

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

Site	GPS Position	
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

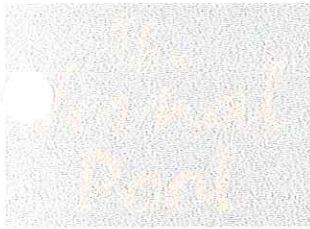
5/8- 2

5/20- 4

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

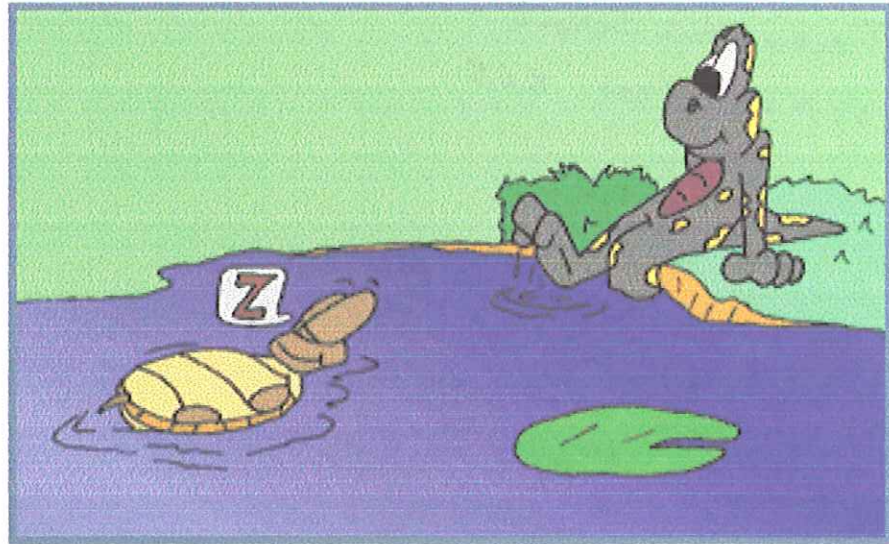
MILEAGE AND HOURS:

<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=</u>	<u>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.

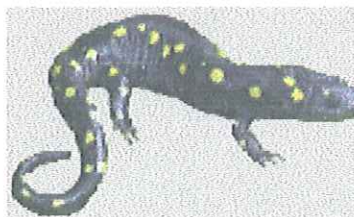
Obligate vernal pool species



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

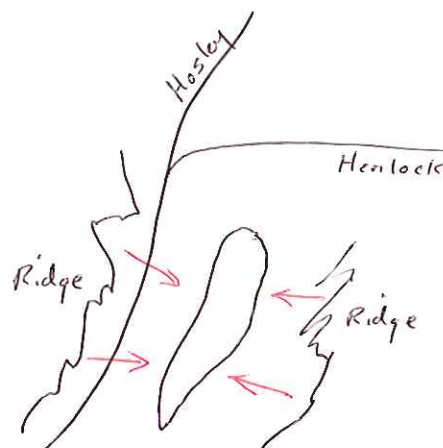
(principal movement from prime habitat marked in red)

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 (*Eubranchipus*) Yes _____ No X

Daphnia
Cyclops

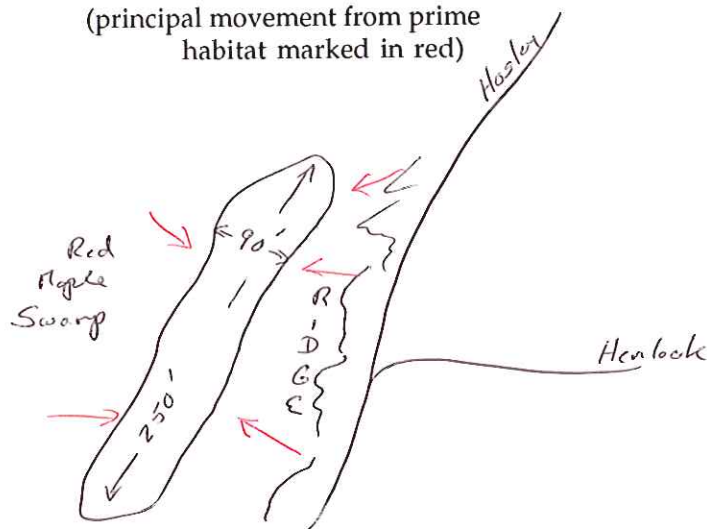
Dominate Vegetation at Site

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)

