



Forest Health *Notes*



VOLUME 201503-GM

December 2015

2015 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 results. North Carolina is on the leading edge of the expanding gypsy moth front. To prevent further establishment of gypsy moth in our state, traps are set annually for male gypsy moths using pheromone-baited traps (the bait mimics the pheromone produced by female gypsy moths). 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. In addition to this year's trap counts, trap counts over the past several years and results from winter egg and pupal case surveys help to determine what treatment is most appropriate for a suspected infestation. Combined, these data 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.



A female gypsy moth and her egg mass, picture taken by Chris Elder (NCDA&CS – Plant Industry) in Buxton, NC.

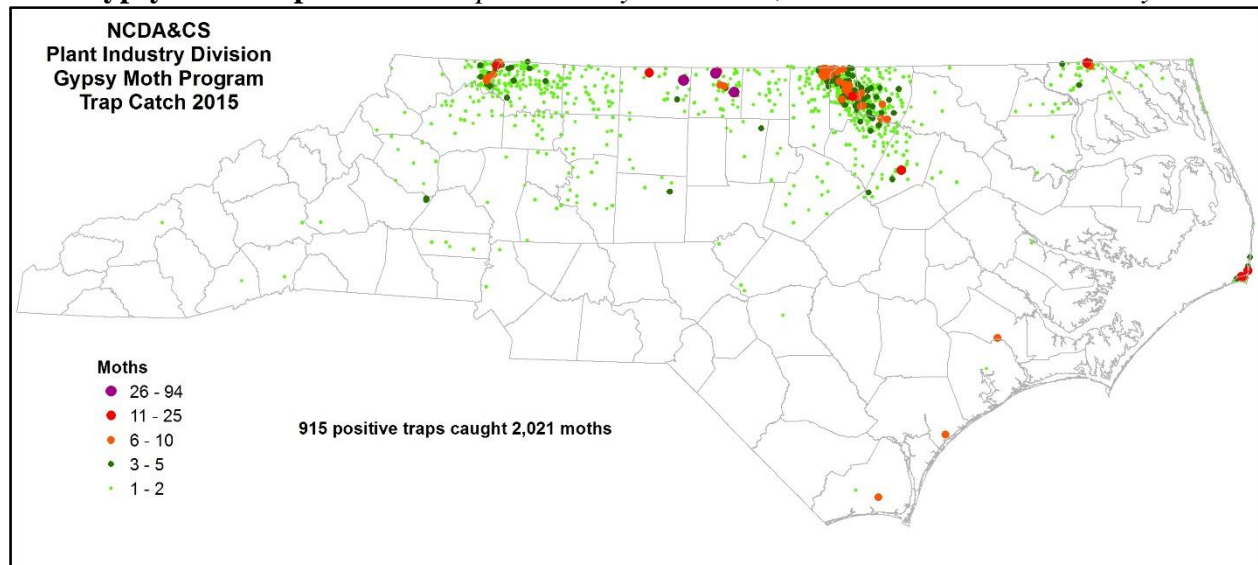
RESULTS

2015 Trapping Results. The 2015 trapping season produced more positive trap captures within more traps than in 2014 (see table & map of trap capture locations below). For a list of trap catches by county, reference the table at the end of this publication.

Gypsy moth trap data from 2012-2015 trapping seasons.

	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Total moths captured	2,021	757	431	1457
Number positive traps	915	348	247	419
Total traps placed	12,939	13,631	10,380	11,565
Number of treatments	TBD	3	3	5
Total acreage of treatments	TBD	21,250	2,495	3,854

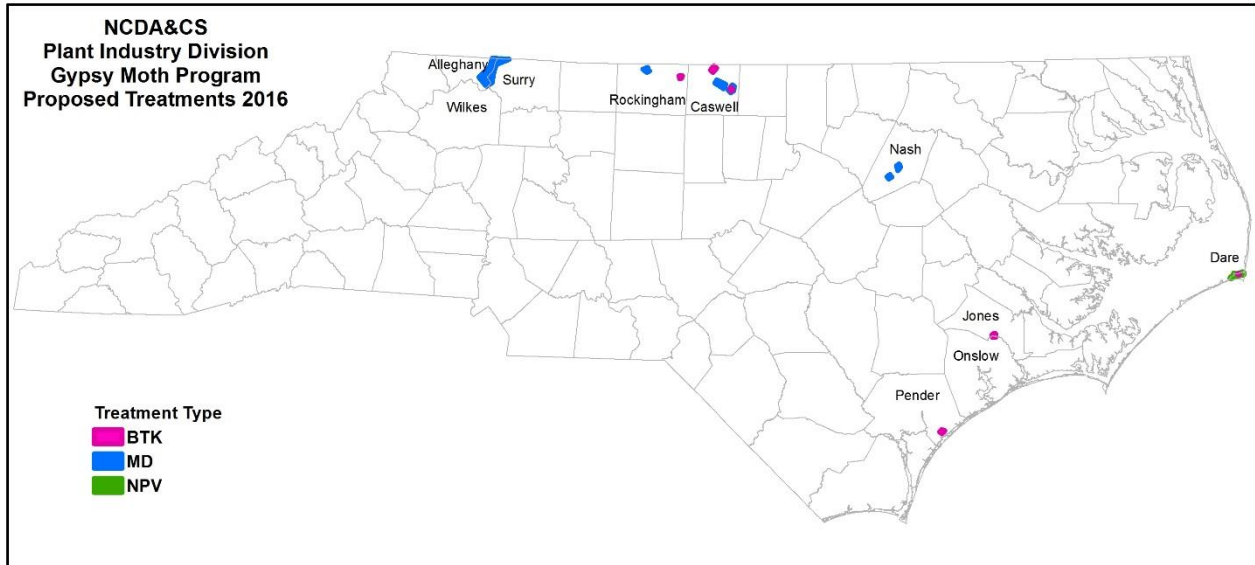
2015 Gypsy moth trap catches. *Map created by John Kidd, NCDA&CS – Plant Industry.*



