

**BRANFORD**

**VERNAL POOLS**

N. PROCTOR  
Spring 2002

**BASIC OVERVIEW:**

Study Period: March 1 thru May 31 2002

Investigator: Noble S. Proctor

**Site Analysis:**

Private Property was respected

All sites visited twice to:

- 1/ assure validity of site
- 2/ check water levels
- 3/ check breeding success of frogs and salamanders

G.P.S. taken at all sites

Analysis of Vertebrates and Invertebrates made

Dominant vegetation analysis

Drawing made of site and measurements taken of the pools

Temp. of pools taken

Evaluation of water level made

Quality of surrounding area documented/ shown on forms

Photos taken at many sites

Site rough plotted on Branford Town Map

**TOTAL NUMBER OF POOLS: 55**

**BRANFORD VERNAL POOLS GPS LOCATIONS/ N. Proctor/2002**

<b>Site</b>	<b>GPS Position</b>	
Hosley/Hemlock	41 18.29	72 49.89
Hosley/Hemlock #2	41 18.36	72 49.92
Totoket/Gross Prop Corner	41 16.14	72 46.17
Pleasant Point	41 16.43	72 15.90
Tilcon Complex #1	41 16.93	72 45.94
Tilcon Complex #2	41 16.86	72 45.93
Tilcon Complex #3	41 16.74	72 45.83
Kilam's Point	41 15.36	72 50.25
I95-Branford Line	41 17.81	72 44.77
Town Line/Ledge Pond	41 17.77	72 44.71
Red Hill Road/Pole Pond	41 17.69	72 44.98
Red Hill Road/Entry Pond	41 17.65	72 44.95
Quarry Path Edge Pool	41 17.32	72 44.83
BSP South Pond Pool	41 17.77	72 48.35
BSP Hill Trail Pool	41 17.81	72 48.57
BSP Path Pool	41 17.90	72 48.63
Quarry Rd Ext.-Path Pool	41 16.41	72 44.77
Quarry Rd Ext.-Main Pool	41 16.28	72 44.90
QC-C3	41 18.42	72 48.40
QC-C2	41 18.50	72 48.37
QC-C1	41 18.50	72 48.30
QC-D6 & D7	41 18.63	72 48.30 (on D7)
QC-F5	41 18.80	72 48.03
QC-F3	41 18.84	72 48.07
Upper Queach Path	41 18.99	72 47.93
Flax Mill/Soccer Field	41 18.30	72 46.84
Salt 1	41 18.71	72 50.15
Salt 2	41 18.55	72 50.18
Salt 3	41 18.44	72 50.18
Howe Complex #1	41 16.87	72 47.82
Howe Complex #2	41 16.82	72 47.72
Howe Complex #3	41 16.91	72 47.82
Howe Complex #4	41 16.82	72 47.72
Watch Hill Pool/Hosley Ave	41 18.55	72 49.54
Quarry Secondary Pool	41 16.14	72 43.83
Pinchot/Medlyn Pool	41 16.11	72 43.88
Pinchot/Medlyn #2	41 16.26	72 43.85
Pinchot/Medlyn #3	41 16.63	72 43.94
Pinchot/Medlyn Deep Woods	41 17.21	72 44.22
Leetes Isle/O'Connell Court	41 17.04	72 45.43
Flax Mill BLT Pool	41 18.39	72 47.02
Mill Plains Line Pond	41 18.67	72 47.02

**BRANFORD VERNAL POOLS GPS LOCATIONS**      **page 2**

Salt. Power Line Pond #1	41 17.49	72 50.57
Salt. Power Line Pond #2	41 17.39	72 50.68
Salt. Power Line Pond #3	41 17.34	72 50.78
Salt. Trail Pond	41 17.67	72 50.15
Medlyn/Rt. 146	41 16.07	72 44.01
Coon Ledge Rd Pond #1	41 17.55	72 48.50
Ponds #2 and #3 (on private land--no reading taken)		

**51 sites**



## Basic Field Notes:

### Field Notes:

NSP-2002

Artificial pools appearing along I 95 are run-off pools and pools at ends of under road culverts. I checked these and they are silted in--no action. Lot of debris. Always near outfalls.

Road pools do appear in spring. At times theses are used by passing frogs or salamanders, but dry to quickly or damaged by bikers, 3 wheelers, hikers.

Edge of Red Maple Swamps- Salamanders will drop spermatophores and eggs. but no sure bet they will make it.

Quarry Pools- small, dry to quickly unless deep. (had one of these) Percolate out. Eggs dropped-none survive except in one such pool.

Ticks- 3/10- 1

3/11- 6

4/8- 2

4/15- 4

4/20- 3

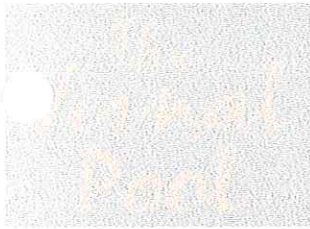
5/8- 2

5/20- 4

total=22 (2 embedded--1 positive for Lyme)

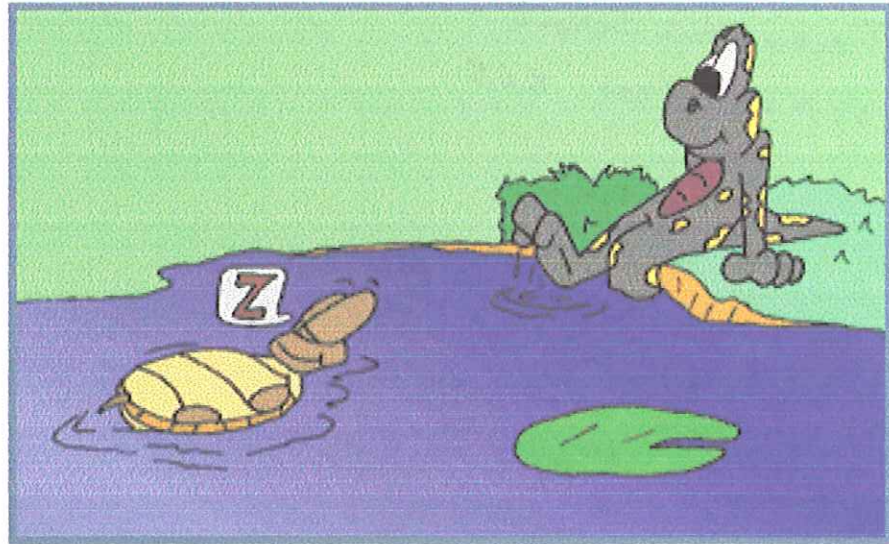
**MILEAGE AND HOURS:**

<u>Mileage</u>	<u>Car</u>	<u>Foot:</u>	
3/10	26	3/10	4
3/11	31	3/11	6
3/12	11	3/12	2
3/14	10	3/14	2
3/16	12	3/16	4
3/18	11	3/17	4
3/23	12	3/23	4
3/24	15	3/24	4
3/25	17	3/25	5
3/26	16	3/26	6
3/28	10	3/28	3
3/29	14	3/29	5
	185 miles		60 hrs
April	60 miles	re-visits	45 hrs
May	30 miles	re visits/ workups	40 hrs
<u>Total Miles= 275</u>		<u>Total hours= 145 hrs</u>	



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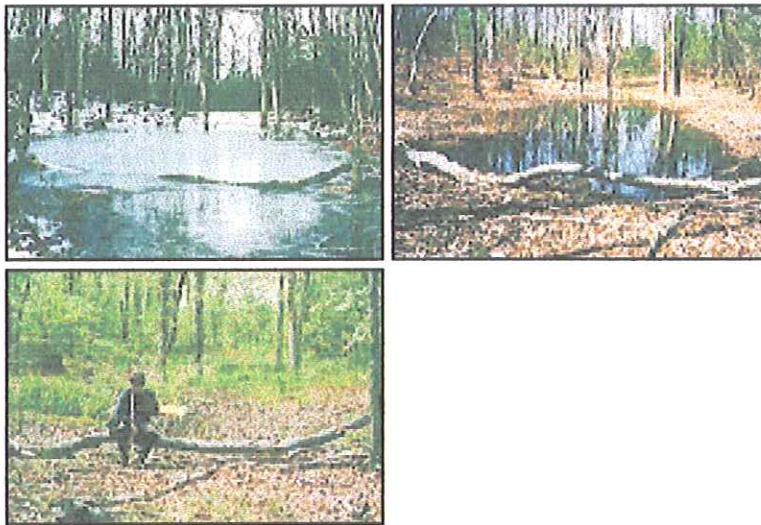
## Information About Vernal Pools



### Physical description of a vernal pool

A vernal pool is a contained basin depression lacking a permanent above ground outlet. In the Northeast, it fills with water with the rising water table of fall and winter or with the meltwater and runoff of winter and spring snow and rain. Many vernal pools in the Northeast are covered with ice in the winter months. They contain water for a few months in the spring and early summer. By late summer, a vernal pool is generally (but not always) dry. Below are views of the same pool at three different times of the year.



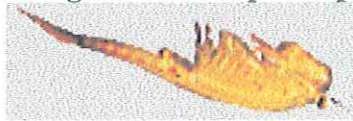


Vernal pools may be found in a variety of different locations.

### Biological description of a vernal pool

A vernal pool, because of its periodic drying, does not support breeding populations of fish. Many organisms have evolved to use a temporary wetland which will dry but where they are not eaten by fish. These organisms are the "obligate" vernal pool species, so called because they **must** use a vernal pool for various parts of their life cycle. If the obligate species are using a body of water, then that water **is** a vernal pool. In New England, the easily recognizable obligate species are the fairy shrimp, the mole salamanders and the wood frog.

### Obligate vernal pool species



Fairy shrimp are small (about 1 inch) crustaceans which spend their entire lives ( a few weeks) in a vernal pool. Eggs hatch in late winter/early spring and adults may be observed in pools in the spring. Females eventually drop an egg case which remains on the pool bottom after the pool dries. The eggs pass through a cycle of drying and freezing, and then hatch another year when water returns. The presence of fairy shrimp indicates that a water body is a vernal pool.



Wood frogs are an amphibian species of upland forests. They venture to vernal pools in early spring, lay their eggs, and return to the moist woodland for the remainder of the year. The tadpoles develop in the pool and eventually follow the adults to adjacent uplands. The presence of evidence of breeding by wood frogs (chorusing or mating adults, egg masses or tadpoles) indicates that a pool is a vernal pool.



The mole salamanders are also upland organisms. They spend most of their lives in burrows on the forest floor. Annually, on certain rainy nights, they migrate to ancestral vernal pools to mate and lay their eggs. They soon return to the upland. The eggs develop in the pool and, by the time the pool dries, the young emerge to begin their life as a terrestrial animal. Evidence that mole salamanders breed in an area make that water body a vernal pool. Breeding evidence would be a breeding congress, spermatophores, egg masses or larvae.

