

Lake Fairlee Treatment Areas - June 2, 2010

Southern Basin

Target Concentration = 2.0 ppm
Average Depth = 4.0 feet
Total Acreage = 57

According to the product label, total product necessary is calculated with the following formula:
average depth * target concentration * 27 = lbs of product

Therefore:

4.0 feet * 2.0 ppm * 27 = 216 lbs per acre
216 lbs * 57.5 acres = 12,420 lbs (round down to 12,400 lbs)
40 lbs per bag, therefore 310 bags = 12,400

Northern Basin

Target Concentration = 1.5 ppm
Average Depth = 4.5 feet
Total Acreage = 70

According to the product label, total product necessary is calculated with the following formula:
average depth * target concentration * 27 = lbs of product

Therefore:

4.5 feet * 1.5 ppm * 27 = 182 lbs per acre (round down to 180)
180 lbs * 70 acres = 12,600 lbs
40 lbs per bag, therefore 315 bags = 12,600 lbs

Lake Fairlee Fairlee, West Fairlee, & Thetford, Vermont

Figure 1

June 7, 2010

Pond Area: 460 acres

Scale: 1:16,000



Legend

Southern Basin

Target Concentration = 2.0 ppm
Total Renovate OTF = 12,400 lbs



Northern Basin Treatment Area

Target Concentration = 1.5 ppm
Total Renovate OTF = 12,600 lbs

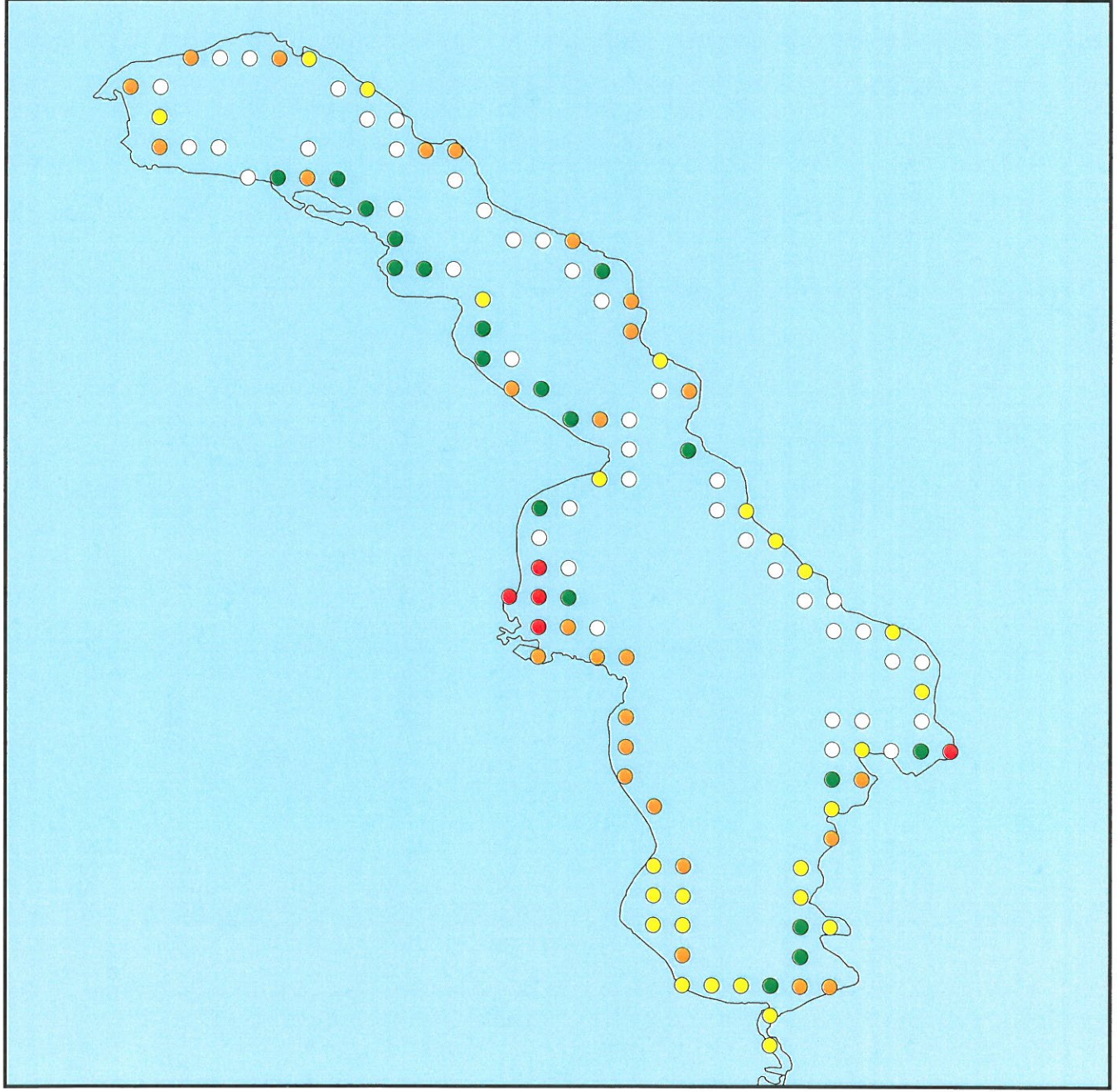


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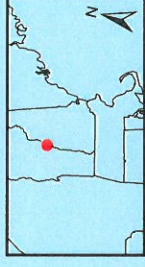
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Biomass Index of Individual Survey Points



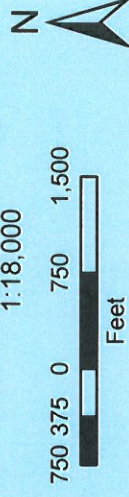
Lake Fairlee Fairlee, Thetford, West Fairlee Vermont



August 2010

Pond Area: 547 acres

VT NIAP 2009 Ortho Imagery
1:18,000



Legend

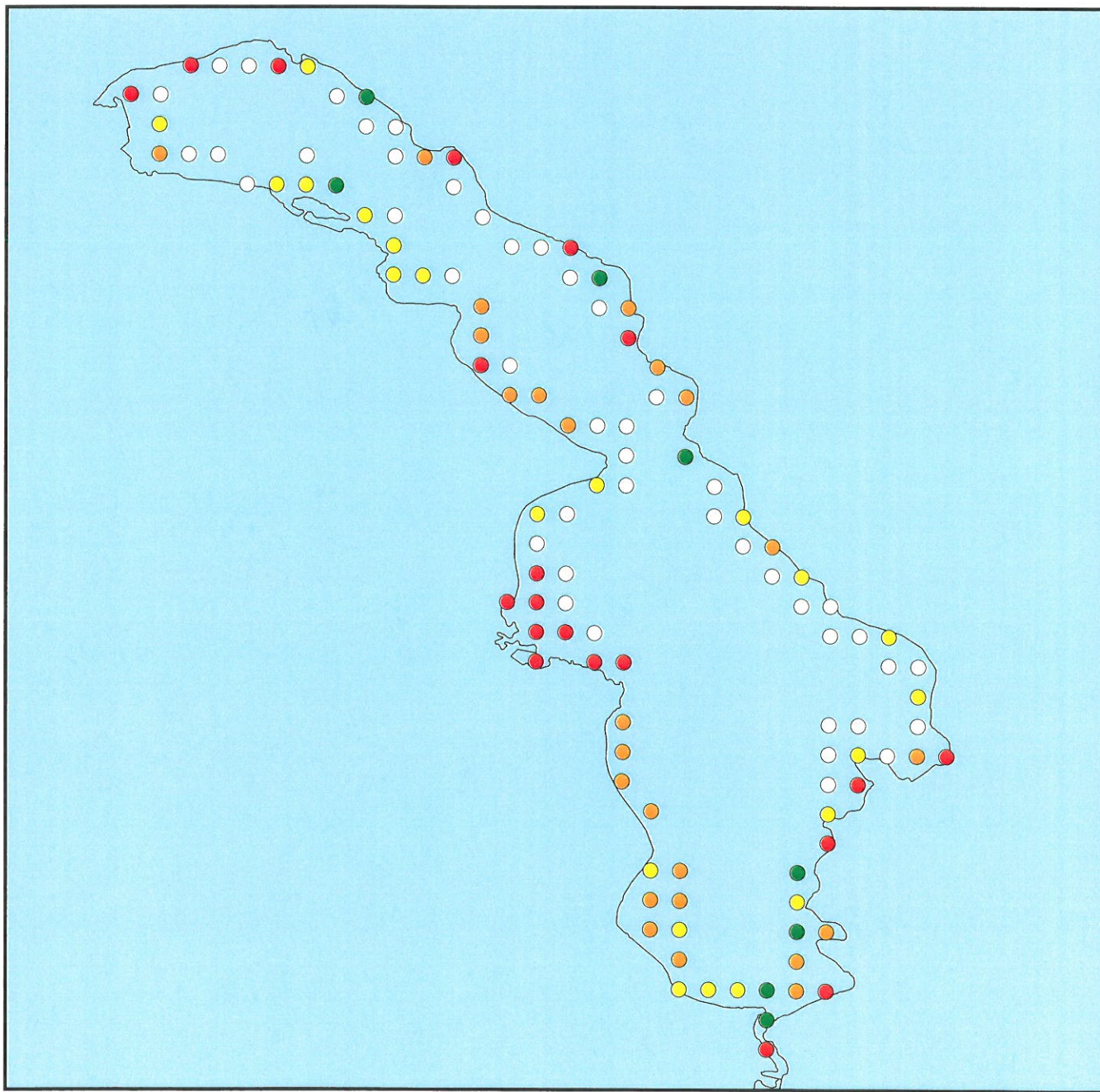
- No plants
- Low-growing plants
- Plants extending into water column
- Plants in water column
- Plants filling water column and covering surface

