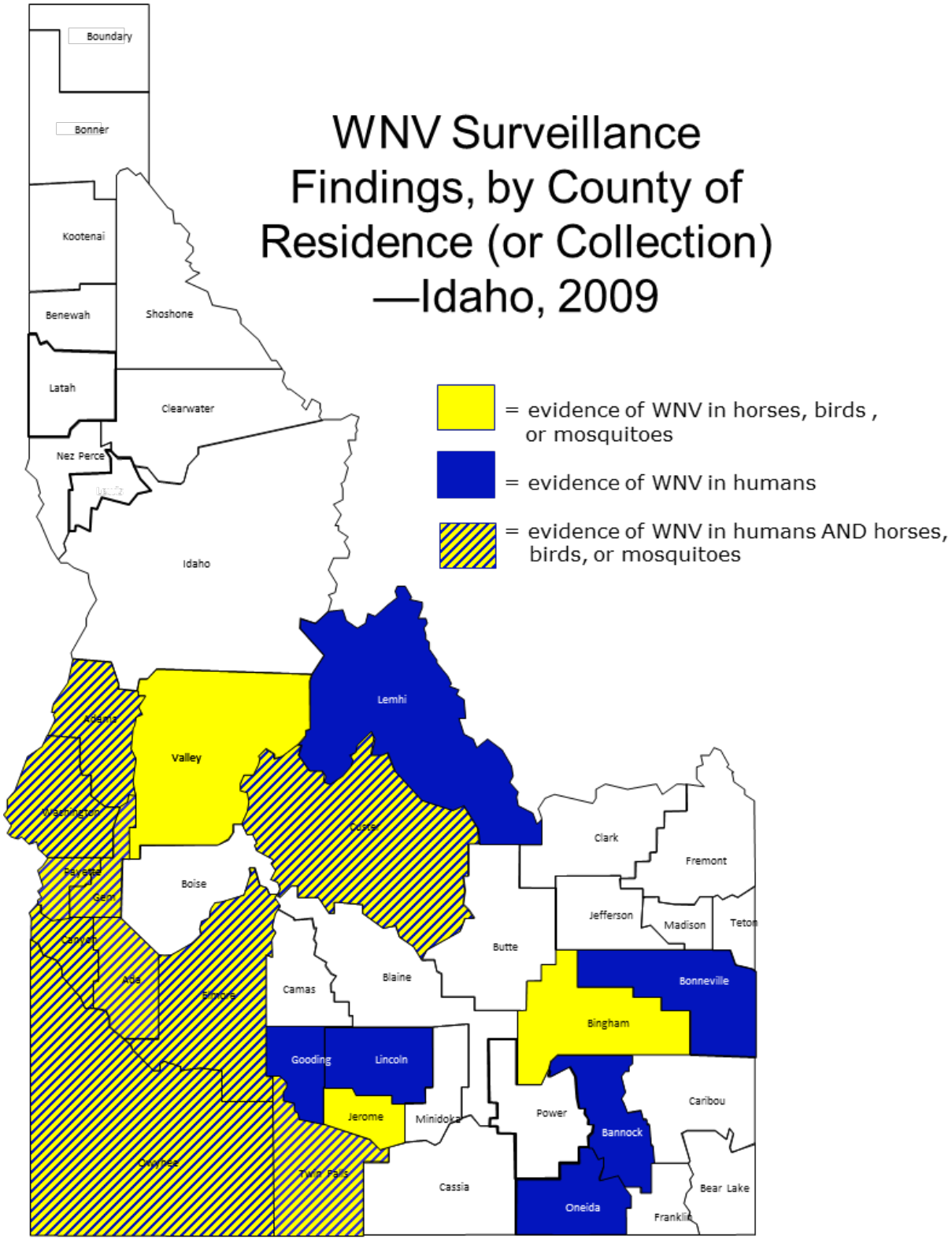
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	0	0	-	-	-
Payette	0	0	-	-	**Positive**
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	0	0	-	-	-
Valley	0	0	-	-	-
Washington	**1**	0	-	-	-
Totals	**2**	**1**	**1**	**0**	**2**
Total reported cases: **3** Total positive counties: **5**					
West Nile virus-related deaths: **0** Blood donors: **0**					


WNV Surveillance Findings, by County of Residence (or Collection) —Idaho, 2010
= evidence of WNV in horses, birds , or mosquitoes
= evidence of WNV in humans
= evidence of WNV in humans AND horses, birds, or mosquitoes
Boundary
Bonner
Kootenai
Benewah
Shoshone
Latah
Clearwater
Nez Perce
Lewis
Idaho
Lemhi
Adams
Valley
Washington
Custer
Clark
Fremont
Payette
Gem
Boise
Jefferson
Madison
Teton
Canyon
Butte
Ada
Elmore
Camas
Blaine
Bonneville
Bingham
Gooding
Lincoln
Caribou
Jerome
Minidoka
Power
Bannock
Owyhee
Twin Falls
Cassia
Oneida
Franklin
Bear Lake

