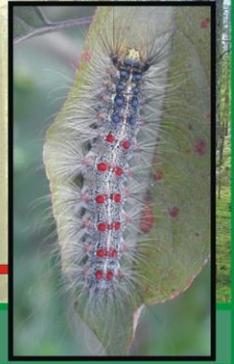




Forest Health *Notes*



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2009 Gypsy Moth Trapping Results

The 2009 statewide gypsy moth trapping has been completed and once again North Carolina avoided gypsy moth establishment, though Currituck County and a portion of Dare County remain in quarantine for the insect.

North Carolina is on the leading edge of the gypsy moth front and as such all 100 counties are trapped each year for male gypsy moths using pheromone-baited traps. Male gypsy moths are targeted by trapping efforts because female gypsy moths do not fly. The gypsy moth program in North Carolina is currently under the jurisdiction of the N.C. Department of Agriculture (NCDA) – Plant Industry Division and we thank them for providing us with these trapping results.

Contractors, through a federal program called Slow The Spread (STS), trap the northern portion of North Carolina, while numerous cooperators including the Division of Forest Resources trap the remainder of the state, including some overlap with STS counties. The trapping efforts provide gypsy moth population information that allows managers to utilize the most efficient treatment methods available.

NCDA uses the trap counts to determine patterns of gypsy moth infestations, though the presence of trapped male moths does not necessarily indicate there is a reproducing gypsy moth 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.

NCDA also conducts surveys at locations suspected of having reproducing populations to locate additional life stages (ie, egg masses or pupa cases). Along with trapping data, these surveys help NCDA to determine what treatment is most appropriate for a suspected infestation. These surveys are ongoing.

Last winter, trap data from 2008 was compared with data from prior years and five locations in North Carolina were treated. Three new localized gypsy moth infestations – two in Currituck County and one in Dare County – and two previously treated infestations – one each in Granville and Warren County – were treated in early spring. 2009 monitoring data showed that four of these treatments were successful, while the treatment in extreme northeast Currituck County was not.

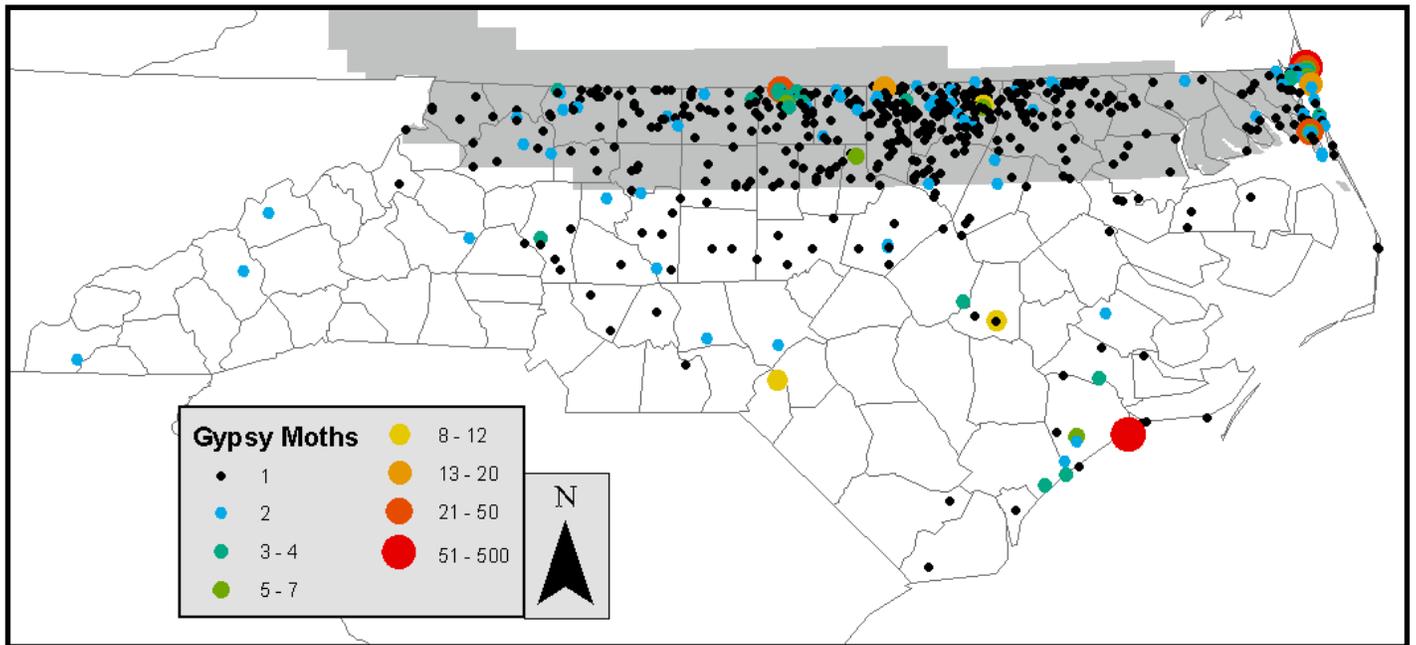
This year, 11 counties throughout the state were either entirely or partially trapped by DFR personnel. We'd like to recognize and send a big thank you to the following counties for their assistance in this year's trapping effort: Alexander, Anson, Davidson, Jones, Madison, Onslow, Polk, Randolph, Richmond, Rutherford, and Washington. The information these counties provided is very valuable in the ongoing efforts to monitor this pest.

