

# 2010 Aerial Survey Results: Durham Field Office



Forest Service, U.S Department of Agriculture  
Northeastern Area State and Private Forestry  
Forest Health Protection, Durham, NH  
<http://www.na.fs.fed.us/fhp/index.shtm>

February 2011

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## 2010 Aerial Detection Survey Results: Durham Field Office

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Aerial surveys are conducted annually nationwide to evaluate tree health and identify stress problems across the landscape. The surveys are carried out on State and private lands in New York and New England through the U.S. Forest Service Cooperative Forest Health Program, in partnership with the following cooperating agencies:

- The Connecticut Agricultural Experiment Station
- Maine Forest Service
- Massachusetts Department of Conservation and Recreation
- New Hampshire Department of Resources and Economic Development
- New York Department of Environmental Conservation
- Rhode Island Department of Environmental Management
- Vermont Department of Forests, Parks and Recreation

Aerial detection surveys of Federal and Tribal lands are carried out by personnel from the Durham Field Office. These aerial surveys have been conducted within the Durham Field Office, Northeastern Area State and Private Forestry region since 1989. Data is collected using a digital aerial sketchmapping system following national standards to provide standardized information on biotic and abiotic damage to forested ecosystems.

In 2010, the forest land within this region was again evaluated during aerial surveys to map forest health conditions. In 2010, the total area of damage mapped throughout New York and New England was 2,325,863 acres. This was an increase of 1,314,425 acres over the total of 1,011,438 acres of damage mapped in 2009. Results from previous aerial detection surveys (1997 to 2009) can be viewed using the Forest Health Aerial Survey Viewer for Northeastern Area State and Private Forestry located at <http://na.fs.fed.us/fhp/ta/av/index.shtm>.



*An aerial surveyor uses a digital aerial sketchmapping system to collect forest damage information.*

## Summary of Aerial Survey Damage in New York and the New England States

In Connecticut, only about 3,700 acres of damage were mapped in 2010. Over 1,000 acres were reported as having trees with broken main stems, which resulted from severe windstorm events. Foliage discoloration was reported on about 1,800 acres, mainly on hemlock woolly adelgid-infested trees.

In Maine, almost 150,000 acres of damage were mapped, all attributed to discoloration and defoliation. Browning of white pine from needle cast diseases was reported on 60,000 acres and about 52,000 acres of northern white cedar decline was observed. Additional significant damage was caused by browntail moth, large aspen tortrix, and spring frost.

In Massachusetts, over 118,000 acres of damage were reported. Defoliation impacted about half of this area, and discoloration and mortality affected less acreage. Almost all of the defoliation was caused by the winter moth, with little damage from gypsy moth or forest tent caterpillar. Over 40,000 acres of damage were mapped due to the May frost event. Additional damage was attributed to red pine scale and ash decline.

In New Hampshire, little damage was observed, with about 3,600 acres mapped. Most of the damage was discoloration from beech bark disease and maple leaf spot, with additional acreage defoliated by oak leaftier and pear trips. White pine trees affected by various needlecast diseases in early spring had recovered prior to the aerial survey and therefore were not captured in the damage estimates.

In New York, over 1.5 million acres of damage were mapped, mostly attributed to discoloration and defoliation with lesser amounts of mortality. Almost all of the damage was caused by late spring frost and forest tent caterpillar defoliation. Additional damage was observed from other hardwood defoliators and hemlock woolly adelgid.

In Rhode Island, about 16,700 acres were damaged, mostly from defoliation and tree mortality. Almost all of the defoliation was caused by the winter moth, and a complex of hardwood defoliators caused over 3,000 acres of mortality.

In Vermont, more than 480,000 acres of damage were reported. Most of the damage was defoliation from the widespread frost that occurred in May, including areas on the Green Mountain National Forest. There were also about 65,000 acres of dieback, discoloration, and mortality due to a variety of forest damage factors, including beech bark disease and birch leaf spot.

## Damage by State

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken	Total Acreage
<b>State Totals from State Cooperator and Federal Surveys</b>								
Connecticut	743	-	1,826	-	-	58	1,125	3,752
Maine	6,524	377	141,796	1,172	-	-	-	149,869
Massachusetts	67,229	5,925	44,869	32	-	157	-	118,212
New Hampshire	896	792	1,892	102	-	-	-	3,682
New York	590,411	155,878	797,989	-	-	-	-	1,544,278
Rhode Island	13,279	3,127	59	241	-	-	-	16,706
Vermont	421,548	10,857	45,176	11,212	-	-	571	489,364
<b>Total State and Federal</b>	<b>1,100,630</b>	<b>176,956</b>	<b>1,033,607</b>	<b>12,759</b>	<b>0</b>	<b>215</b>	<b>1,696</b>	<b>2,325,863</b>

# Connecticut

## Damage For Connecticut (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken
<b>Connecticut Agricultural Experiment Station</b>							
Connecticut Ag. Station	743	-	1,826	-	-	58	1,125
<b>Total Connecticut Ag. Station</b>	<b>743</b>	<b>0</b>	<b>1,826</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>1,125</b>
<b>Tribal Lands</b>							
Masshantucket Pequot	-	-	-	-	-	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>743</b>	<b>0</b>	<b>1,826</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>1,125</b>

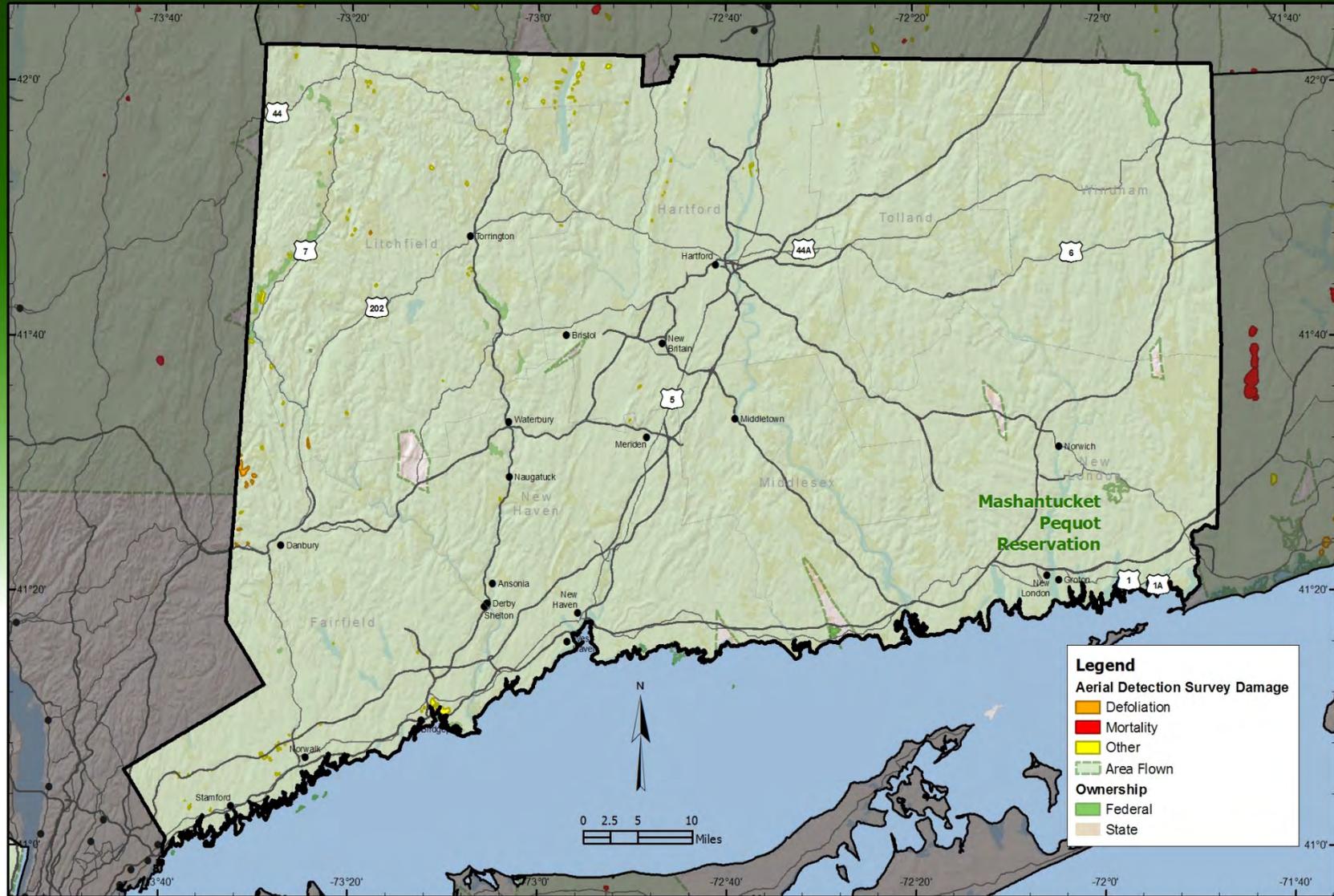
\* Area mapped may include more than one type of damage within any given area

## Damage Causal Agent Connecticut (Acres)

Unit	Larch Casebearer	Locust Leafminer	HWA	Drought	Snow/Ice	Wind/Tornado
<b>Connecticut Agricultural Experiment Station</b>						
Connecticut Ag. Station	25	718	1,773	53	58	1,125
<b>Total Connecticut Ag. Station</b>	<b>25</b>	<b>718</b>	<b>1,773</b>	<b>53</b>	<b>58</b>	<b>1,125</b>
<b>Tribal Lands</b>						
Masshantucket Pequot	-	-	-	-	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>25</b>	<b>718</b>	<b>1,773</b>	<b>53</b>	<b>58</b>	<b>1,125</b>

\* Area mapped may include more than one type of damage within any given area

# Connecticut



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# Maine

## Damage For Maine (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken
<b>Maine Forest Service (MFS)</b>							
Maine - MFS	6,524	-	141,358	-	-	-	-
<b>Total Maine - MFS</b>	<b>6,524</b>	<b>0</b>	<b>141,358</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Federal Lands</b>							
Acadia NP	-	42	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Tribal Lands</b>							
Aroostook Band of Micmacs	-	-	-	-	-	-	-
Houlton Band of Maliseet	-	-	-	-	-	-	-
Passamaquoddy Tribe	-	300	22	-	-	-	-
Penobscot Indian Nation	-	35	416	1,172	-	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>335</b>	<b>438</b>	<b>1,172</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>6,524</b>	<b>377</b>	<b>141,796</b>	<b>1,172</b>	<b>0</b>	<b>0</b>	<b>0</b>

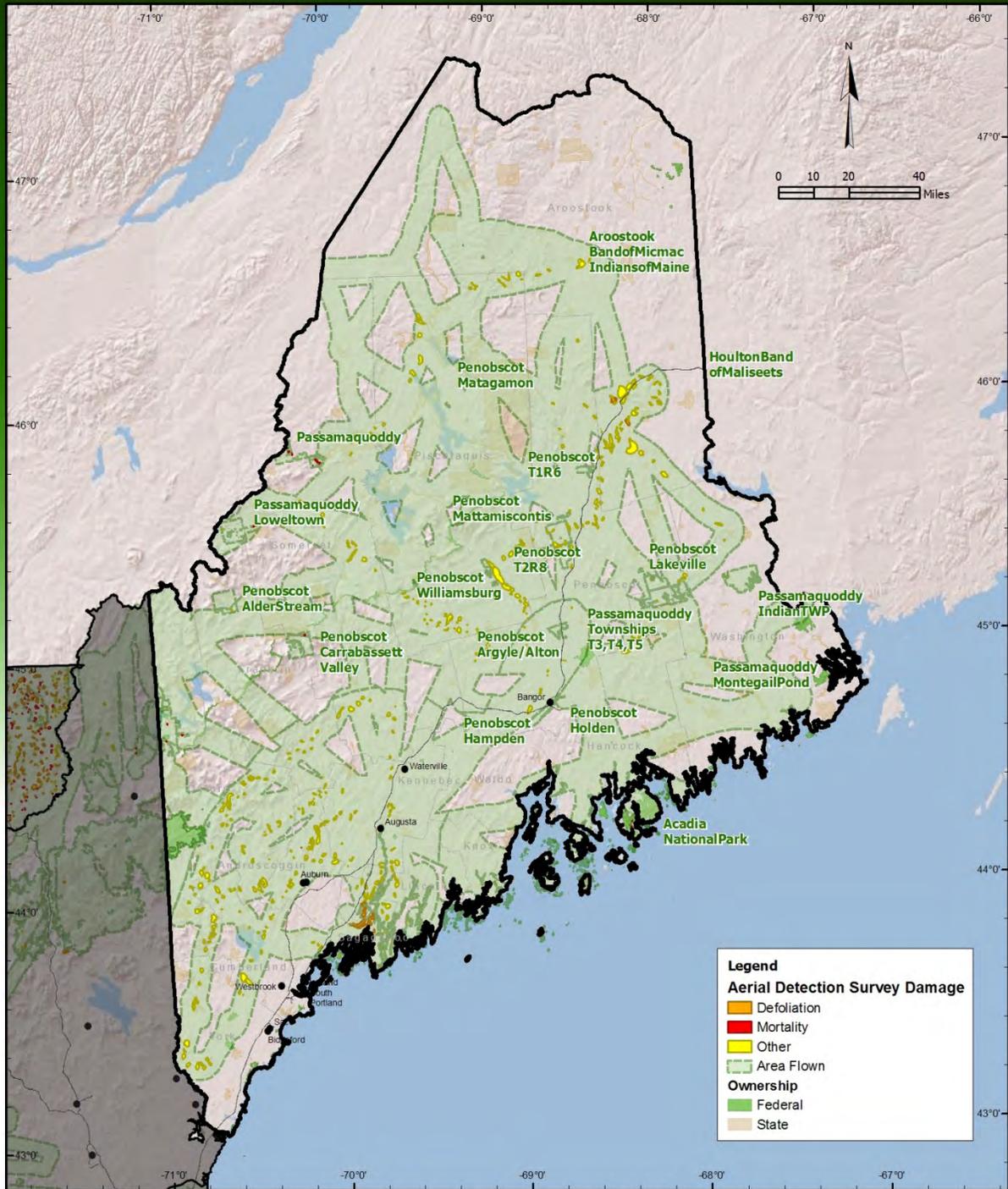
\* Area mapped may include more than one type of damage within any given area