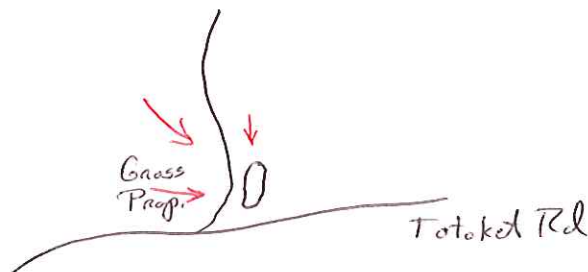
Dominate Vegetation at Site

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

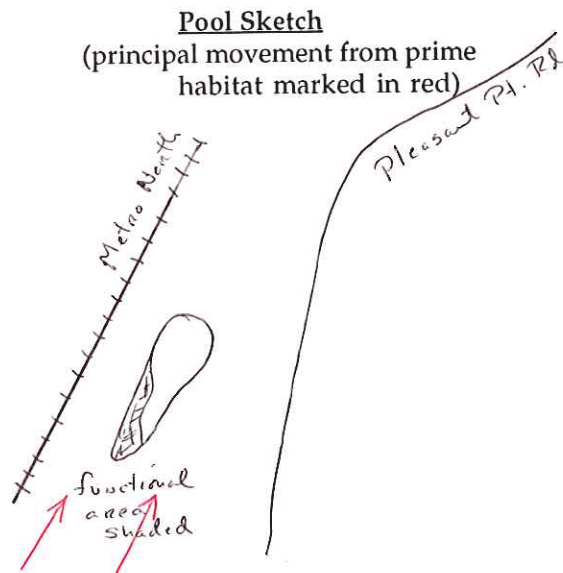
Daphnia
Cyclops

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 (*Eubbranchipus*) Yes _____ No X

Daphnia

Cyclops

Pool Sketch

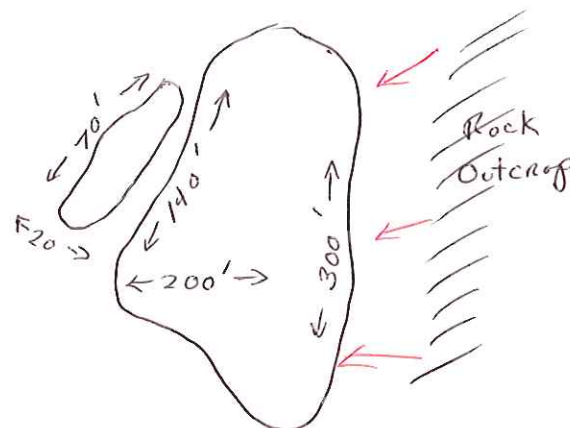
(principal movement from prime habitat marked in red)