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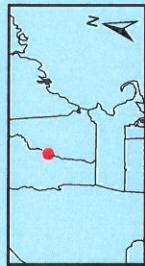
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Total Density at Individual Survey Points



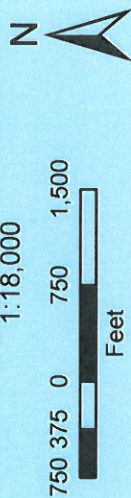
Lake Fairlee
Fairlee, Thetford, West Fairlee
Vermont



August 2010

Pond Area: 547 acres

VT NIAP 2009 Ortho Imagery
1:18,000



Legend

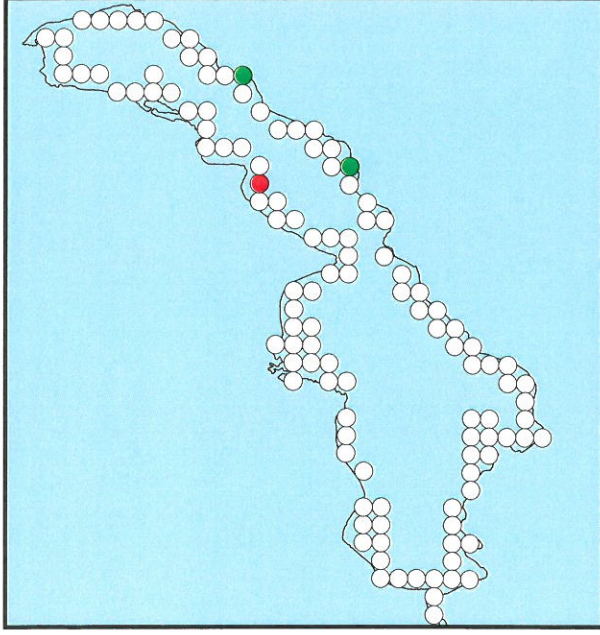
- Zero
- Trace
- Sparse
- Moderate
- Dense

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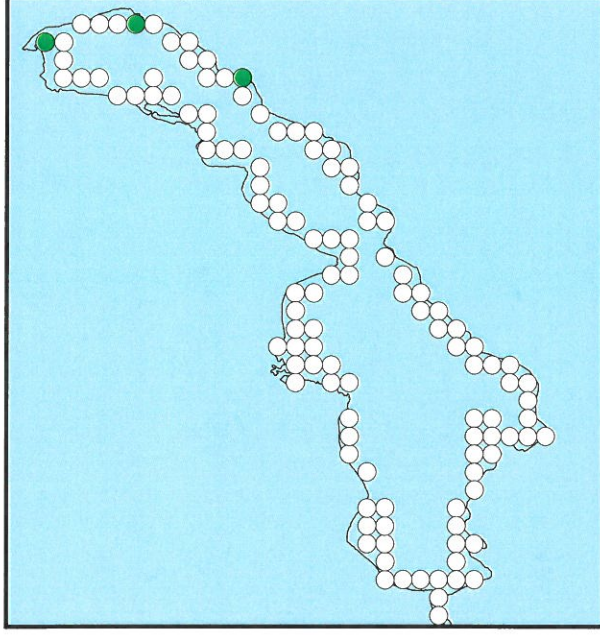
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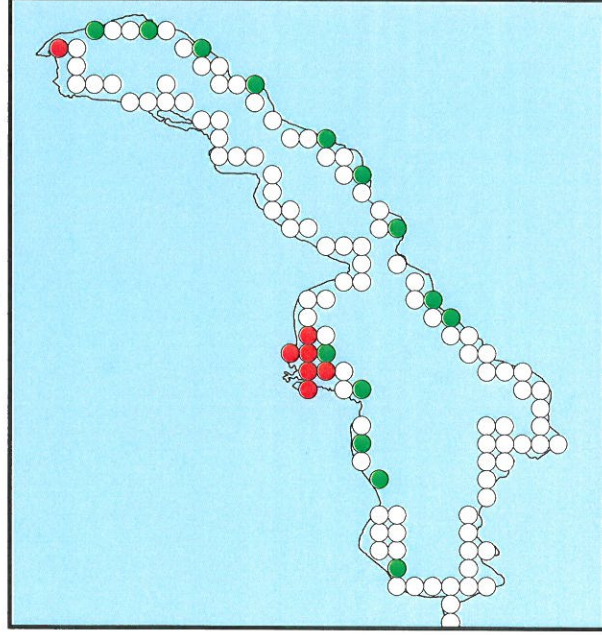
Presence / Absence of Observed Species