### Damage Causal Agent Maine (Acres)

Unit	Large Aspen Tortrix	Browntail Moth	Cedar Decline	Frost	White Pine Needle Cast	Flooding/ High Water	Foliage Discoloration	Wind/ Tornado
<b>Maine Forest Service (MFS)</b>								
Maine - MFS	1,776	4,748	52,867	27,900	60,218	-	-	-
<b>Total Maine - MFS</b>	<b>1,776</b>	<b>4,748</b>	<b>52,867</b>	<b>27,900</b>	<b>60,218</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Federal Lands</b>								
Acadia NP	-	-	-	-	-	18	-	24
<b>Total Federal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>24</b>
<b>Tribal Lands</b>								
Aroostook Band of Micmacs	-	-	-	-	-	-	-	-
Houlton Band of Maliseets	-	-	-	-	-	-	-	-
Passamaquoddy Tribe	-	-	-	-	-	300	-	-
Penobscot Indian Nation	-	-	-	-	-	35	1,522	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>335</b>	<b>1,522</b>	<b>0</b>
<b>Total State and Federal</b>	<b>1,776</b>	<b>4,748</b>	<b>52,867</b>	<b>27,900</b>	<b>60,218</b>	<b>353</b>	<b>1,522</b>	<b>24</b>

\* Area mapped may include more than one type of damage within any given area

# Maine

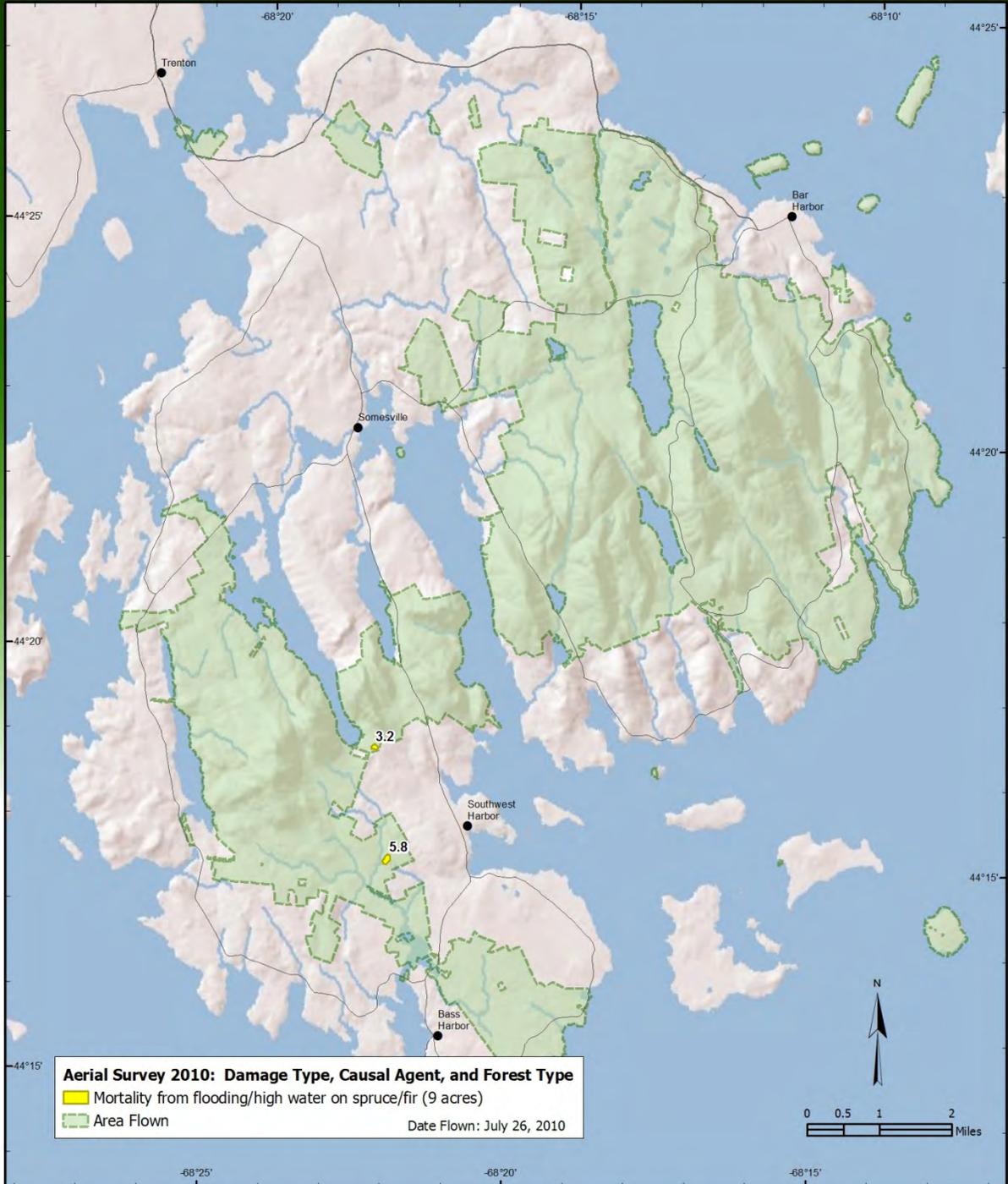


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# Acadia National Park - Mount Desert Island

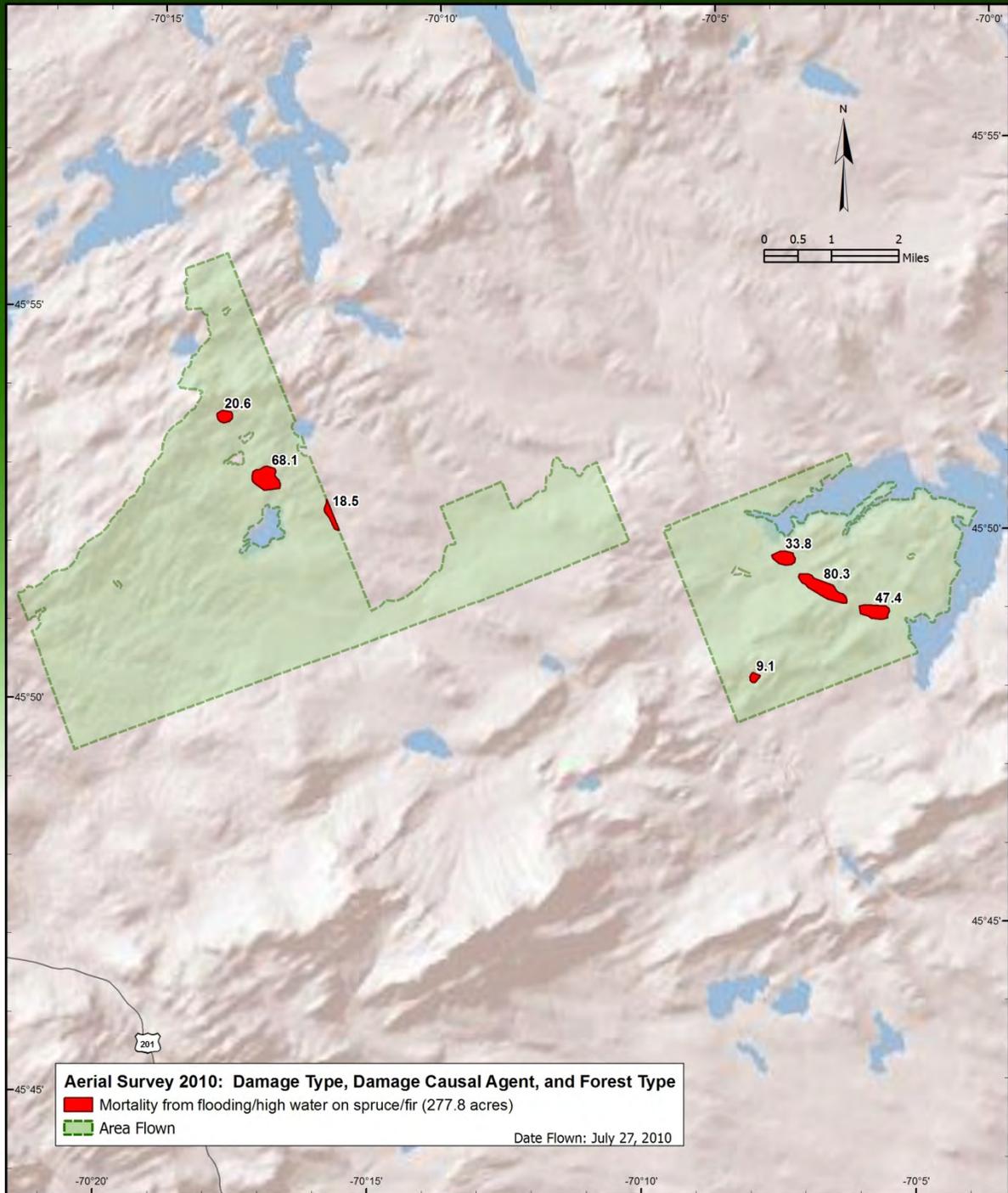


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# Passamaquoddy Tribal Lands

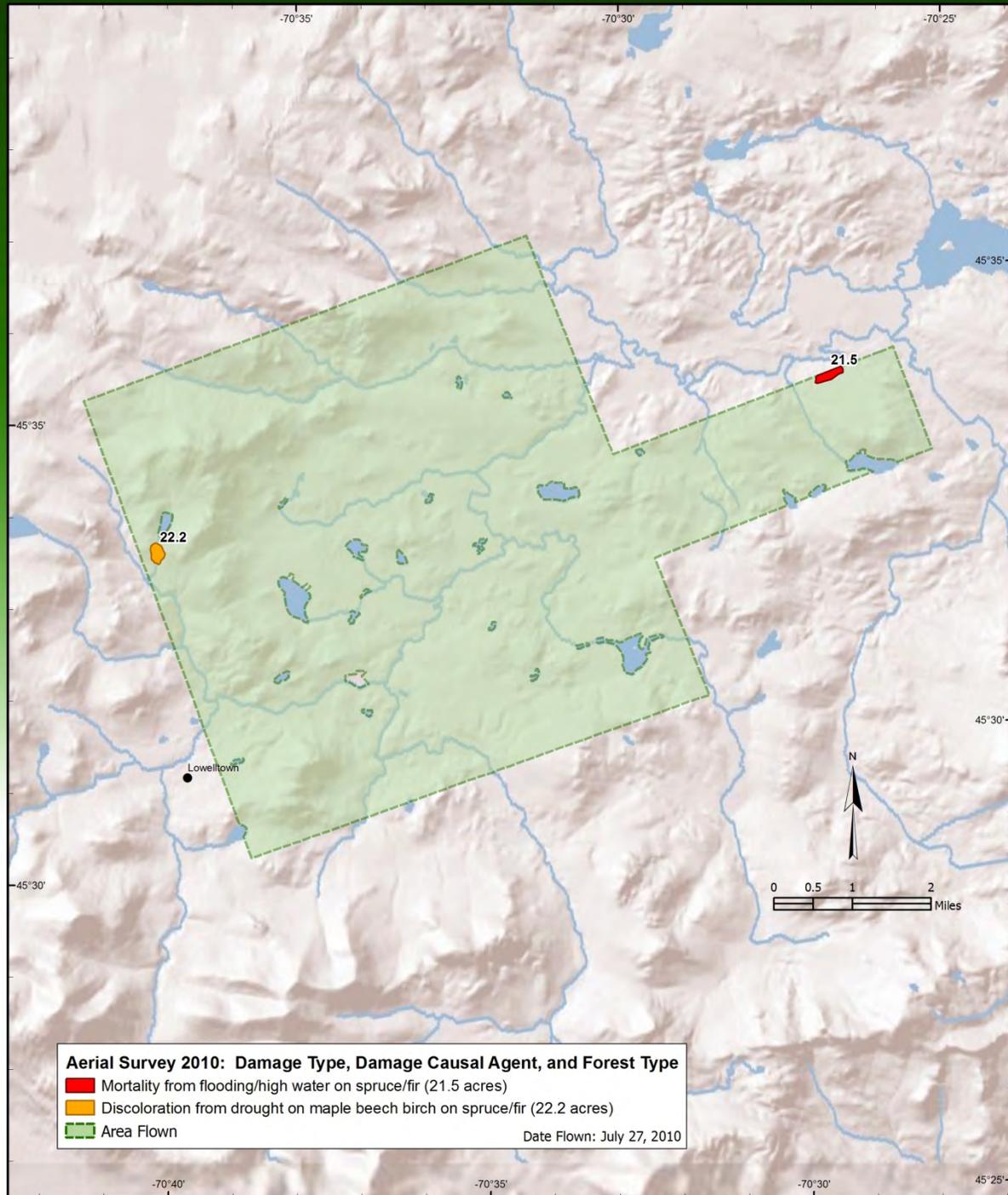


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# Passamaquoddy Tribal Lands - Lowelltown