Statewide there were 18,857 traps placed by contractors, including 1,550 by DFR personnel. Of those, a total of 610 traps were classified as positive, meaning they caught at least one gypsy moth, and 4,187 moths were caught in total. The appendix contains a map of the trap catches and a summary of the trapping results for this year outlining how many traps were set in each county, how many traps were positive and the total number of moths caught in each county. As the trapping map shows, Bear Island in Onslow County has a large, but isolated population of gypsy moth. NCDA is developing strategies to control and possibly eradicate this population.

Prospects for 2010

NCDA is proposing treatment of eight localized gypsy moth infestations. These are located in Onslow, Wayne, Caswell (2), Warren, and Currituck (3) counties. Six blocks are proposed to be treated in the early spring to target the larval stage; the larvae are responsible for damaging the trees. The remaining two blocks (one each in Caswell and Currituck counties) are proposed to be treated in late spring to disrupt gypsy moth mating.

2009 Gypsy Moth Trap Catches (Grey shading is the STS area)



2009 Gypsy Moth Trapping Results by County

Counties in *bold italics* were trapped by DFR personnel.
All counties in grey were negative for gypsy moth.

County Name	Total Traps	Positive Traps	Gypsy Moths	County Name	Total Traps	Positive Traps	Gypsy Moths
Alamance	247	6	6	<i>Jones</i>	<i>124</i>	<i>2</i>	<i>5</i>
<i>Alexander</i>	<i>75</i>	<i>0</i>	<i>0</i>	Lee	72	0	0
Alleghany	154	1	1	Lenoir	117	0	0
<i>Anson</i>	<i>144</i>	<i>1</i>	<i>1</i>	Lincoln	261	0	0
Ashe	282	0	0	McDowell	99	0	0
Avery	53	1	1	Macon	136	0	0
Beaufort	243	0	0	<i>Madison</i>	<i>101</i>	<i>1</i>	<i>2</i>
Bertie	404	7	7	Martin	140	2	2
Bladen	234	0	0	Mecklenburg	164	0	0
Brunswick	302	1	1	Mitchell	46	0	0
Buncombe	159	0	0	Montgomery	161	1	2
Burke	125	1	2	Moore	200	1	2

County Name	Total Traps	Positive Traps	Gypsy Moths	County Name	Total Traps	Positive Traps	Gypsy Moths
Cabarrus	108	2	2	Nash	246	6	8
Caldwell	112	0	0	New Hanover	95	1	1
Camden	146	7	7	Northampton	363	33	35
Carteret	129	4	4	Onslow	189	35	3,004
Caswell	412	43	116	Orange	210	8	8
Catawba	117	0	0	Pamlico	78	0	0
Chatham	264	5	5	Pasquotank	159	5	6
Cherokee	106	1	2	Pender	220	2	8
Chowan	120	0	0	Perquimans	177	1	1
Clay	41	0	0	Person	267	21	25
Cleveland	126	0	0	Pitt	232	1	1
Columbus	244	1	1	Polk	60	0	0
Craven	197	2	3	Randolph	231	2	2
Cumberland	200	0	0	Richmond	137	0	0
Currituck	251	100	516	Robeson	260	0	0
Dare	164	5	5	Rockingham	471	20	24
Davidson	165	5	7	Rowan	144	1	1
Davie	102	0	0	Rutherford	147	0	0
Duplin	282	0	0	Sampson	285	0	0
Durham	160	6	10	Scotland	91	1	9
Edgecombe	201	3	3	Stanly	124	1	1
Forsyth	349	4	4	Stokes	309	17	18
Franklin	294	19	20	Surry	343	17	22
Gaston	103	0	0	Swain	46	0	0
Gates	230	4	5	Transylvania	66	0	0
Graham	40	0	0	Tyrrell	88	1	1
Granville	448	43	62	Union	168	0	0
Greene	77	0	0	Vance	195	25	28
Guilford	342	9	9	Wake	277	6	8
Halifax	485	24	26	Warren	391	70	95
Harnett	177	0	0	Washington	109	2	2
Haywood	139	1	2	Watauga	137	0	0
Henderson	92	0	0	Wayne	206	5	15
Hertford	230	4	4	Wilkes	363	3	5
Hoke	120	0	0	Wilson	155	0	0
Hyde	148	0	0	Yadkin	196	2	2
Iredell	174	4	7	Yancey	73	0	0
Jackson	141	0	0	Total	18,857	610	4,187
Johnston	270	3	5				

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