



Missouri Gypsy Moth Survey Report 2016

Annual Summary
Of The Missouri Cooperative
Gypsy Moth Survey Program

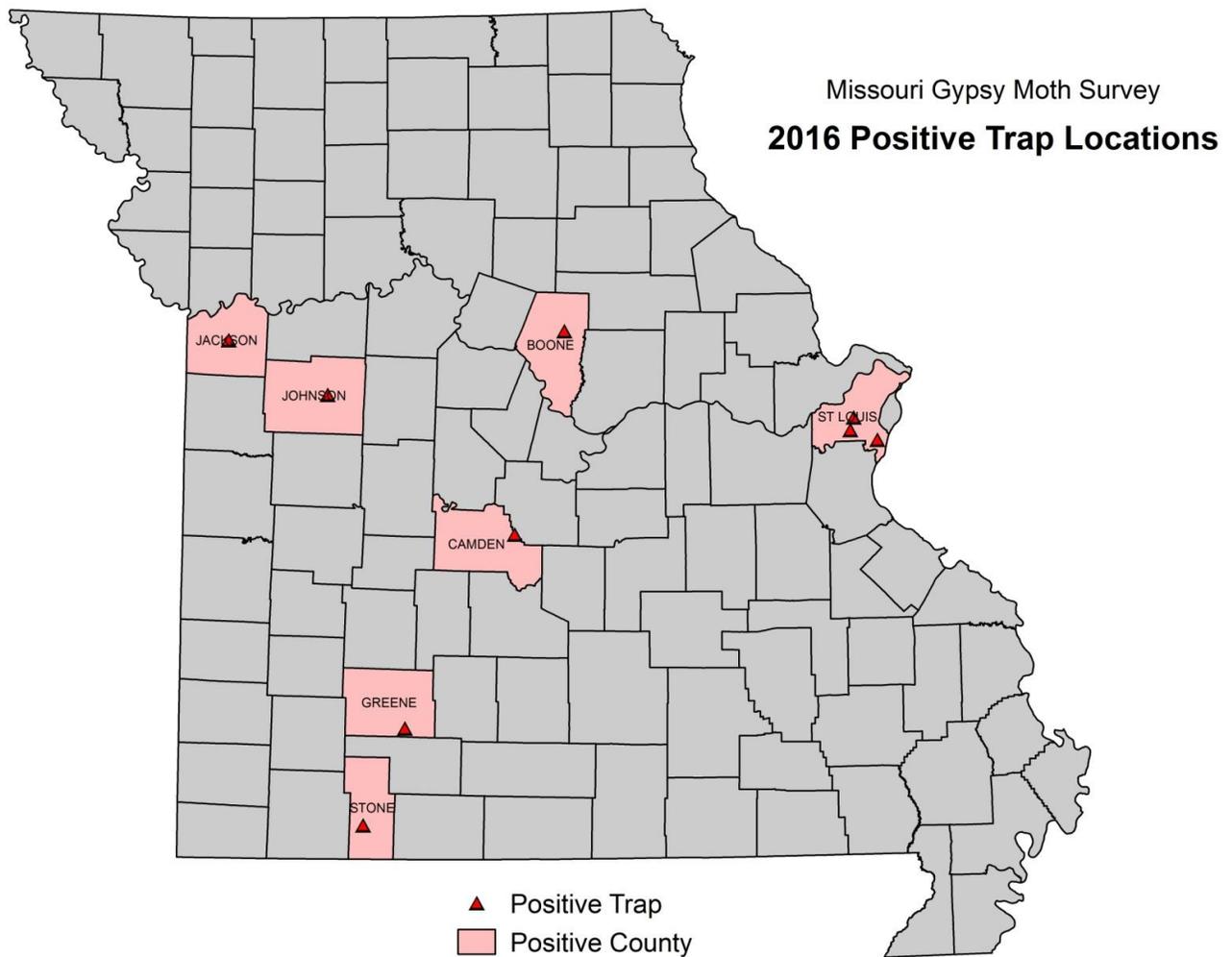
Prepared by
Sarah Phipps, Forest Pest Program Coordinator
and
Collin Wamsley, State Entomologist
Plant Pest Control Bureau
Missouri Department of Agriculture
P.O. Box 630
Jefferson City, MO 65102
(573) 751-5505
Fax: (573) 522-1109
E-mail: sarah.phipps@mda.mo.gov

2016 Gypsy Moth Survey Results

A total of 10 moths were reported from our multi-agency, statewide survey. The moths were captured in the following counties: Boone (1), Camden (1), Greene (1), Jackson (1), Johnson (1), St. Louis (4) and Stone (1). One of the traps in St. Louis County caught 2 moths. The last time more than 5 moths were collected in a single trapping season was in 2009 (22 moths total).