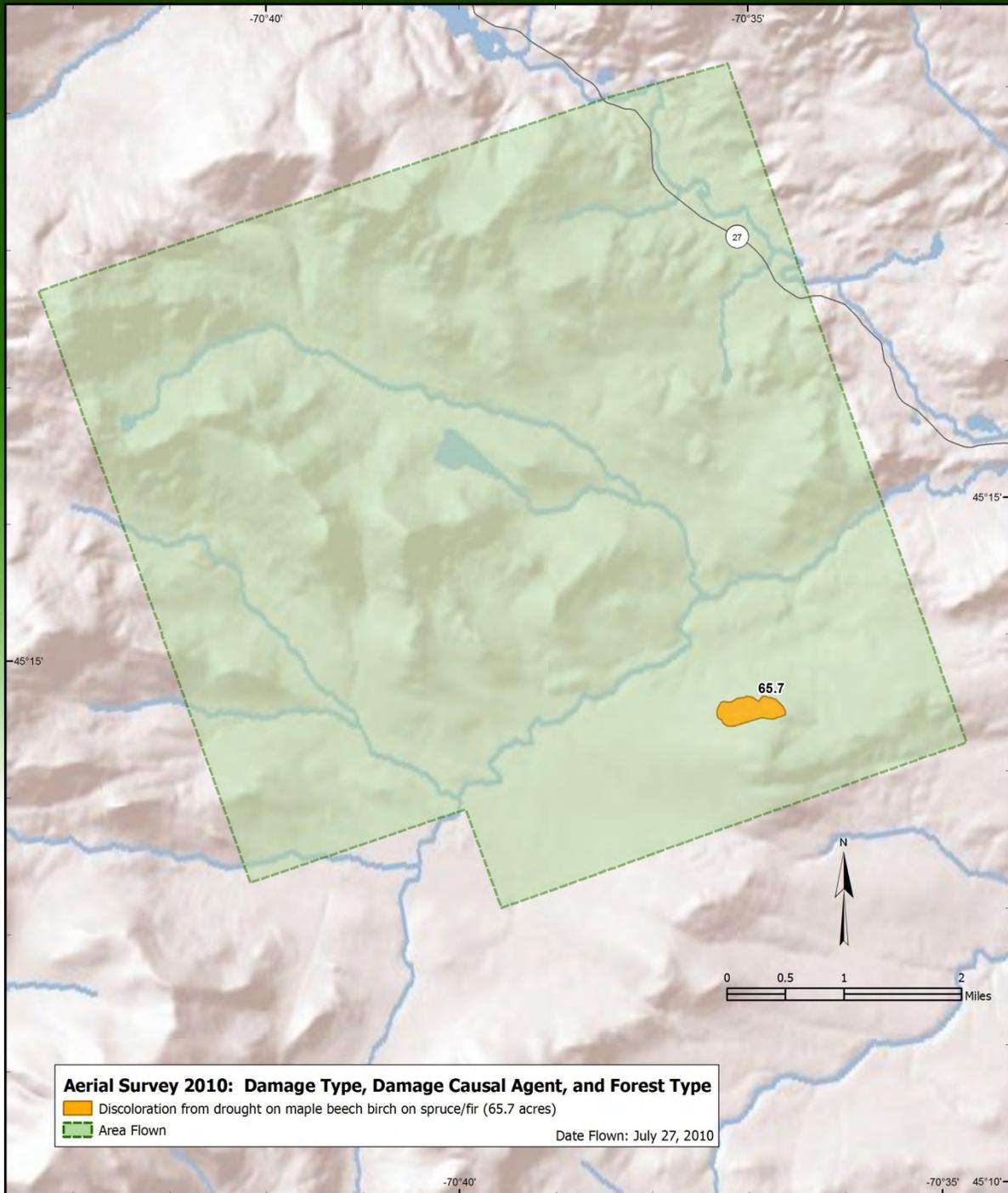


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# Penobscot Tribal Lands - Alder Stream

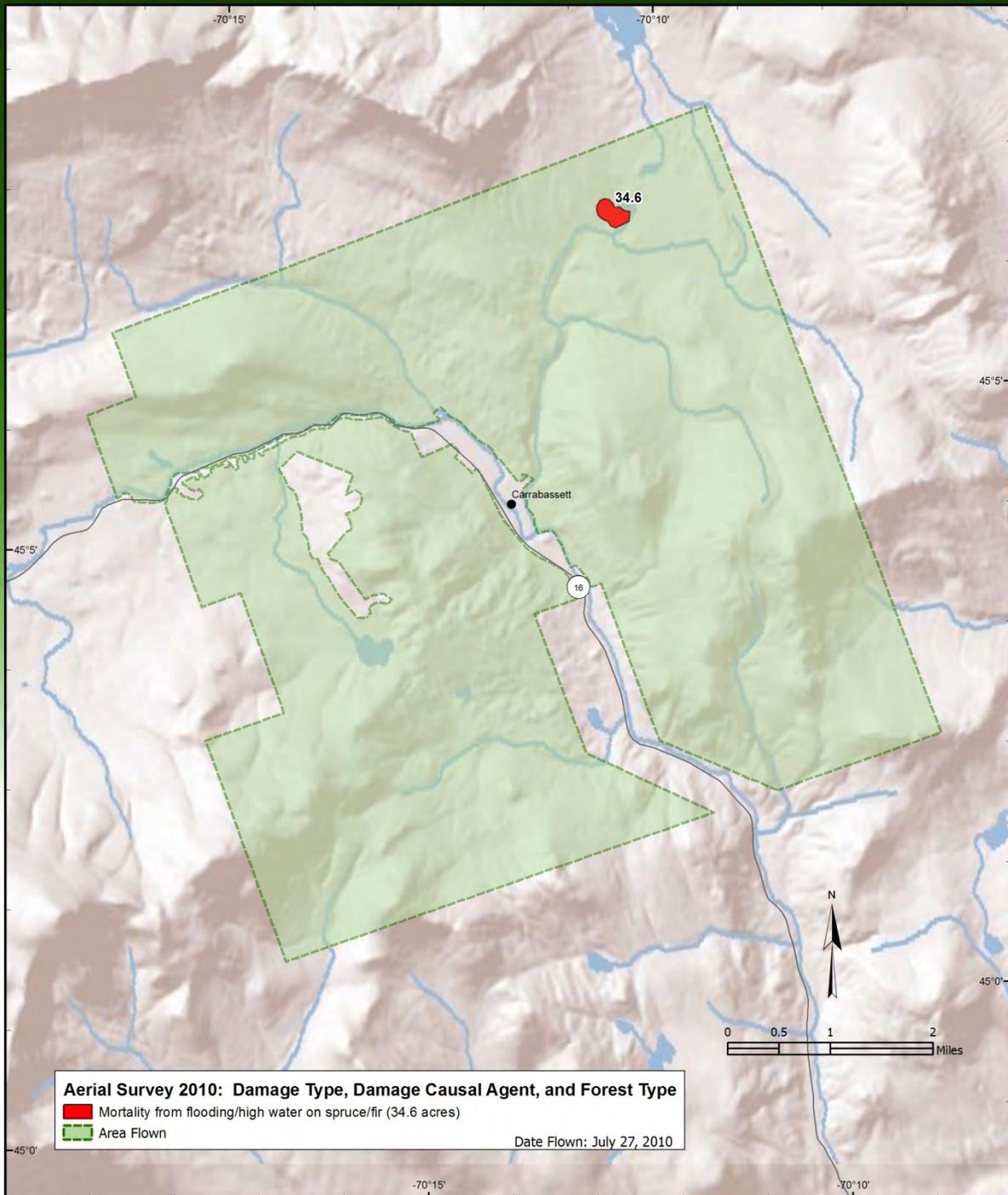


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# Penobscot Tribal Lands - Carrabassett Valley



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# Massachusetts

## Damage for Massachusetts (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken
<b>Massachusetts - Department of Conservation &amp; Recreation (DCR)</b>							
Massachusetts - DCR	67,229	5,858	44,869	32	-	157	-
<b>Total Massachusetts - DCR</b>	<b>67,229</b>	<b>5,858</b>	<b>44,869</b>	<b>32</b>	<b>0</b>	<b>157</b>	<b>0</b>
<b>Federal Lands</b>							
Cape Cod NSS	-	67	-	-	-	-	-
Minute Man NP	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>67</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>67,229</b>	<b>5,925</b>	<b>44,869</b>	<b>32</b>	<b>0</b>	<b>157</b>	<b>0</b>

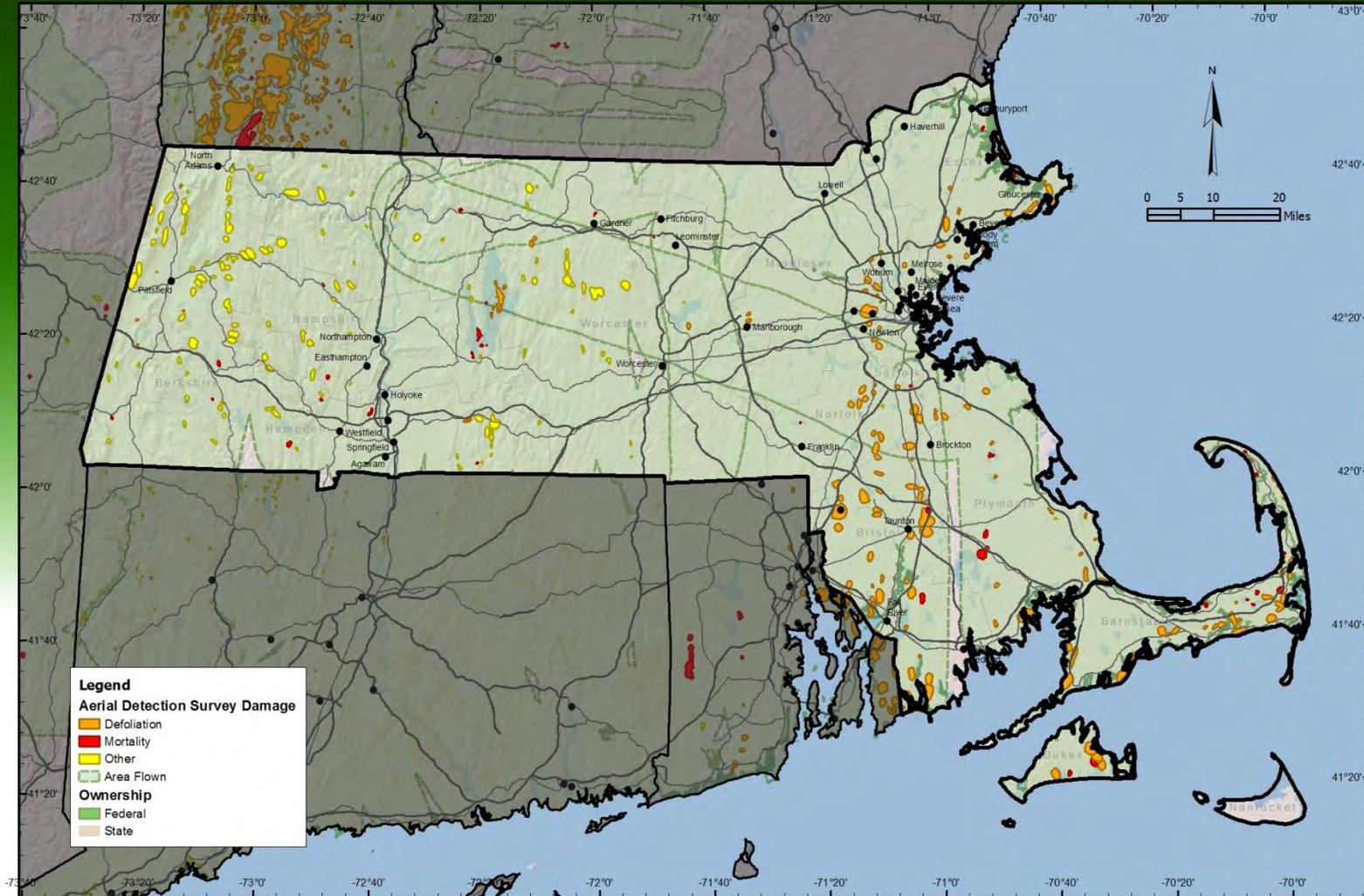
\* Area mapped may include more than one type of damage within any given area