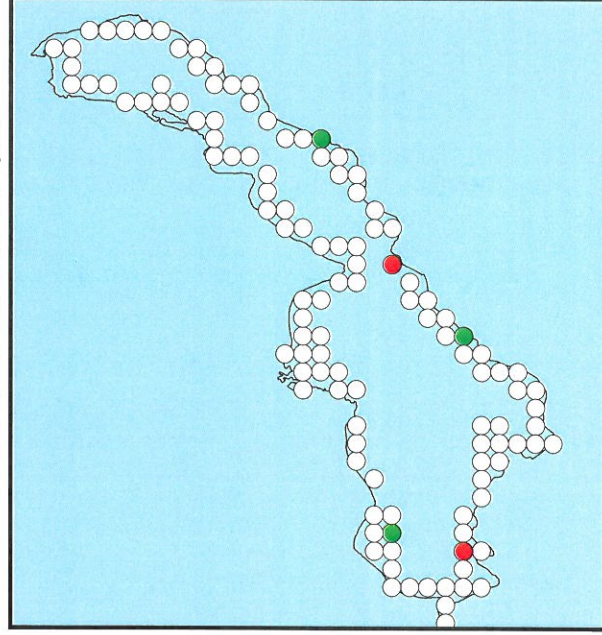
Waterweed (Elodea)
Occurs at 3% of points surveyed



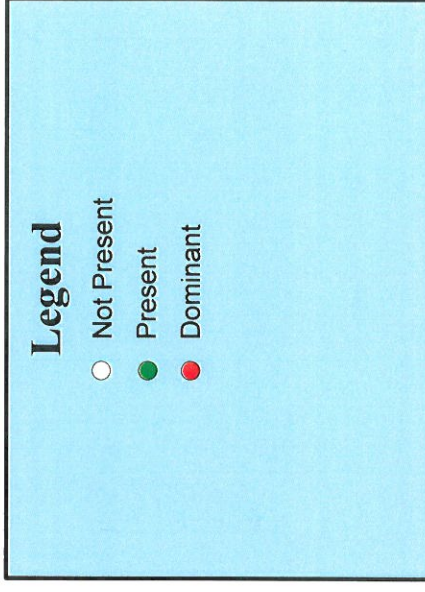
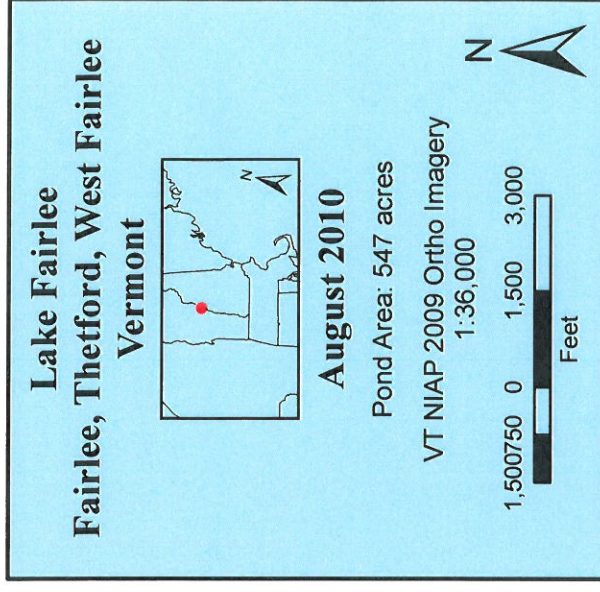
Quillwort (Isotes)
Occurs at 3% of points surveyed