WNV Surveillance Findings by County—Idaho, 2010

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	0	0	-	-	-
Adams	0	0	-	-	-
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	-
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	**1**	0	-	-	-
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	0	0	-	-	-
Franklin	0	0	**1**	-	-
Fremont	0	0	-	-	-
Gem	0	0	-	-	-
Gooding	0	0	-	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	0	0	-	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	0	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	**1**	0	-	-	-
Payette	0	0	-	-	-
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	0	0	**Alpacas (2)**	-	-
Valley	0	0	-	-	-
Washington	**1**	0	-	-	-
Totals	**3**	**0**	**Horse (1), Alpaca (2)**	**0**	**0**
Total symptomatic cases: **3** Total positive counties: **5**					
West Nile virus-related deaths: **0** (included in totals shown in table) Blood donors: **0**					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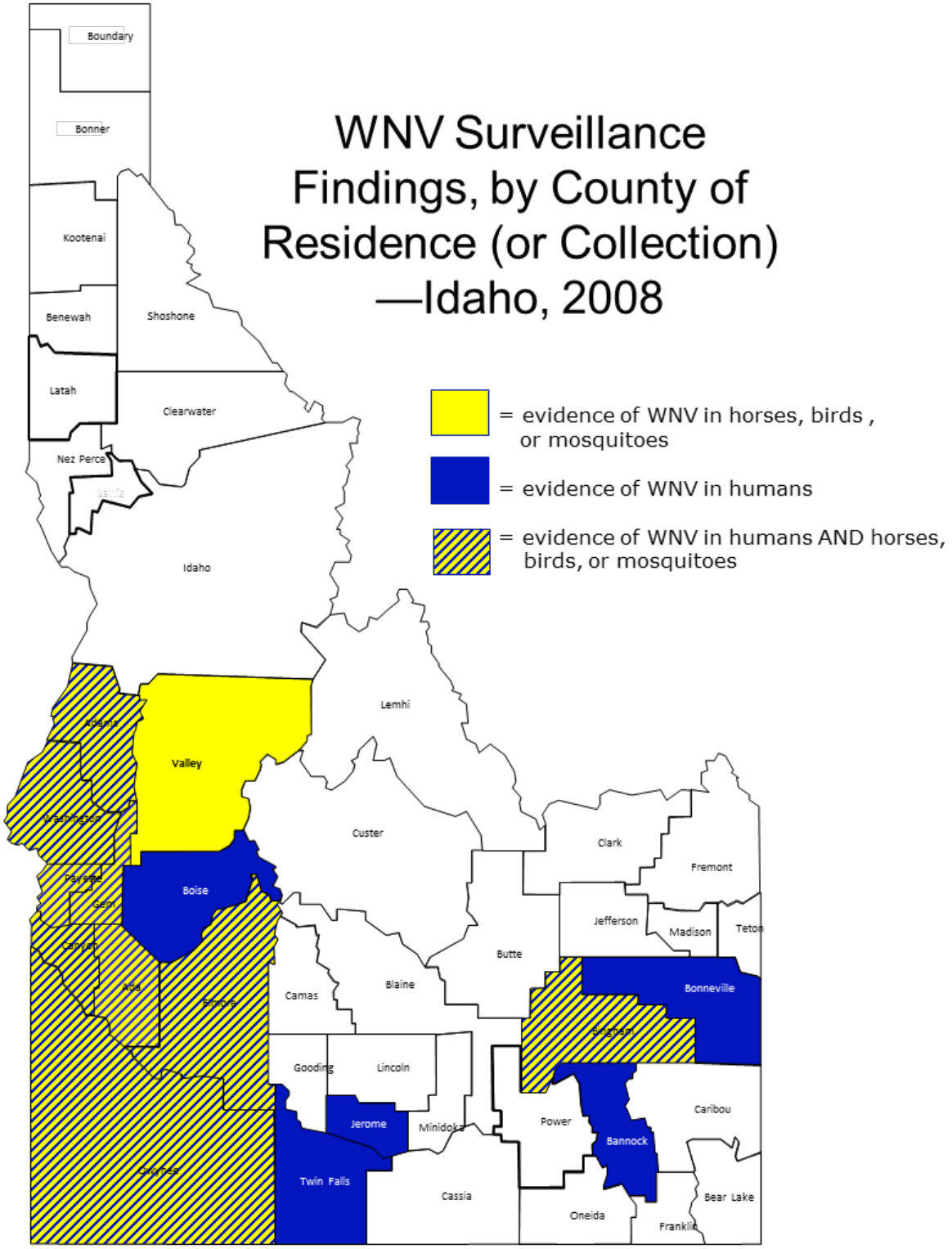
Bingham
Gooding
Lincoln
Jerome
Minidoka
Power
Bannock
Caribou
Cassia
Oneida
Bear Lake
Franklin

WNV Surveillance Findings, by County—Idaho, 2009

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	**3**	**1**	**1**	0	**Positive**
Adams	0	**1**	-	**Sage Grouse (1)**	**Positive**
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	**Positive**
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	**1**	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	**8**	**1**	**2, Dog (1)**	-	**Positive**
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	**1**	0	**1**	-	-
Elmore	**4**	**2**	-	-	**Positive**
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	**2**	0	-	-	**Positive**
Gooding	**1**	0	-	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	0	0	**1**	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	**1**	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	**1**	-	-	-