## Damage Causal Agent Massachusetts (Acres)

Unit	FTC	Winter Moth	Red Pine Scale	Ash Decline	Flood/High Water	Sawflies	Logging Damage	Gypsy Moth	Frost
<b>Massachusetts - Department of Conservation &amp; Recreation (DCR)</b>									
Massachusetts - DCR	5,501	68,006	1,345	4,531	2,691	982	1,058	5,880	40,283
<b>Total Massachusetts - DCR</b>	<b>5,501</b>	<b>68,006</b>	<b>1,345</b>	<b>4,531</b>	<b>2,691</b>	<b>982</b>	<b>1,058</b>	<b>5,880</b>	<b>40,283</b>
<b>Federal Lands</b>									
Cape Cod NSS	-	67	-	-	-	-	-	-	-
Minute Man NP	-	-	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>67</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>5,501</b>	<b>68,073</b>	<b>1,345</b>	<b>4,531</b>	<b>2,691</b>	<b>982</b>	<b>1,058</b>	<b>5,880</b>	<b>40,283</b>

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# Massachusetts

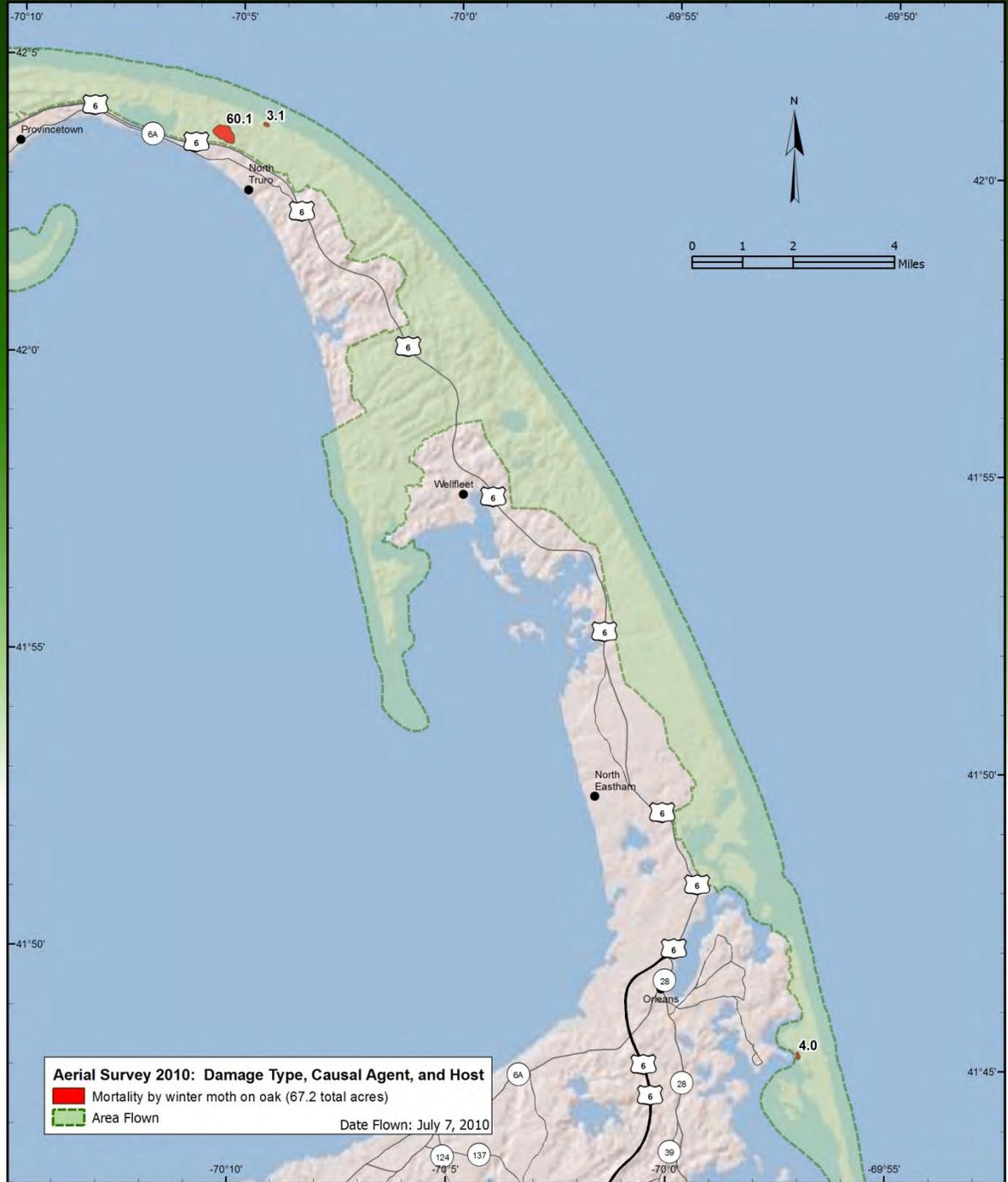


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# Cape Cod National Seashore



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# New Hampshire

## Damage For New Hampshire (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken
<b>New Hampshire - Department of Resource &amp; Economic Development (DRED)</b>							
New Hampshire - DRED	772	695	1,666	102	-	-	-
<b>Total New Hampshire - DRED</b>	<b>772</b>	<b>695</b>	<b>1,666</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Federal Lands</b>							
WMNF	124	-	226	-	-	-	-
Great Bay NWR	-	-	-	-	-	-	-
Lake Umbagog NWR	-	97	-	-	-	-	-
Silvio O. Conti NFWR Pondicherry	-	-	-	-	-	-	-
Saint Gaudens - NHP	-	-	-	-	-	-	-
Wapack NWR	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>124</b>	<b>97</b>	<b>226</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>896</b>	<b>792</b>	<b>1,892</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>

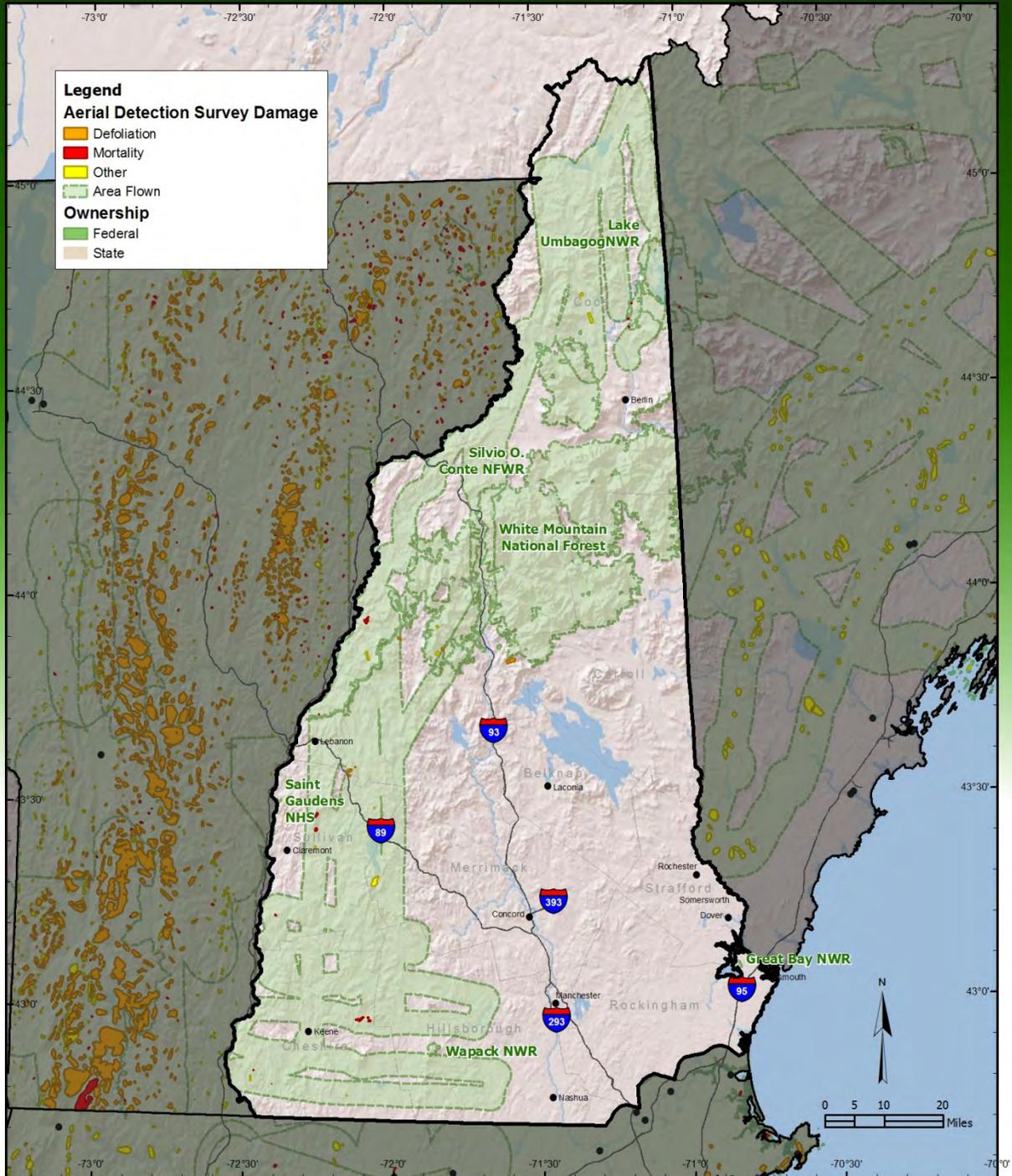
\* Area mapped may include more than one type of damage within any given area

## Damage Causal Agent New Hampshire (Acres)

Unit	Oak		Beech		Septoria	Wind/ Tornado	Aspen Defoliation	Flooding/ High Water	
	Leaftier	BWA	Pear Thrips	Bark Disease	Leaf Spot			Oak Leafroller	
<b>New Hampshire - Department of Resource &amp; Economic Development (DRED)</b>									
New Hampshire - DRED	557	117	100	796	931	550	114	557	-
<b>Total New Hampshire - DRED</b>	<b>557</b>	<b>117</b>	<b>100</b>	<b>796</b>	<b>931</b>	<b>550</b>	<b>114</b>	<b>557</b>	<b>0</b>
<b>Federal Lands</b>									
WMNF	-	-	-	-	-	-	-	286	-
Great Bay NWR	-	-	-	-	-	-	-	-	-
Lake Umbagog NWR	-	-	-	-	-	-	-	-	97
Saint - Gudens NHS	-	-	-	-	-	-	-	-	-
Silvio O. Conti NFWR Podicherry	-	-	-	-	-	-	-	-	-
Wapack NWR	-	-	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>286</b>	<b>97</b>
<b>Total State and Federal</b>	<b>557</b>	<b>117</b>	<b>100</b>	<b>796</b>	<b>931</b>	<b>550</b>	<b>114</b>	<b>843</b>	<b>97</b>

