

2014 Rabies Surveillance Report

(January - December)

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In 2014, 50 rabies-positive animals were identified in West Virginia (see Table 1). In 2013, there were 88 rabies-positive animals (see Table 2). This compares to 2012 when there were 71 rabies-positive animals (see Table 3). Attached are five graphs showing the epidemiology of animal rabies in West Virginia from 2005 through 2014. *(For ease of viewing, these graphs are combined into one PDF document.)*

Table 4: Summary of Rabies Specimens Tested, West Virginia, 2014

541	Animals tested at Office of Laboratory Services (OLS)
215	Animals tested at United States Department of Agriculture laboratory (USDA)
756	Total Animals Tested

50 Positive animals identified:

31 Raccoons	2 Bats
11 Skunks	1 Goat
1 Fox	1 Lamb
2 Cats	
1 Dog	

- 389 animals were tested because of human exposures
 - 7 were positive (2%)
- 76 animals were tested because of pet/domestic animal exposures
 - 27 were positive (36%)
- 291 animals were tested for surveillance or other reasons
 - 16 were positive (5%)

Tables 1-3 compare annual submissions and the number of rabies-positive animals for 2014, 2013, and 2012. These tables are divided into three regions: the active surveillance region in the middle of the state, the eastern region consisting of 20 counties east of the active surveillance counties, and the western region consisting of 6 counties west of the active surveillance counties. This comparison better demonstrates how rabies surveillance has changed during this time period. During 2014, 97 surveillance animals (raccoons, skunks, foxes and coyotes) were submitted in the active surveillance area. During the same time period in 2013, 164 surveillance animals were submitted for testing from this area.

In addition to the information provided here, a map illustrating raccoon strain rabies surveillance efforts is also included. This map includes only active surveillance animals: raccoons, coyotes, skunks and foxes. A second map is included with the coordinate data of all positive animals.

Other rabies resources including surveillance data (updated monthly) and rabies brochures can be found on the DIDE rabies webpage:

<http://www.dhhr.wv.gov/oeps/disease/Zoonosis/Rabies/Pages/default.aspx>

For **national** rabies data, please visit the CDC web site:

<http://www.cdc.gov/rabies/>

Some Local Health Departments have asked for data from neighboring states.

For **Ohio** data, please visit the Ohio web site:

<http://www.odh.ohio.gov/odhprograms/dis/zdp/diseases/rabies.aspx>

For **Virginia** rabies data, please visit the Virginia web site:

<http://www.vdh.virginia.gov/Epidemiology/DEE/Rabies/>

For **Kentucky** rabies data, please visit the Kentucky web site:

<http://chfs.ky.gov/dph/epi/rabies.htm>

For **Maryland** rabies data, please visit the Maryland web site:

<http://ideha.dhmm.md.gov/OIDEOR/CZVBD/SitePages/rabies.aspx>

For **Pennsylvania** rabies data, please visit the Pennsylvania web site:

<http://www.portal.health.state.pa.us/portal/server.pt/directory/rabies/127970?DirMode=1>

Please let us know if you have questions.

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Comparison of 2014 and 2013 and 2012 Rabies Surveillance

Table 1: Summary of January-December 2014 Rabies Surveillance Data

	Active Surveillance Counties		Eastern Counties		Western Counties		Total	
	# Tested	# Positive (%)	# Tested	# Positive (%)	# Tested	# Positive (%)	# Tested	# Positive (%)
Raccoons	80	4 (5)	175	27 (15)	11	0 (0)	266	31 (12)
Skunks	13	0 (0)	21	11 (52)	3	0 (0)	37	11 (30)
Fox	3	0 (0)	11	1 (9)	3	0 (0)	17	1 (6)
Coyote	1	0 (0)	0	0 (0)	0	0 (0)	1	0 (0)
Bat	41	1 (2)	24	1 (4)	4	0 (0)	69	2 (3)
Other	145	0 (0)	183	5 (3)	38	0 (0)	366	5 (1)
Total	283	5 (2)	414	45 (11)	59	0 (0)	756	50 (7)

