Maine Spruce Budworm Update February 2018

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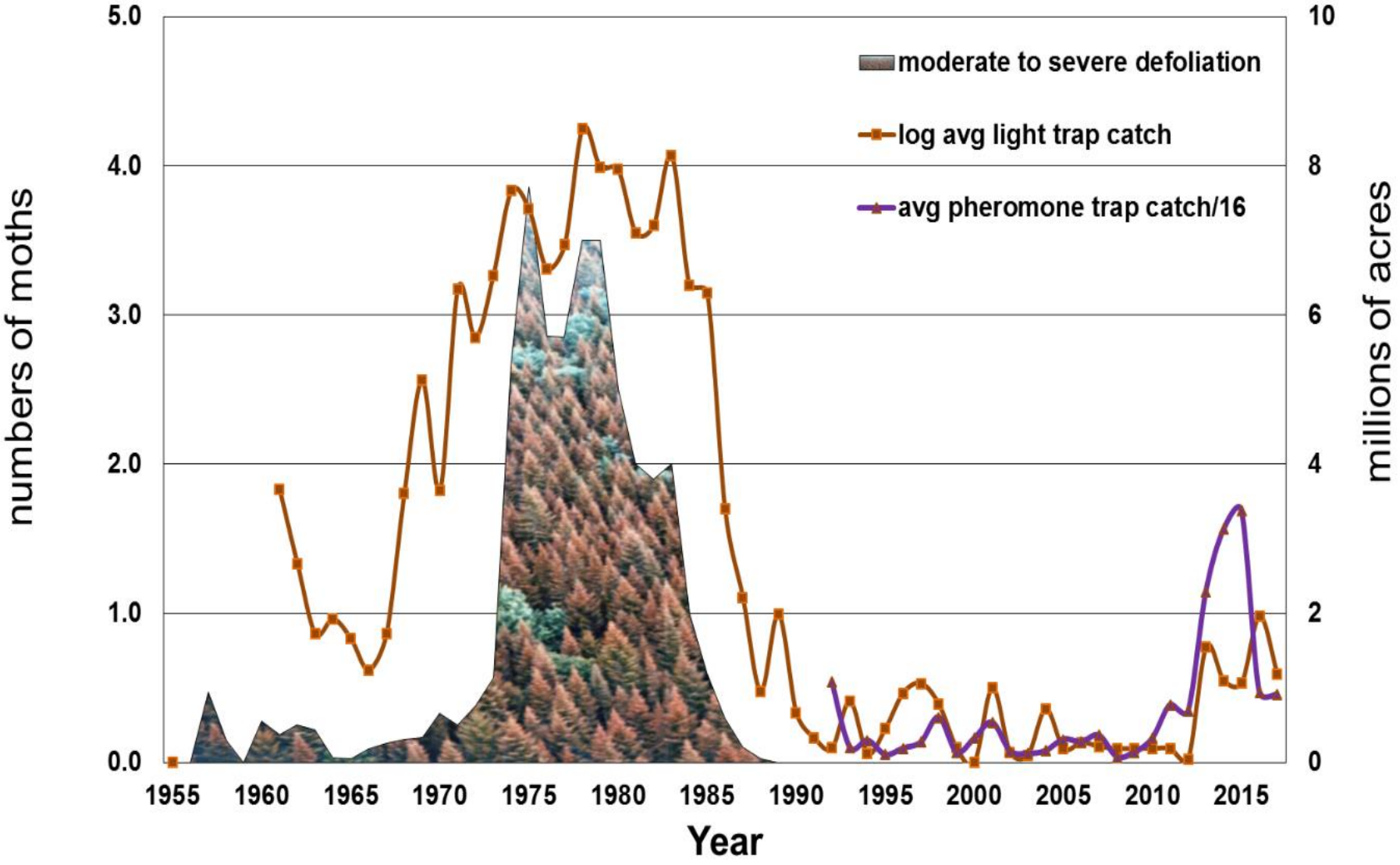
Photo D. Gordon Mott