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

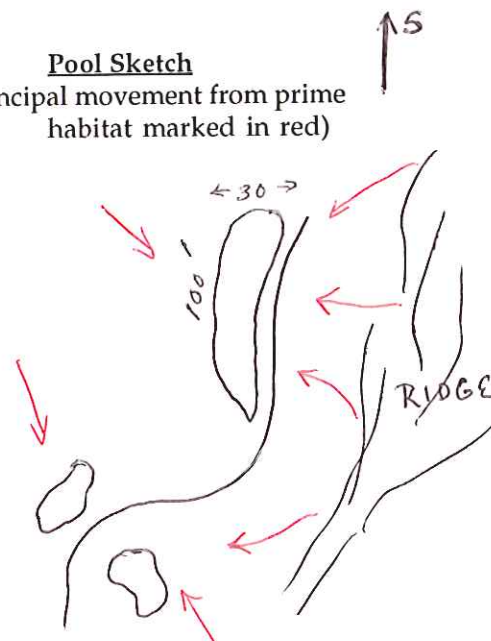
Dominate Vegetation at Site

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

Half

Low

3/4

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 X

Ostacods

Daphnia

Cyclops

Dominate Vegetation at Site

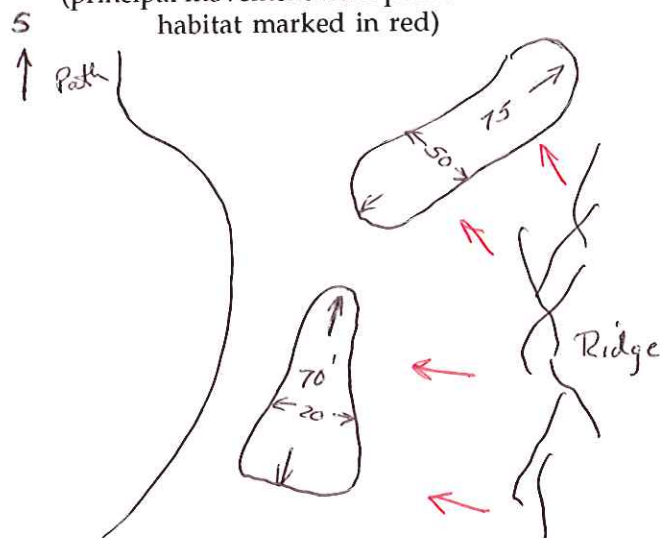
Red Maple, Sweet Pepperbush, *Ilex*
dead Hemlocks, Red Oak, Highbush
Blueberry, *Nyssa*

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
Ambystoma opacum

Wood Frog
Rana sylvatica 10+ calling 2 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes _____ No X

Dominate Vegetation at Site

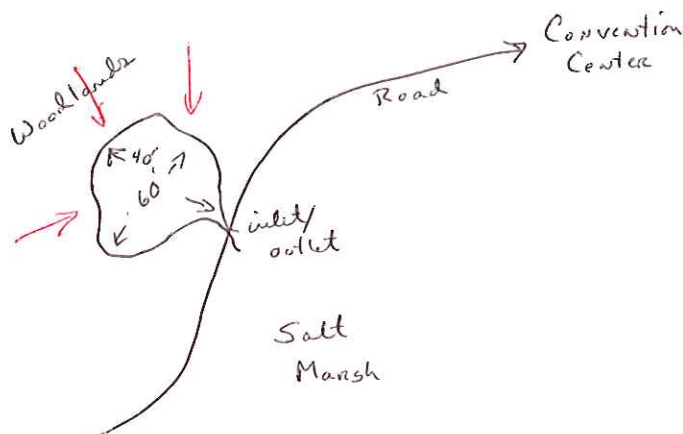
Red maple, Poison Ivy, Arrowwood
Phragmites moving in

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

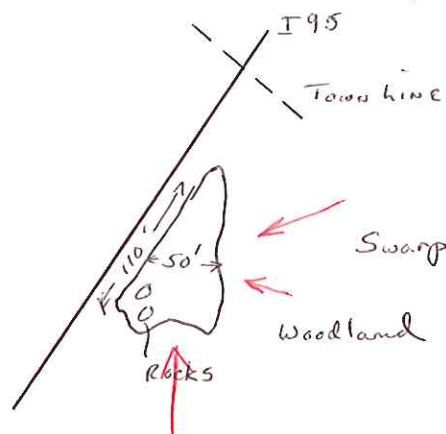
Dominate Vegetation at Site

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

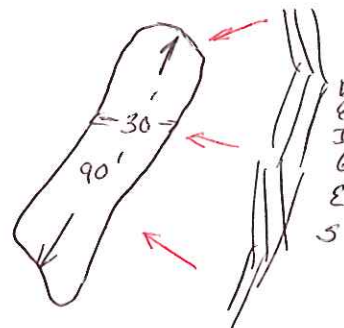
(principal movement from prime habitat marked in red)

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

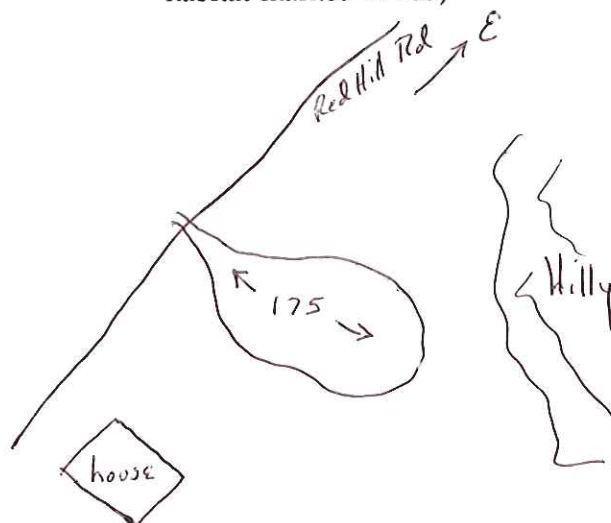
(principal movement from prime habitat marked in red)

