



Forest Health *Notes*



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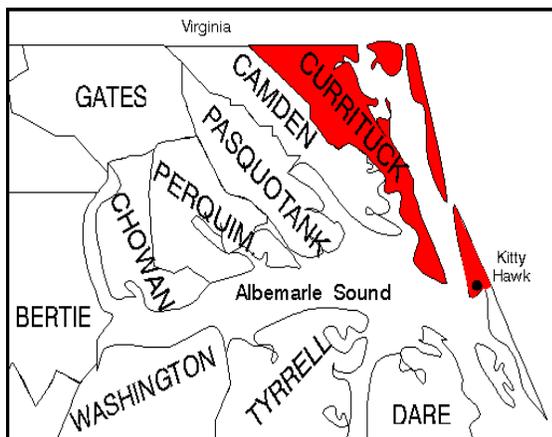
2016-2017 Gypsy Moth Trapping

BACKGROUND

The Gypsy Moth Program. The gypsy moth program in N.C. 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.



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



Quarantined Area. All of Currituck County and part of Dare County are under a quarantine for gypsy moth (this area was quarantined in 1988). Regulated articles (e.g., logs, nursery plants, outdoor household articles) can only leave the quarantined area if they are inspected or treated (must also have a compliance agreement with NCDA&CS – Plant Industry Division).

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.

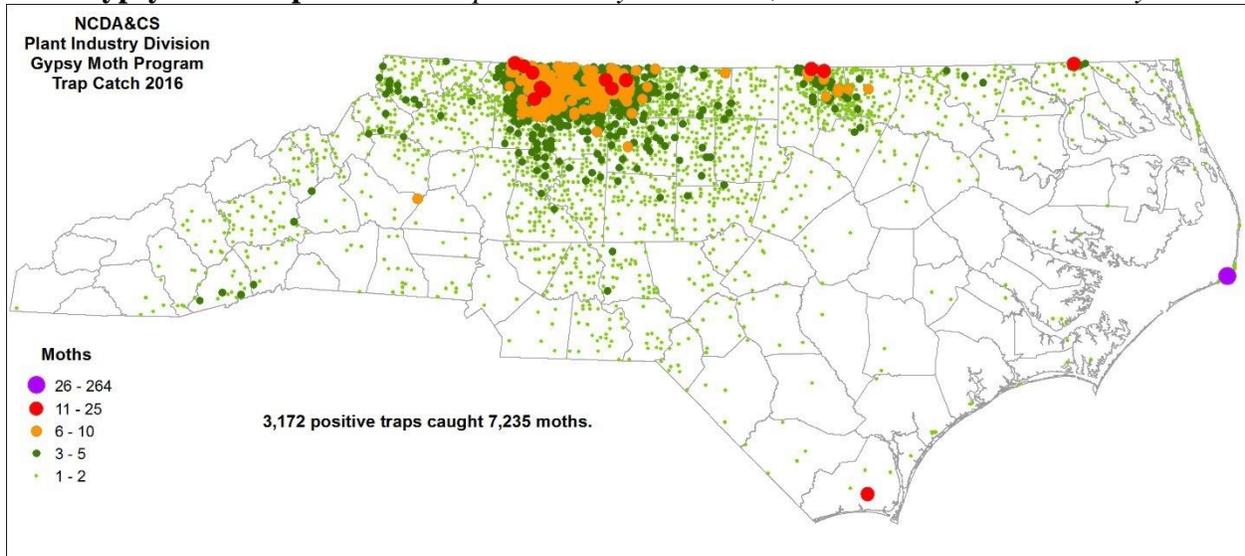
RESULTS

2016 Trapping Results. The 2016 trapping season produced more positive trap captures within more traps than in 2015 (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 2012-2016.