Table 2: Summary of January-December 2013 Rabies Surveillance Data

	Active Surveillance Counties		Eastern Counties		Western Counties		Total	
	# Tested	# Positive (%)	# Tested	# Positive (%)	# Tested	# Positive (%)	# Tested	# Positive (%)
Raccoons	156	9 (6)	223	46 (21)	3	0 (0)	382	55 (14)
Skunks	6	0 (0)	28	18 (64)	2	0 (0)	36	18 (50)
Fox	2	0 (0)	7	3 (43)	0	0 (0)	9	3 (33)
Coyote	0	0 (0)	1	0 (0)	0	0 (0)	1	0 (0)
Bat	56	1 (2)	32	0 (0)	19	0 (0)	107	1 (1)
Other	150	0 (0)	199	11 (6)	41	0 (0)	390	11 (3)
Total	370	10 (3)	490	78 (16)	65	0 (0)	925	88 (10)

Table 3: Summary of January-December 2012 Rabies Surveillance Data

	Active Surveillance Counties		Eastern Counties		Western Counties		Total	
	# Tested	# Positive (%)	# Tested	# Positive (%)	# Tested	# Positive (%)	# Tested	# Positive (%)
Raccoons	378	5 (1)	438	35 (8)	16	0 (0)	832	40 (5)
Skunks	11	1 (6)	38	13 (34)	0	0 (0)	49	14 (29)
Fox	30	0 (0)	19	4 (21)	1	0 (0)	50	4 (8)
Coyote	1	0 (0)	1	0 (0)	0	0 (0)	2	0 (0)
Bat	30	2 (7)	41	2 (5)	14	0 (0)	85	4 (5)
Other	147	0 (0)	195	9 (5)	47	0 (0)	389	9 (2)
Total	597	8 (1)	732	63 (9)	78	0 (0)	1407	71 (5)

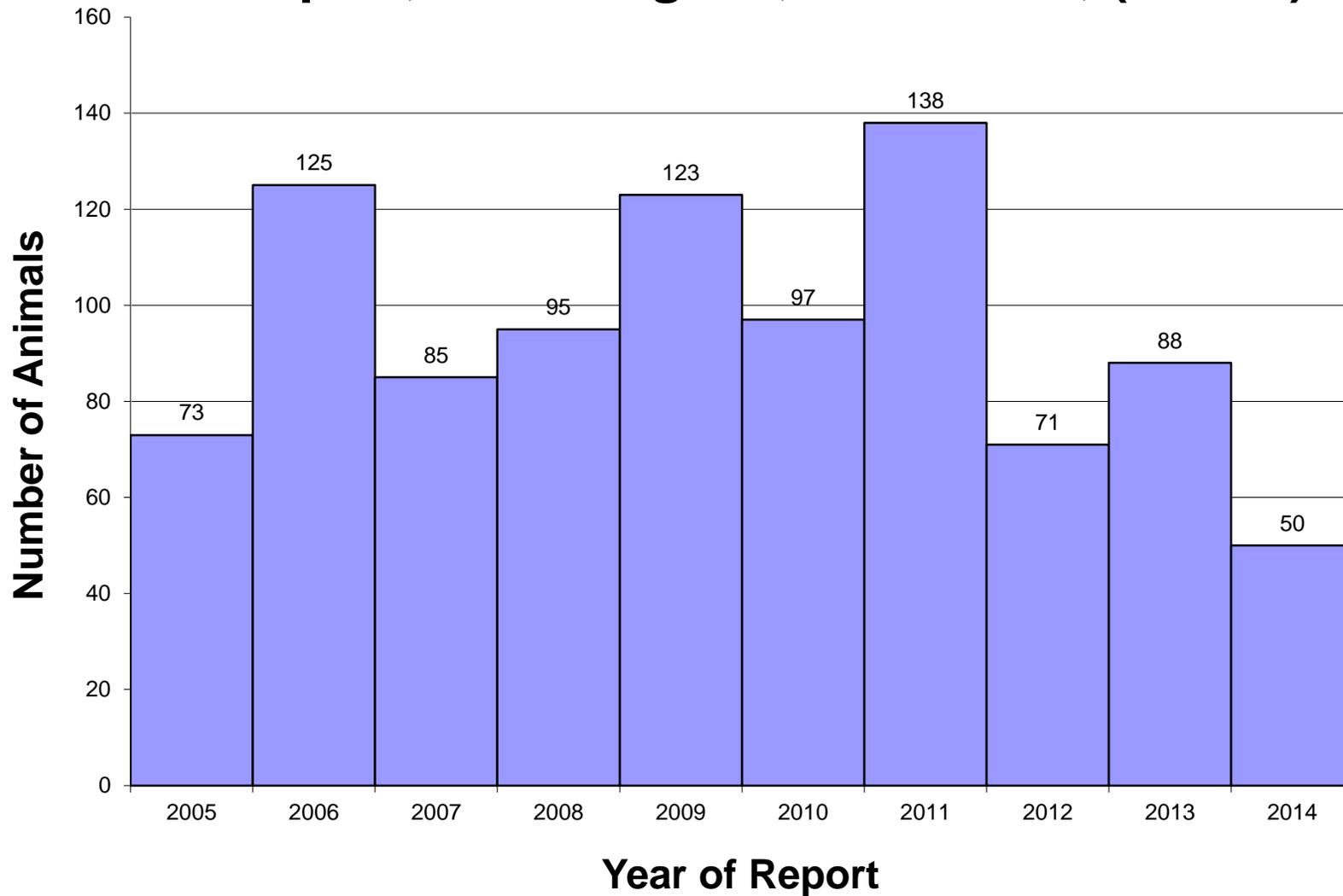
Note:

Active Surveillance Counties Include: Boone, Braxton, Brooke, Calhoun, Clay, Doddridge, Fayette, Gilmer, Hancock, Harrison, Kanawha, Lewis, Logan, Marshall, McDowell, Mercer, Mingo, Nicholas, Ohio, Pleasants, Raleigh, Ritchie, Roane, Tyler, Webster, Wetzel, Wirt, Wood, and Wyoming (*Most of these counties are in the ORV distribution zone. Many have had Raccoon Strain Rabies (RSR) identified within their borders in previous years.*)

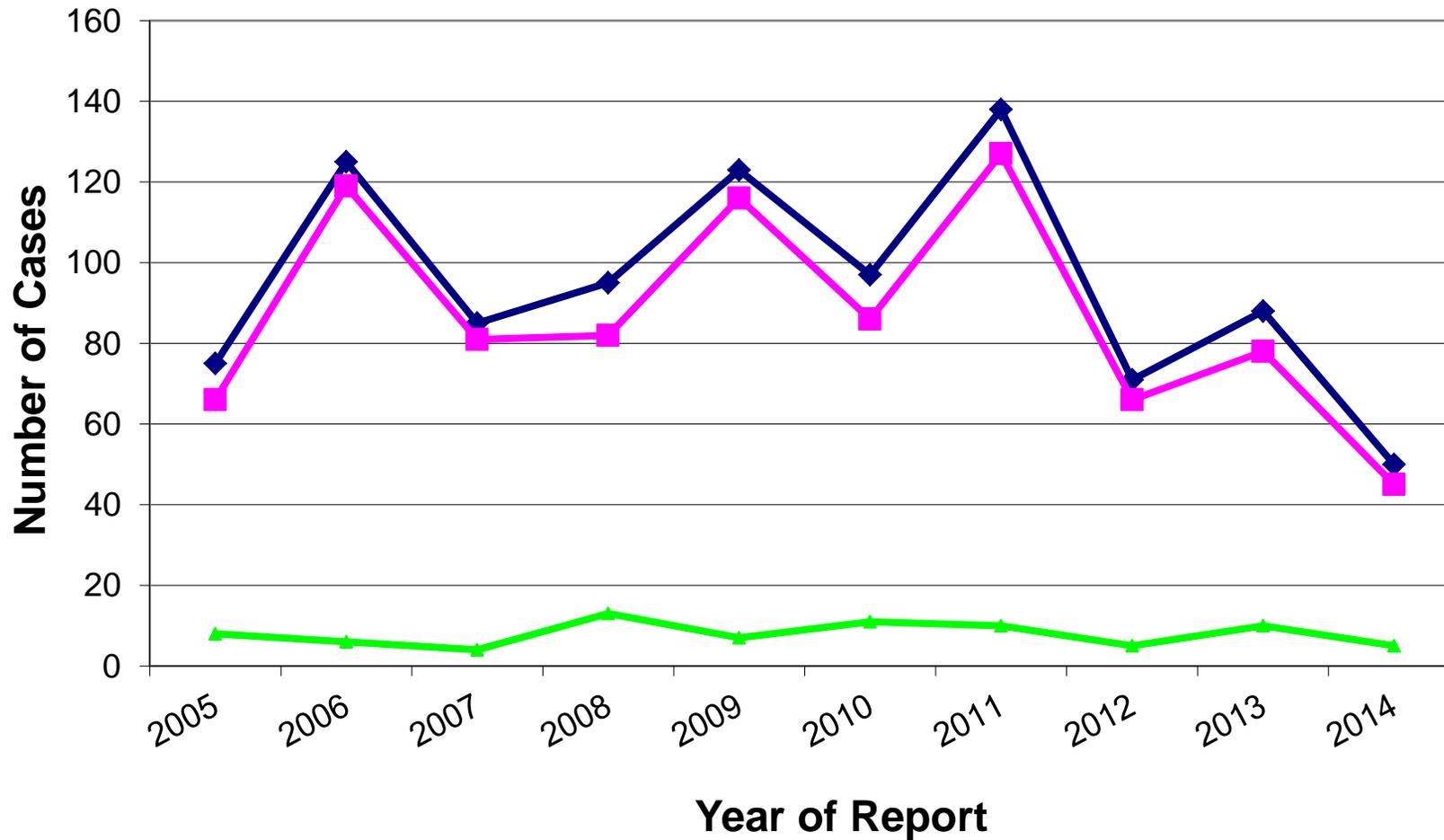
Eastern Counties Include: Barbour, Berkeley, Grant, Greenbrier, Hampshire, Hardy, Jefferson, Marion, Morgan, Mineral, Monroe, Monongalia, Pendleton, Pocahontas, Preston, Randolph, Summers, Taylor, Tucker, Upshur, (*Some of these counties are within the ORV distribution zone. All have had RSR identified within their borders.*)