Hosley/Hemlock

## Branford Vernal Pool

Date: 3/7/02

Investigator: N.S. Proctor  
Site# Hosley/Hemlock #1

GPS Location:            41    18.29  
                                     72    49.89

Pond Size:            150' X 50'

Water Level Based on High Water Mark  
Maximum                      Half                      Low

X

Depth:

Distance from High Water Mark: 10"

Water Temp:    40

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		10 masses		50+ scattered

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_

10 + calling    30 masses

Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubrachyptus*)    Yes \_\_\_\_\_ X abundant    No \_\_\_\_\_

Daphnia            Collembola

Cyclops            Ram's Horn Snail

Pool Sketch

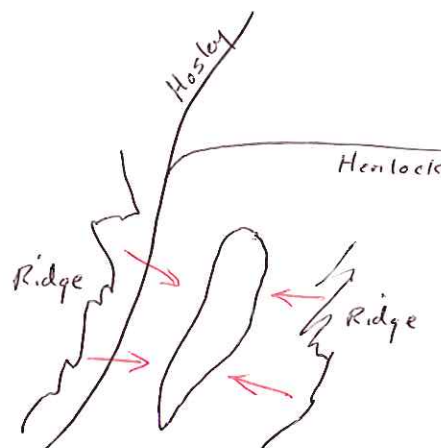
(principal movement from prime habitat marked in red)

Dominate Vegetation at Site

Red Maple, Red Ash, Am. Beech  
Sweet Pepperbush

Comments:

High quality vernal pool  
Ridges on either side important for  
populations. Unfortunately -- one  
population must cross road!



# Branford Vernal Pool

Date: 3/23/02

Investigator: N.S. Proctor  
Site# Hosley/ Hemlock # 2

GPS Location: 41 18.36  
72 49.92

Pond Size: 250' X 90'

Water Level Based on High Water Mark  
Maximum Half Low

X

Depth:  
Distance from High Water Mark: 6"

Water Temp: 42.6

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				30+
Marbled Salamander <i>Ambystoma opacum</i>				
Wood Frog <i>Rana sylvatica</i>	3+ calling	20 masses		

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)  
Spotted Turtle (*Clemmys guttata*)- under mud

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X

Daphnia  
Cyclops

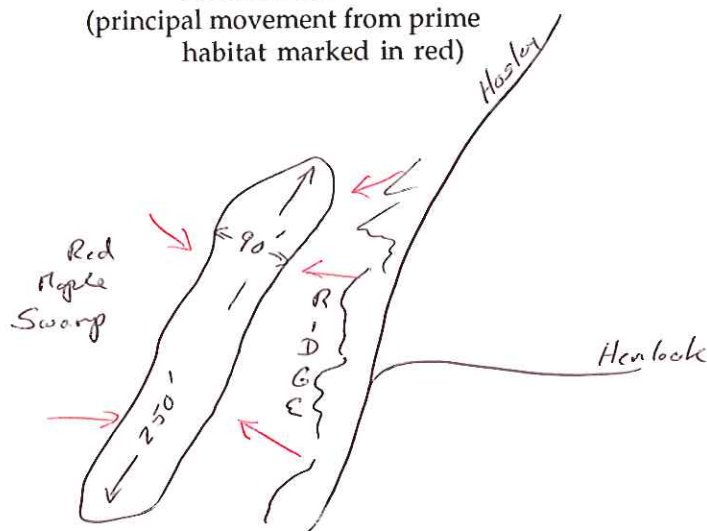
## Dominate Vegetation at Site

Red maple, *Ilex*, Highbush Blueberry  
Moss tussocks, *Carex stricta* tussocks, *Sphagnum*

## Comments:

Quality vernal pool  
Ridges on one side assure adult  
wintering sites

Pool Sketch  
(principal movement from prime  
habitat marked in red)





# Branford Vernal Pool

Date: 3/10/02

Investigator: N.S. Proctor

Site# Totoket Rd./Gross Corner Pond

GPS Location: 41 16.14  
72 46.17

Pond Size: 100' X 35'

## Water Level Based on High Water Mark

Maximum

Half

Low

X

## Depth:

Distance from High Water Mark: 10" (half full)

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>				

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

10 calling (early morning count)

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X \_\_\_\_\_

Daphnia

Cyclops

## Pool Sketch

(principal movement from prime habitat marked in red)

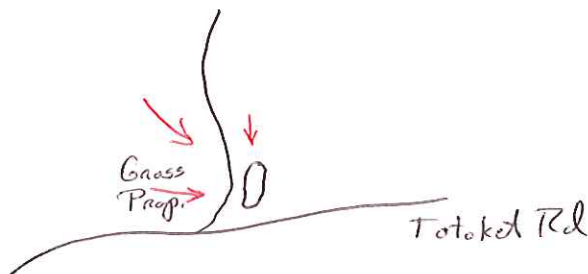
## Dominate Vegetation at Site

Silky Dogwood, Grape, *Smilax*

Windberry

## Comments:

Once a quality pool, now overgrown and seemingly lost. Lot of debris in water. Heavily shadowed.





# Branford Vernal Pool

Date: 3/10/02

Investigator: N.S. Proctor  
Site# Pleasant Pt. Road

GPS Location: 41 16.43  
72 15.90

Pond Size: 200' X 100' (functional area= 90' X 25') *Phragmites* overgrown

## Water Level Based on High Water Mark

Maximum Half Low  
X

## Depth:

Distance from High Water Mark: 12"

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				

Marbled Salamander  
*Ambystoma opacum*

Wood Frog  
*Rana sylvatica* 50+ calling 50 masses

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

NOTE: Fowler's Toads (*Bufo woodhousei*)-often breed here in late spring

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

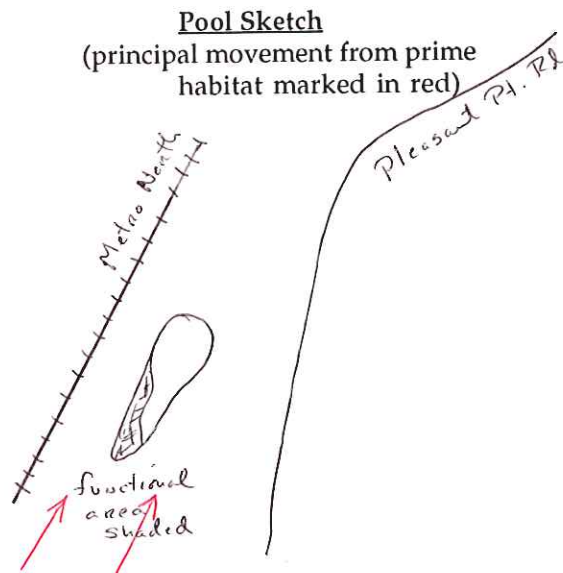
Daphnia  
Cyclops

## Dominate Vegetation at Site

red maple (open over site)  
*Phragmites* taking over the pool

## Comments:

Once a quality pool, now being overgrown. Still a lot of activity. Mink seen hunting wood frogs.



# Branford Vernal Pool

Date: 3/10/02

Investigator: N.S. Proctor  
Site# Tilcon Complex #1

GPS Location: 41 16.93  
72 45.94

Pond Size: 300' X 200' X 140'

## Water Level Based on High Water Mark

Maximum

Half

Low

X

## Depth:

Distance from High Water Mark: 24"

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				100+ scattered

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

100 calling 50 masses on 3/23

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

Daphnia

Cyclops

## Pool Sketch

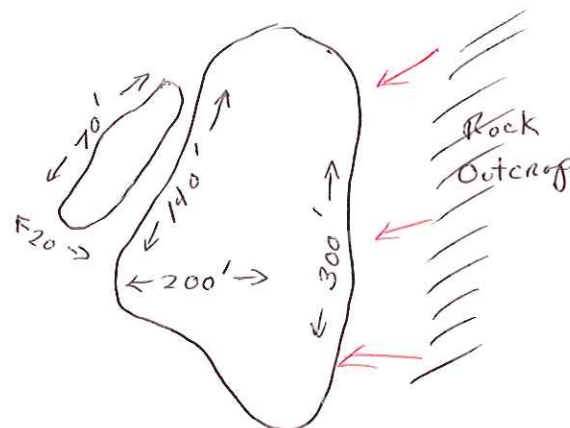
(principal movement from prime habitat marked in red)

## Dominate Vegetation at Site

Red Maple, Sweet Pepperbush, Ilex  
dead Hemlocks, Red Oak, Highbush  
Blueberry

## Comments:

Quality vernal pool, great deal  
of activity



# Branford Vernal Pool

Date: 3/10/02

Investigator: N.S. Proctor

Site# Tilcon Complex #2 (3 pool area)

GPS Location: 41 16.86  
72 45.93

Pond Size: 100' X 30' 30' X 40' 30' X 30'

## Water Level Based on High Water Mark

Maximum	Half	Low
(over on 3/23)	X	

## Depth:

Distance from High Water Mark: 14"

Water Temp: 40

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		20 masses		30+ scattered

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* 50+ calling 20 masses

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X

Ostacods

Daphnia

Cyclops

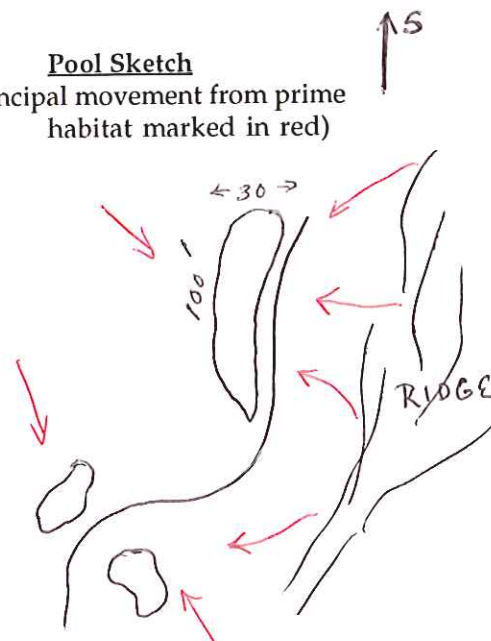
## Dominate Vegetation at Site

Red Maple, Sweet Pepperbush, *Ilex*  
dead Hemlocks, Red Oak, Highbush  
Blueberry

## Comments:

Quality vernal pool complex.  
great deal of activity

Pool Sketch  
(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/10/02

Investigator: N.S. Proctor

Site# Tilcon Complex #3 (2 pool area)