\* Area mapped may include more than one type of damage within any given area

# New Hampshire

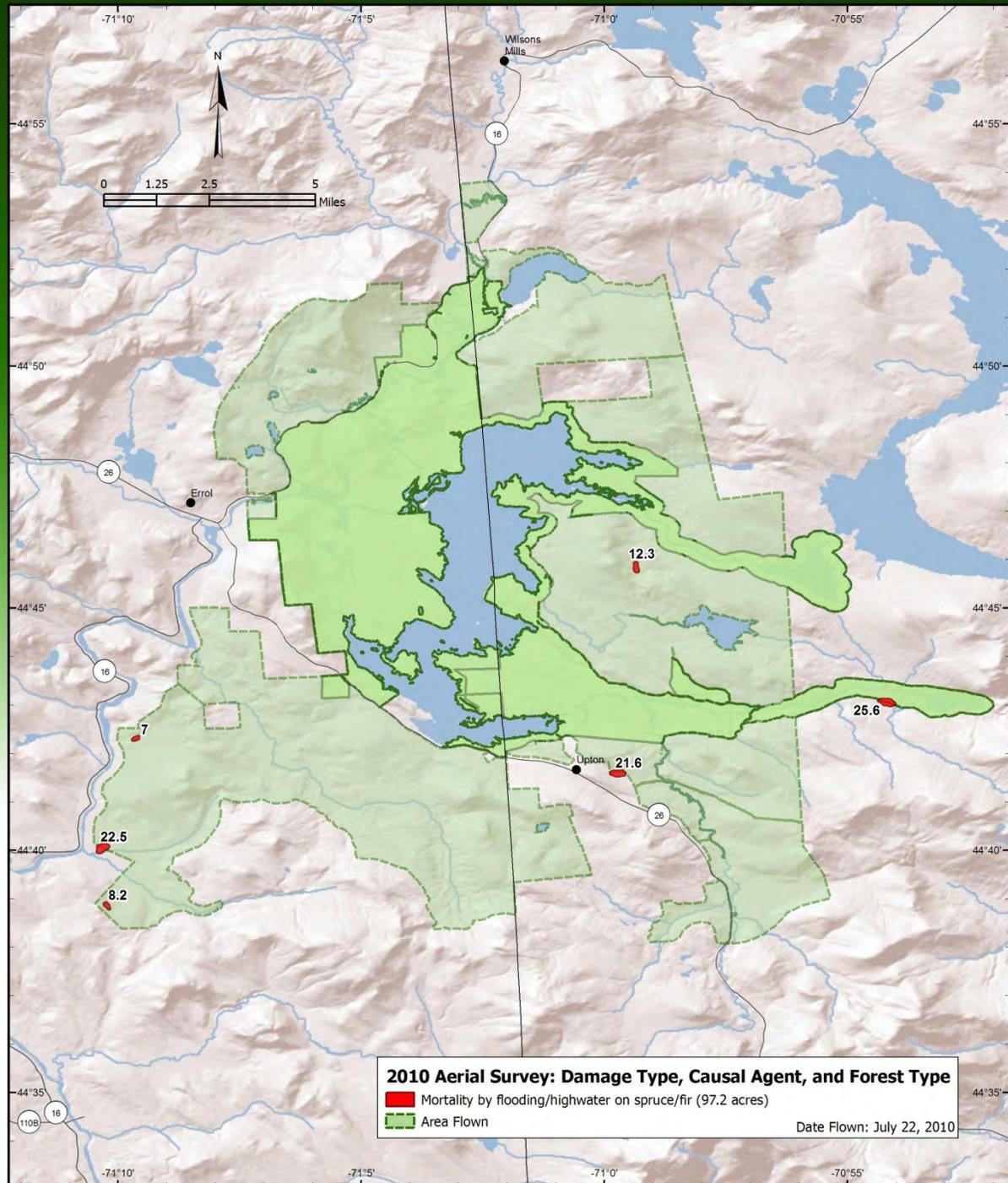


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# Lake Umbagog National Wildlife Refuge

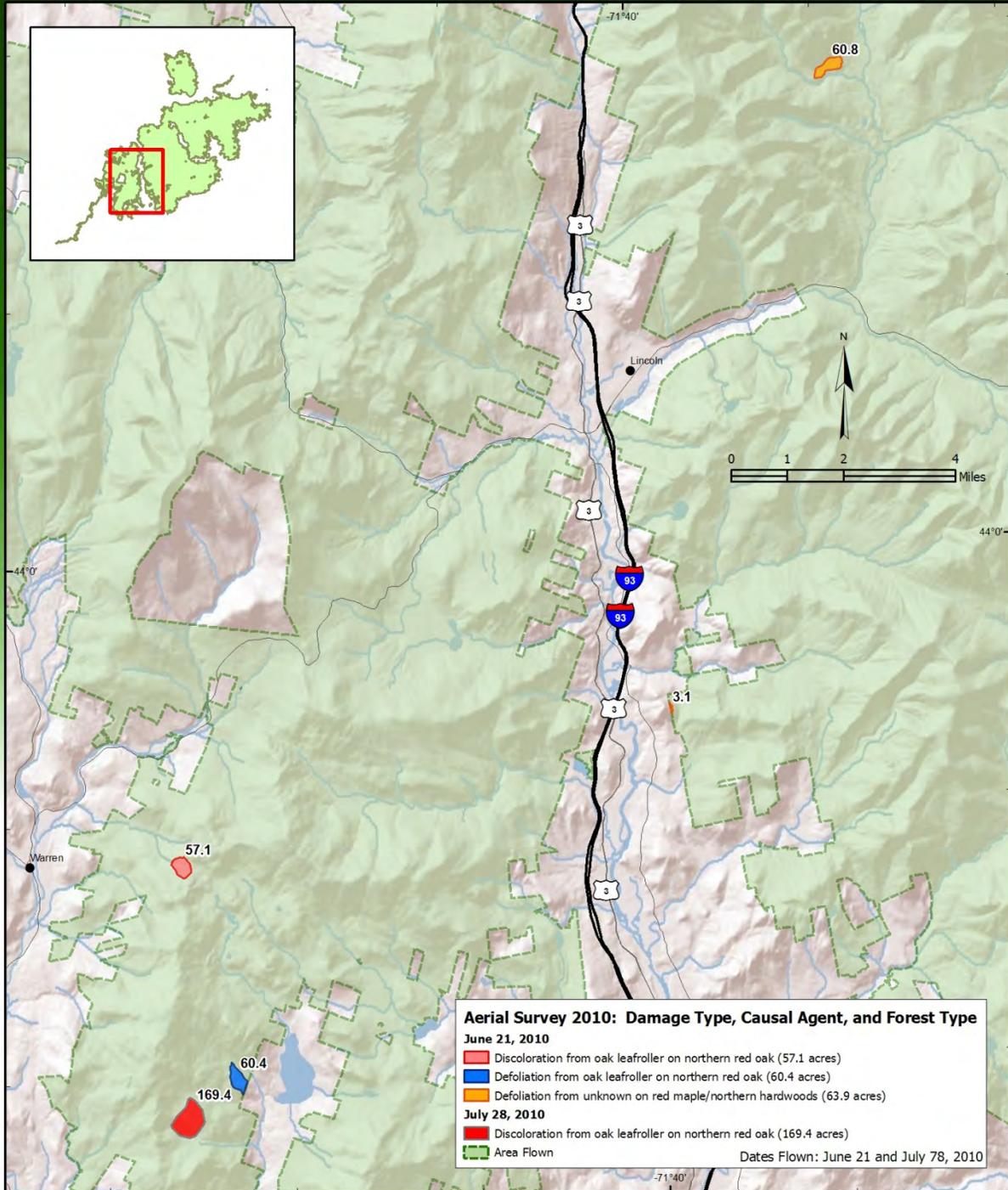


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# White Mountain National Forest



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# New York

## Damage For New York (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken
<b>New York - Department of Environmental Conservation (DEC)</b>							
New York - DEC	590,411	155,878	797,515	-	-	-	-
<b>Total New York - DEC</b>	<b>590,411</b>	<b>155,878</b>	<b>797,515</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Federal Lands</b>							
FLNF	-	-	322	-	-	-	-
Fire Island NSS	-	-	-	-	-	-	-
Brookhaven National Lab	-	-	38	-	-	-	-
West Point	-	-	-	-	-	-	-
Saratoga NHP	-	-	-	-	-	-	-
Wertheim NWR	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>0</b>	<b>360</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Tribal Lands</b>							
Seneca Nation	-	-	-	-	-	-	-
St. Regis Mohawk Tribe	-	-	114	-	-	-	-
Tuscarora Nation	-	-	-	-	-	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>590,411</b>	<b>155,878</b>	<b>797,989</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

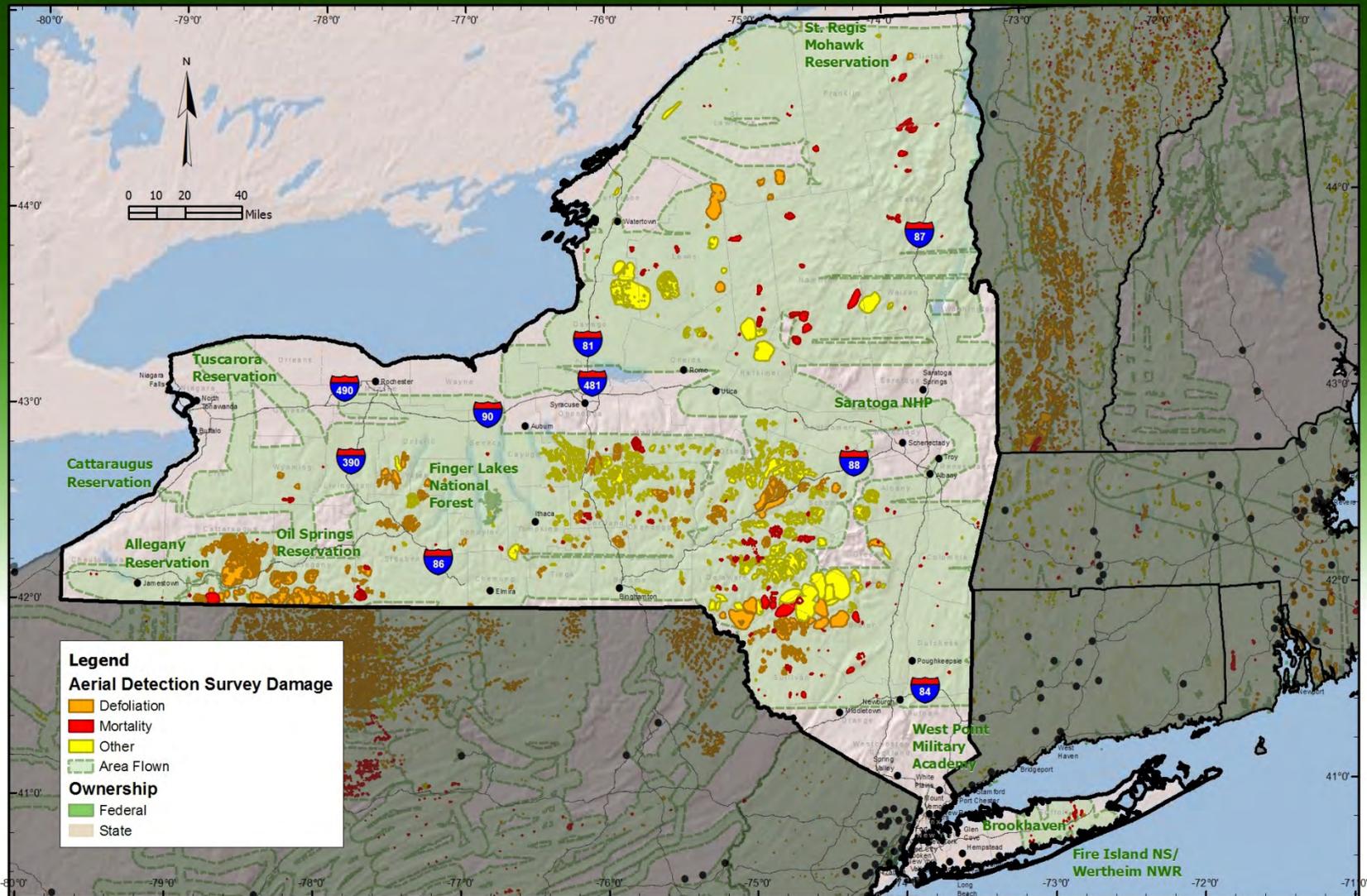
\* Area mapped may include more than one type of damage within any given area

### Damage Causal Agent New York (Acres)

Unit	Other Defoliators	FTC	HWA	Armillaria Root Disease	Dutch Elm Disease	Flooding/ High Water	Frost	Mortality	Eastern Tent Caterpillar
<b>New York - Department of Environmental Conservation (DEC)</b>									
New York - DEC	211,990	483,304	3,458	10,008	61	5,821	1,169,641	115,694	5,228
<b>Total New York - DEC</b>	<b>211,990</b>	<b>483,304</b>	<b>3,458</b>	<b>10,008</b>	<b>61</b>	<b>5,821</b>	<b>1,169,641</b>	<b>115,694</b>	<b>5,228</b>
<b>Federal Lands</b>									
FLNF	-	-	-	-	-	-	-	-	-
Fire Island NSS	-	-	-	-	-	-	-	-	-
Saratoga NHP	-	-	-	-	-	-	-	-	-
Wertheim NWR	-	-	-	-	-	-	-	-	-
Brookhaven National Lab	-	-	-	-	-	-	-	-	-
West Point	-	-	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Tribal Lands</b>									
Seneca Nation	-	-	-	-	-	-	-	-	-
St. Regis Mohawk Tribe	-	-	-	-	-	113	-	-	-
Tuscarora Nation	-	-	-	-	-	-	-	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>211,990</b>	<b>483,304</b>	<b>3,458</b>	<b>10,008</b>	<b>61</b>	<b>5,934</b>	<b>1,169,641</b>	<b>115,694</b>	<b>5,228</b>