Madison	0	0	-	-	-
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	**1**	0	-	-	-
Owyhee	0	**1**	**1**	-	**Positive**
Payette	**1**	**1**	**2**	-	**Positive**
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	**2**	**1**	**1**	-	**Positive**
Valley	0	0	-	-	-
Washington	**2**	**1**	-	-	**Positive**
Totals	**25**	**12**	**Horse (9), Dog (1)**	**1**	**10**
Total symptomatic cases:**37** Total positive counties: **17**					
West Nile virus-related deaths: **2** (included in totals shown in table) Asymptomatic blood donors: **2**					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Shoshone
Latah
Clearwater
Nez Perce
Idaho
Lemhi
Valley
Boise
Custer
Clark
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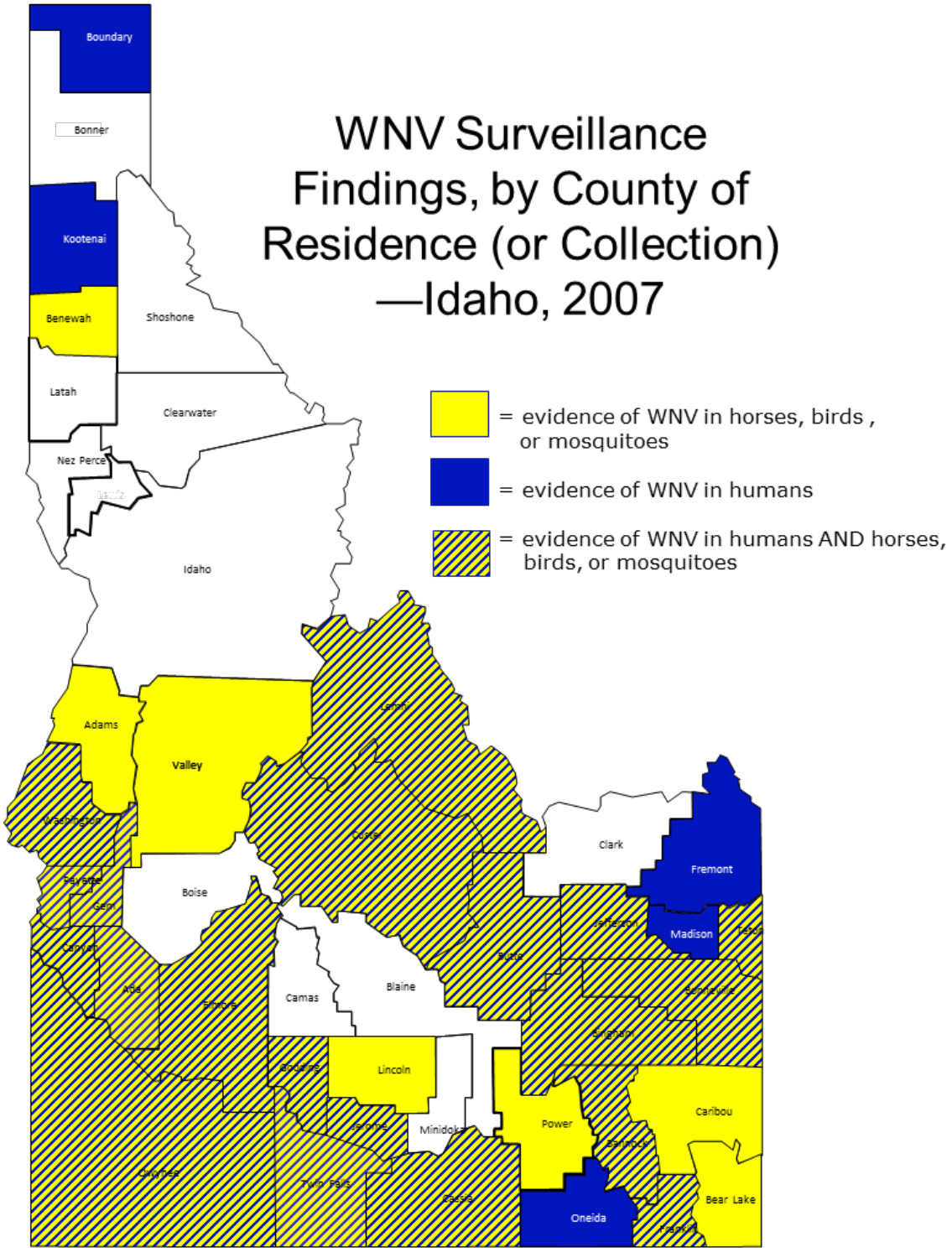
Bonneville
Bingham
Camas
Blaine
Gooding
Lincoln
Jerome
Minidoka
Power
Bannock
Caribou
Twin Falls
Cassia
Oneida
Bear Lake
Franklin

WNV Surveillance Findings, by County—Idaho, 2008

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	**5**	**1**	-	-	**Positive**
Adams	**3**	**1**	-	**1(Golden Eagle)**	-
Bannock	**2**	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	**2**	0	-	-	**Positive**
Blaine	0	0	-	-	-
Boise	**1**	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	**2**	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	**2**	0	-	-	**Positive**
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	**3**	**1**	-	**1(Sharp-shinned Hawk)**	**Positive**
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	**2**	0	-	**1(Golden Eagle)**	**Positive**
Gooding	0	0	-	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	**1**	0	-	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-