GPS Location: 41 16.74  
72 45.83

Pond Size: 70' X 20' 50' X 80'

## Water Level Based on High Water Mark

Maximum 3/4 Half Low

## Depth:

Distance from High Water Mark: 14"

Water Temp: 40

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		20masses	100s (5/5)	20+scattered

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

100+ calling 30masses! (100s on 5/5)

## Faculative Vertebrates Present:

none

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No ☒

Ostacods

Daphnia

Cyclops

## Dominate Vegetation at Site

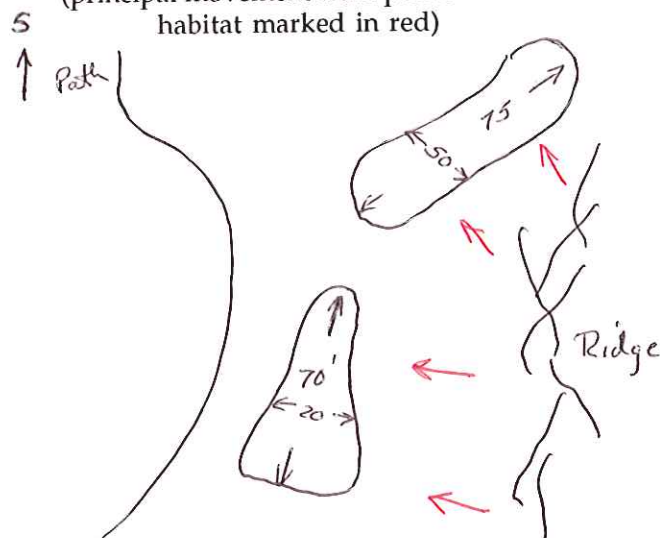
Red Maple, Sweet Pepperbush, *Ilex*  
dead Hemlocks, Red Oak, Highbush  
Blueberry, *Nyssa*

## Comments:

Quality vernal pool complex.  
great deal of activity

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/12/02

Investigator: N.S. Proctor  
Site# Kilam's Point

GPS Location:            41    15.36  
                                     72    50.25

Pond Size:            60' X 40'

Water Level Based on High Water Mark  
Maximum                      Half

Low  
1/3 charge on 4/6 visit

Depth:  
Distance from High Water Mark: 6"

Water Temp:    40

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				

Marbled Salamander <i>Ambystoma opacum</i>				
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Wood Frog <i>Rana sylvatica</i>	10+ calling	2 masses		
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## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*)    Yes \_\_\_\_\_ No X

## Dominate Vegetation at Site

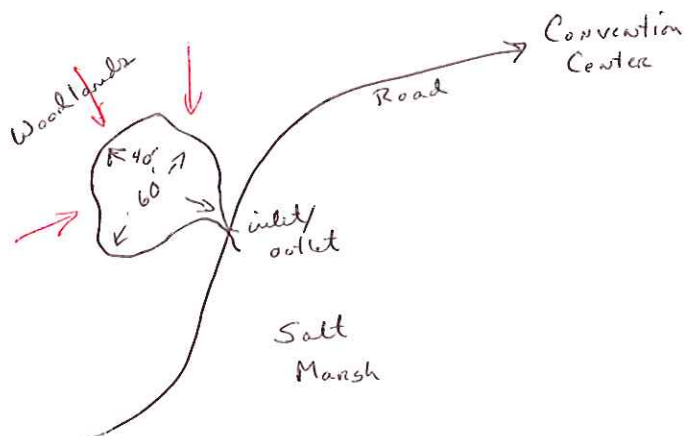
Red maple , Poison Ivy, Arrowwood  
*Phragmites* moving in

## Comments:

An active pool in past. Close proximity  
of salt water and outlet/inlet can effect.  
Limited frog movement from woodland

## Pool Sketch

(principal movement from prime  
habitat marked in red)





# Branford Vernal Pool

Date: 3/11/02

Investigator: N.S. Proctor  
Site# I 95 Branford Line

GPS Location: 41 17.81  
72 44.77

Pond Size:  
110' X 50'

## Water Level Based on High Water Mark

Maximum 3/4 Half Low

Depth:  
Distance from High Water Mark: 24"

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>	18	73 masses		over 600!

Marbled Salamander <i>Ambystoma opacum</i>				
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Wood Frog <i>Rana sylvatica</i>	6 calling	114 masses!		
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## Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)  
)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No ☒ X  
Ostacods  
Daphnia  
Cyclops

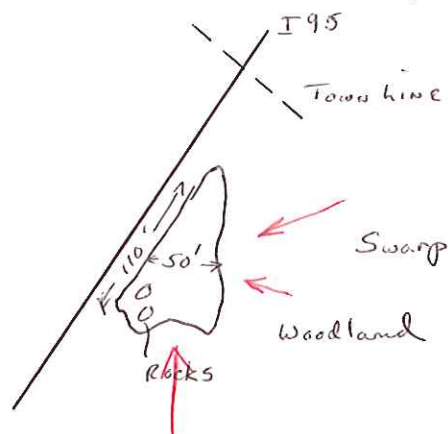
## Dominate Vegetation at Site

Phragmites invading, Red Maple  
Mt. Laurel, *Ilex*

## Comments:

An excellent vernal pool. Runoff from highway a concern. Lot of debris. In a precarious location

Pool Sketch  
(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/11/02

Investigator: N.S. Proctor  
Site# Town Line Ledge Pool

GPS Location: 41 17.77  
72 44.71

Pond Size:  
90' X 30'

## Water Level Based on High Water Mark

Maximum

Half  
X

Low

## Depth:

Distance from High Water Mark: 12"

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>	2	2 masses		300+!

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

## Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)

Spotted Turtle (*Clemmys guttata*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

## Pool Sketch

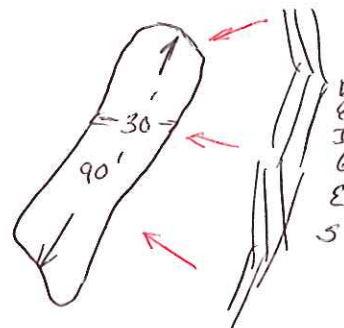
(principal movement from prime habitat marked in red)

## Dominate Vegetation at Site

Red Maple, Red Ash, Red Oak

## Comments:

ledges nearby assure adult protection





# Branford Vernal Pool

Date: 3/11/02

Investigator: N.S. Proctor

Site# Red Hill Rd.- Pole 5174

GPS Location: 41 17.69 (from road edge)  
72 44.98

Pond Size:

175 ' X 50' (est.)

Water Level Based on High Water Mark

Maximum 3/4 Half Low

Depth:

Distance from High Water Mark: no check-private land

Water Temp: no check-private land

Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

*Ambystoma maculatum* \_\_\_\_\_

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* 20+ heard

Faculative Vertebrates Present:

Spring Peepers- (*Pseudacris crucifer*)

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No ☒ (no check private)

Pool Sketch

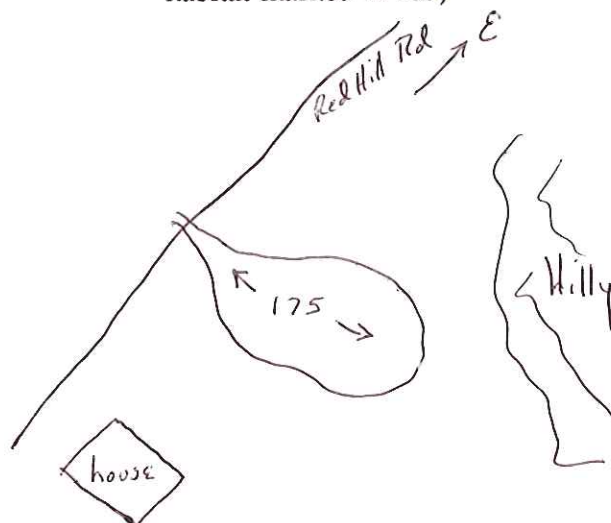
(principal movement from prime habitat marked in red)

Dominate Vegetation at Site

Red Maple, Red Ash, some *Phragmites*  
*Smilax*, *Carex* tussocks

Comments:

has outlet  
private so size is est.  
viewed from road



# Branford Vernal Pool

Date: 3/11/02

Investigator: N.S. Proctor  
Site# Red Hill Rd, Entry Pond

GPS Location: 41 17.65  
72 44.95

Pond Size: 90' X 30'

Water Level Based on High Water Mark  
Maximum Half Low

X

Depth:  
Distance from High Water Mark: 10"

Water Temp: 40

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				30+
Marbled Salamander <i>Ambystoma opacum</i>				
Wood Frog <i>Rana sylvatica</i>		10 masses		

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X

## Dominate Vegetation at Site

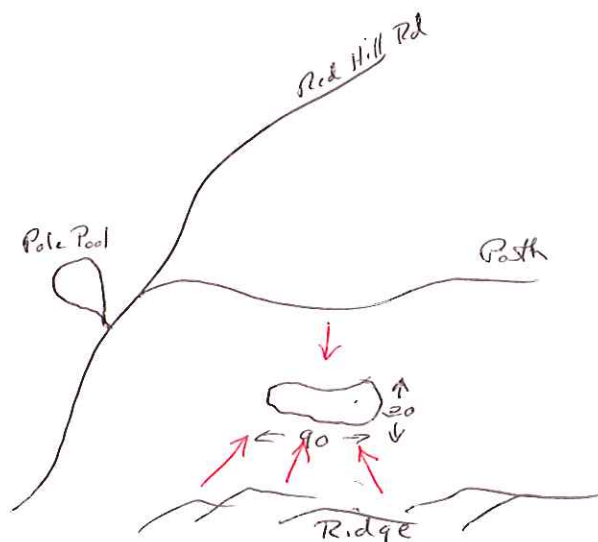
Pin, Red, Black Oaks, Ilex

## Comments:

fills late, good habitat around it

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/11/02

Investigator: N.S. Proctor  
Site# Quarry Path Edge Pond

GPS Location: 41 17.32  
72 44.83

Pond Size: 175' X 35'

## Water Level Based on High Water Mark

Maximum Half Low  
3/4

## Depth:

Distance from High Water Mark: 12"

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				60+
Marbled Salamander <i>Ambystoma opacum</i>				
Wood Frog <i>Rana sylvatica</i>	10+ calling			

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes ☐ No ☒ X  
Ostacods  
*Daphnia*  
*Cyclops*