Spruce Budworm Population Indicators
Maine - 1955-2017



2017 Spruce Budworm Pheromone Trap Catches

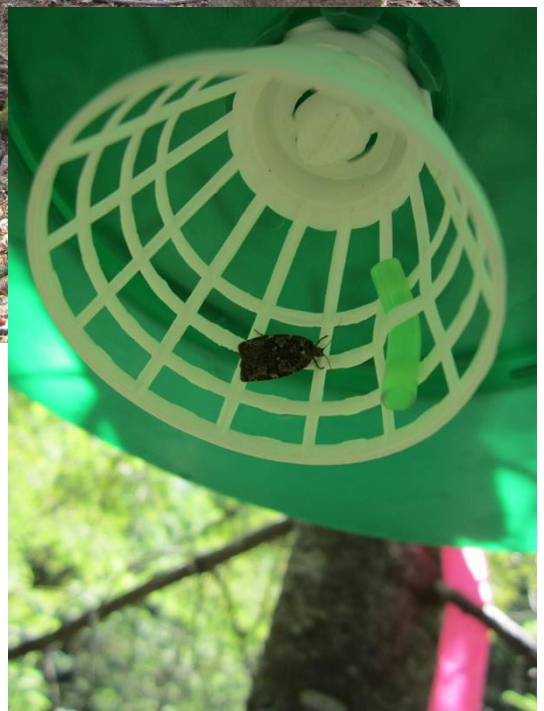
Department of Agriculture,
Conservation and Forestry
Maine Forest Service
Forest Health & Monitoring