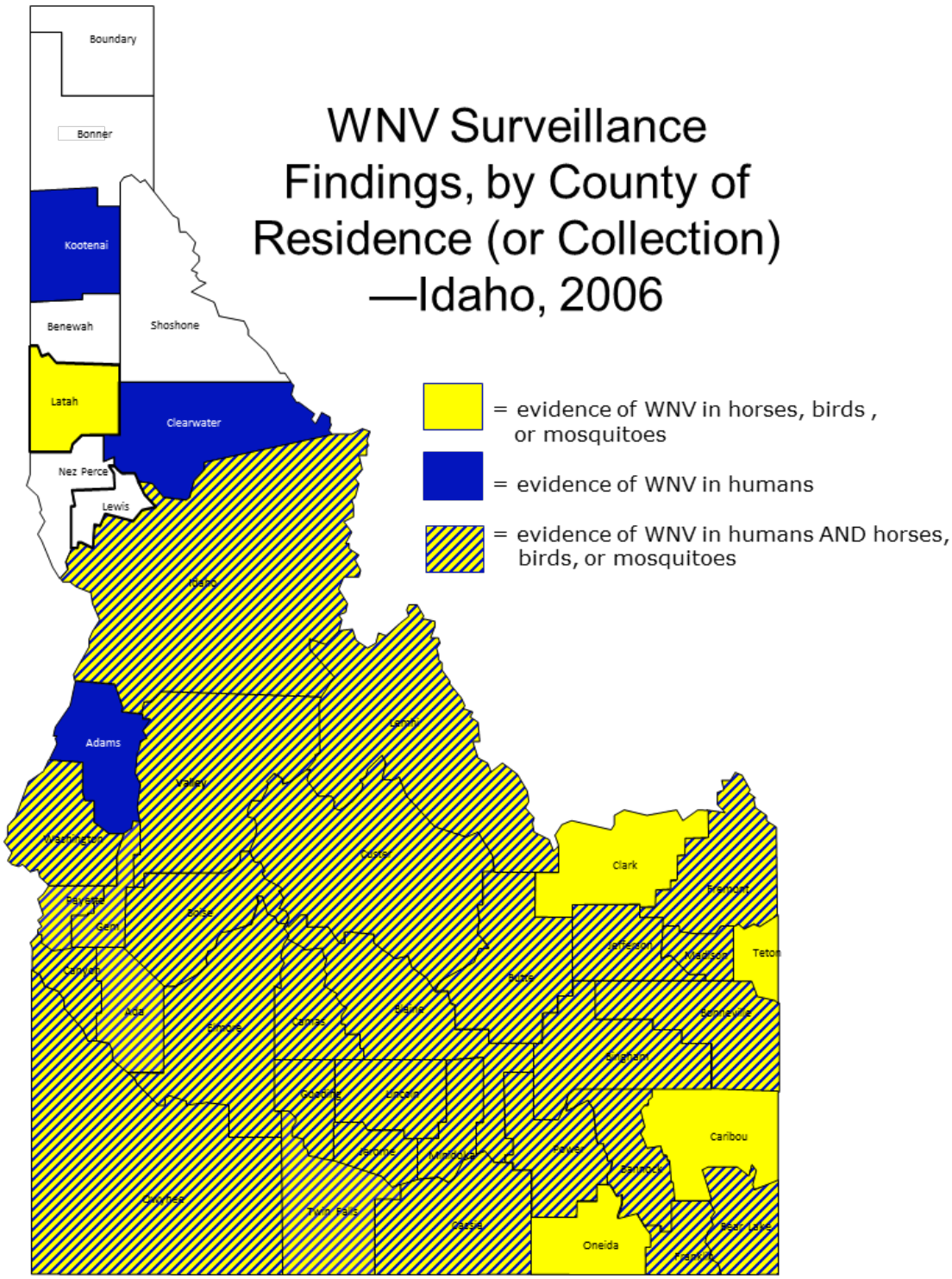
Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Lemhi	0	0	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	0	**1**	**1**	-	-
Payette	**2**	**1**	-	-	**Positive**
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	**1**	**1**	-	-	-
Valley	0	0	-	**1(American Crow)**	-
Washington	**4**	0	-	-	**Positive**
Totals	**30**	**6**	**1**	**4**	**7**
Total symptomatic cases: **36** Total positive counties: **15**					
West Nile virus-related deaths: **1** (included in totals shown in table) Blood Donors: **0**					


WNV Surveillance Findings, by County of Residence (or Collection) —Idaho, 2007
= evidence of WNV in horses, birds , or mosquitoes
= evidence of WNV in humans
= evidence of WNV in humans AND horses, birds, or mosquitoes
Boundary
Bonner
Kootenai
Benewah
Shoshone
Latah
Clearwater
Nez Perce
Idaho
Adams
Valley
Boise
Clark
Fremont
Madison
Camas
Blaine
Lincoln
Minidoka
Power
Caribou
Bear Lake
Oneida

WNV Surveillance Findings, by County—Idaho, 2007

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Positive Mosquito Pools
Ada	**19**	**2**	**1**	-	**Positive**
Adams	0	0	-	-	**Positive**
Bannock	**5**	0	-	-	**Positive**
Bear Lake	0	0	-	-	**Positive**
Benewah	0	0	-	**1 (Red-tailed Hawk)**	-
Bingham	**5**	0	**1**	**1(Red-tailed Hawk)**	**Positive**
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	**4**	0	**1**	-	**Positive**
Boundary	0	**1**	-	-	-
Butte	**1**	0	**Dog (1)**	-	-
Camas	0	0	-	-	-
Canyon	**23**	**4**	**1**	**1(Swainson's Hawk)**	**Positive**
Caribou	0	0	-	-	**Positive**
Cassia	**1**	0	**1**	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	**4**	0	**1**	-	-
Elmore	**7**	0	-	**1(Bald Eagle)**	**Positive**
Franklin	**1**	**2**	**1, Llama (1)**	-	-
Fremont	**1**	0	**-**	-	-
Gem	**12**	**1**	**2**	**3(American Crow[2], Swainson's Hawk[1])**	**Positive**
Gooding	**4**	**1**	-	-	**Positive**
Idaho	0	0	-	-	-
Jefferson	**1**	0	-	-	**Positive**
Jerome	**1**	0	-	**1(American Crow)**	-
Kootenai	**1***	0	-	-	-
Latah	0	0	-	-	-