## Pool Sketch

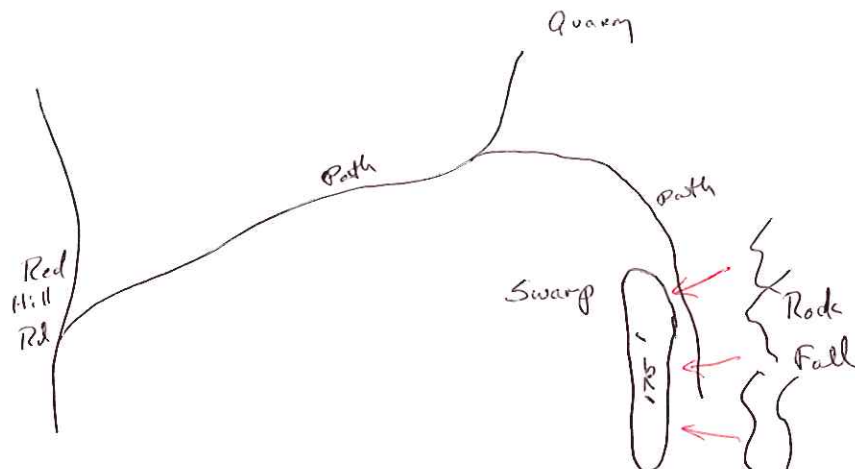
(principal movement from prime habitat marked in red)

## Dominate Vegetation at Site

Red maple, Red Ash  
*Sphagnum*

## Comments:

Excellent habitat around pool



# Branford Vernal Pool

Date: 3/26/02

Investigator: N.S. Proctor

Site# Branford Supply Pond- South Pond Pool

GPS Location: 41 17.77  
72 48.34

Pond Size: 100' X 75'

Water Level Based on High Water Mark

Maximum Half Low  
3/4

Depth:

Distance from High Water Mark: 24"

Water Temp: 43

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		10 masses		60+

Marbled Salamander  
*Ambystoma opacum*

Wood Frog  
*Rana sylvatica* 10+ calling 30 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X  
Ostacods  
Daphnia  
Cyclops  
Ram's Horn Snail

Dominate Vegetation at Site

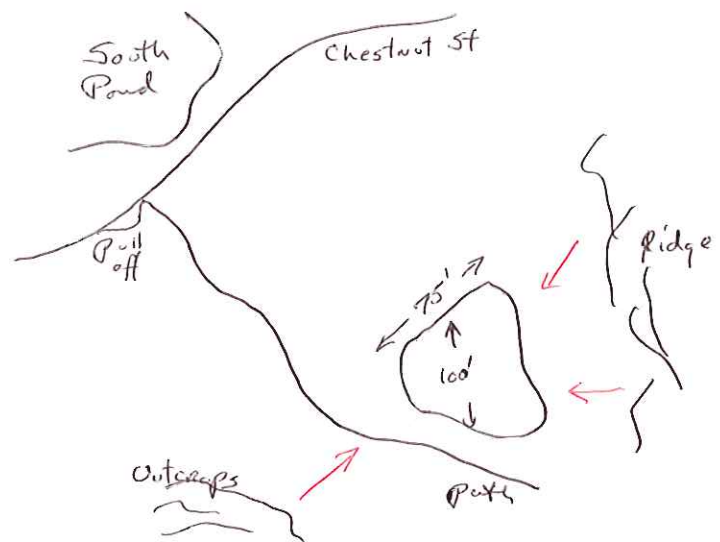
Red Maple, Silky Dogwood  
Nannyberry, *Ilex*

Comments:

often fills late

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/26/02

Investigator: N.S. Proctor

Site# Branford Supply Pond- Hill Pond Trail

GPS Location: 41 17.81  
72 48.57

Pond Size: 90' X 40'

Water Level Based on High Water Mark

Maximum Half Low  
3/4

Depth:

Distance from High Water Mark: 12"

Water Temp: 43

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

5+ calling 10 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubrachipus*) Yes \_\_\_\_\_ No ☒ \_\_\_\_\_

Dominate Vegetation at Site

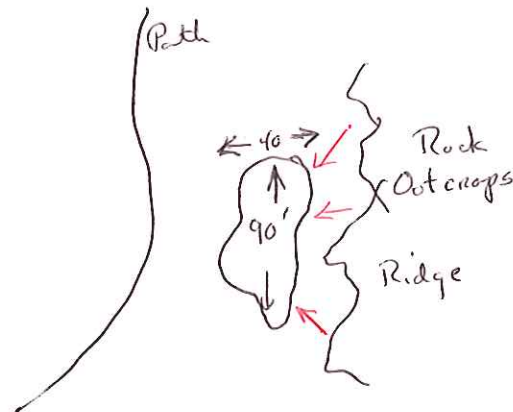
Black, Red, Scarlet Oak  
Mt. Laurel near edge

Comments:

excellent slopes and outcrops  
nearby for adults

## Pool Sketch

(principal movement from prime  
habitat marked in red)





# Branford Vernal Pool

Date: 3/26/02

Investigator: N.S. Proctor

Site# Branford Supply Pond- Path Pool

GPS Location: 41 17.90  
72 48.63

Pond Size: 50' X 50'

Water Level Based on High Water Mark

Maximum Half Low  
3/4

Depth:

Distance from High Water Mark: 12"

Water Temp: 43.1

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		20+ masses		old / scattered

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 5+ calling 10 masses

Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No ☒ X

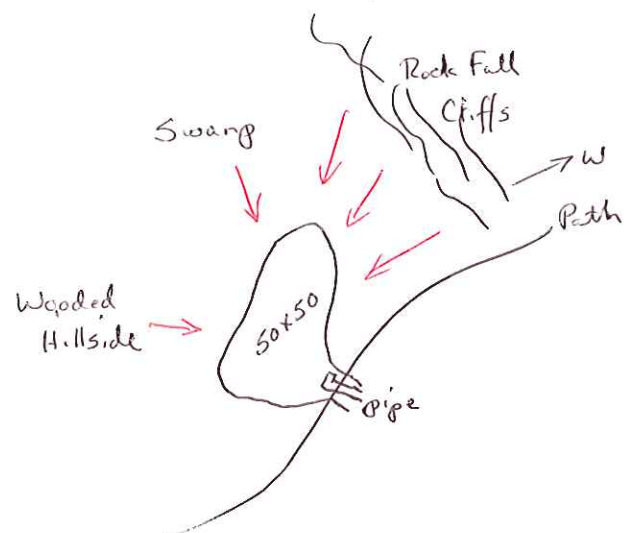
Dominate Vegetation at Site

Red Maple, Black Birch,  
Sweet Pepperbush

Comments:

Pool loaded with *Zygnema* and *Tribonema* algae. Culvert pipe properly placed so does not drain pool

Pool Sketch  
(principal movement from prime habitat marked in red)



Date: 3/23/02

Site# Quarry Road Extension- Path edge Pool

Pond Size: 200' X 40'

Maximum

Half

Low

X

Distance from High Water Mark: 12"

Water Temp: 40.1

## Species

## Adults

## Eggs

## Metamorphs

### Spermatophores

Spotted Salamander

*Ambystoma maculatum*.

## Marbled Salamander

*Ambystoma opacum*

## Wood Frog

*Rana sylvatica*

40+ calling

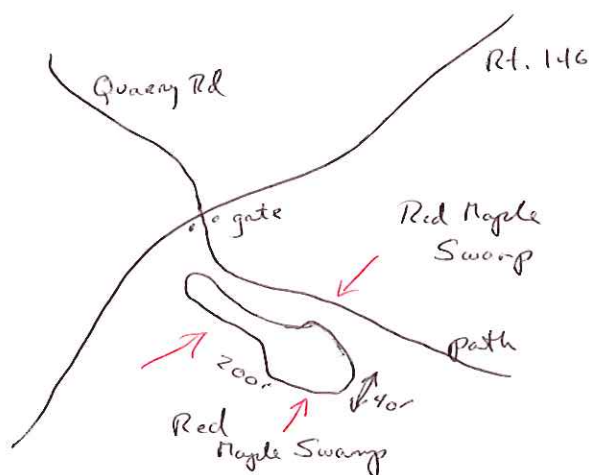
Spring Peepers (*Pseudacris crucifer*)-100+

Fairy Shrimp (*Eubranchipus*)      Yes \_\_\_\_\_ No X

Red Maple, *Carex stricta* tussocks

scattered pools at edge of red maple swamp being used by frogs as secondary site. Not a typical vernal pool.

(principal movement from prime habitat marked in red)





# Branford Vernal Pool

Date: 3/10/02

Investigator: N.S. Proctor

Site# Quarry Rd. Extension- Main Pool

GPS Location: 41 16.28  
72 44.90

Pond Size: 250' X 150'

Water Level Based on High Water Mark

Maximum

Half

Low

X

Depth:

Distance from High Water Mark: 10"

Water Temp: 41

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				100s scattered

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

10 + calling 30 masses

Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X \_\_\_\_\_

Daphnia

Cyclops

Dominate Vegetation at Site

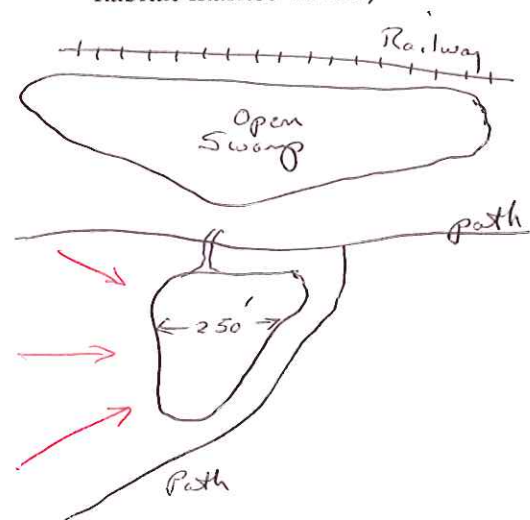
Red Maple, Alder, *Ilex*  
Silky Dogwood

Comments:

The pools along this extension path are used mainly as secondary edge sites and are not classic vernal pools

## Pool Sketch

(principal movement from prime habitat marked in red)



Date: 3/16/02

habitat marked in red)

5 ↑

Rock Outcrops

250'

50'

Path

RIDGE

D

G

E

# Branford Vernal Pool

Date: 3/16/02

Investigator: N.S. Proctor /C. Lemmon

Site# QC- C2

GPS Location:            41    18.49  
                                     72    48.37

Pond Size:            125' X 100'

## Water Level Based on High Water Mark

Maximum                      Half                      Low  
                                     3/4

## Depth:

Distance from High Water Mark: 36"

Water Temp:    42

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		20+ masses		100s scattered

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica*                      50 calling                      30 masses

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*)    Yes X common                      No

Daphnia                      Annelids (common)