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
Ambystoma opacum

Wood Frog
Rana sylvatica 10 masses

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes _____ No X

Dominate Vegetation at Site

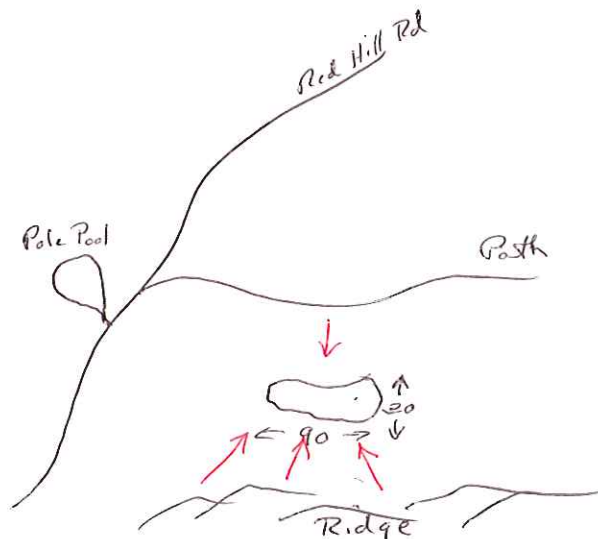
Pin, Red, Black Oaks, Ilex

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

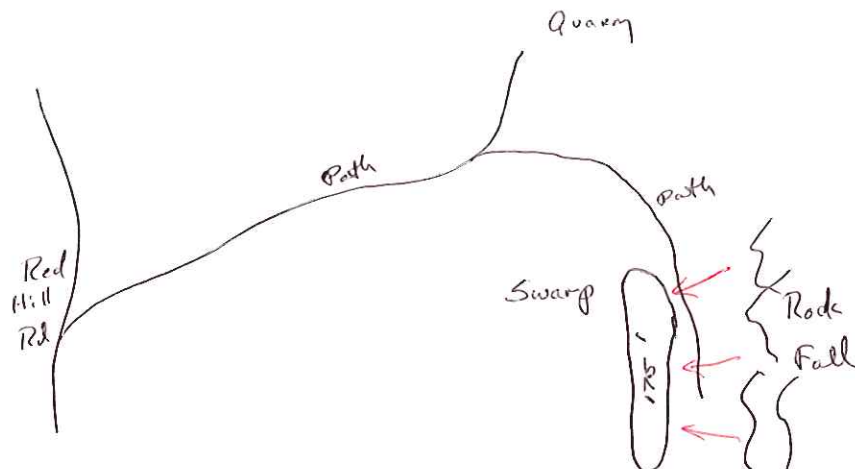
(principal movement from prime habitat marked in red)

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

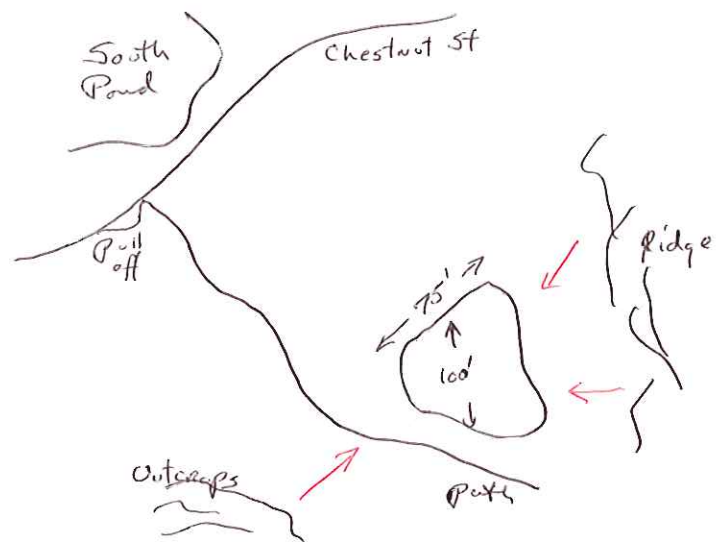
Red Maple, Silky Dogwood
Nannyberry, *Ilex*