Lemhi	**6**	0	-	**3(American Crow[2], Common Raven[1])**	-
Lewis	0	0	-	-	-
Lincoln	0	0	**1**	-	-
Madison	**2**	0	-	-	-
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	**1**	0	-	-	-
Owyhee	**7**	0	**2**	-	**Positive**
Payette	**6**	**1**	-	**1(Black-billed Magpie)**	**Positive**
Power	0	0	-	-	**Positive**
Shoshone	0	0	-	-	-
Teton	**4**	0	**Alpaca (1)**	**1(Red-tailed Hawk)**	-
Twin Falls	**3**	0	-	-	**Positive**
Valley	0	0	**1**	**2(American Crow[1], American Kestrel[1])**	**Positive**
Washington	**4**	0	-	-	**Positive**
	123	**12**	**Horse (13), Alpaca (1), Llama (1), Dog (1)**	**15**	**18**
Total reported cases: **135** Total positive counties:**32**					
West Nile virus-related deaths: **1** (included in totals shown in table) Blood donors: **3**					
*imported case, no local transmission documented in Kootenai County					


WNV Surveillance Findings, by County of Residence (or Collection) —Idaho, 2006
= evidence of WNV in horses, birds , or mosquitoes
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Boundary
Bonner
Kootenai
Benewah
Shoshone
Latah
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Washington
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Jefferson
Bingham
Caribou
Oneida
Bear Lake
Twin Falls
Lincoln
Gooding
Jerome
Minidoka
Cassia
Power
Bannock
Franklin
Bear Lake

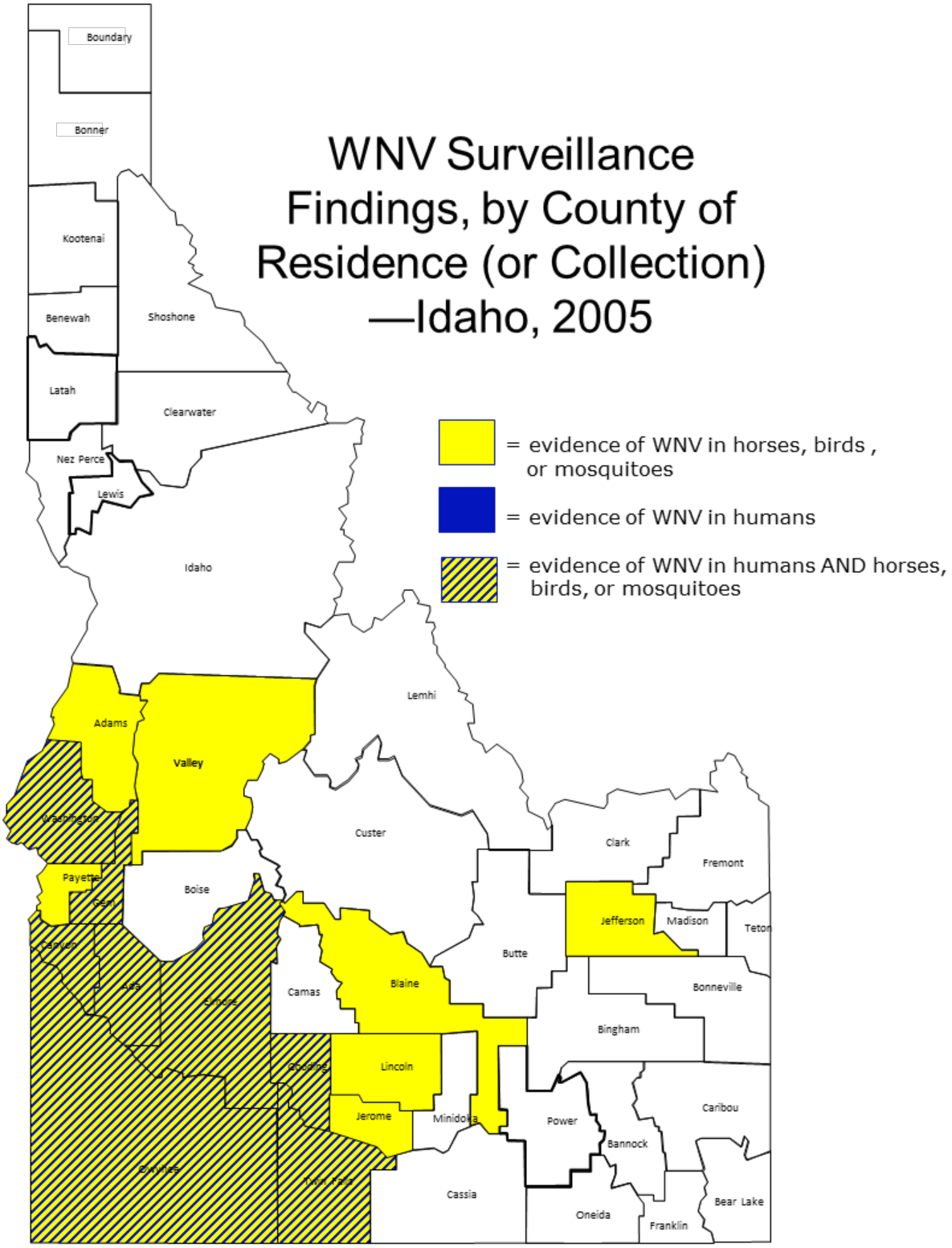
WNV Surveillance Findings, by County—Idaho, 2006