Western Counties Include: Cabell, Jackson, Lincoln, Mason, Putnam, Wayne (*None of these counties are in the ORV distribution zone and none have had RSR identified within their borders.*)

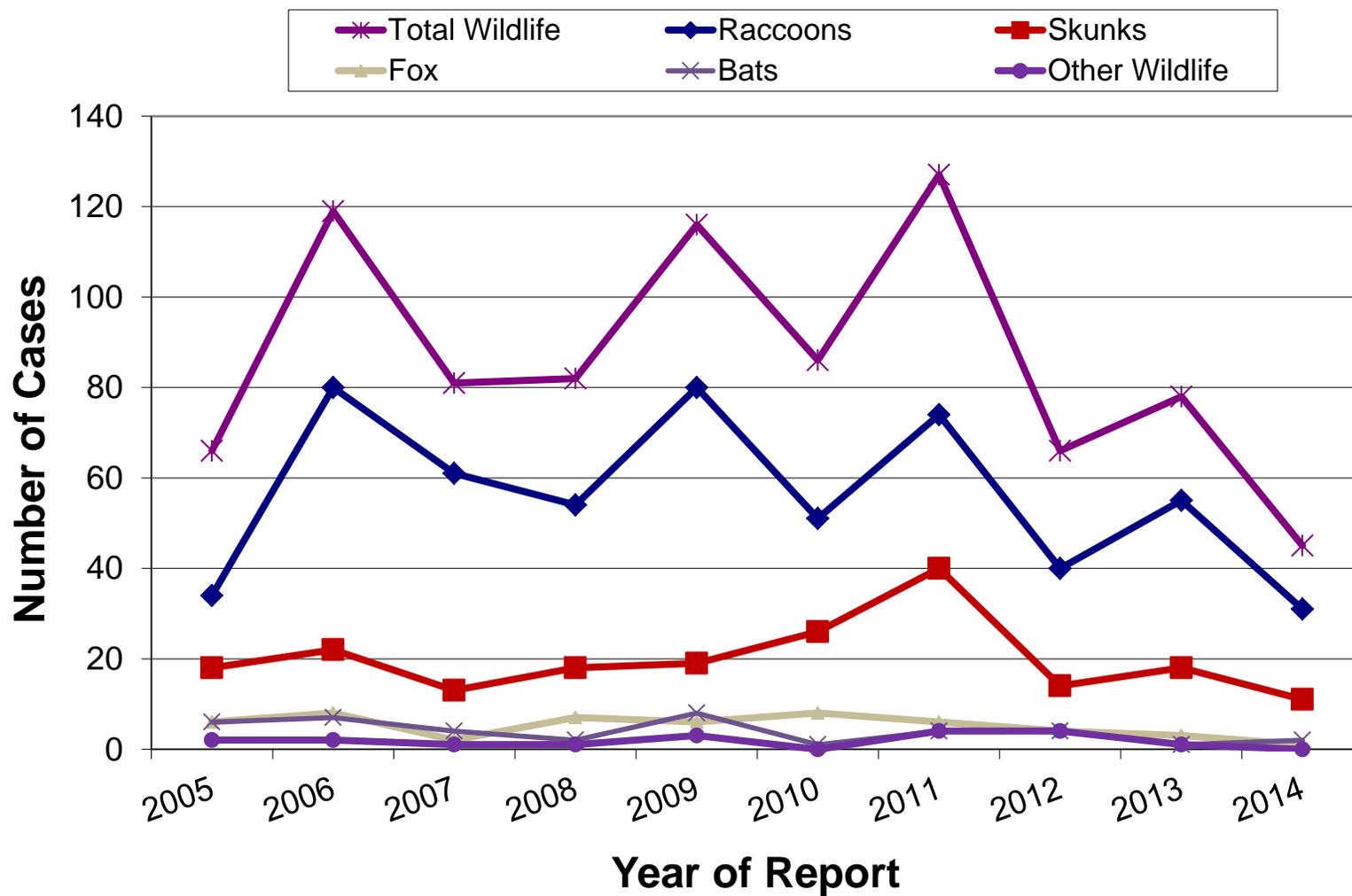
Total Rabies Positive Animals by Year of Report, West Virginia, 2005–2014, (N=945)