\* Area mapped may include more than one type of damage within any given area

# New York

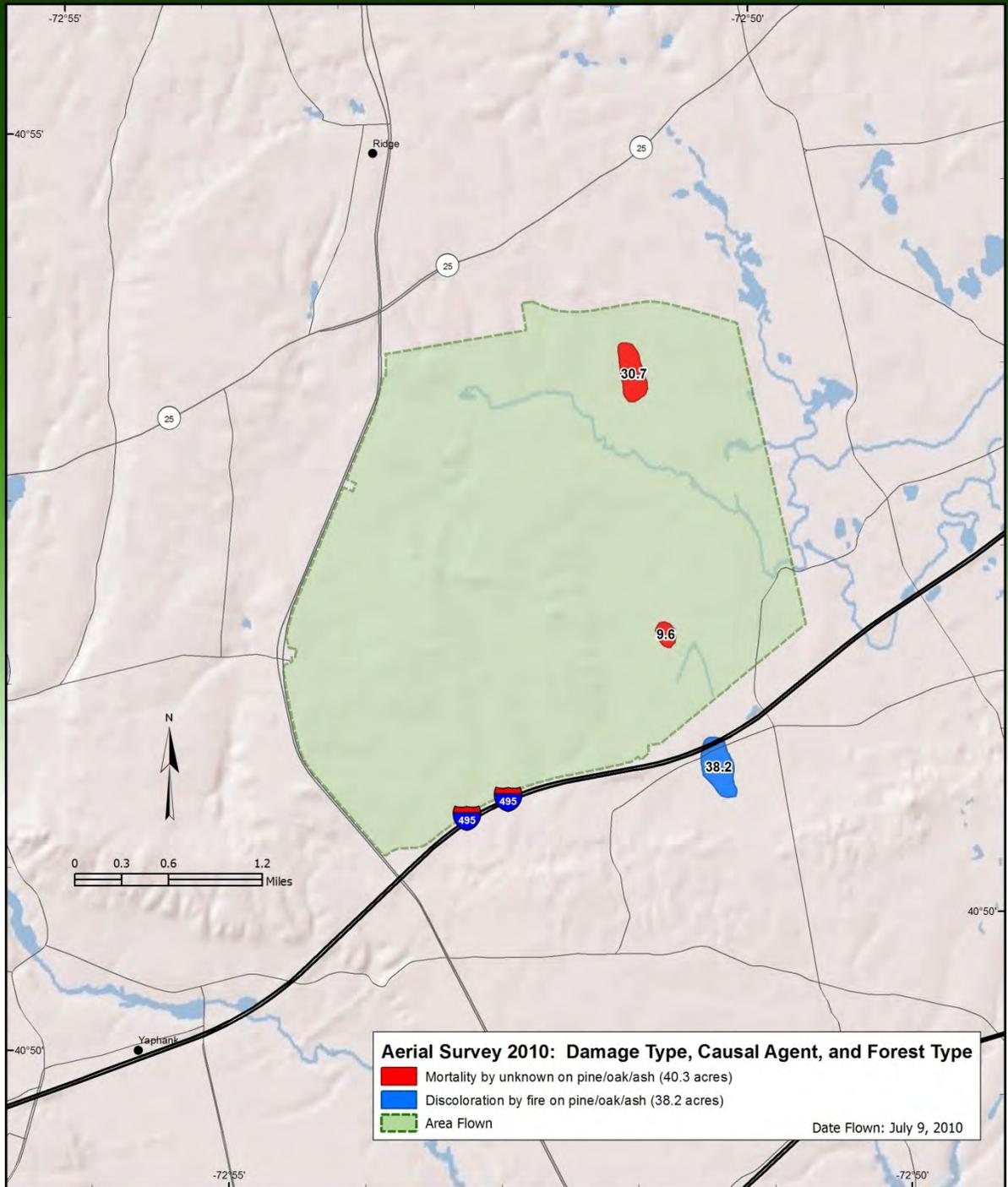


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# Brookhaven National Laboratory

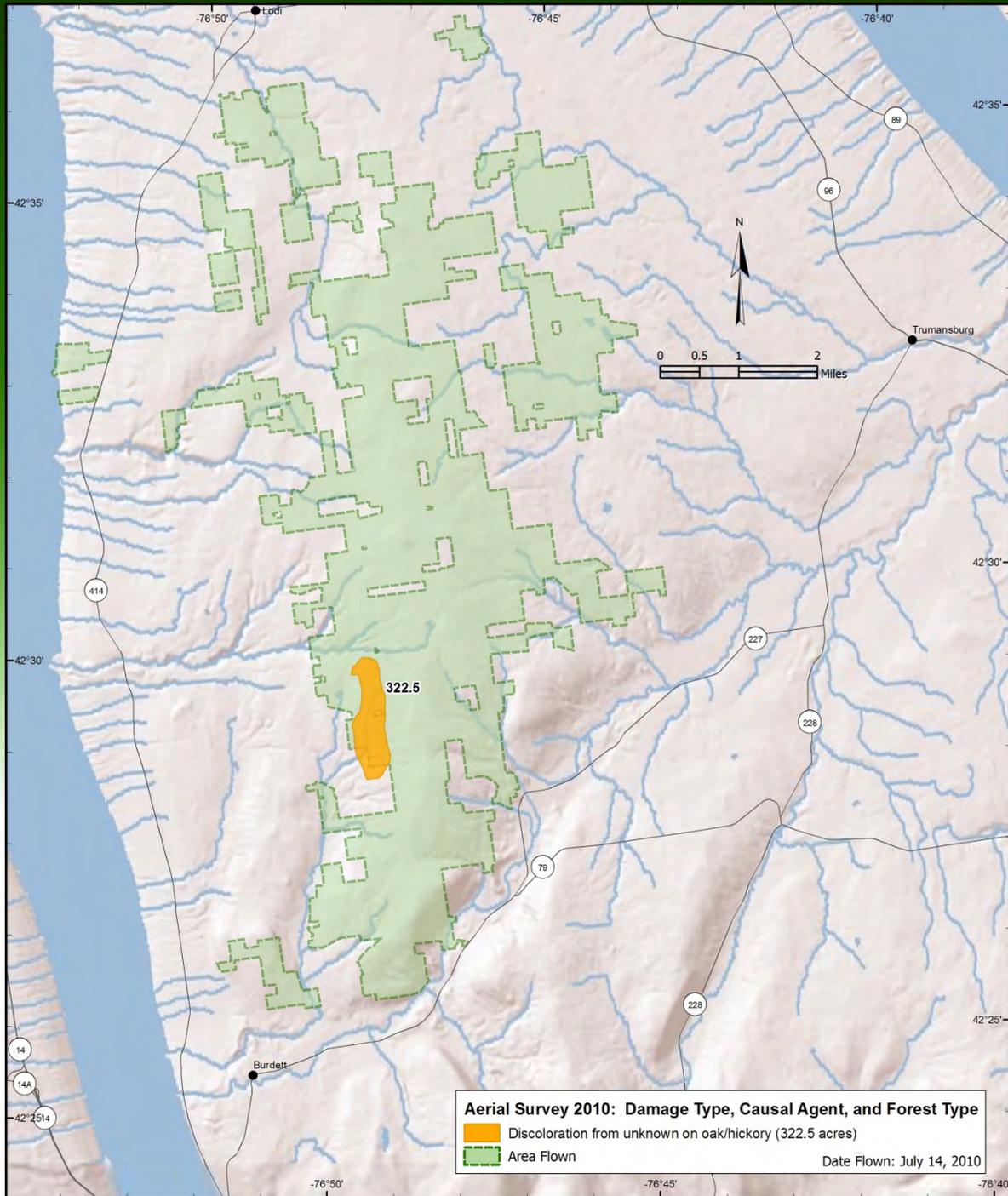


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# Finger Lakes National Forest

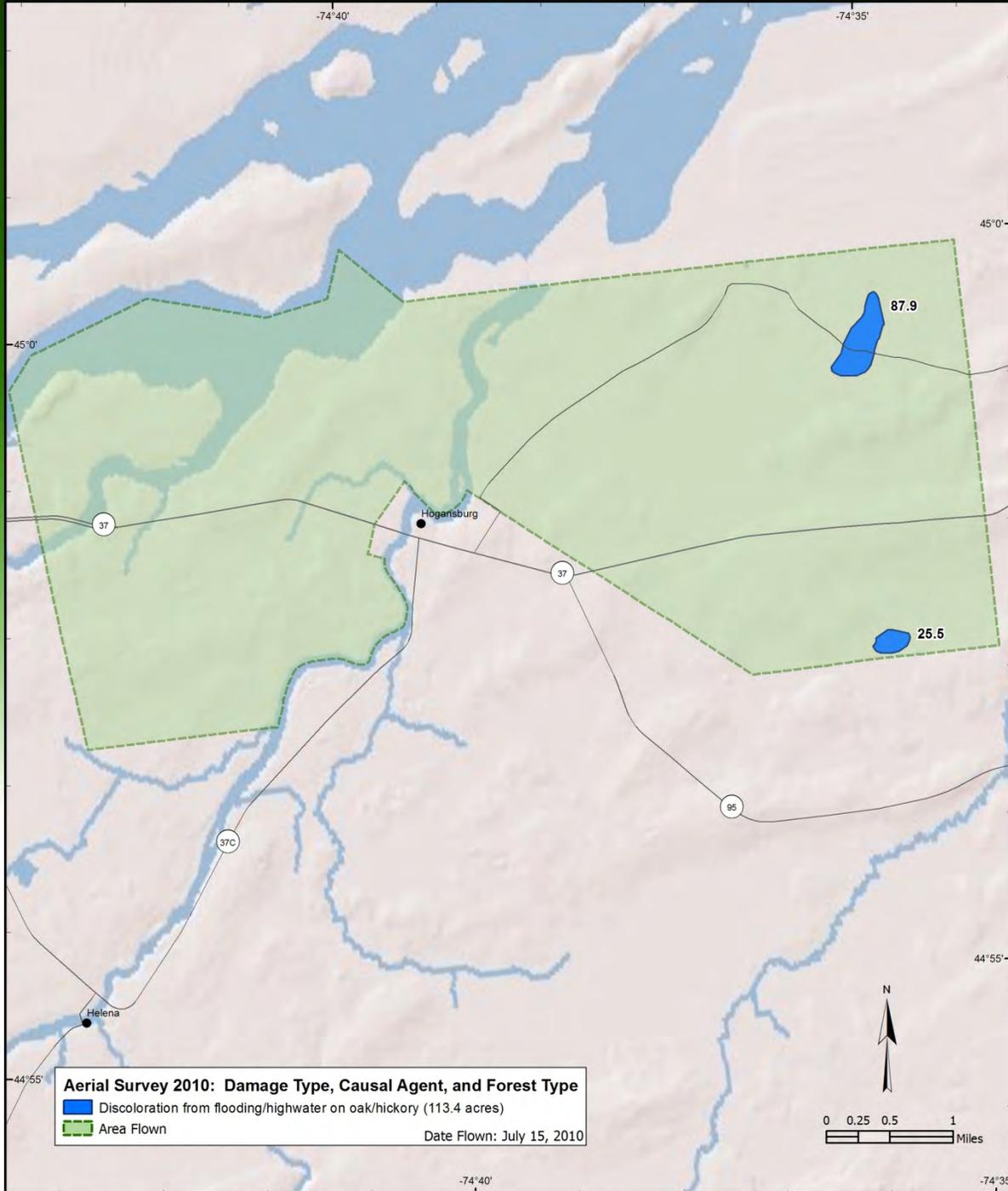


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# St. Regis Mohawk Reservation



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# Rhode Island

## Damage For Rhode Island (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Branch Breakage	Main Stem Broken
<b>Rhode Island - Division of Forest Environment (DFE)</b>							
Rhode Island - DFE	13,279	3,127	50	241	-	-	-
<b>Total Rhode Island - DFE</b>	<b>13,279</b>	<b>3,127</b>	<b>50</b>	<b>241</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Tribal Lands</b>							
Narraganset Tribe	-	-	9	-	-	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>13,279</b>	<b>3,127</b>	<b>59</b>	<b>241</b>	<b>0</b>	<b>0</b>	<b>0</b>