Cyclops

## Dominate Vegetation at Site

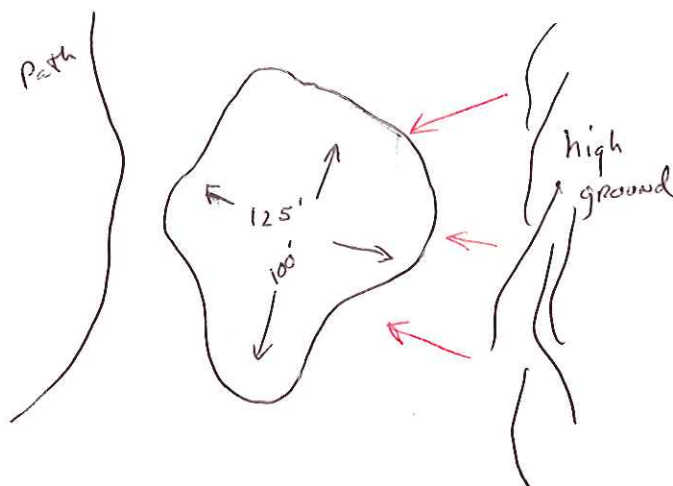
Red Maple

## Comments:

Quality vernal pool, good surrounding cover

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/16/02

Investigator: N.S. Proctor /Carol Lemmon

Site# QC- C3

GPS Location:            41    18.42  
                                     72    48.40

Pond Size:            100' X 80'

Water Level Based on High Water Mark

Maximum                      Half                      Low  
                                     3/4

Depth:

Distance from High Water Mark: 24"

Water Temp:    41

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		10 masses		30+

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

10+ calling    20 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubrachipus*)    Yes \_\_\_\_\_ No X

Annelids (abundant)

Daphnia

Cyclops

Dominate Vegetation at Site

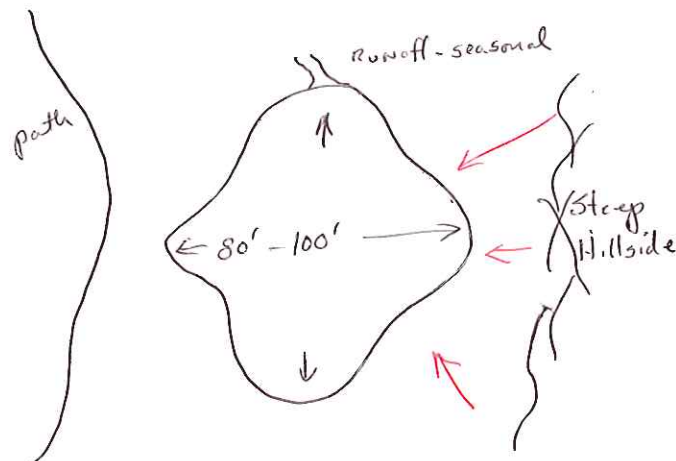
Red maple, *Ilex*, Highbush Blueberry  
*Sphagnum*, *Sparganium* on surface

Comments:

transition water due to  
end runoff

## Pool Sketch

(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/16/02

Investigator: N.S. Proctor / C. Lemmon

Site# QC- D6 and D7

GPS Location: 41 18.63  
72 48.30

Pond Size:  
400' X 100'

## Water Level Based on High Water Mark

Maximum

Half  
X

Low

## Depth:

Distance from High Water Mark: 24"

Water Temp: 41

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				

Marbled Salamander  
*Ambystoma opacum*

Wood Frog  
*Rana sylvatica* 200+ calling 30+ masses

## Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)- abundant

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

Daphnia

Annelids (abundant)

Ram's Horn Snail

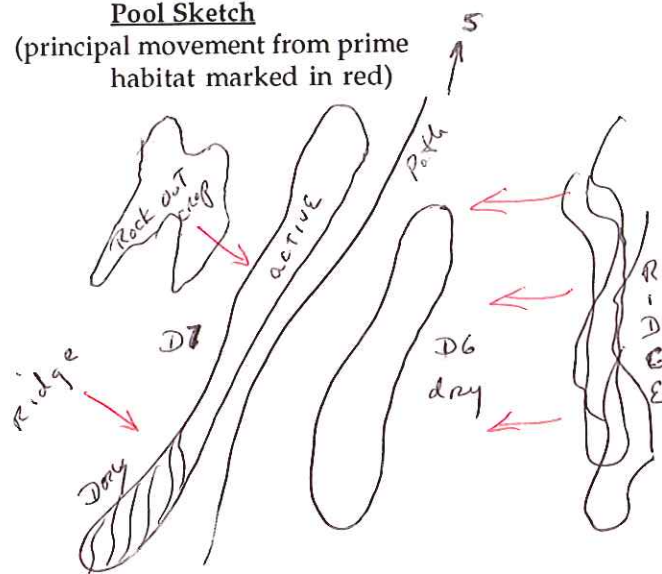
## Dominate Vegetation at Site

Red Maple, Clethra, Ilex,  
Sphagnum, Black Birch, Highbush  
Blueberry

## Comments:

east pool, half full and active  
west pool-still dry but excellent in past

Pool Sketch  
(principal movement from prime habitat marked in red)





# Branford Vernal Pool

Date: 3/16/02

Investigator: N.S. Proctor / C. Lemmon

Site# QC- F-3

GPS Location: 41 18.84  
72 48.07

Pond Size:

300 ' X 60'

Water Level Based on High Water Mark

Maximum

Half  
X

Low

Depth:

Distance from High Water Mark: 12"

Water Temp: 42

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
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Spotted Salamander

<i>Ambystoma maculatum</i>		6 masses		100+
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Marbled Salamander

<i>Ambystoma opacum</i>				
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Wood Frog

<i>Rana sylvatica</i>	100+ calling	30 + masses		
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Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

Daphnia

Annelids (abundant)

Ram's Horn Snail

Dominate Vegetation at Site

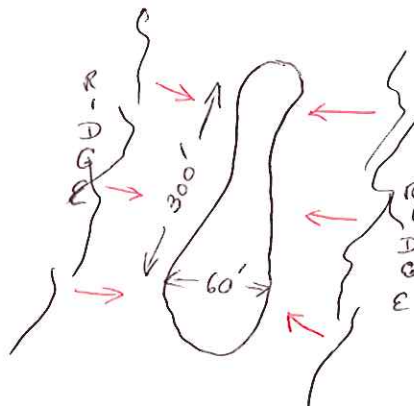
Red Maple, Sweet Pepperbush, Red Ash  
Red Elm, Spicebush, *Ilex*

Comments:

excellent ridge system in area as habitat  
for mole salamanders

## Pool Sketch

(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/16/02

Investigator: N.S. Proctor / C. Lemmon  
Site# QC- F-5

GPS Location: 41 18.80  
72 48.03

Pond Size:  
220' X 50'

## Water Level Based on High Water Mark

Maximum Half Low  
X (on 3/29)

## Depth:

Distance from High Water Mark: 12"

Water Temp: 41 (46 on 3/29)

## Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

*Ambystoma maculatum*

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

10+ calling 17+ masses

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes X (on 3/29) No X (on 3/16)

Daphnia

Annelids (abundant)

Ram's Horn Snail

## Dominate Vegetation at Site

Red Maple, Black and Red Oaks

## Comments:

even when just inches of water, it was used by the frogs. When full, it was a high quality vernal pool

## Pool Sketch

(principal movement from prime habitat marked in red)





# Branford Vernal Pool

Date: 3/17/02

Investigator: N.S. Proctor / M. Ardwin  
Site# Upper Queach Path

GPS Location: 41 18.99  
72 47.93

Pond Size: 60' X 40'

## Water Level Based on High Water Mark

Maximum Half Low  
3/4

## Depth:

Distance from High Water Mark: 12"

Water Temp: 43

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>			many/5/1 revisit	50+

Marbled Salamander  
*Ambystoma opacum*

Wood Frog  
*Rana sylvatica* 30+ calling 20 masses many/5/1 revisit

## Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

## Dominate Vegetation at Site

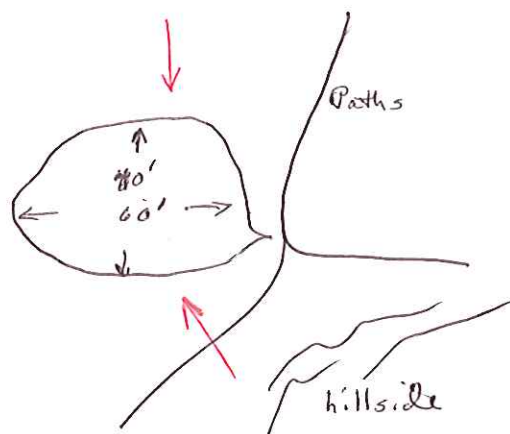
Spicebush, Red Maple (open canopy)

## Comments:

late filling site

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/26/02

Investigator: N.S. Proctor

Site# Flax Mill Rd Soccer Field Pond

GPS Location: 41 18.30  
72 46.84

Pond Size: 200 X 125 (pool near field 150 X 20)

Water Level Based on High Water Mark

Maximum

Half

Low

Depth:

Distance from High Water Mark: 24"

Water Temp: 43

Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		20 masses		60+-old

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

20+ calling 40 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes ☒ abundant No ☐

Ostacods

Daphnia

Cyclops

Ram's Horn Snail

Pool Sketch

(principal movement from prime habitat marked in red)

Dominate Vegetation at Site

Red Maple, High Bush

Blueberry

Comments:

often fills late/ debris problems

club house in middle shows summer use

when it dries up.

Pool along soccerfield east edge- secondary habitat



# Branford Vernal Pool

Date: 3/18/02

Investigator: N.S. Proctor

Site# Saltonstall Pond #1

GPS Location: 41 18.71  
72 50.15

Pond Size: 50 X 70

Water Level Based on High Water Mark

Maximum

Half

Low

X (just starting to charge)

Depth:

Distance from High Water Mark: 5"

Water Temp: 43

Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

*Ambystoma maculatum* \_\_\_\_\_

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 4 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X

Dominate Vegetation at Site

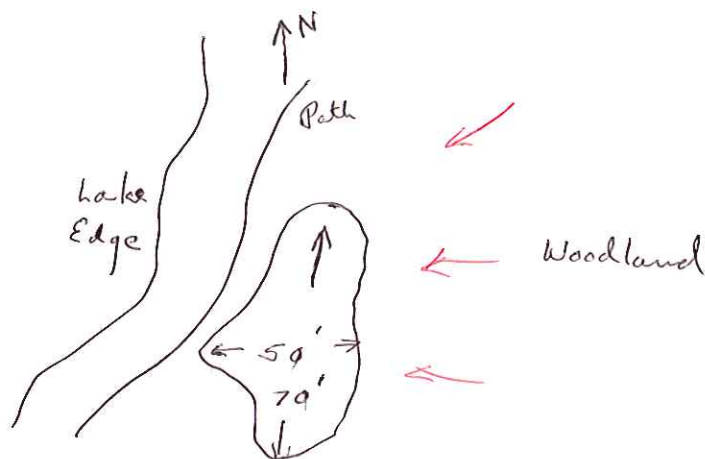
Red Maple, High Bush  
Blueberry, Willow, Silky Dogwood

Comments:

often fills late. Has been excellent vernal  
pool in past years for wood frogs.