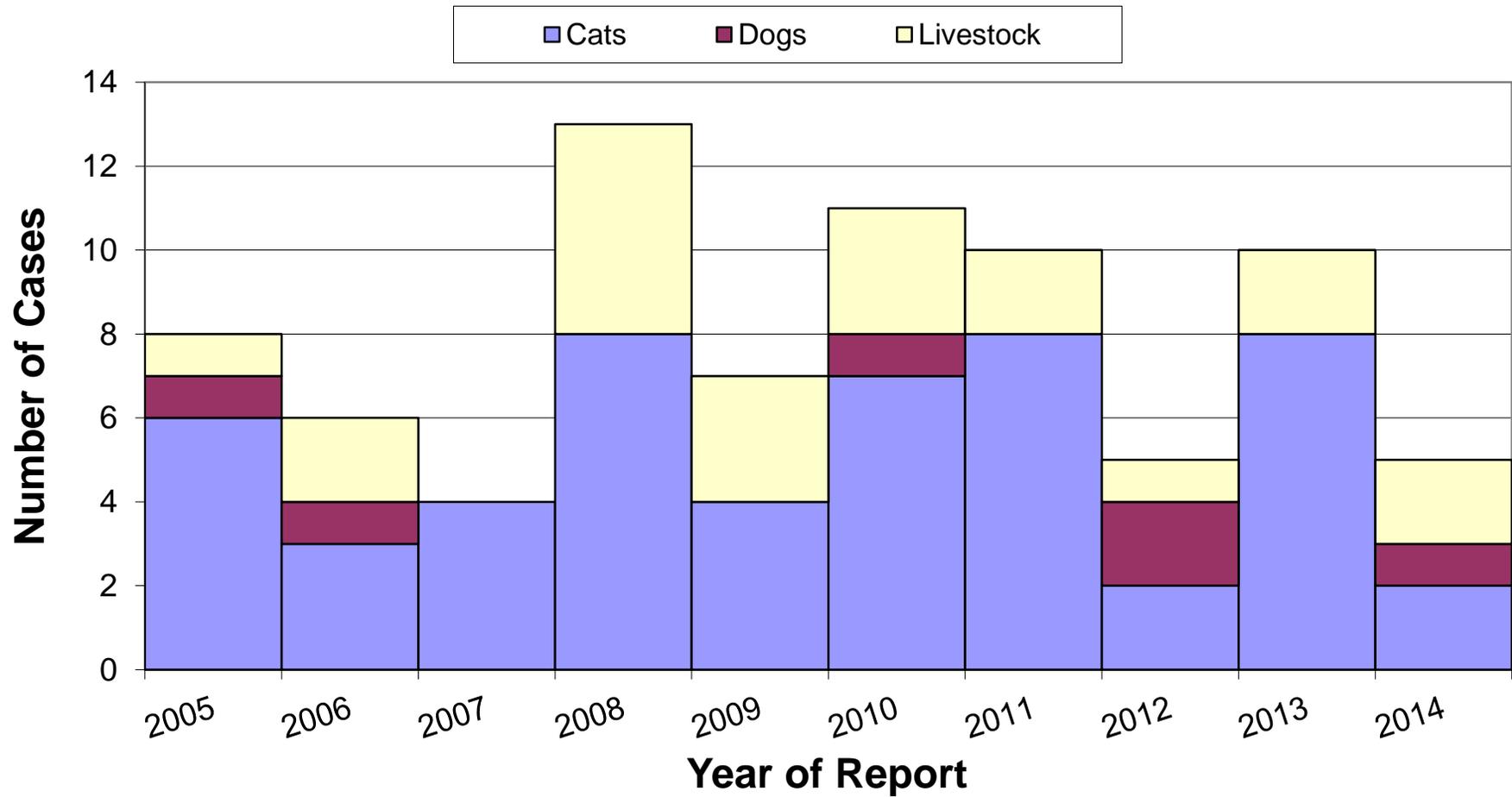
Animal Rabies Cases, West Virginia, 2005–2014, (N=945)