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Positive Mosquito Pools
Ada	**210**	**41**	**40**	**29**	**Positive**
Adams	**8**	0	-	-	**-**
Bannock	**20**	**4**	**22**	**3**	**-**
Bear Lake	**1**	0	**5**	-	**Positive**
Benewah	0	0	-	**-**	-
Bingham	**125**	**19**	**44**	**2**	-
Blaine	**9**	**1**	**4**	**1**	-
Boise	**6**	0	**7**	-	-
Bonner	0	0	-	-	-
Bonneville	**30**	**2**	**9**	**5**	**Positive**
Boundary	0	**0**	-	-	-
Butte	**4**	0	**7**	**2**	-
Camas	**1**	**1**	**1**	-	-
Canyon	**143**	**37**	**51 (49 horses, 1 cow, 1 llama)**	**14**	**Positive**
Caribou	0	0	**2**	-	-
Cassia	**1**	**3**	**10**	**1**	-
Clark	0	0	**2**	-	-
Clearwater	**1**	0	-	-	-
Custer	**4**	0	**12**	**3**	-
Elmore	**58**	**9**	**6**	**6**	**Positive**
Franklin	**1**	0	**9**	-	-
Fremont	**5**	0	**9**	**3**	-
Gem	**12**	**4**	**7**	**9**	**Positive**
Gooding	**40**	**6**	**2**	**7**	-
Idaho	**3**	0	**1**	-	-
Jefferson	**11**	**3**	**20**	**5**	**Positive**
Jerome	**10**	**2**	**3**	**7**	-
Kootenai	0	**1**	-	-	-
Latah	0	0	**1**	-	-
Lemhi	**2**	0	**7**	**1**	-
Lewis	0	0	-	-	-
Lincoln	**7**	**2**	**5**	**1**	-

Madison	**5**	**2**	**9**	**2**	-
Minidoka	**16**	**8**	**8**	**2**	-
Nez Perce	0	0	-	-	-
Oneida	0	0	**2**	**1**	-
Owyhee	**26**	**6**	**4**	**10**	-
Payette	**19**	**4**	**2**	**-**	-
Power	**2**	0	**4**	-	-
Shoshone	0	0	-	-	-
Teton	0	0	**1**	**-**	-
Twin Falls	**29**	**10**	**22**	**11**	-
Valley	0	**2**	**-**	**1**	**Positive**
Washington	**18**	**2**	**2**	**1**	-
	827	**169**	**340**	**127***	**8**
Total reported cases: **996** Total positive counties:**38**					
West Nile virus-related deaths: **23** (included in totals shown in table) Blood donors: **20**					

*48 Black-billed magpies, 41 American crows, 11 Sage Grouse, 5 Common Ravens, 5 Swainson's Hawks, 4 California Condors, 3 Golden Eagles, 2 American Kestrels, , 2 Barn Owls, 2 Red-tailed Hawks, 1 Great Horned Owl, 1 Gyrfalcon, and 1 Ferruginous Hawk.