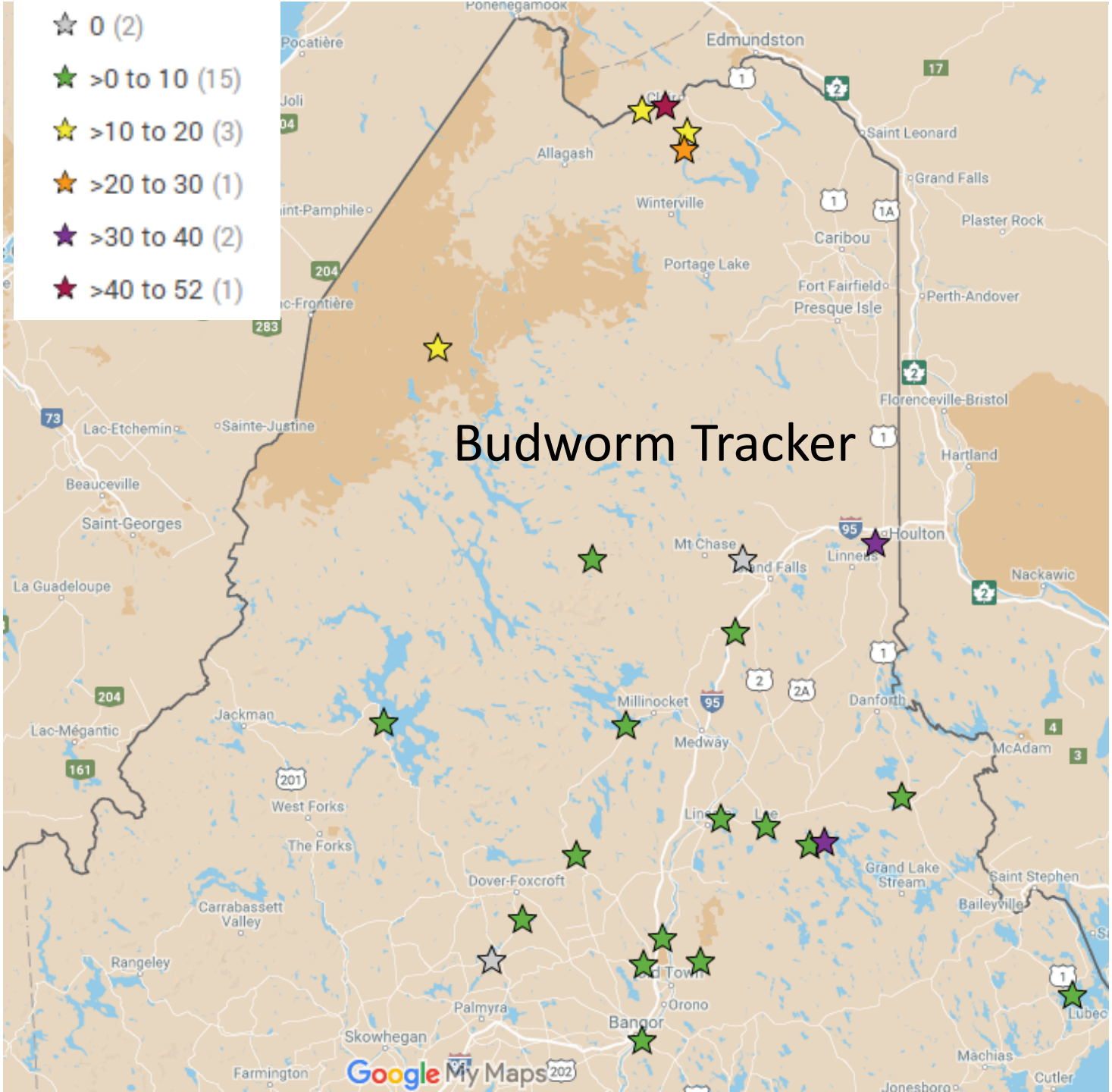
February 8, 2018

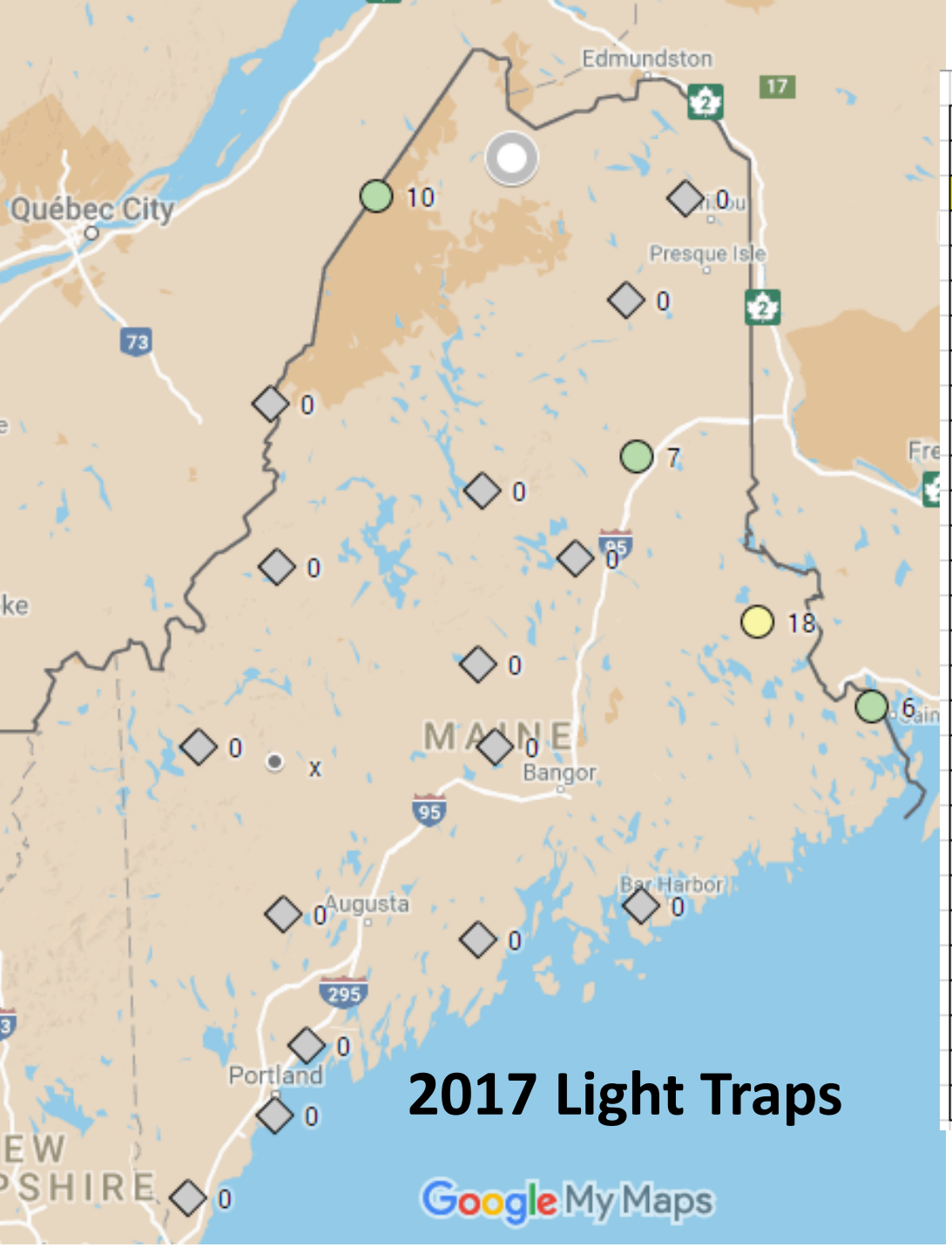
2017 SBW Pheromone Trap
AVE_SBW

- No Sample (21)
- 0.00 (24)
- 0.01 - 2.0 (104)
- 2.01 - 4.0 (56)
- 4.01 - 7.0 (64)
- 7.01 - 20.0 (114)
- 20.01 - 50.0 (47)
- 50.01 - 100.0 (8)
- 100.01 - 150.0 (1)
- 150.01 - 320.0 (0)