Animal Rabies Cases In Wildlife, West Virginia, 2005–2014, (N=866)

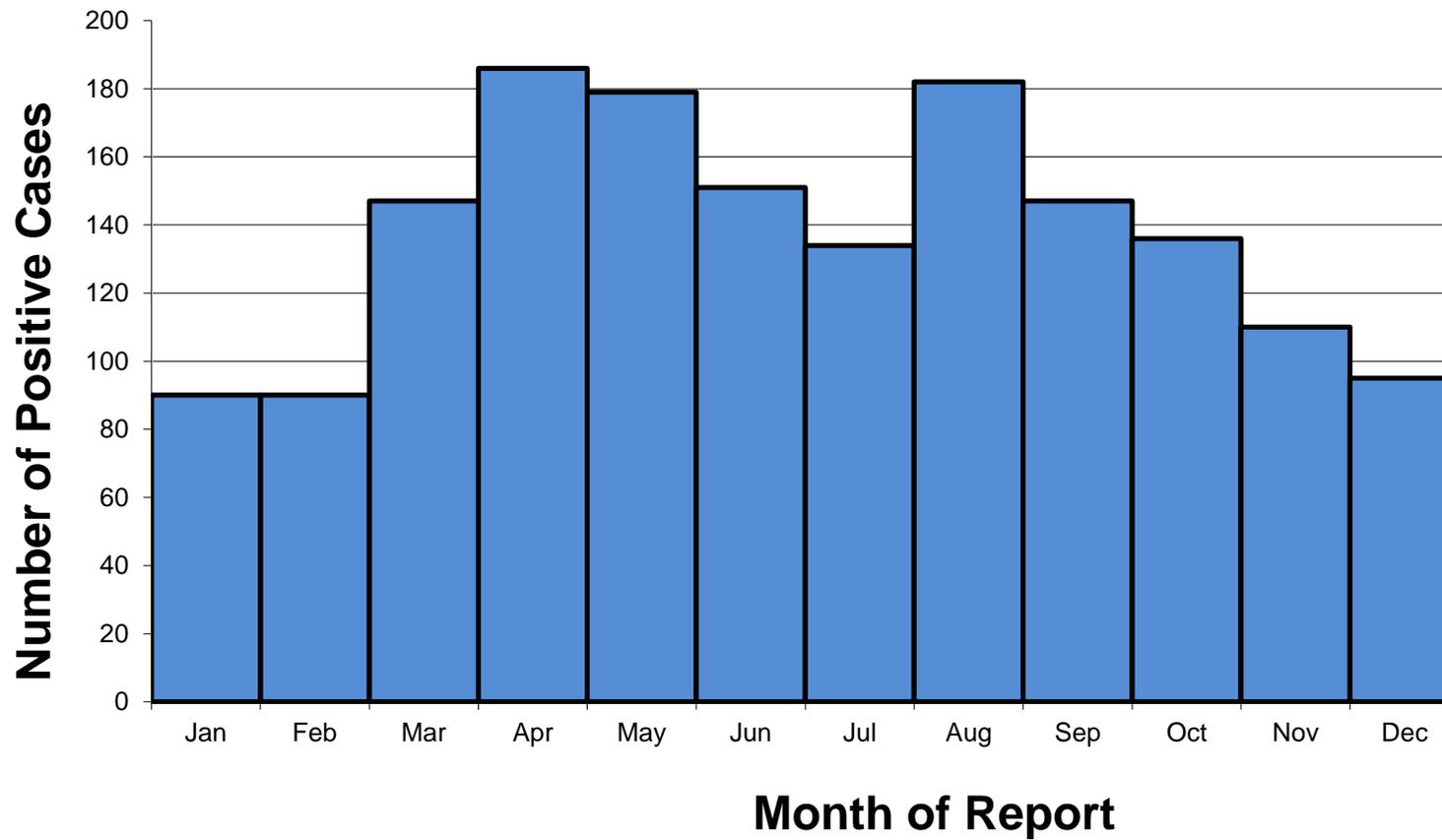


West Virginia Animal Rabies Cases in Domestic Animals and Livestock, 2005–2014, (N=79)