Squirrel mortality was high in south and southeastern communities, attributed to WNV.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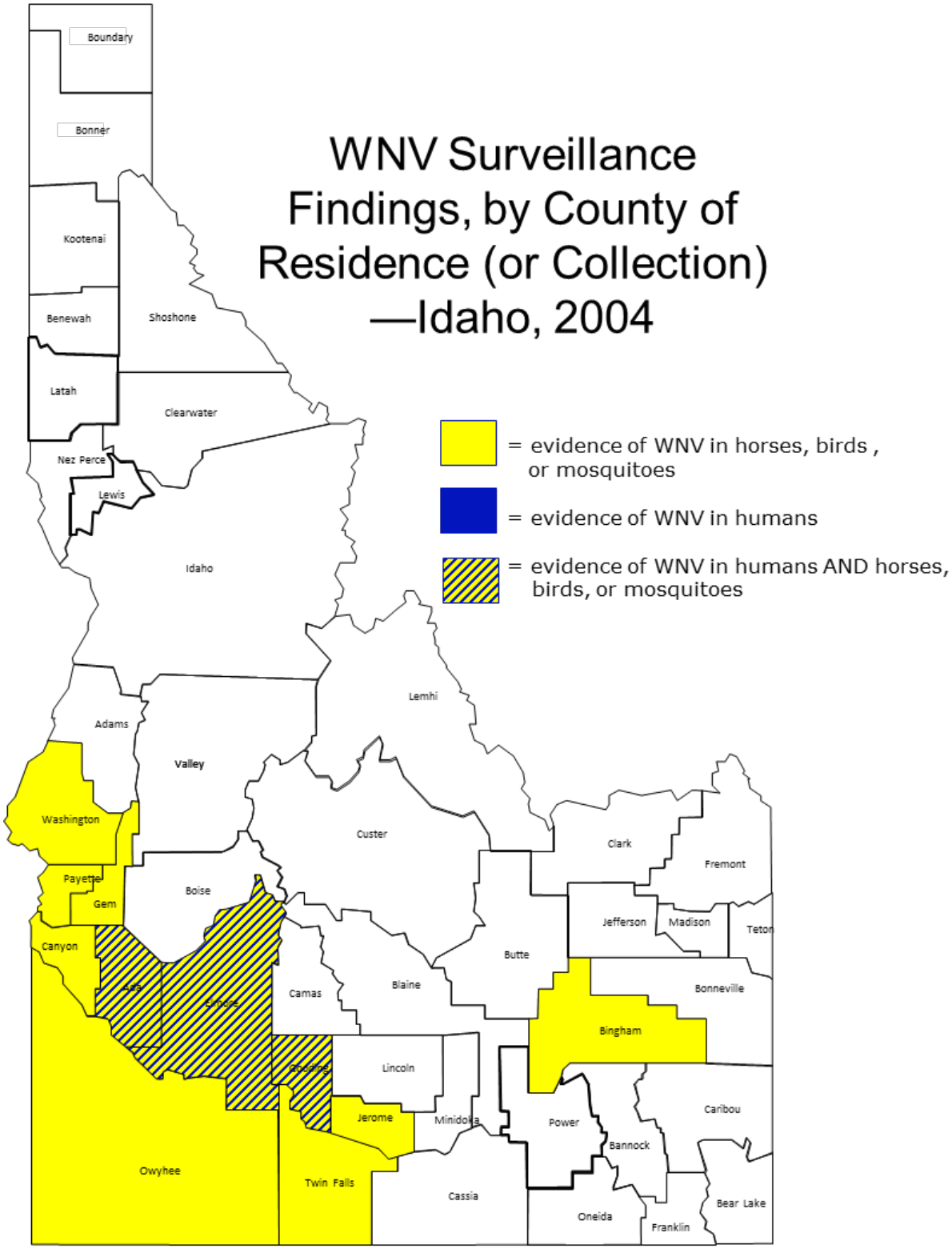
Cassia
Oneida
Franklin
Bear Lake

WNV Surveillance Findings by County—Idaho, 2005

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	**2**	0	**4**	**6 (Black-billed Magpie [4], American Crow [1], Golden Eagle [1])**	**Positive**
Adams	0	0	**4**	-	-
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	-
Blaine	0	0	**5**	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	**2**	0	**23**	**3 (Magpie [2], American White Pelican [1])**	**Positive**
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	**2**	0	**2**	-	-
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	**2**	0	**10**	**2 (Magpie [1], Crow [1])**	**Positive**

Gooding	0	**2**	**9**	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	**2**	-	-
Jerome	0	0	**1, Dog (1)**	**2 (Magpies)**	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	0	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	0	**10**	**1 (Magpie)**	-
Madison	0	0	-	-	-
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	**1**	0	**15**	-	-
Payette	0	0	**6**	**1 (Swainson's Hawk)**	**Positive**
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	**1**	0	**3**	-	-
Valley	0	0	**1**	-	-
Washington	0	**1**	**20**	-	**Positive**
Totals	**10**	**3**	**Horses (113), Dog (1)**	**15**	**5**
Total reported cases: **13** Total positive counties: **15**					
West Nile virus-related deaths: **0** Blood donors: **1**					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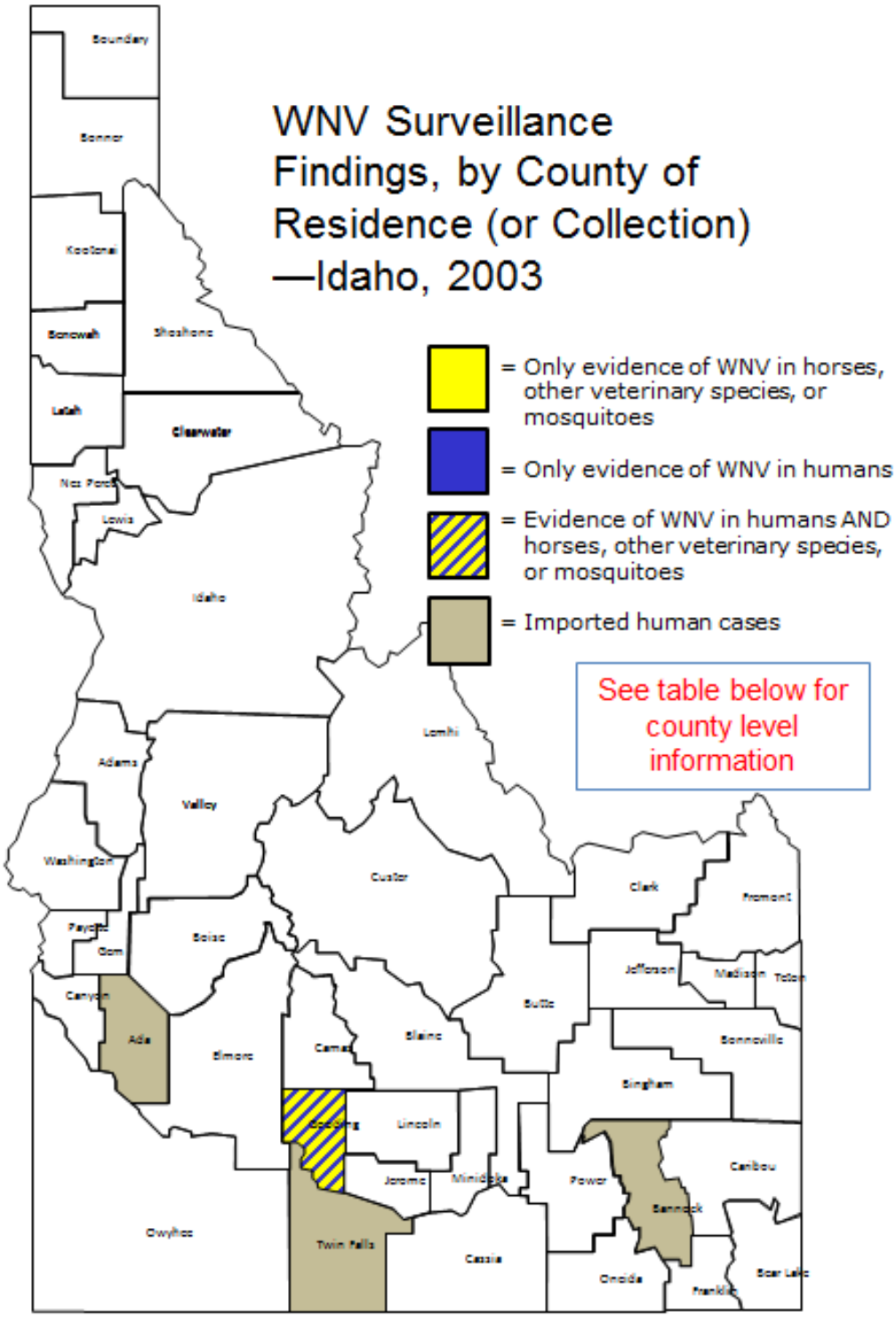
Bannock
Owyhee
Twin Falls
Cassia
Oneida
Franklin
Bear Lake