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

Ambystoma maculatum _____

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

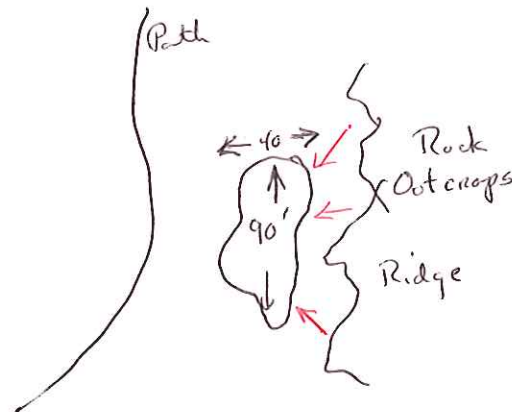
Black, Red, Scarlet Oak
Mt. Laurel near edge

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 _____

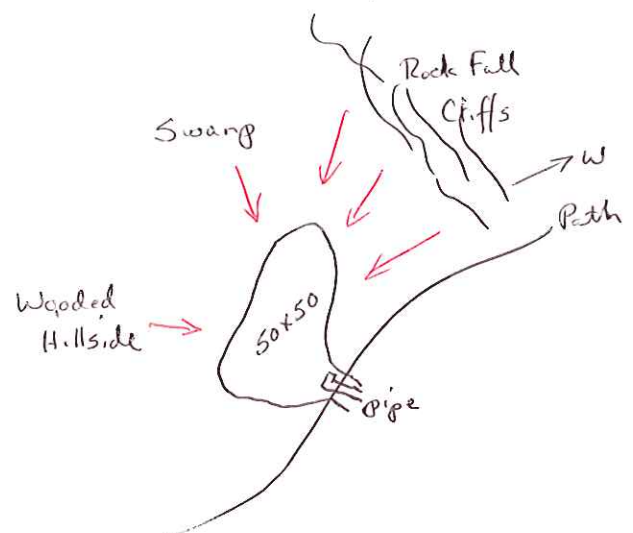
Dominate Vegetation at Site

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)



Branford Vernal Pool

Date: 3/23/02

Investigator: N.S. Proctor

Site# Quarry Road Extension- Path edge Pool

GPS Location: 41 16.41
72 44.77

Pond Size: 200' X 40'

Water Level Based on High Water Mark

Maximum

Half

Low

X

Depth:

Distance from High Water Mark: 12"

Water Temp: 40.1

Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

Ambystoma maculatum _____

Marbled Salamander

Ambystoma opacum _____

Wood Frog

Rana sylvatica 40+ calling _____

Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)-100+

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes _____ No X

Dominate Vegetation at Site

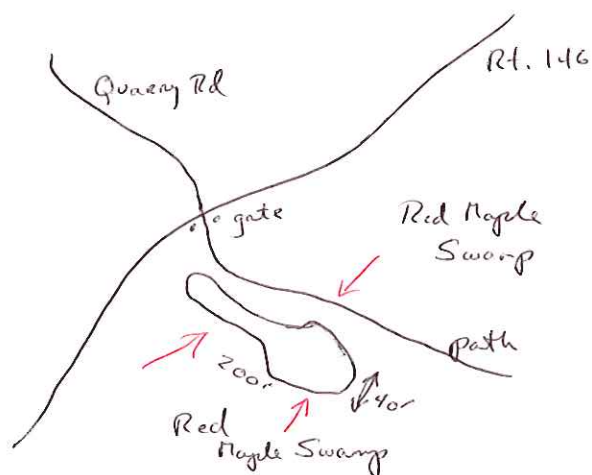
Red Maple, *Carex stricta* tussocks

Comments:

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

Pool Sketch

(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*

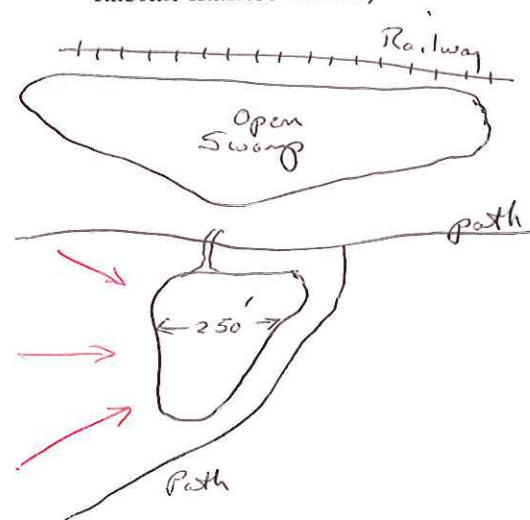
Silky Dogwood

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)