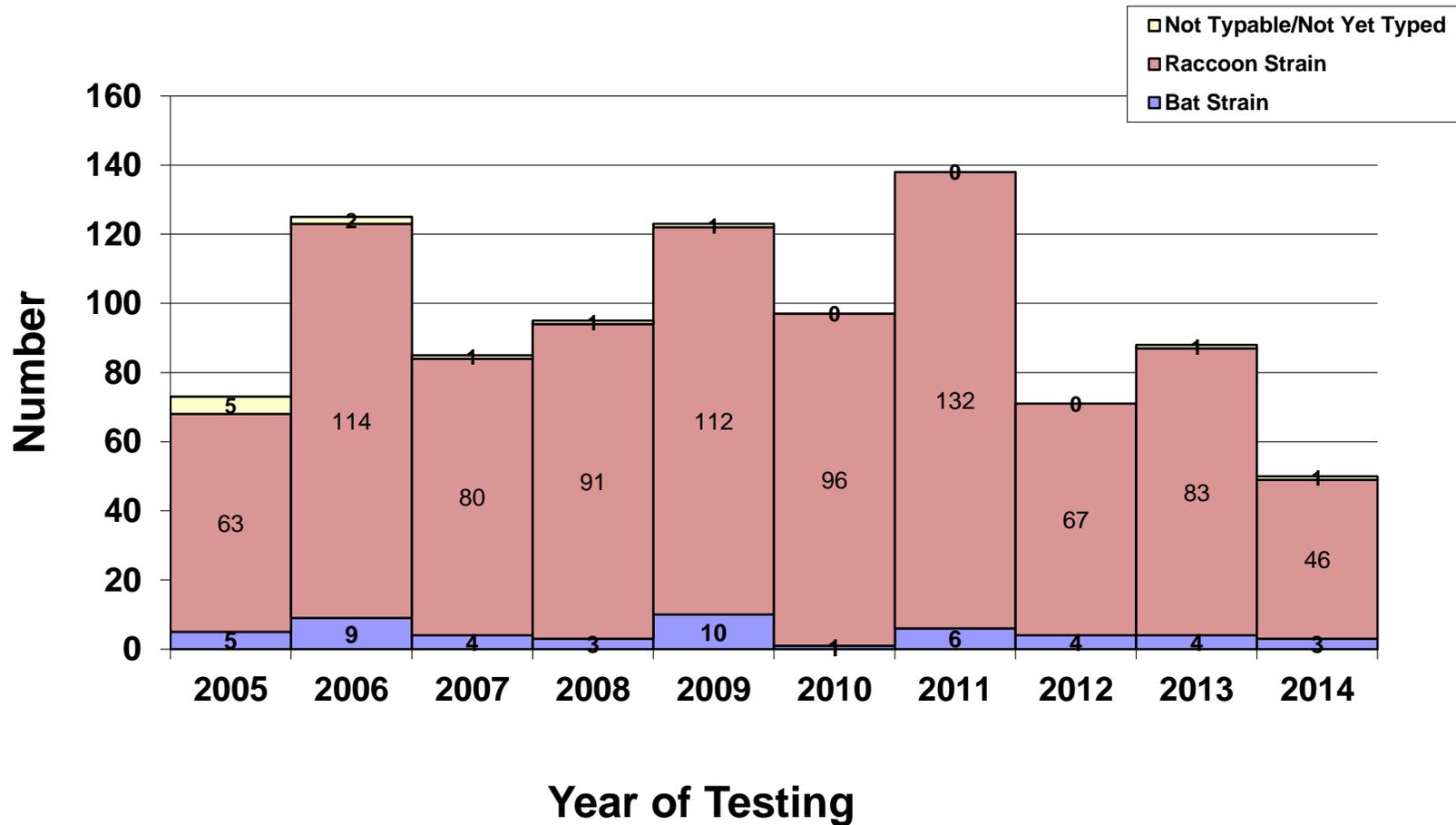


*Livestock includes cows, horses, pigs, sheep, goats and other "farm" animals.