Water Marigold (Megalondonta beckii)
Occurs at 18% of points surveyed



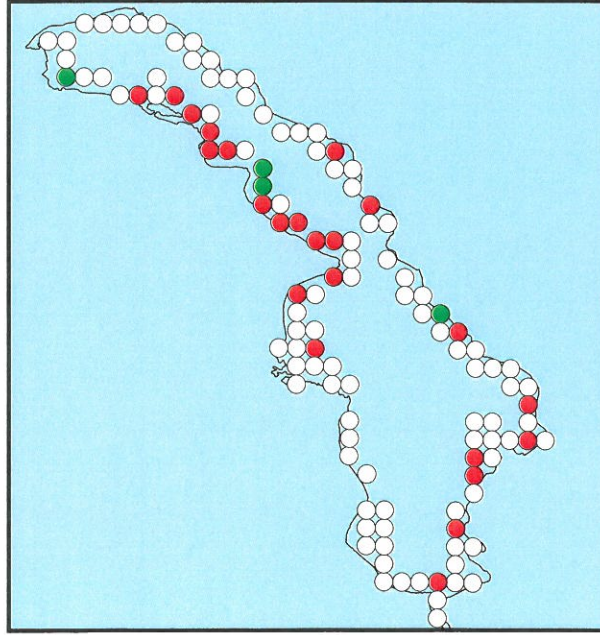
Bushy Pondweed (Najas)
Occurs at 4% of points surveyed



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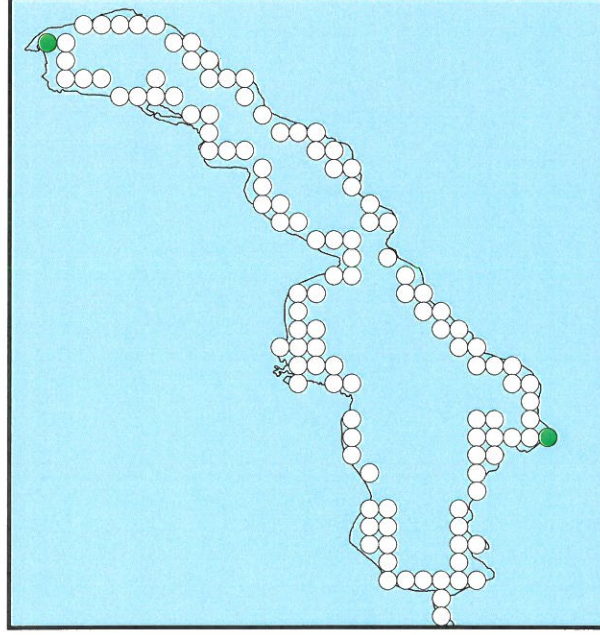
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Presence / Absence of Observed Species



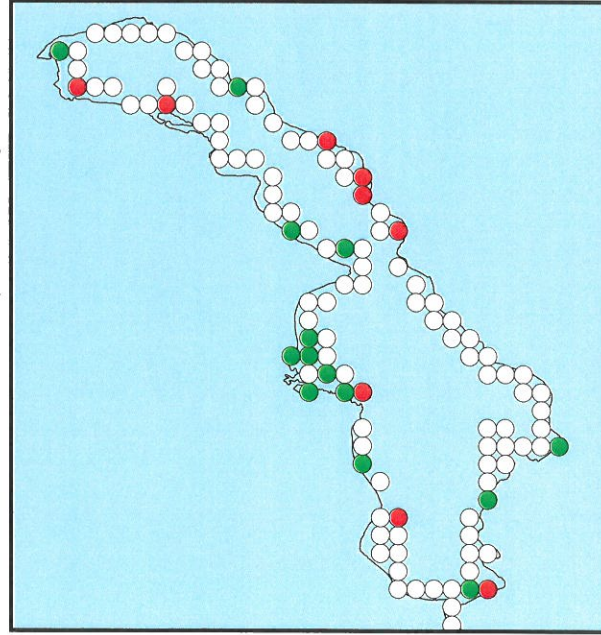
Stonewort (Nitella)

Occurs at 23% of points surveyed



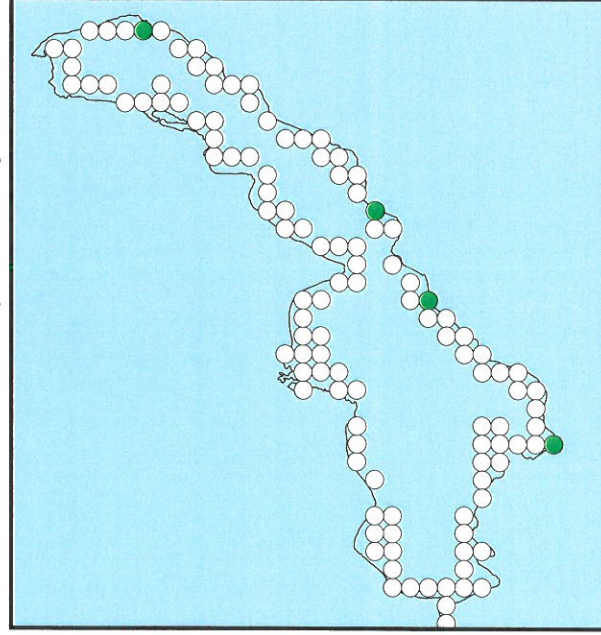
Water Lilies/Waterlily (Nymphaea / Nuphar / Brasenia)