GTMiller E:\bugs\sbw\2017_trap_catches.mxd



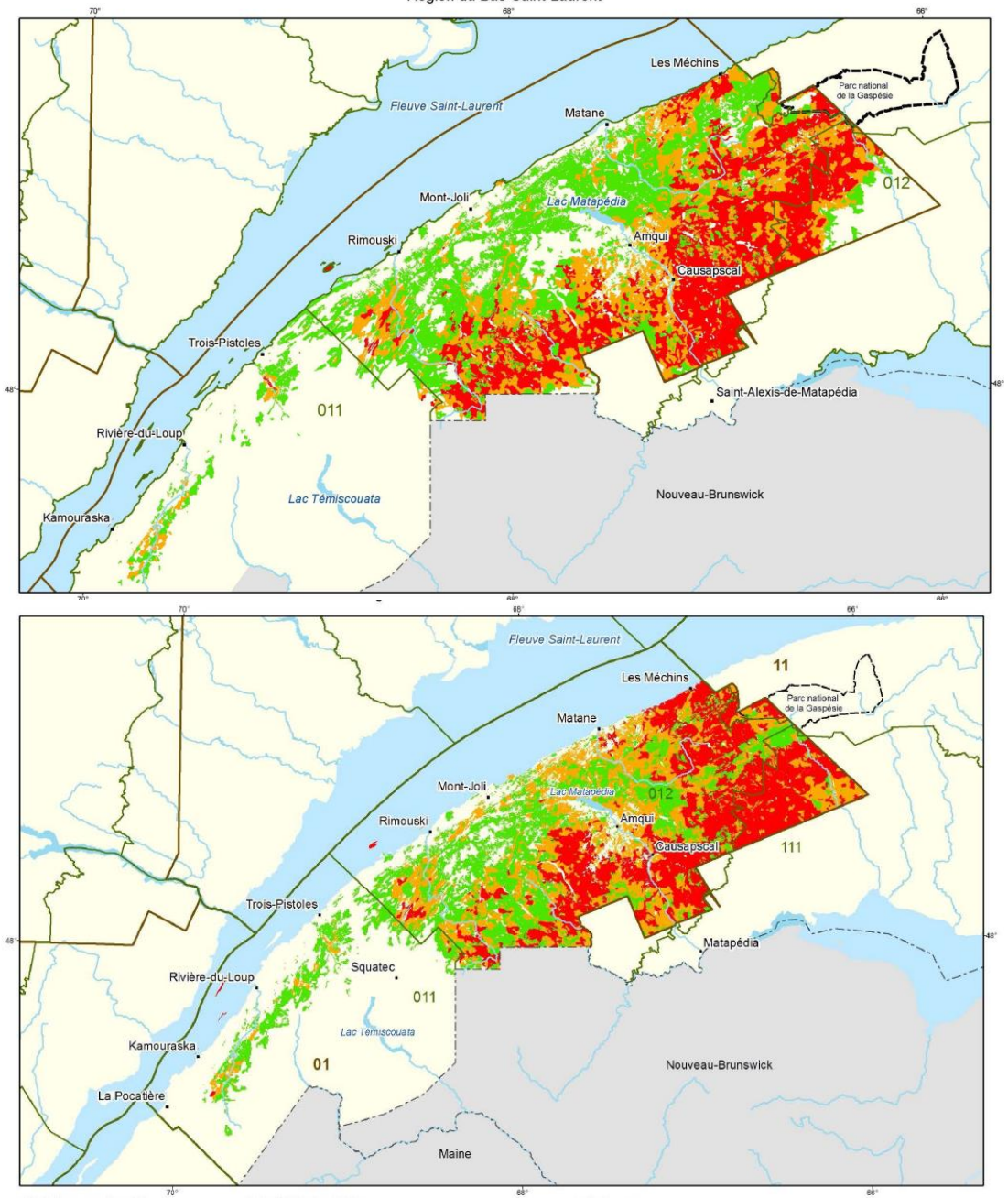

0 (2)
>0 to 10 (15)
>10 to 20 (3)
>20 to 30 (1)
>30 to 40 (2)
>40 to 52 (1)
Budworm Tracker
Edmundston
Saint Leonard
Grand Falls
Plaster Rock
Caribou
Fort Fairfield
Presque Isle
Perth-Andover
Florenceville-Bristol
Hartland
Houlton
Nackawic
Allagash
Winterville
Portage Lake
Mt Chase
Millinocket
Medway
Danforth
McAdam
Jackman
West Forks
The Forks
Dover-Foxcroft
Grand Lake Stream
Saint Stephen
Baileyville
Carrabassett Valley
Rangeley
Palmyra
Orono
Bangor
Skowhegan
Farmington
Machias
Cutler
Lac-Etchemin
Sainte-Justine
Beauceville
Saint-Georges
La Guadeloupe
Lac-Mégantic
Google My Maps