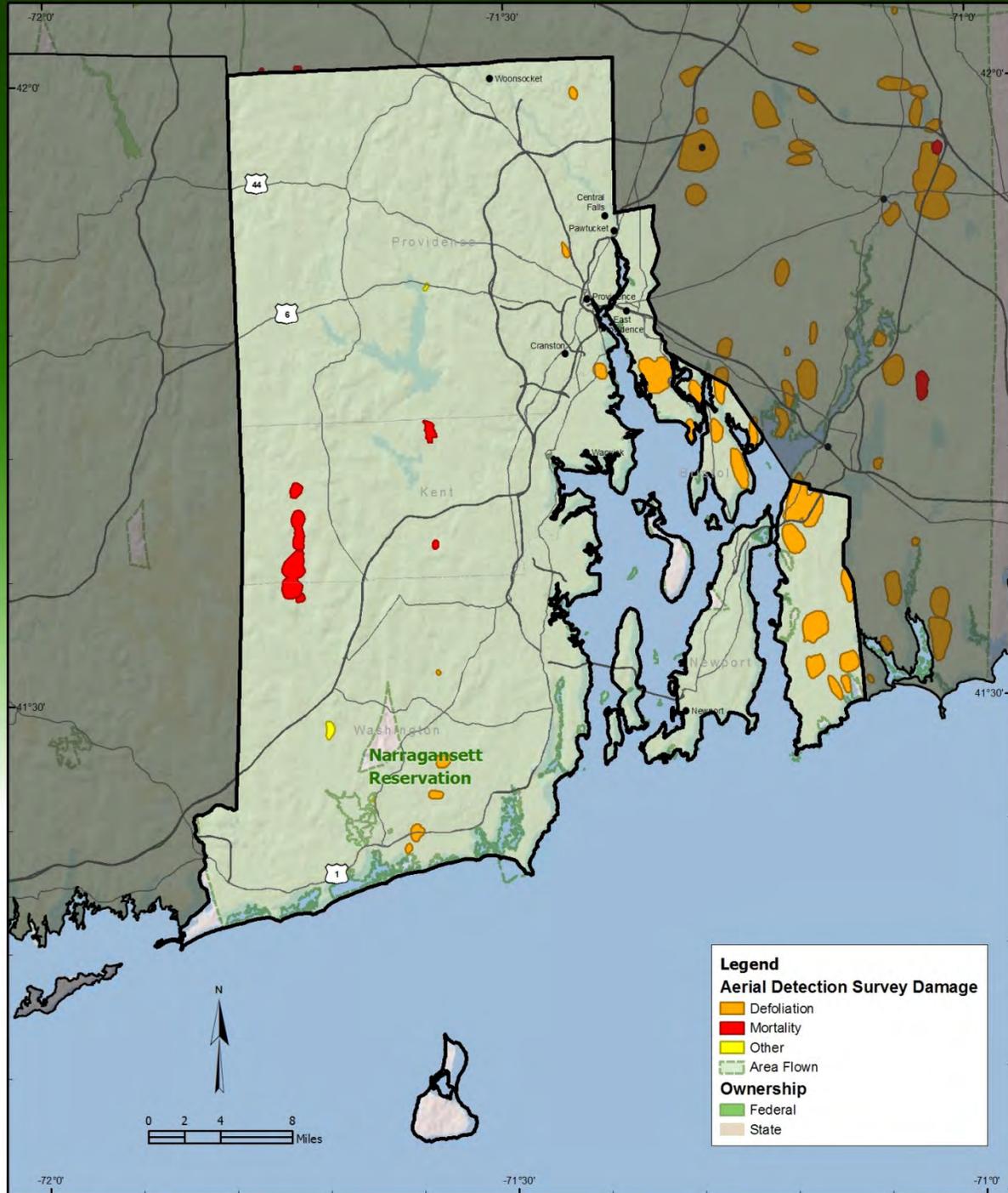
\* Area mapped may include more than one type of damage within any given area

## Damage Causal Agent Rhode Island (Acres)

Unit	Winter FTC	Winter Moth	Red Pine Scale	Red Pine HWA	Beech Bark Disease	Anthracnose	Leaf Spot	Flooding	Snow/ Ice	Mortality
<b>Rhode Island - Division of Forest Environment (DFE)</b>										
Rhode Island - DFE	-	13,520	49	-	-	-	-	-	-	3,127
<b>Total Rhode Island - DFE</b>	<b>0</b>	<b>13,520</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,127</b>
<b>Tribal Lands</b>										
Narraganset Tribe Pequot	-	-	-	-	-	-	-	9	-	-
<b>Total Tribal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>0</b>	<b>13,520</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>3,127</b>

\* Area mapped may include more than one type of damage within any given area

# Rhode Island

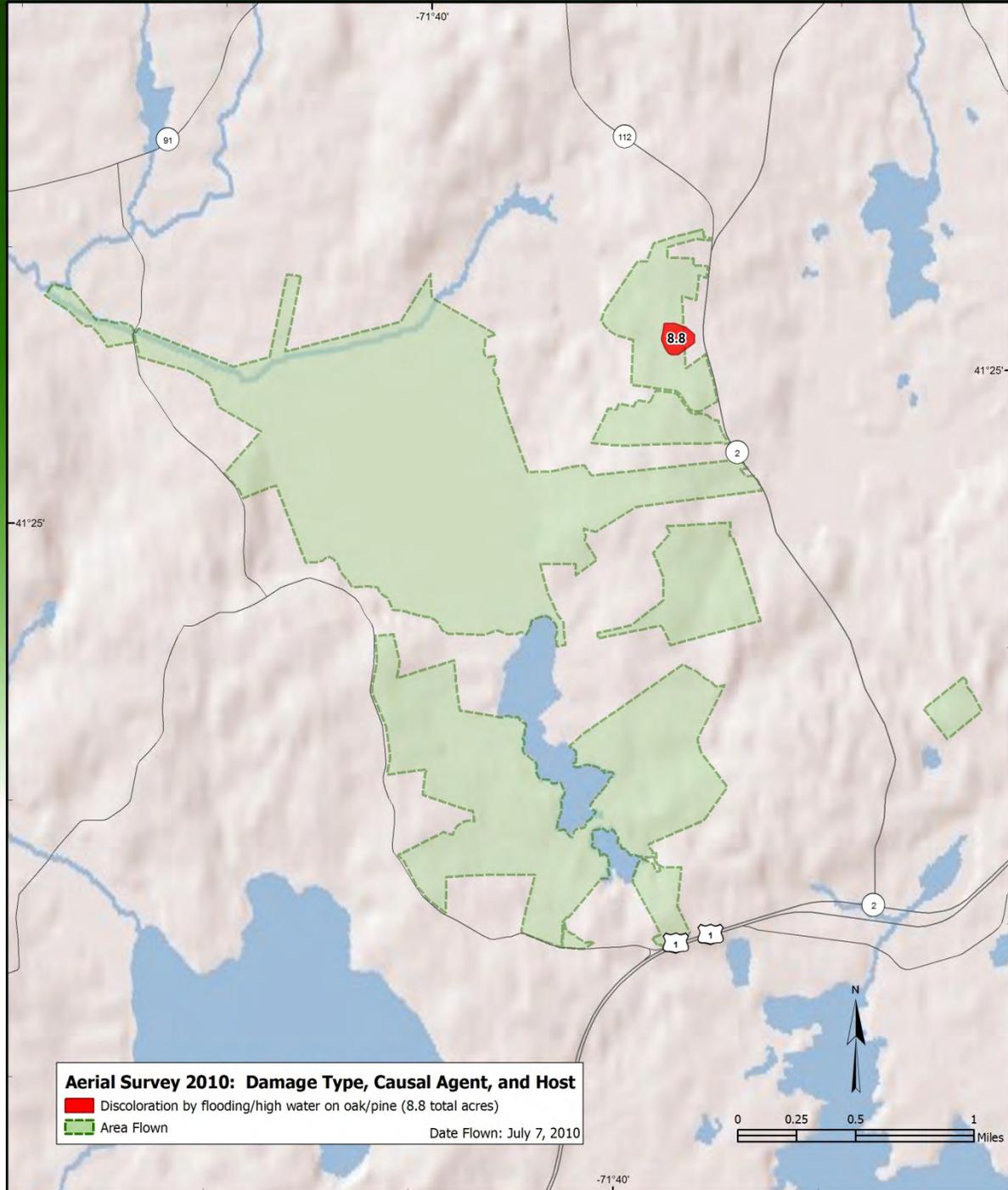


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# Narragansett Indian Reservation



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# Vermont

## Damage For Vermont (Acres)

Unit	Defoliation	Mortality	Discoloration	Dieback	Top Kill	Main Stem Broken	Previously Undocumented Mortality
<b>Vermont - Department of Forest, Parks &amp; Recreation (DFP&amp;R)</b>							
Vermont – DFP&R	419,813	10,696	39,887	11,169	-	571	1,401
<b>Total Vermont - DFP&amp;R</b>	<b>419,813</b>	<b>10,696</b>	<b>39,887</b>	<b>11,169</b>	<b>0</b>	<b>571</b>	<b>1,401</b>
<b>Federal Lands</b>							
GMNF	1,735	-	5,273	43	-	-	-
Silvio O. Conti NFWR Nulhegan	-	161	16	-	-	-	-
Marsh-Billings-Rockefeller - NHP	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>1,735</b>	<b>161</b>	<b>5,289</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total State and Federal</b>	<b>421,548</b>	<b>10,857</b>	<b>45,176</b>	<b>11,212</b>	<b>0</b>	<b>571</b>	<b>1,401</b>

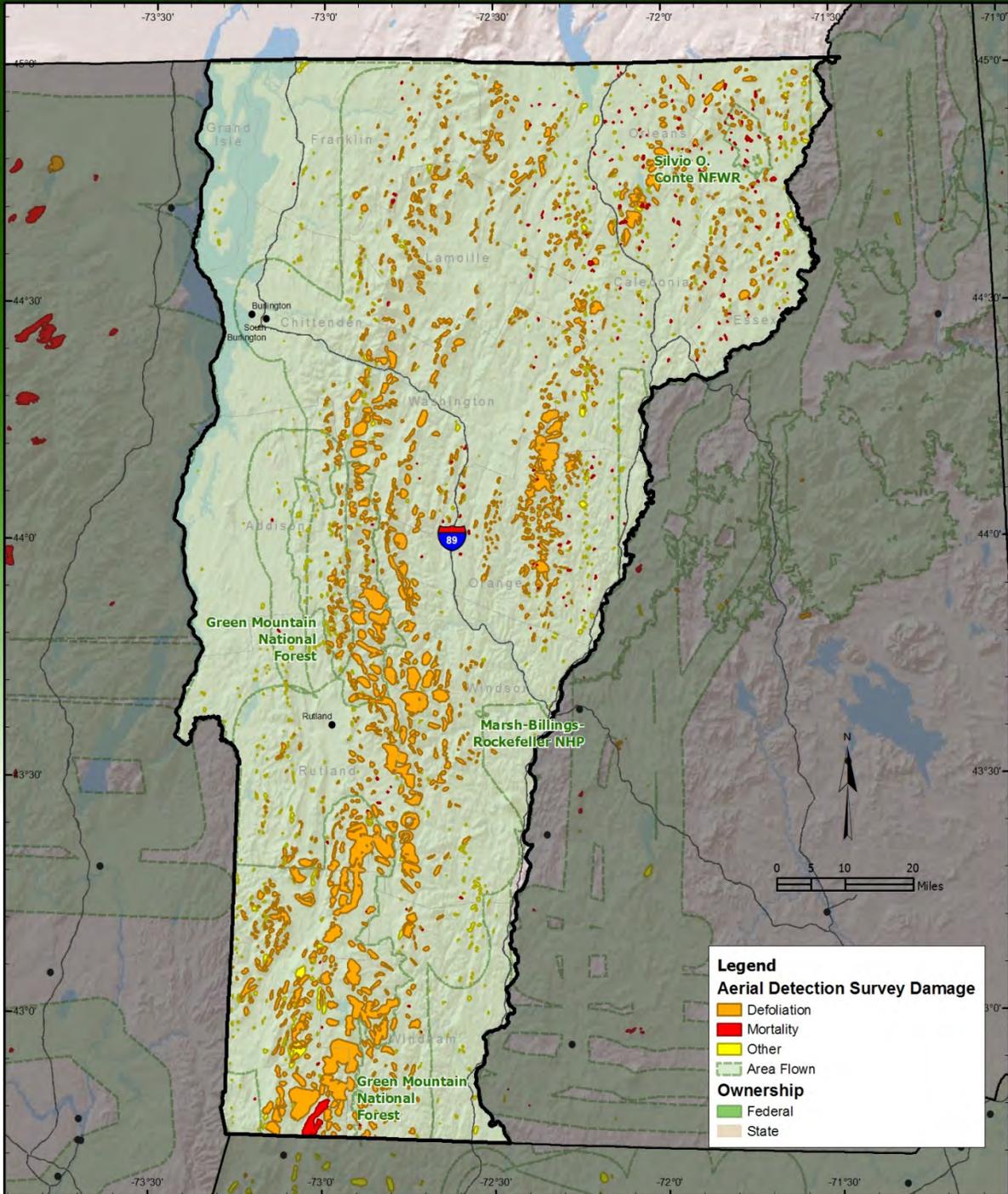
\* Area mapped may include more than one type of damage within any given area