Occurs at 2% of points surveyed



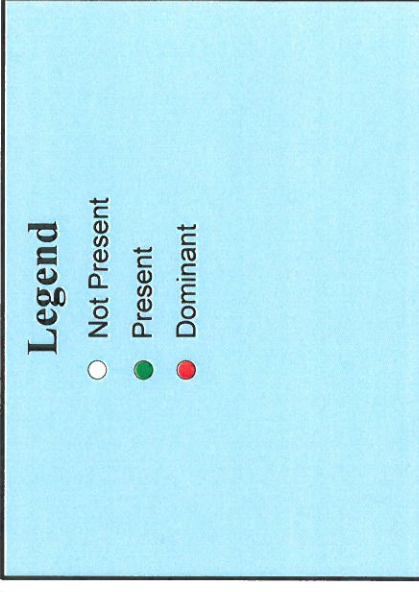
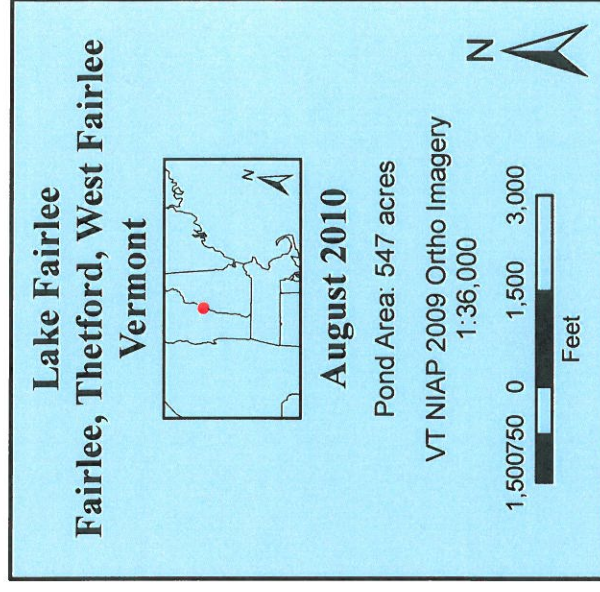
Big-Leaf Pondweed (Potamogeton amplifolius)

Occurs at 19% of points surveyed

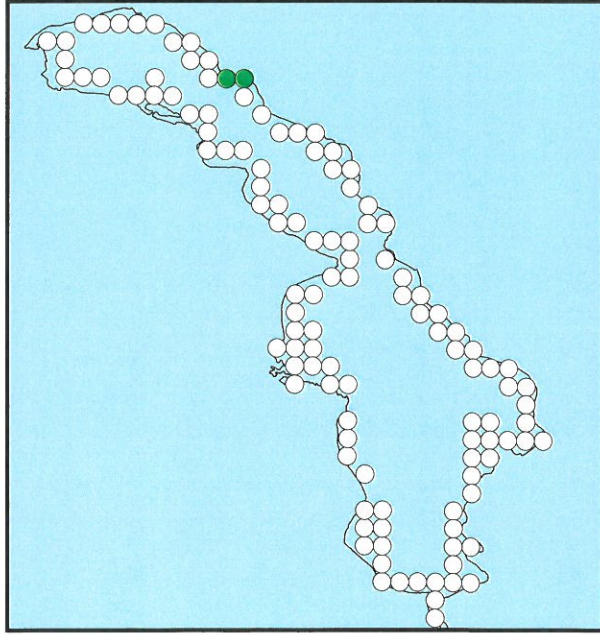


Ribbon-Leaf Pondweed (Potamogeton epiphydrus)