The moths were forwarded to the USDA OTIS lab for molecular testing and were found negative for Asian Gypsy moth.

Approximately 7,797 pheromone traps were placed around the state (58 of 114 counties) by all cooperators in the annual effort to detect the presence of this damaging insect pest. Primary trapping agencies were Missouri Department of Agriculture, Missouri Department of Conservation and USDA-APHIS-PPQ, with additional trapping conducted by U.S. Army and Missouri National Guard.



Sept. 2016

Figure 1. 2016 Missouri Gypsy Moth Positives

Table 1. Historic Gypsy Moth Trapping Data in Missouri

Year	# Traps used	Area Surveyed	# Multiple catches	Total moths taken
1967-1973	??	Limited Statewide	0	0
1974	??	Limited Statewide	0	1
1976-1979	??	Limited Statewide	0	0
1980	??	Limited Statewide	0	3
1981	3,500	1/3 of state	1	9
1982	4,200	1/3 of state	1	14
1983	5,700	1/3 of state	1	11
1984	6,000	1/3 of state	1	13
1985	5,152	1/2 of state	2	22
1986	6,900	1/2 of state	0	8
1987	7,320	1/2 of state	0	5
1988	7,600	1/2 of state	2	11
1989	7,515	86/114 counties	2	11
1990	7,432	61/114 counties	0	8
1991	6,819	65/114 counties	3	35
1992	8,721	67/114 counties	7	33
1993	9,032	48/114 counties	7	62
1994	13,000	97/114 counties	5	40
1995	12,500	85/114 counties	2	26
1996**	11,500	114/114 counties	0	6
1997	10,500	108/114 counties	2	13
1998	10,500	108/114 counties	2	17
1999	12,200	99/114 counties	1	13
2000	11,000	100/114 counties	2	12
2001	12,000	109/114 counties	1	6
2002	11,400	102/114 counties	0	4
2003	11,508	102/114 counties	0	11
2004	11,500	102/114 counties	2	18
2005	11,500	102/114 counties	0	10
2006	9,150	61/114 counties	4	17
2007	9,906	80/114 counties	0	7
2008	11,794	96/114 counties	0	10
2009	9,731	67/114 counties	3	22
2010	9,276	71/114 counties	0	2
2011	6,024	60/114 counties	0	4
2012	6,807	58/114 counties	0	1
2013	6,741	56/114 counties	0	5
2014	7,702	62/114 counties	0	4
2015	6,188	51/114 counties	0	2
2016	7,797	58/114 counties	1	10
** All counties surveyed			Total moths taken in 49 years:	506