WNV Surveillance Findings, by County—Idaho, 2004

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	0	**1**	-	**1 (American Crow)**	-
Adams	0	0	-	-	-
Bannock	0	0	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	**1**	-	-
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	0	0	**6**	**1 (Crow)**	-
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	**1**	0	**3**	**2 (Crows)**	-
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	0	0	**Alpaca (1)**	-	-
Gooding	**1**	0	**8**	**1 (Black-billed Magpie)**	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	0	0	-	**1 (Golden Eagle)**	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-

Lemhi	0	0	-	-	-
Lewis	0	0	-	-	-
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	0	0	**1**	-	-
Payette	0	0	**2**	-	-
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	0	0	**1**	-	-
Valley	0	0	-	-	-
Washington	0	0	-	**1 (Magpie)**	-
Totals	**2**	**1**	**Horse (22), Alpaca (1)**	**7**	**0**
Total reported cases: **3** Total positive counties: **11**					
West Nile virus-related deaths: **0** Blood donors detected: **0**					



WNV first detected in Idaho in 2003, associated with imported, infected alligators

WNV Surveillance Findings, by County—Idaho, 2003

Counties	Humans Fever	Humans Neuroinvasive	Horses/other mammals	Birds	Mosquito Pools
Ada	**1 (imported)**	0	-	-	-
Adams	0	0	-	-	-
Bannock	0	**1 (imported)**	-	-	-
Bear Lake	0	0	-	-	-
Benewah	0	0	-	-	-
Bingham	0	0	-	-	-
Blaine	0	0	-	-	-
Boise	0	0	-	-	-
Bonner	0	0	-	-	-
Bonneville	0	0	-	-	-
Boundary	0	0	-	-	-
Butte	0	0	-	-	-
Camas	0	0	-	-	-
Canyon	0	0	-	-	-
Caribou	0	0	-	-	-
Cassia	0	0	-	-	-
Clark	0	0	-	-	-
Clearwater	0	0	-	-	-
Custer	0	0	-	-	-
Elmore	0	0	-	-	-
Franklin	0	0	-	-	-
Fremont	0	0	-	-	-
Gem	0	0	-	-	-
Gooding	**1 (locally acquired, not mosquito-borne)**	0	**Alligators (14)**	-	-
Idaho	0	0	-	-	-
Jefferson	0	0	-	-	-
Jerome	0	0	-	-	-
Kootenai	0	0	-	-	-
Latah	0	0	-	-	-
Lemhi	0	0	-	-	-

Lewis	0	0	-	-	-
Lincoln	0	0	-	-	-
Madison	0	0	-	-	-
Minidoka	0	0	-	-	-
Nez Perce	0	0	-	-	-
Oneida	0	0	-	-	-
Owyhee	0	0	**-**	-	-
Payette	0	0	**-**	-	-
Power	0	0	-	-	-
Shoshone	0	0	-	-	-
Teton	0	0	-	-	-
Twin Falls	0	**1 (imported)**	**-**	-	-
Valley	0	0	-	-	-
Washington	0	0	-	**-**	-
Totals	**2**	**2**	**14+ (large alligator die-off [~1000], 14 tested)**	**-**	**-**
Total Reported Human Cases: **4** Total positive counties: **1** (the other 3 had imported cases)					
West Nile virus-related deaths: **0** Blood donors detected: **0**					