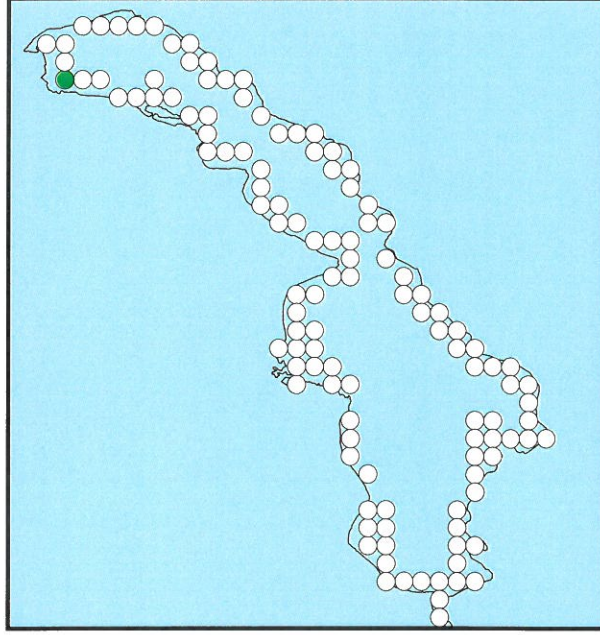
Occurs at 3% of points surveyed



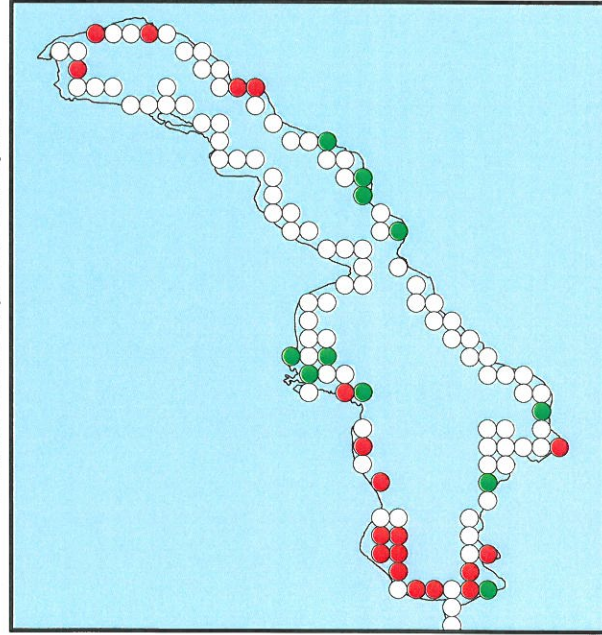
Presence / Absence of Observed Species



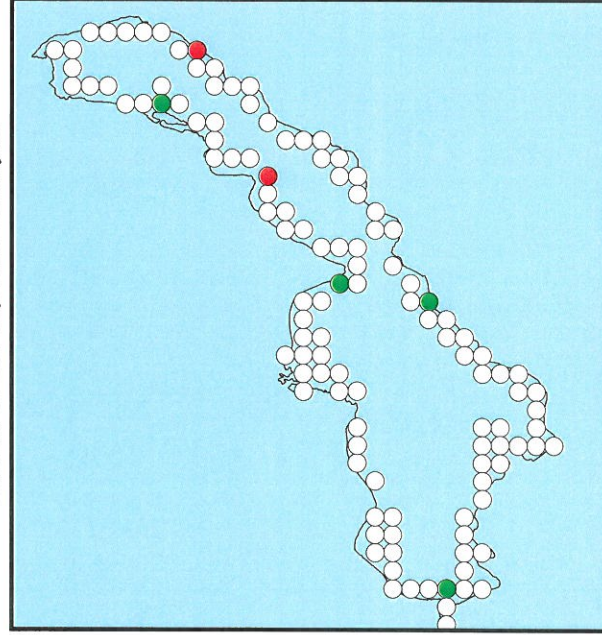
Clasp-Leaf Pondweed (*Potamogeton perfoliatus*)
Occurs at 2% of points surveyed



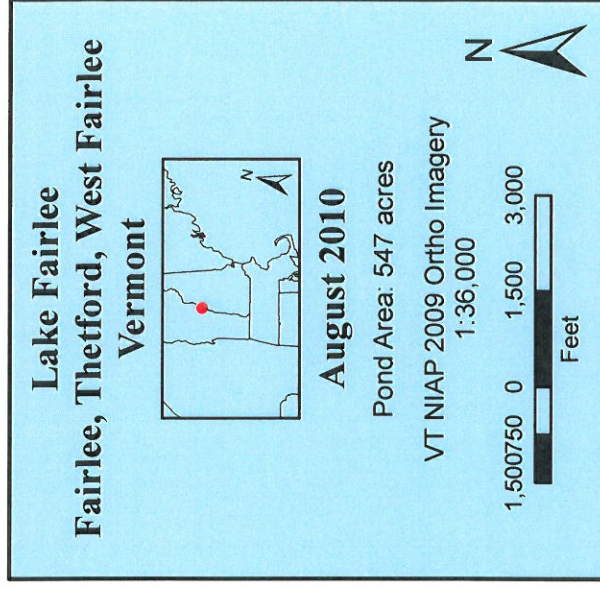
Tiny Pondweed (*Potamogeton pusillus*)
Occurs at 1% of points surveyed



