



Forest Health *Notes*



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2014 Gypsy Moth Trapping

BACKGROUND

The Gypsy Moth Program. The gypsy moth program in North Carolina is under the jurisdiction of the NCDA&CS – Plant Industry Division and we thank them for providing these trapping results. North Carolina is on the leading edge of the gypsy moth front and traps are set annually for male gypsy moths using pheromone-baited traps (male gypsy moths are targeted by trapping efforts because they are easily trapped due to their attraction to lab-replicated female pheromones). Through the Slow the Spread (STS) program, contractors trap the northern portion of North Carolina, while numerous cooperators trap the remainder of the state, including some overlap with STS counties. The trapping efforts provide information about gypsy moth populations and allows managers to determine and utilize the most efficient treatment methods available.

Determining Treatments. While the NCDA&CS uses trap counts to determine patterns of gypsy moth infestations, the presence of trapped male moths does not necessarily indicate there is a reproducing population in the area. Trap counts compiled over several years can reveal with more confidence whether a location is infested with a reproducing gypsy moth population or if the moths caught were likely blown in during a weather event, usually denoted by a few moths found in scattered traps. The NCDA&CS also conducts surveys at locations suspected of having reproducing populations to locate additional life stages (i.e., egg masses or pupa cases). Along with trapping data, these surveys help to determine what treatment is most appropriate for a suspected infestation.

RESULTS

2014 Trapping Results. The 2014 trapping season produced more positive trap captures within more traps than in 2013 (Table 1). A map of the 2013 gypsy moth trap catches is shown in Figure 1. For a complete list of trap catches by county, reference Table 2.

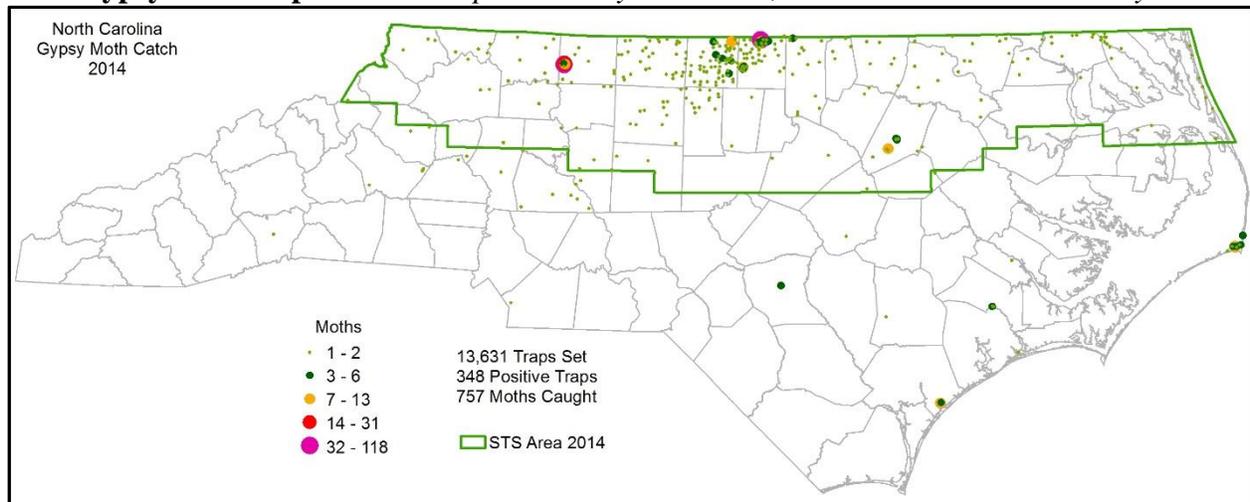
Treatments. These trap captures, along with egg mass surveys to be conducted this winter, will play a role in the determination of treatments that will be done in 2015.

Treated areas in 2014 (based on 2013 trap catches) included 1,804 acres in northwest Warren County, 174 acres in western Rockingham County, and 517 acres in northern Rockingham County.

Gypsy moth trap data from 2012-2014 trapping seasons.

	<u>2014</u>	<u>2013</u>	<u>2012</u>
Trap captures	757	431	1457
Positive traps	348	247	419
Total traps placed	13,631	10,380	11,565
Number of treatments	TBD	3	5
Total acreage of treatments	TBD	2495	3854

2014 Gypsy moth trap catches. Map created by John Kidd, NCDA&CS – Plant Industry.



2014 Gypsy moth trap catches by county.

County	Total Traps	Positive Traps	Total Catch
Alamance	166	13	15
Alexander	72	1	1
Alleghany	156	4	4
Anson	141	0	0
Ashe	167	3	3
Avery	58	1	1
Beaufort	2	0	0
Bertie	300	0	0
Bladen	6	0	0
Brunswick	91	0	0
Buncombe	157	0	0
Burke	147	4	6

County	Total Traps	Positive Traps	Total Catch
Cabarrus	113	0	0
Caldwell	121	2	2
Camden	158	6	7
Carteret	37	0	0
Caswell	374	61	92
Catawba	122	1	1
Chatham	227	0	0
Cherokee	10	0	0
Chowan	87	1	1
Clay	1	0	0
Cleveland	3	0	0
Columbus	198	0	0

County	Total Traps	Positive Traps	Total Catch
Craven	185	1	1
Cumberland	170	1	6
Currituck	281	3	3
Dare	148	14	38
Davidson	164	4	4
Davie	57	1	1
Duplin	211	1	1
Durham	151	0	0
Edgecombe	141	1	1
Forsyth	140	3	3
Franklin	284	2	2
Gaston	97	0	0
Gates	242	10	10
Graham	45	0	0
Granville	388	15	17
Greene	0	0	0
Guilford	202	11	14
Halifax	447	6	6
Harnett	2	0	0
Haywood	108	0	0
Henderson	91	1	1
Hertford	227	4	5
Hoke	71	0	0
Hyde	15	0	0
Iredell	66	3	3
Jackson	105	0	0
Johnston	220	2	2
Jones	23	4	9
Lee	74	0	0
Lenoir	0	0	0
Lincoln	0	0	0
Macon	93	0	0
Madison	103	0	0
Martin	43	0	0
McDowell	119	0	0
Mecklenburg	168	0	0
Mitchell	58	0	0
Montgomery	1	0	0
Moore	200	0	0
Nash	212	11	31

County	Total Traps	Positive Traps	Total Catch
New Hanover	63	0	0
Northampton	360	10	11
Onslow	40	1	1
Orange	218	2	2
Pamlico	78	0	0
Pasquotank	154	4	5
Pender	47	2	16
Perquimans	153	0	0
Person	268	53	224
Pitt	190	0	0
Polk	55	0	0
Randolph	220	2	2
Richmond	131	0	0
Robeson	5	0	0
Rockingham	418	32	34
Rowan	147	6	7
Rutherford	155	0	0
Sampson	4	0	0
Scotland	84	0	0
Stanly	117	0	0
Stokes	334	12	134
Surry	344	7	7
Swain	4	0	0
Transylvania	58	0	0
Tyrrell	40	2	2
Union	170	1	1
Vance	188	4	4
Wake	263	2	2
Warren	338	6	6
Washington	98	0	0
Watauga	100	0	0
Wayne	6	0	0
Wilkes	240	3	4
Wilson	111	1	1
Yadkin	114	3	3
Yancey	50	0	0
TOTAL	13631	348	757