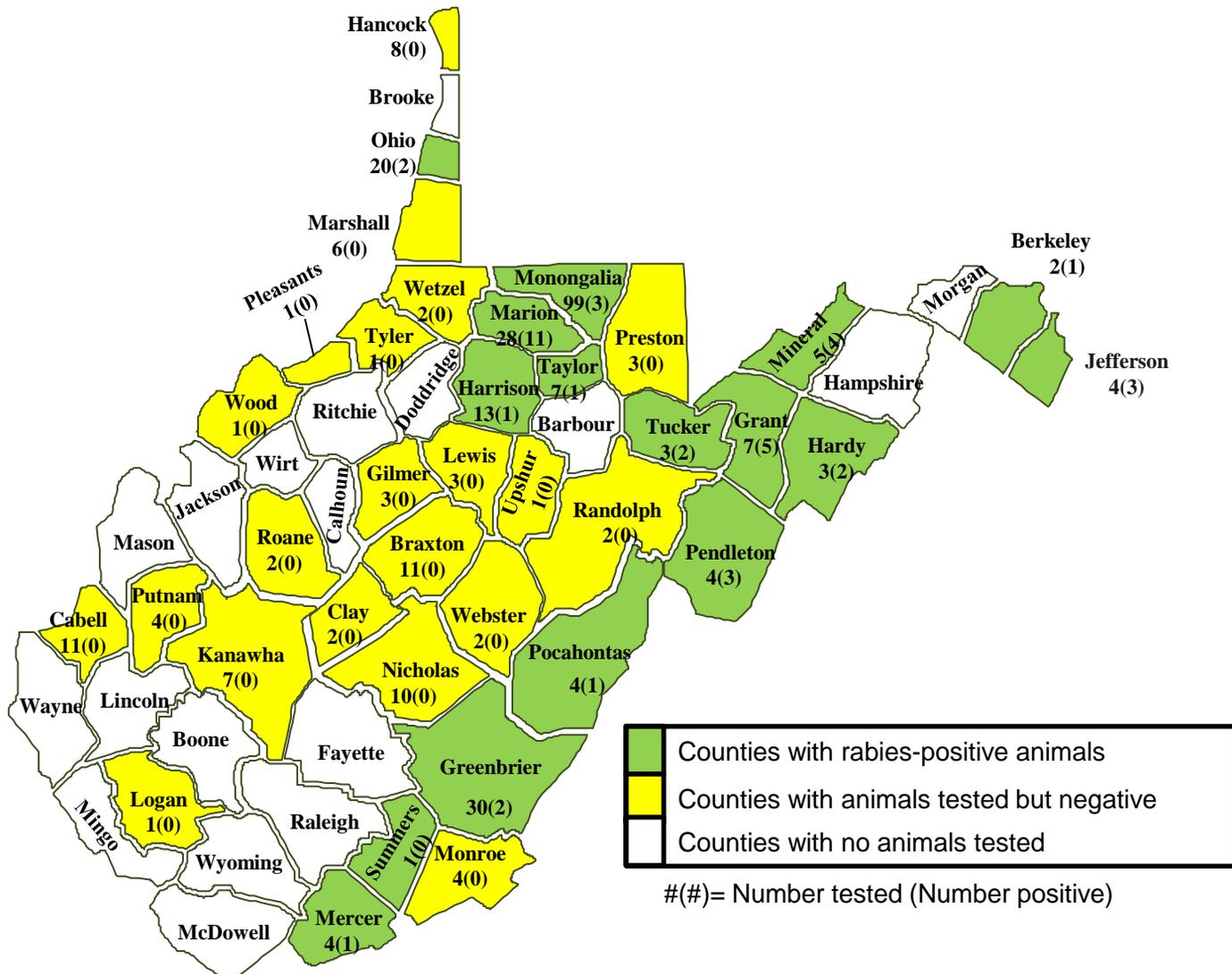
West Virginia Animal Rabies Cases by Month of Report, 2005–2014, (N=945)



DISTRIBUTION OF ANIMAL RABIES STRAIN TYPES, USING MAB TYPING, WEST VIRGINIA, 2005-2014, (N=945)



Distribution of surveillance animals¹ tested for rabies at the WVOLS and USDA– West Virginia, 2014



¹The content of the above map depicts the number (by county) of surveillance animals (defined as raccoons, skunks, foxes, or coyotes) that were tested for rabies and the number of those that tested positive for raccoon-strain rabies. Date represents samples processed by the WVOLS and USDA from January 1, 2014 to December 31, 2014.