Fern-Leaf Pondweed (*Potamogeton robbinsii*)
Occurs at 25% of points surveyed



Flatstem Pondweed (*Potamogeton zosteriformis*)
Occurs at 5% of points surveyed



Legend

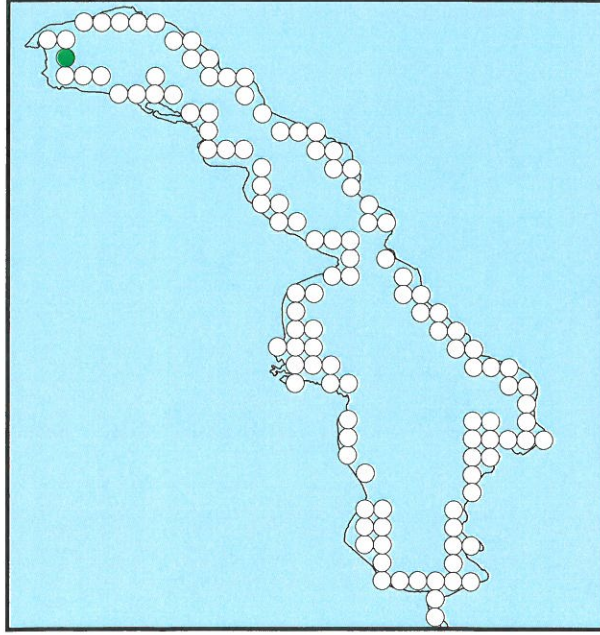
- Not Present
- Present
- Dominant

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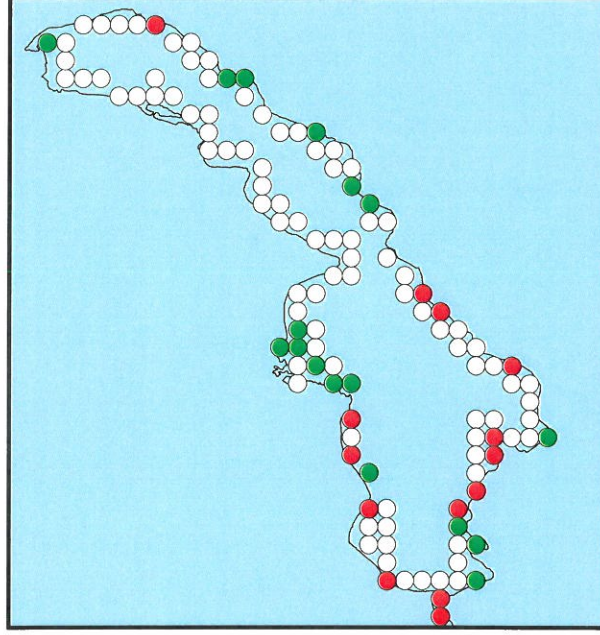
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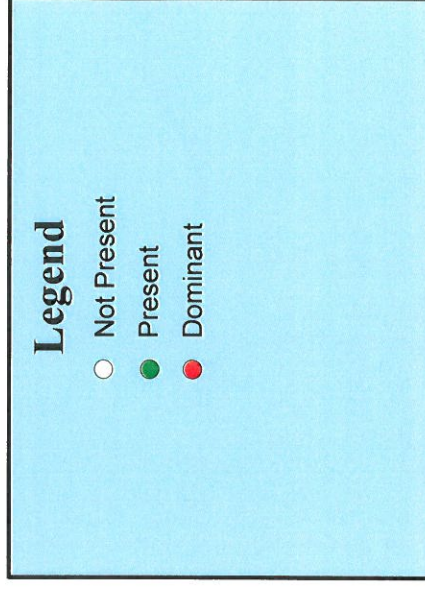
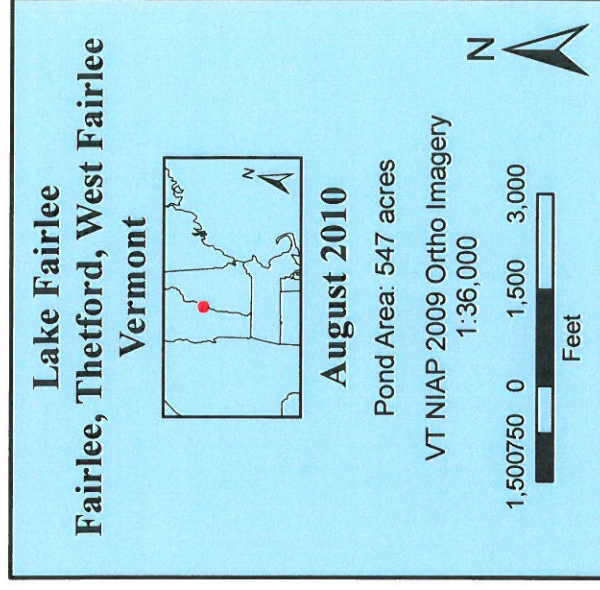
Presence / Absence of Observed Species



Bladderwort (*Utricularia*)
Occurs at 1% of points surveyed



Tape Grass (*Vallisneria americana*)
Occurs at 26% of points surveyed



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