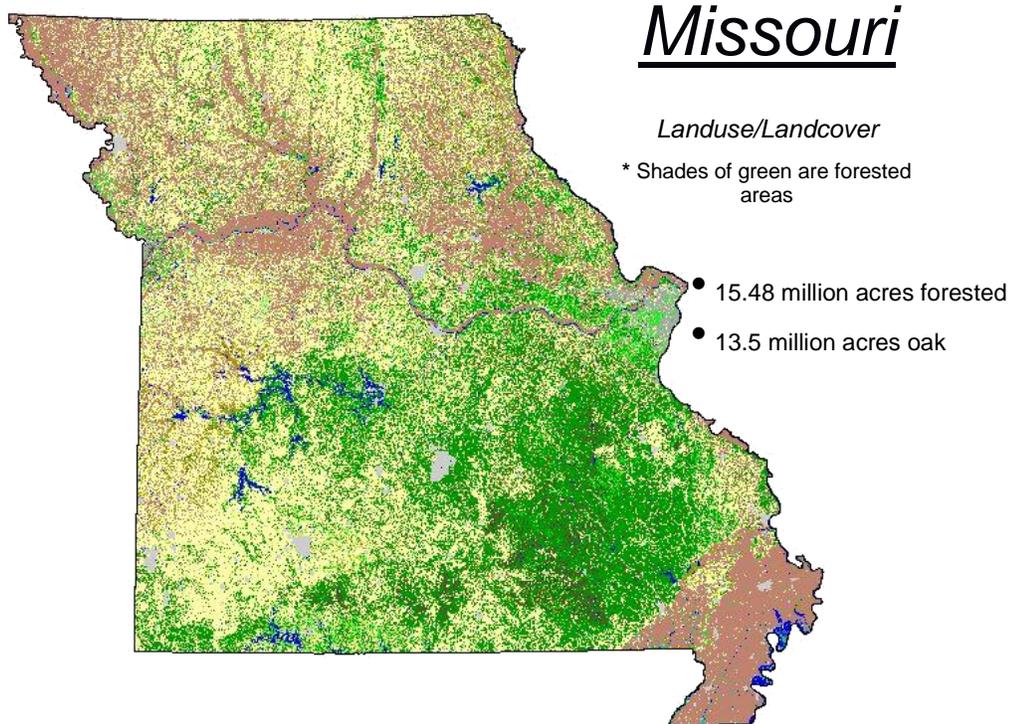


Figure 2. Missouri's Forested Area

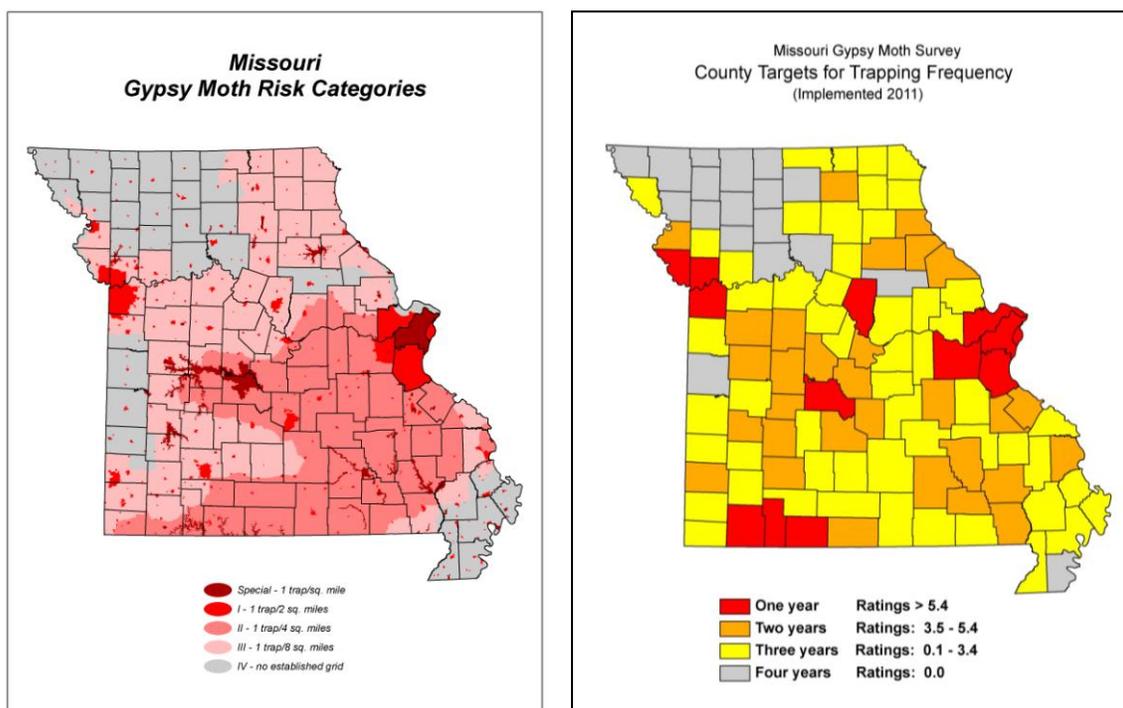


Figure 3. Gypsy Moth Risk Categories and Trap Densities (on left) and County Trapping Frequency (on right). Counties are surveyed every 1-4 years in the red areas indicated on the map on the left.