Pool Sketch

(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/18/02

Investigator: N.S. Proctor

Site# Saltonstall Pond #2

GPS Location: 41 18.55  
72 50.18

Pond Size: 150 X 80

## Water Level Based on High Water Mark

Maximum Half Low  
X

## Depth:

Distance from High Water Mark: 10"

Water Temp: 43

## Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

*Ambystoma maculatum* \_\_\_\_\_

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 14 masses

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X

## Dominate Vegetation at Site

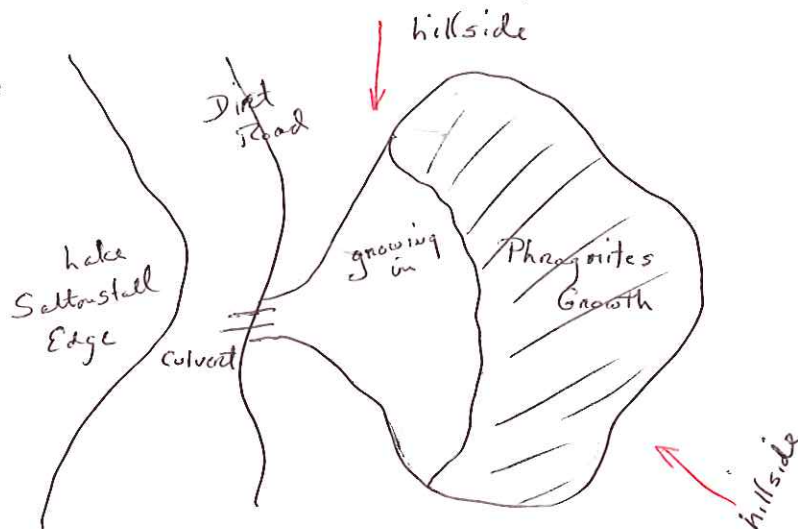
*Phragmites* (90%), Silky  
Dogwood, Highbush Blueberry, Red Maple

## Comments:

*Phragmites* is slowly taking over  
this once very active vernal pool.  
Could easily be managed.

## Pool Sketch

(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/18/02

Investigator: N.S. Proctor

Site# Saltonstall Pond #3

GPS Location: 41 18.44  
72 50.18

Pond Size: 85' X 45'

## Water Level Based on High Water Mark

Maximum Half Low  
3/4

## Depth:

Distance from High Water Mark: 12"

Water Temp: 40.1

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		100 masses		50+
Marbled Salamander <i>Ambystoma opacum</i>			6	
Wood Frog <i>Rana sylvatica</i>		60 masses		

## Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X  
Ostacods Annelids  
*Daphnia* Ram's Horn Snail  
*Cyclops* Acellus  
Hatch of Matfly (*Leptophlybia bradlyii*)

## Dominate Vegetation at Site

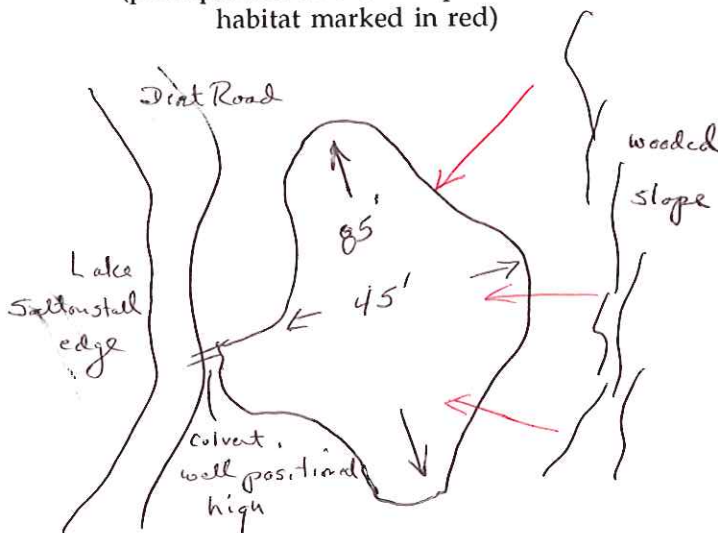
edge-old hemlock, red maple, tulip  
in water: silky dogwood, buttonbush  
*Ludwigia*, *Potamogeton*

## Comments:

Excellent vernal pool and fall pool  
as indicated by *A. opacum* metamorphs  
NOTE: air temp= 38  
inside frog and salamander eggs- 36

## Pool Sketch

(principal movement from prime  
habitat marked in red)





# Branford Vernal Pool

Date: 3/23/02

Investigator: N.S. Proctor / Art Howe

Site# Howe Vernal Pool Complex (4 pools)

GPS Location: #1 41 16.87 #2 41 16.82 #3 41 16.91 #4 41 16.82  
72 47.82 72 47.72 72 47.82 72 47.72

Pond Size: #1 100 X 100 #2 30 X 10 #3 30 X 20 #4 50 X 20

Water Level Based on High Water Mark

Maximum

Half

Low

X

Depth:

Distance from High Water Mark: 6-12 " avg.

Water Temp: 40.1 Avg.

Vertebrate Obligates Present:

Species

Adults

Eggs

Metamorphs

Spermatophores

Spotted Salamander

*Ambystoma maculatum*

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

all pools active with night calling

Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*)

Yes

No

X

*Daphnia*

*Cyclops*

Dominate Vegetation at Site

Red Maple , Highbush Blueberry

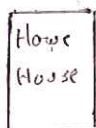
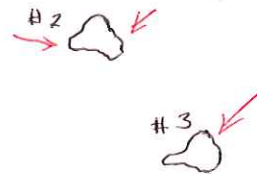
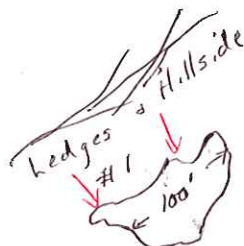
*Ilex*

Comments:

Many smaller pools in Red Maple swamp act as alternate "spill over" sites. Quality protected site.

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/23/02

Investigator: N.S. Proctor

Site# Watch Hill Pool/ Hosley Ave

GPS Location: 41 18.55  
72 49.54

Pond Size: 100' X 20'

## Water Level Based on High Water Mark

Maximum

Half

Low

X

## Depth:

Distance from High Water Mark: 6

Water Temp: 40.1 Avg.

## Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

*Ambystoma maculatum* \_\_\_\_\_

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ active with night calling \_\_\_\_\_

## Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X \_\_\_\_\_

## Dominant Vegetation at Site

Phalaris has taken over pool.

Willow, Maple

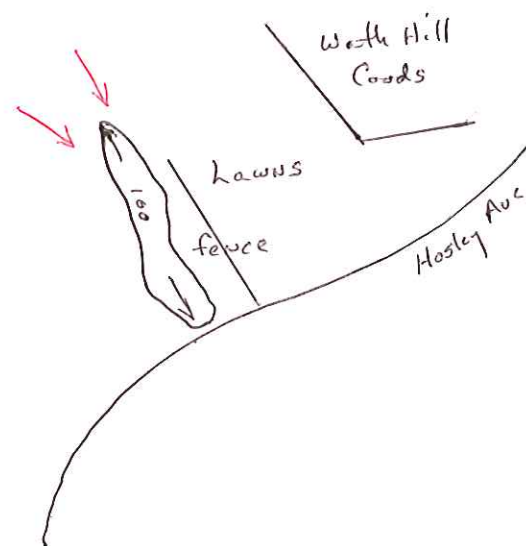
## Comments:

This year a secondary site.

In past quite active. Caution at site as runoff from nearby lawns could run into pool

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool      Date: 3/24/02

Investigator: N.S. Proctor / M Ardwin  
Site# Pinchot/Medlyn Preserve--Quarry Secondary Pool

GPS Location:    41 16.14  
                              72 43.83

Pond Size:        10' X 15'

## Water Level Based on High Water Mark

Maximum	Half	Low
3/4		

## Depth:

Distance from High Water Mark: 36"

Water Temp:    45

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		4+ masses		20+

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 3 masses

## Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*)    Yes \_\_\_\_\_ No X

Ostacods                                Daphnia

Annelids-abundant                Cyclops

mosquito larvae-abundant

## Pool Sketch

(principal movement from prime habitat marked in red)

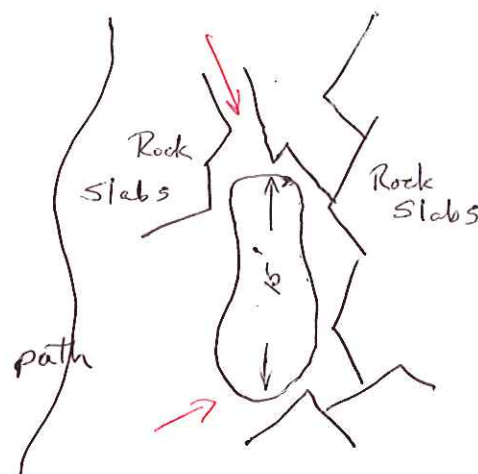
## Dominate Vegetation at Site

rock quarry depression in stone slabs

## Comments:

A perfect example of an alternate site used by Spotted Salamanders and Wood Frogs. Deep enough to ensure some success--but not a classic vernal pool

High tanin content from leaves



# Branford Vernal Pool

Date: 3/24/02

Investigator: N.S. Proctor / M Ardwin  
Site# Pinchot/Medlyn Preserve--West Pool

GPS Location: 41 16.11  
72 43.88

Pond Size: 350' X 200'

## Water Level Based on High Water Mark

Maximum	Half	Low
	X	

## Depth:

Distance from High Water Mark: 14"

Water Temp: 51 in swallow area/ 46 in deeper ares (Salamander egg temps- 48.2)

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		30+ masses		100's

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

50+ calling 30+ masses

## Faculative Vertebrates Present:

Green Frog (*Rana clamitans*)

Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

Ostacods *Daphnia*

Annelids *Cyclops*

## Dominate Vegetation at Site

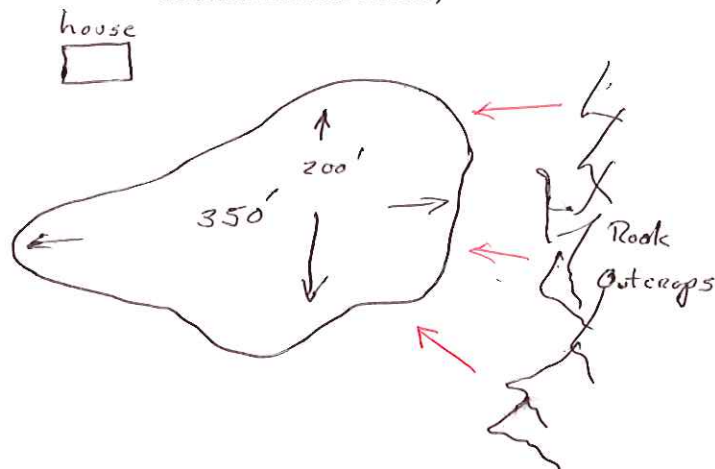
Red Maple, Highbush Blueberry, *Smilax*  
*Nyssa*, Mt. Laurel on hummocks.