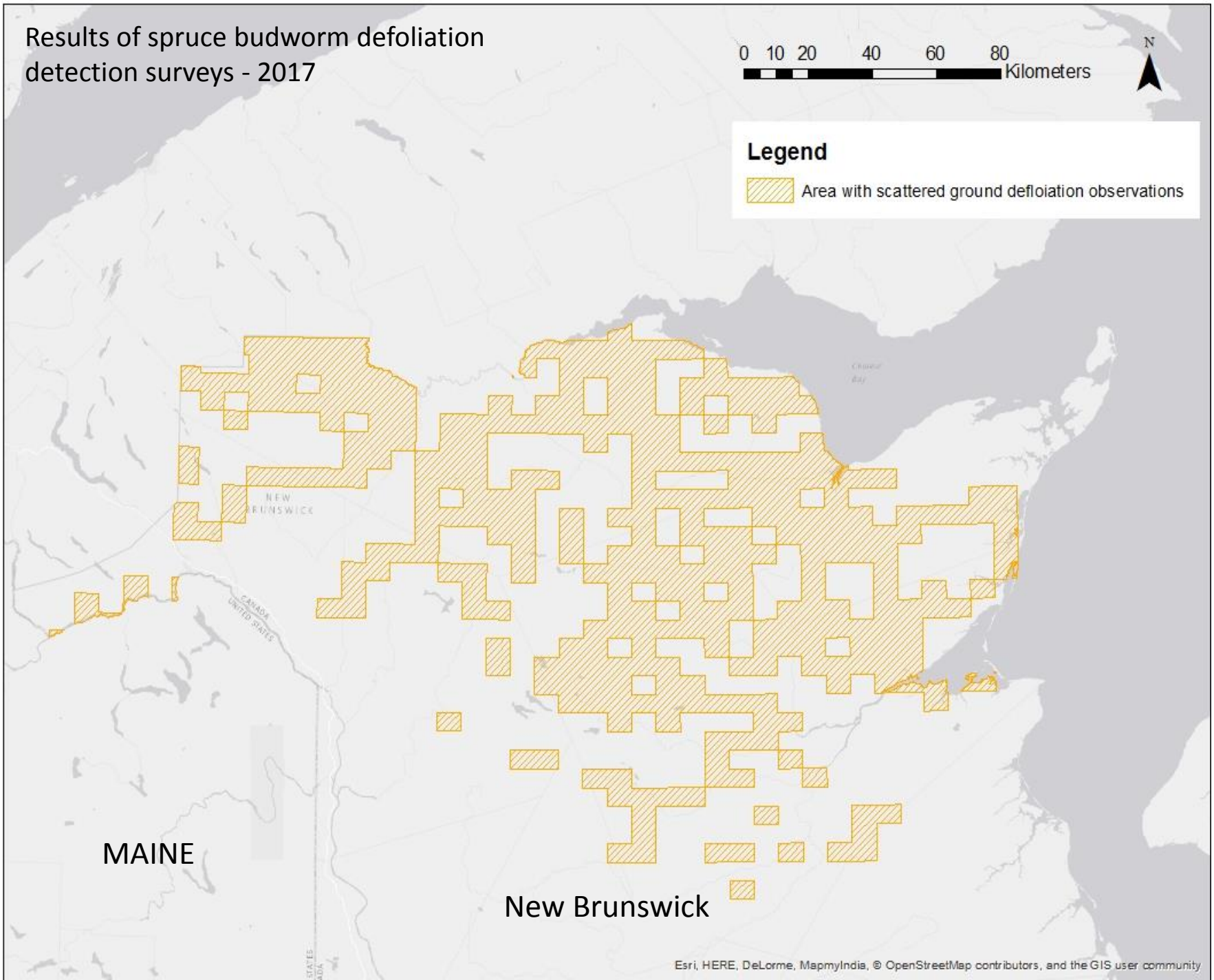


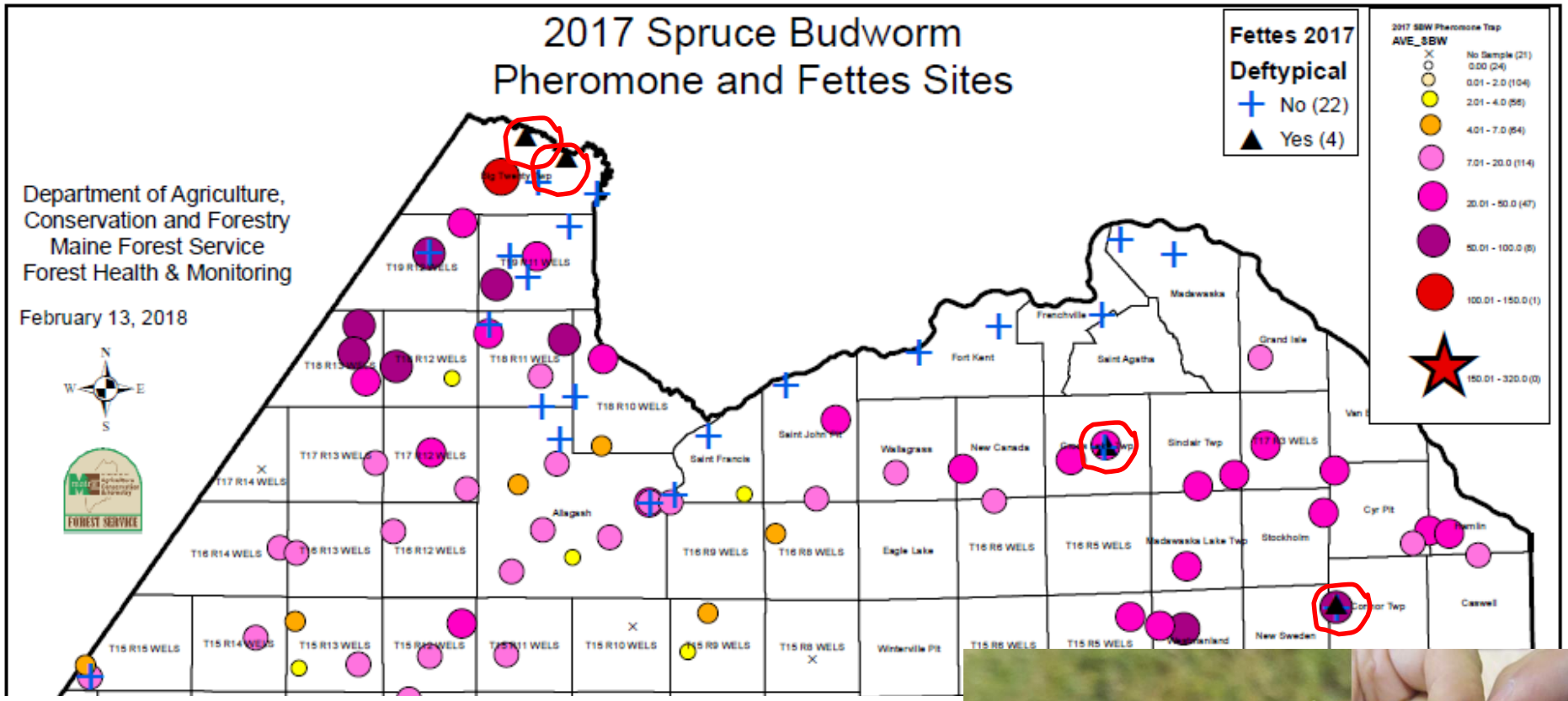
Spruce Budworm Caught in Light Traps						
Town	year					prelim
	2012	2013	2014	2015	2016	2017
Allagash	0	11	29	3	25	X
Ashland	0	0	3	0	3	0
Bowerbank	0	1	0	1	1	0
Calais	0	12	0	2	0	6
Cape Elizabeth	x	x	0	0	0	0
Crystal	0	0	0	5	53	7
Durham	x	x	x	0	0	x
Exeter	0	0	0	x	0	0
Frost Pond	0	1	x	17	13	0
Haynesville	0	0	2	x	x	x
Hope	0	0	0	0	0	0
Jackman	x	x	x	x	0	0
Kingfield	0	0	0	0	0	x
Millinocket	0	1	0	1	1	0
Monson	x	x	x	0	0	x
Mount Desert Island	0	x	x	x	3	0
Mount Vernon	0	0	x	x	x	x
New Sweden	0	0	x	2	3	0
Rangeley	0	0	2	1	0	0
Shirley	0	2	0	x	x	x
South Berwick	0	0	0	0	0	0
Big Six Twp -Ste. Aurelie	0	0	3	0	0	0
T10 R12 WELS -Churchill Da	x	x	0	x	x	x
T15 R15 WELS Ste. Pamphil	1	56	4	2	0	10
Topsfield	0	0	0	0	44	18
Turner	x	x	x	0	0	0
Total	1	84	43	34	146	41

Défoliation causée par la tordeuse des bourgeons de l'épinette

Région du Bas-Saint-Laurent




Results of spruce budworm defoliation detection surveys - 2017
0 10 20 40 60 80
Kilometers
N
Legend
Area with scattered ground defloiation observations
MAINE
New Brunswick
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



Defoliation Survey

- Fettes Method
  - Captures all-causes of defoliation
- 2017 Oct-Nov; 26 sites (some paired with L2)
- Trace defoliation recorded
  - (0.2 to 3.9%)
- A few sites with damage consistent with budworm feeding behavior.
- Repeat surveys 2018-July

L2 Survey

Coordinated by CFRU

- 220+/- Sites Sampled
- 130 Sites processed
- 2 larvae recovered
  - 0.3 larvae/branch at each of 2 sites

- Populations Remain Low in Maine -

- Possible *Trace* Defoliation Detected -

Spruce Budworm Task Force in Maine

sprucebudwormmaine.org

@SpruceBudwormMaine on Facebook

Maine Forest Service

maineforestservice.gov