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 2016. The proposed treatment areas for next year are shown on the map below and are subject to change. Public meetings will be held for each of the treatment areas.

Treated areas that were done this year (based on 2014 trap catches) included 1,804 acres in northwest Warren County, 174 acres in western Rockingham County, and 517 acres in northern Rockingham County. All three areas were treated with mating disruption (pheromone flakes that reduce the ability of the male moths to find a female moth).

Proposed 2016 gypsy moth treatment locations and type. BTK- a bacterial pesticide used in the control of larvae; MD – Mating disruption (pheromone flakes); NPV – Gypchek, a viral disease specific to the gypsy moth. *Map created by John Kidd, NCDA&CS – Plant Industry.*



2015 Gypsy moth trap catches by county.

County	Traps Set	Positive Traps	Moths Caught
Alamance	125	0	0
Alexander	30	0	0
Alleghany	139	46	118
Ashe	166	2	2
Avery	58	0	0
Beaufort	228	1	1
Bertie	305	3	3
Bladen	248	0	0
Brunswick	228	2	10
Buncombe	150	1	1
Burke	149	7	12
Cabarrus	106	0	0
Caldwell	117	7	7
Camden	158	6	8
Carteret	44	0	0
Caswell	529	60	340
Catawba	5	0	0
Chatham	205	0	0
Cherokee	91	0	0
Chowan	85	0	0
Clay	1	0	0

County	Traps Set	Positive Traps	Moths Caught
Cleveland	3	0	0
Columbus	2	0	0
Craven	12	0	0
Cumberland	49	1	1
Currituck	237	17	18
Dare	158	35	98
Davidson	164	11	11
Davie	57	3	3
Duplin	3	0	0
Durham	119	3	3
Edgecombe	149	3	3
Forsyth	125	9	10
Franklin	214	57	79
Gates	230	28	56
Graham	1	0	0
Granville	354	62	152
Greene	79	0	0
Guilford	203	4	5
Halifax	451	6	6
Harnett	172	2	2
Haywood	95	0	0

County	Traps Set	Positive Traps	Moths Caught
Henderson	90	1	1
Hertford	229	8	9
Hoke	109	0	0
Hyde	10	0	0
Iredell	173	2	2
Jackson	99	0	0
Johnston	229	1	1
Jones	20	4	20
Lee	74	1	1
Lenoir	107	0	0
Lincoln	87	4	5
Macon	8	0	0
Madison	100	0	0
Martin	123	0	0
McDowell	96	1	1
Mecklenburg	166	2	2
Mitchell	57	0	0
Montgomery	128	0	0
Nash	269	37	70
New Hanover	76	0	0
Northampton	360	1	1
Onslow	138	1	1
Orange	182	5	8
Pamlico	1	0	0
Pasquotank	154	1	1
Pender	69	11	33
Perquimans	152	2	2

County	Traps Set	Positive Traps	Moths Caught
Person	256	21	23
Pitt	3	0	0
Polk	1	0	0
Randolph	206	4	6
Richmond	1	0	0
Robeson	5	0	0
Rockingham	439	28	113
Rowan	154	5	6
Rutherford	1	0	0
Sampson	274	0	0
Scotland	4	0	0
Stanly	3	0	0
Stokes	260	36	39
Surry	280	103	157
Swain	2	1	1
Transylvania	59	1	1
Tyrrell	66	0	0
Union	3	0	0
Vance	191	105	305
Wake	247	12	12
Warren	388	98	205
Washington	42	0	0
Watauga	97	2	2
Wayne	167	0	0
Wilkes	229	26	27
Wilson	39	0	0
Yadkin	100	15	17
Yancey	72	0	0
Total	12939	915	2021

For updates on gypsy moth treatments, visit the Gypsy Moth Program website at <http://www.ncagr.gov/plantindustry/Plant/entomology/GM.htm>