## Comments:

A high quality vernal pool

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/24/02

Investigator: N.S. Proctor / M Ardwin  
Site# Pinchot/Medlyn #2

GPS Location: 41 16.26  
72 43.85

Pond Size: 200' X 50'

## Water Level Based on High Water Mark

Maximum

Half

Low  
X

## Depth:

Distance from High Water Mark: 6"

Water Temp: 47.2

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				50+

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

10 calling

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X

Cyclops

water mites

small diving beetle

## Dominate Vegetation at Site

Spicebush, Red Maple (open canopy)

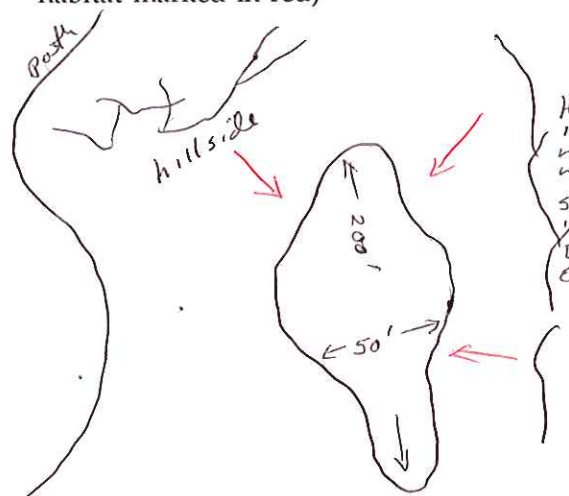
Highbush Blueberry

## Comments:

late filling site

## Pool Sketch

(principal movement from prime habitat marked in red)





# Branford Vernal Pool

Date: 3/24/02

Investigator: N.S. Proctor / M Ardwin  
Site# Pinchot/Medlyn #3

GPS Location: 41 16.63  
72 43.94

Pond Size: 300' X 200'

## Water Level Based on High Water Mark

Maximum                      Half                      Low  
3/4

## Depth:

Distance from High Water Mark: 16"

Water Temp: 44.6

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		30+ masses		100s

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

100+ calling 20+ masses

## Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X  
Cyclops

## Dominate Vegetation at Site

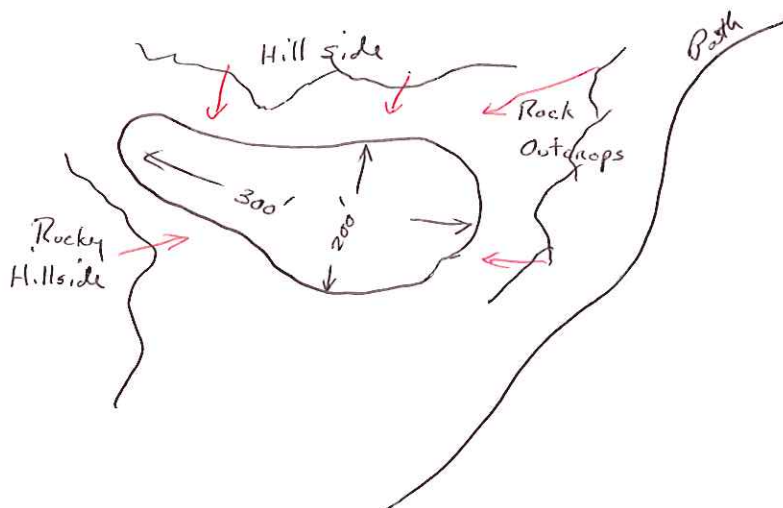
Red Maple, *Clethra*, *Ilex*,  
Mt. Laurel edge  
*Hydrodictyon* in water

## Comments:

quality/high activity site

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/25/02

Investigator: N.S. Proctor / M Ardwin  
Site# Pinchot/Medlyn - deep Woods Pool

GPS Location: 41 17.21  
72 44.22

Pond Size: 50' X 20'

## Water Level Based on High Water Mark

Maximum Half Low  
X

## Depth:

Distance from High Water Mark: 6"

Water Temp: 43

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>				10

Marbled Salamander  
*Ambystoma opacum*

Wood Frog  
*Rana sylvatica* 2+ calling 2 masses

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No X  
Water Mites  
Mosquito larvae

## Pool Sketch

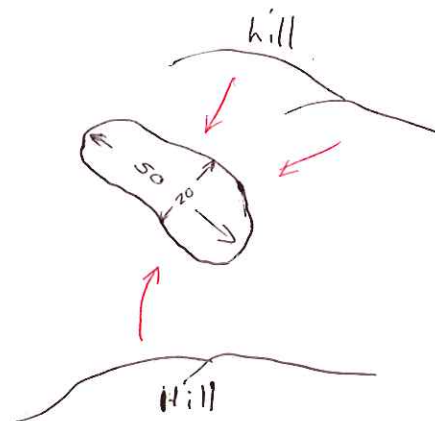
(principal movement from prime habitat marked in red)

## Dominate Vegetation at Site

Red Maple, *Smilax*, Highbush  
Blueberry, Pignut and Shagbark Hickory

## Comments:

late filling site



Date: 3/25/02

Keetes  
Isl.  
RL.

60'

40'

Trailer  
Park  
lawns

B'Connell CT

A hand-drawn map of Keetes Island, RL. The island is depicted as an irregular shape with a vertical line on the left and a horizontal line at the bottom. Dimensions are indicated: 60' vertically and 40' horizontally. A red arrow points to the top right corner. To the right of the island is the text 'Trailer Park lawns'. Below the island is a horizontal line with the text 'B'Connell CT' written below it.

# Branford Vernal Pool

Date: 3/26/02

Investigator: N.S. Proctor  
Site# Flax Mill BLT Land

GPS Location: 41 18.39  
72 47.02

Pond Size: 300' X 135'

## Water Level Based on High Water Mark

Maximum                      Half                      Low  
3/4

## Depth:

Distance from High Water Mark: 20"

Water Temp: 42.1

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		30+ masses		many but old

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ many calling 50 masses

## Faculative Vertebrates Present:

lot of night calling of Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes X No \_\_\_\_\_

*Ascellus*

*Daphnia*

*Cyclops*

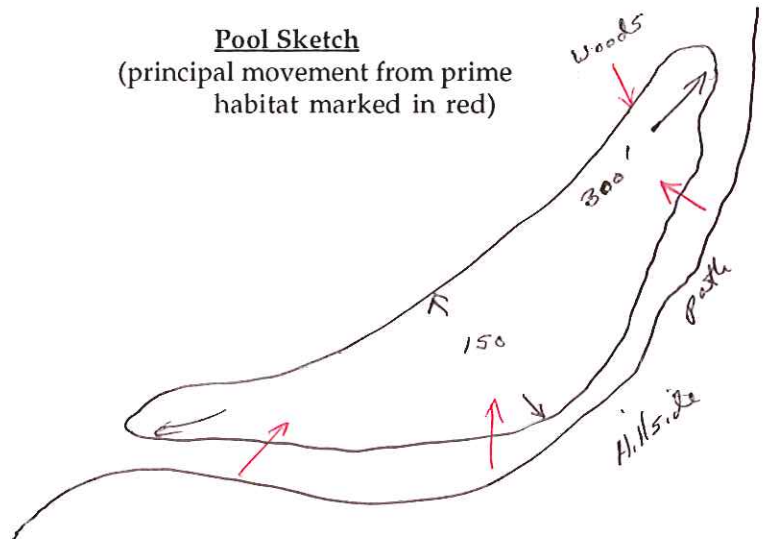
## Dominate Vegetation at Site

Red Maple, Highbush Blueberry

## Comments:

quality pool

Pool Sketch  
(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/26/02

Investigator: N.S. Proctor  
Site# Mill Plain Line Pond

GPS Location: 41 18.67  
72 47.02

Pond Size: 300' X 135'

## Water Level Based on High Water Mark

Maximum                      Half                      Low  
3/4

## Depth:

Distance from High Water Mark: 12"

Water Temp: 42.1

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander <i>Ambystoma maculatum</i>		10+ masses		30+ (old)
Marbled Salamander <i>Ambystoma opacum</i>		20+		
Wood Frog <i>Rana sylvatica</i>		30 masses		

## Faculative Vertebrates Present:

lot of night calling of Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

## Pool Sketch

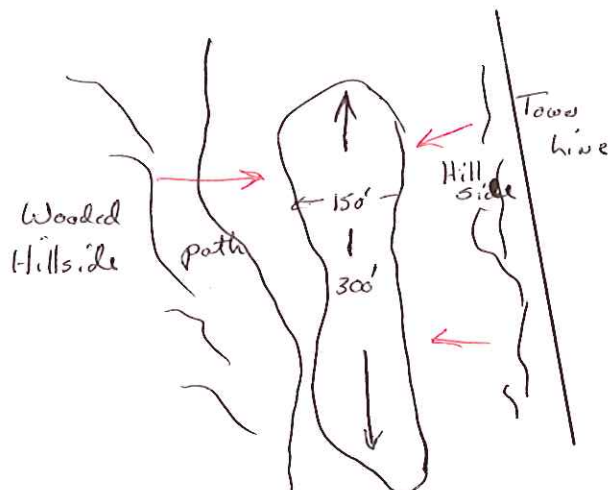
(principal movement from prime habitat marked in red)

## Dominate Vegetation at Site

Red Maple, Highbush Blueberry  
*Clethra*, *Ilex*

## Comments:

a transitional red maple swamp.  
Vernal species present. A winter pond as *A. opacum* is present which makes it and important site.