## Damage Causal Agent Vermont (Acres)

Unit	BWA	Beech Bark Disease	Birch Decline	Brown Spot Needle Blight	Birch Leaf Fungus	Flooding	Frost	Foliage Dis-coloration
<b>Vermont - Department of Forest, Parks &amp; Recreation (DFP&amp;R)</b>								
Vermont – DFP&R	379	14,575	1,016	588	562	13,068	1,696	432,892
<b>Total Vermont - DFP&amp;R</b>	<b>379</b>	<b>14,575</b>	<b>1,016</b>	<b>588</b>	<b>562</b>	<b>13,068</b>	<b>1,696</b>	<b>432,892</b>
<b>Federal Lands</b>								
GMNF	-	-	-	-	-	-	1,991	5,273
Silvio O. Conti NFWR Nulhegan	-	-	-	-	-	162	-	-
Marsh-Billings-Rockefeller NHS	-	-	-	-	-	-	-	-
<b>Total Federal Lands</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162</b>	<b>1,991</b>	<b>5,273</b>
<b>Total State and Federal</b>	<b>379</b>	<b>14,575</b>	<b>1,016</b>	<b>588</b>	<b>562</b>	<b>13,068</b>	<b>1,858</b>	<b>434,883</b>

\* Area mapped may include more than one type of damage within any given area

# Vermont

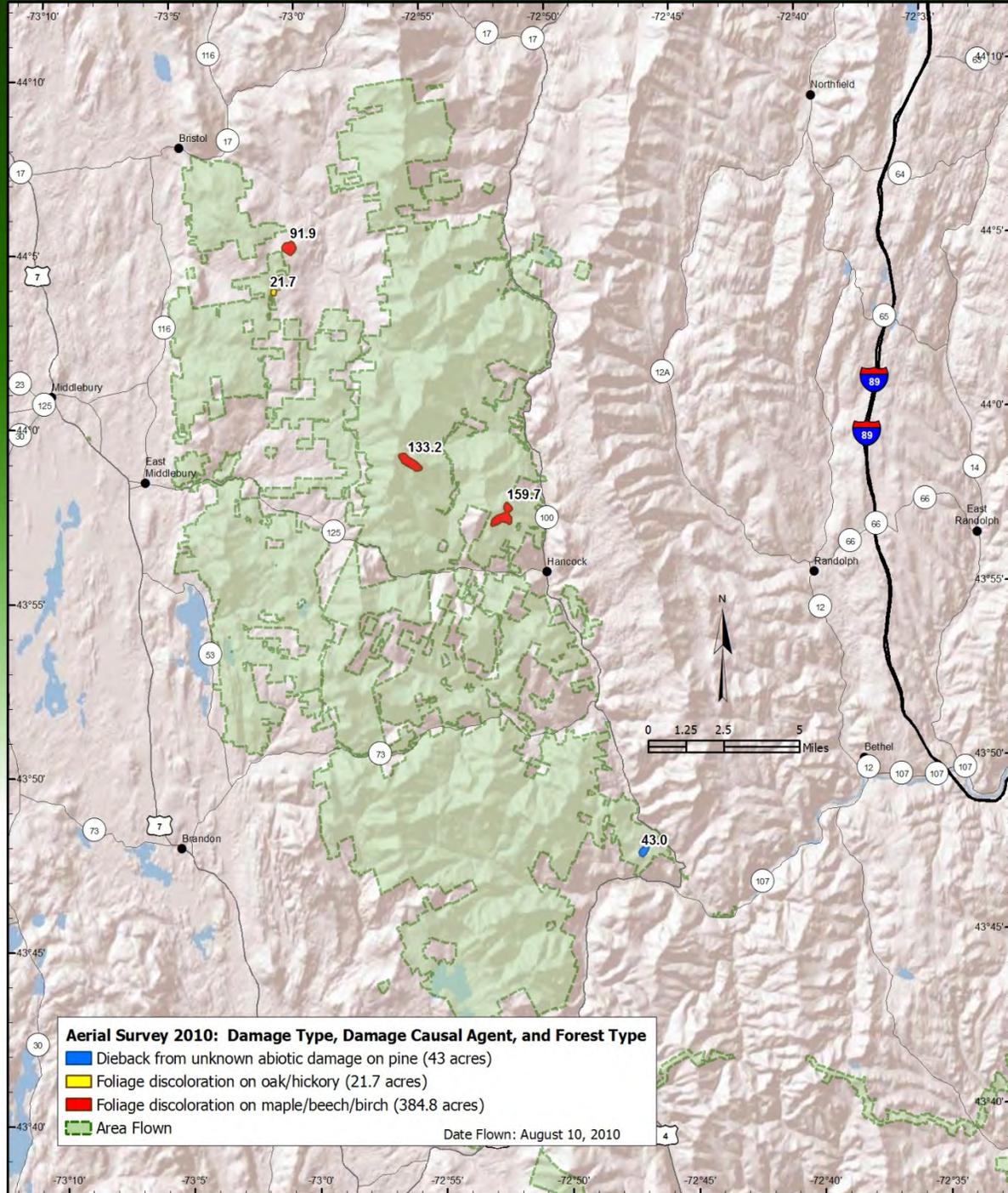


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# Green Mountain National Forest - North

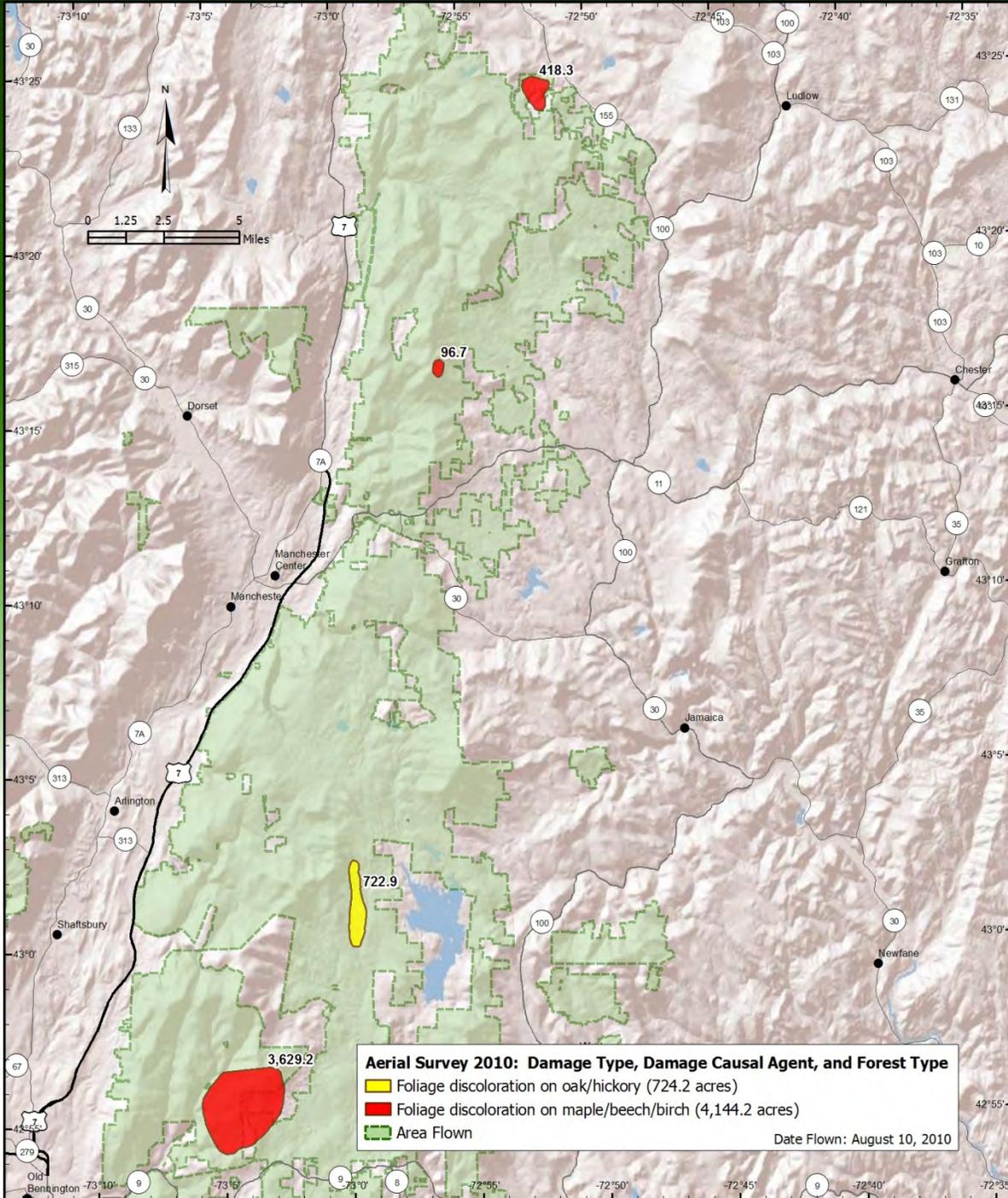


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# Green Mountain National Forest - South

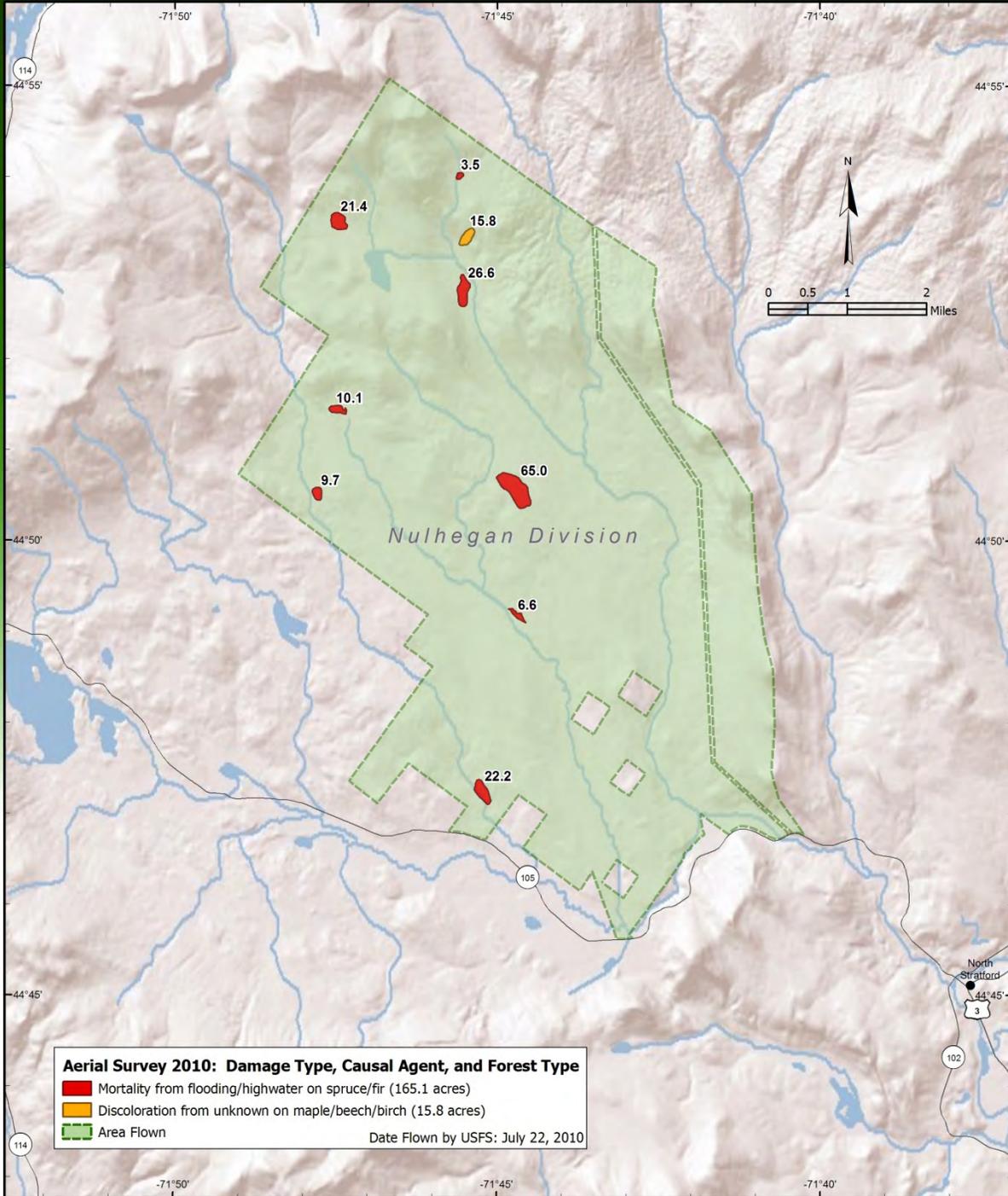


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# Silvio O. Conte National Wildlife Refuge



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