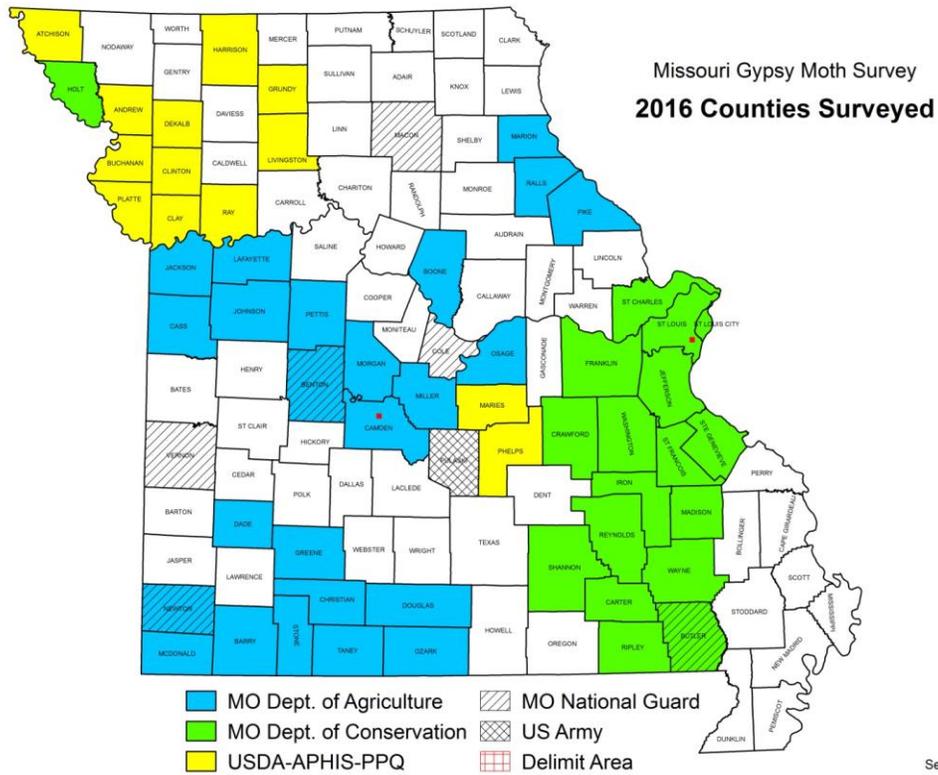


Figure 4. Missouri Gypsy Moth Survey Agency Trapping Assignments for 2016

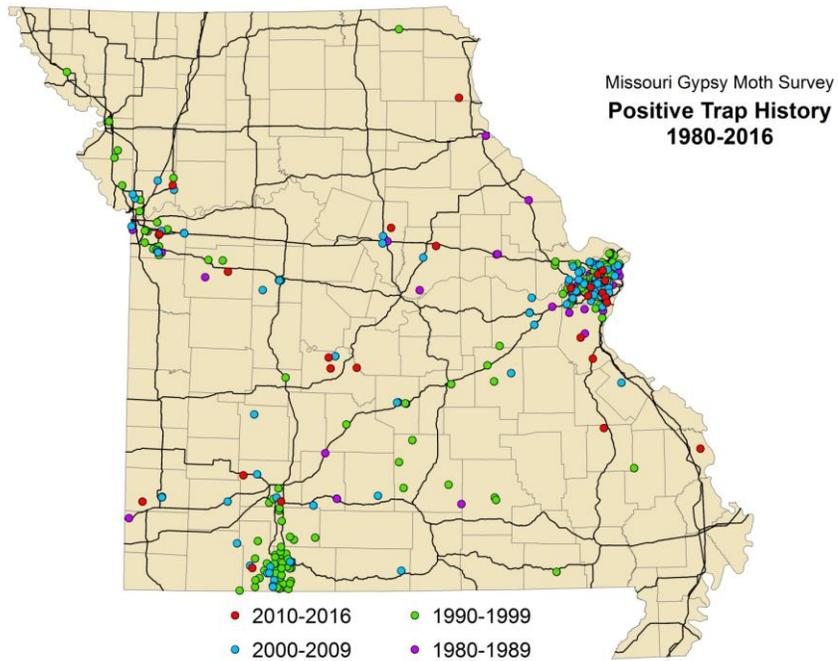


Figure 5. Gypsy moth captures 1980-2016