# Branford Vernal Pool

Date: 3/29/02

Investigator: N.S. Proctor / M. Ardwin  
Site# Saltonstall--Power Line Pool #1

GPS Location: 41 17.49  
72 50.57

Pond Size: 300' X 60'

## Water Level Based on High Water Mark

Maximum                      Half                      Low  
3/4

## Depth:

Distance from High Water Mark: 12" to 18"

Water Temp: 45

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		10+ masses		100s (old)

Marbled Salamander

<i>Ambystoma opacum</i>	20+			
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Wood Frog

<i>Rana sylvatica</i>	40+ calling	20 masses		
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## Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

*Daphnia* (dense)                      Ostacods

Mosquito larvae

Ram's Shell Snail

Water Mites

## Dominate Vegetation at Site

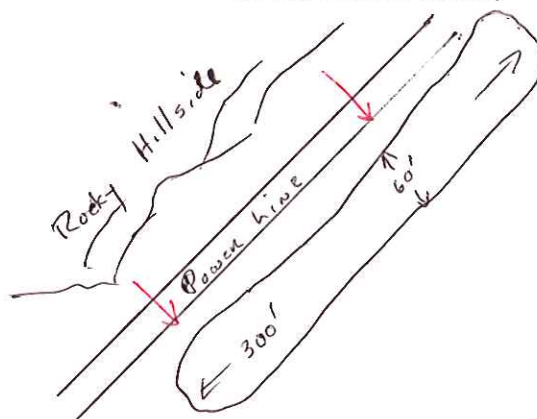
Red Maple, Red Ash, Arrowwood,  
Highbush Blueberry, Red Elm  
great deal of algal cover

## Comments:

Phragmites coming in at  
southern edge

## Pool Sketch

(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/29/02

Investigator: N.S. Proctor / M. Ardwin

Site# Saltonstall--Power Line Pool #2

GPS Location: 41 17.49  
72 50.57

Pond Size: 60' X 25'

## Water Level Based on High Water Mark

Maximum

Half

Low

just charging

## Depth:

Distance from High Water Mark: 6"

Water Temp: 44

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
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Spotted Salamander

*Ambystoma maculatum* \_\_\_\_\_

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 10+ calling \_\_\_\_\_

## Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No ☒ X

## Dominate Vegetation at Site

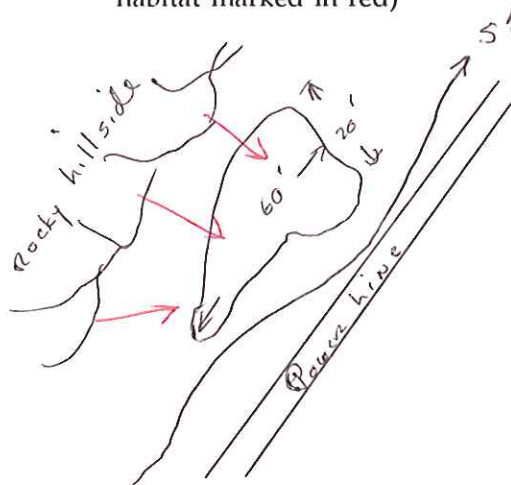
Red Maple, Red Ash

## Comments:

late to charge this year. In past years an excellent site

## Pool Sketch

(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/29/02

Investigator: N.S. Proctor / M. Ardwin  
Site# Saltonstall--Power Line Pool #3

GPS Location: 41 17.34  
72 50.78

Pond Size: 300' X 100'

## Water Level Based on High Water Mark

Maximum  
X

Half

Low

## Depth:

Distance from High Water Mark: 24 " +

Water Temp: 46

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		15 masses		100s

Marbled Salamander

*Ambystoma opacum*

Wood Frog

*Rana sylvatica*

20+ calling 10 masses

## Faculative Vertebrates Present:

Spring Peeper (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes X (abundant/large) No  
Fingernail clams *Daphnia*  
Ram's Horn Snails *Cyclops*  
Ostacods

## Dominate Vegetation at Site

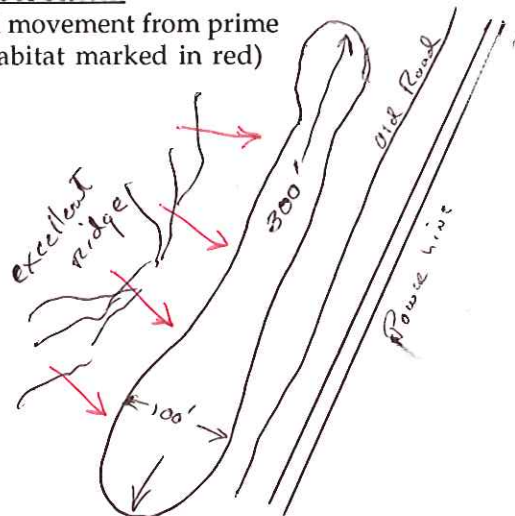
Red Maple, Red Ash, Highbush  
Blueberry. *Lemna* mats

## Comments:

excellent vernal pool-  
potential for other salamanders

## Pool Sketch

(principal movement from prime  
habitat marked in red)



# Branford Vernal Pool

Date: 3/29/02

Investigator: N.S. Proctor / M. Ardwin

Site# Saltonstall--Power Line Pool- Trail Pond

GPS Location: 41 17.67  
72 50.15

Pond Size: 60' X 15'

## Water Level Based on High Water Mark

Maximum	Half	Low
	X	

## Depth:

Distance from High Water Mark: 8 "

Water Temp: 48

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		30+ masses		50+

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 40 + masses

## Faculative Vertebrates Present:

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X \_\_\_\_\_

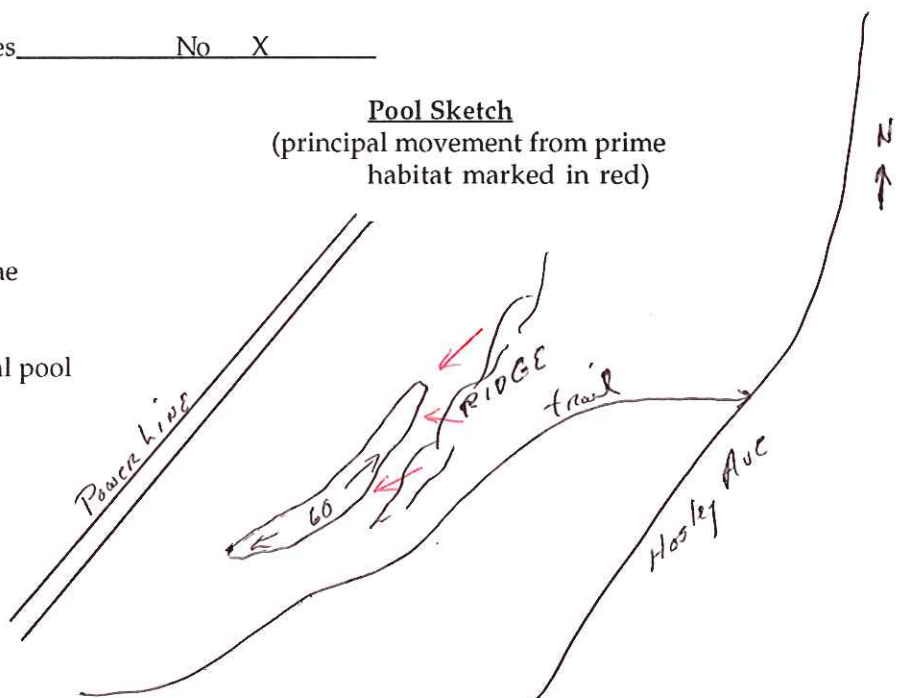
## Dominant Vegetation at Site

Red Maple, Spicebush, *Ilex*  
considerable amount of green algae

## Comments:

a good example of a small vernal pool that in years of heavy rains will produce a lot. In low years--most will perish. For a small pool an incredible # of eggs.

Pool Sketch  
(principal movement from prime habitat marked in red)



# Branford Vernal Pool

Date: 3/30/02

Investigator: N.S. Proctor  
Site# Rt. 146/ Medlyn Farm

GPS Location: 41 16.07  
72 44.01

Pond Size: 70' X 15'

## Water Level Based on High Water Mark

Maximum 3/4 Half Low

## Depth:

Distance from High Water Mark: 12 "

Water Temp: 47.6

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>		4 masses		30+

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* 8 calling 6 masses \_\_\_\_\_

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes \_\_\_\_\_ No ☒ \_\_\_\_\_

*Daphnia*

*Cyclops*

## Dominate Vegetation at Site

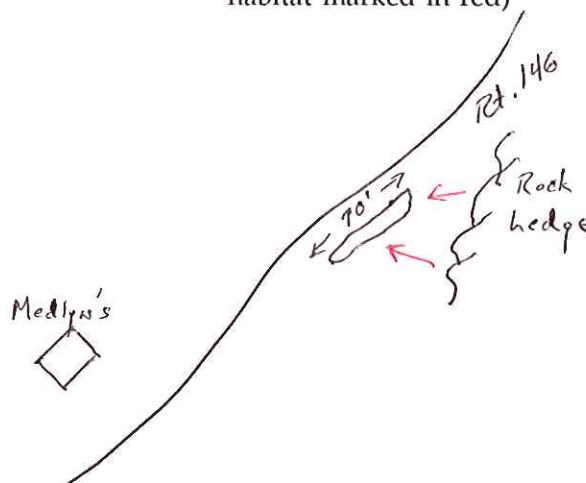
Red Maple, Spicebush, *Ilex*  
Sweet Pepper Bush  
dense algal mat

## Comments:

a good example of a small vernal pool  
that is in a marginal habitat yet is  
successful.

## Pool Sketch

(principal movement from prime  
habitat marked in red)





# Branford Vernal Pool

Date: 4/03 /02

Investigator: N.S. Proctor

Site# Coon Ledge Rd, Pond (complex)

GPS Location: 41 17.55 (from roadside)  
72 48.50

Pond Size: est. 300' X 200'

## Water Level Based on High Water Mark

Maximum	Half	Low
3/4		

## Depth:

not taken-private

Water Temp: not taken private

## Vertebrate Obligates Present:

Species	Adults	Eggs	Metamorphs	Spermatophores
Spotted Salamander				
<i>Ambystoma maculatum</i>				numerous at edge

Marbled Salamander

*Ambystoma opacum* \_\_\_\_\_

Wood Frog

*Rana sylvatica* \_\_\_\_\_ 20+ calling

## Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

## Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes \_\_\_\_\_ No X

## Dominate Vegetation at Site

Basically a Red Maple swamp  
with pools-not classic vernal pool.

## Comments:

two pools on private land that I could not get to but  
could hear excellent calling and could see they  
are vernal pools. Noted here for possible  
future investigation with landowner permission

## Pool Sketch (principal movement from prime habitat marked in red)