	<u>2016-17</u>	<u>2015-16</u>	<u>2014-15</u>	<u>2013-14</u>	<u>2012-13</u>
Total moths captured	7,235	2,021	757	431	1457
Number positive traps	3,172	915	348	247	419
Total traps placed	17,897	12,939	13,631	10,380	11,565
Number of sites treated	6 (proposed)	11	3	3	5
Total acreage of treatments	27,865 (proposed)	35,019	21,250	2,495	3,854

2016 Gypsy moth trap catches. Map created by John Kidd, NCDA&CS – Plant Industry.



Proposed 2017 Treatments. Based on the 2016 trap captures and winter surveys, six areas were selected to receive treatments in 2017. Treatments areas can be viewed on a map at <http://www.ncagr.gov/plantindustry/Plant/entomology/ProposedGypsyMothTreatments.htm>

BLOCK NAME	COUNTY	ACRES	TREATMENT TYPE	NO. OF APPLICATIONS
Bolivia	Brunswick	774	BTK	2
Buxton	Dare	750	NPV	3
Corapeake	Gates/Camden	10143	MD	1
Long View	Burke	682	MD	1
Middleburg	Warren/Vance	14861	MD	1
Warrenton	Vance	655	MD	1

Treatment types: 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.

2016 Gypsy moth trap catches by county.

County	Traps Set	Positive Traps	Moths Caught
Alamance	125	53	78
Alexander	77	4	4
Alleghany	157	31	38
Anson	149	25	33
Ashe	240	66	107
Avery	57	8	10
Beaufort	238	2	2
Bertie	309	7	7
Bladen	237	1	1
Brunswick	268	8	31
Buncombe	151	34	43
Burke	170	18	36
Cabarrus	103	20	24
Caldwell	125	21	25
Camden	159	9	9
Carteret	114	3	3
Caswell	334	97	143
Catawba	119	3	3
Chatham	197	55	74
Cherokee	98	1	1
Chowan	89	3	3
Clay	38	0	0
Cleveland	133	13	15

County	Traps Set	Positive Traps	Moths Caught
Columbus	238	5	5
Craven	171	3	3
Cumberland	206	6	7
Currituck	239	17	20
Dare	477	55	616
Davidson	153	73	104
Davie	75	53	93
Duplin	234	2	2
Durham	120	22	24
Edgecombe	149	6	6
Forsyth	140	93	221
Franklin	380	26	33
Gaston	105	6	6
Gates	256	41	94
Graham	38	0	0
Granville	395	132	323
Greene	77	0	0
Guilford	202	114	199
Halifax	452	30	34
Harnett	173	8	9
Haywood	97	14	15
Henderson	85	11	18
Hertford	228	17	18

County	Traps Set	Positive Traps	Moths Caught
Hoke	103	9	10
Hyde	131	1	1
Iredell	176	20	22
Jackson	104	10	10
Johnston	227	5	6
Jones	115	0	0
Lee	74	10	10
Lenoir	110	2	2
Lincoln	85	3	4
Macon	98	5	6
Madison	108	1	1
Martin	130	2	2
McDowell	91	6	7
Mecklenburg	163	3	3
Mitchell	58	15	17
Montgomery	133	36	43
Moore	125	11	13
Nash	178	9	9
New Hanover	71	1	2
Northampton	360	44	54
Onslow	185	2	2
Orange	206	61	78
Pamlico	93	3	3
Pasquotank	154	1	2
Pender	267	5	6
Perquimans	154	4	4

County	Traps Set	Positive Traps	Moths Caught
Person	331	45	56
Pitt	189	0	0
Polk	54	1	2
Randolph	242	70	83
Richmond	119	13	15
Robeson	262	5	5
Rockingham	423	294	856
Rowan	148	44	63
Rutherford	148	4	6
Sampson	266	1	1
Scotland	87	8	9
Stanly	114	28	30
Stokes	350	317	1238
Surry	371	281	1086
Swain	39	0	0
Transylvania	55	13	22
Tyrrell	86	0	0
Union	182	6	6
Vance	558	190	331
Wake	248	19	19
Warren	574	114	161
Washington	97	0	0
Watauga	97	36	56
Wayne	169	0	0
Wilkes	309	98	125
Wilson	116	3	3
Yadkin	115	81	184
Yancey	72	16	21
Total	17,897	3,172	7,235

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