Branford Vernal Pool

Date: 3/16/02

Investigator: N.S. Proctor / C. Lemmon
Site# QC-C1

GPS Location: 41 18.50
72 48.50

Pond Size: 250' X 50'

Water Level Based on High Water Mark

Maximum Half Low
3/4

Depth:

Distance from High Water Mark: 30+"

Water Temp: 42

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

60+ calling 50 masses

Faculative Vertebrates Present:

Spring Peepers (*Pseudacris crucifer*)

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (<i>Eubranchipus</i>)	Yes <u>X</u> abundant	No
Ostacods	Annelids (abundant)	
Daphnia	Diving Beetle	
Cyclops		

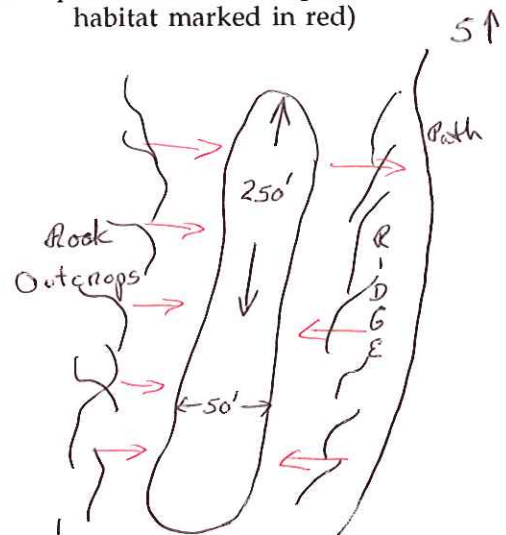
Dominate Vegetation at Site

Red Maple

Comments:

A classic, high quality vernal pool
Abundant life and perfect habitat
retreat areas on either side.

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- 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

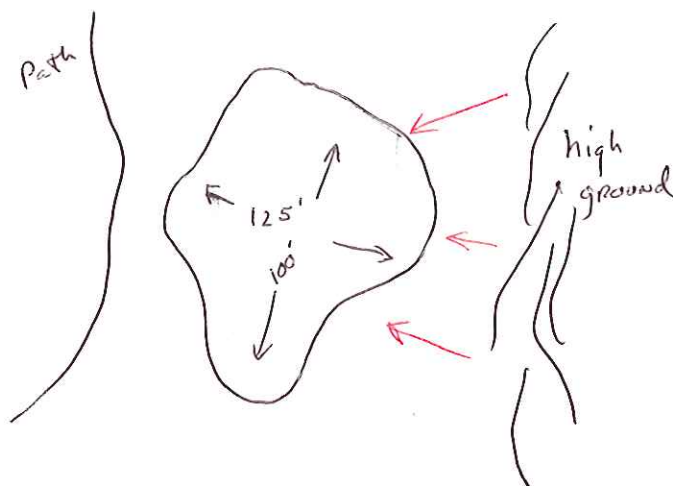
Red Maple

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 (*Eubbranchipus*) Yes _____ No X

Annelids (abundant)

Daphnia

Cyclops

Dominate Vegetation at Site

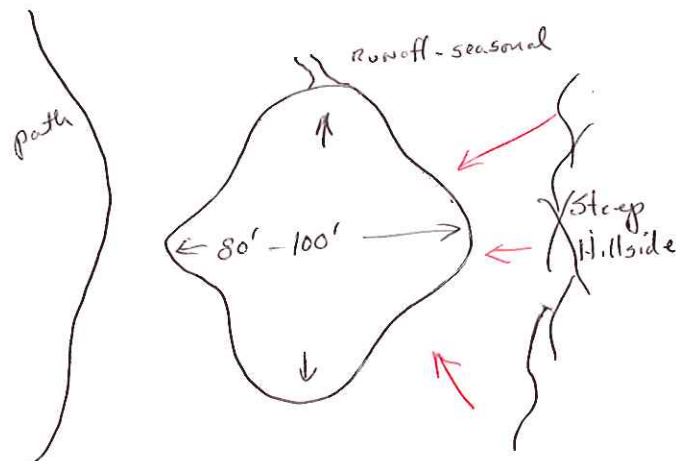
Red maple, *Ilex*, Highbush Blueberry
Sphagnum, *Sparganium* on surface

Comments:

transition water due to
end runoff

Pool Sketch

(principal movement from prime
habitat marked in red)



Date: 3/16/02

Site# QC- D6 and D7

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

Ambystoma maculatum.

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

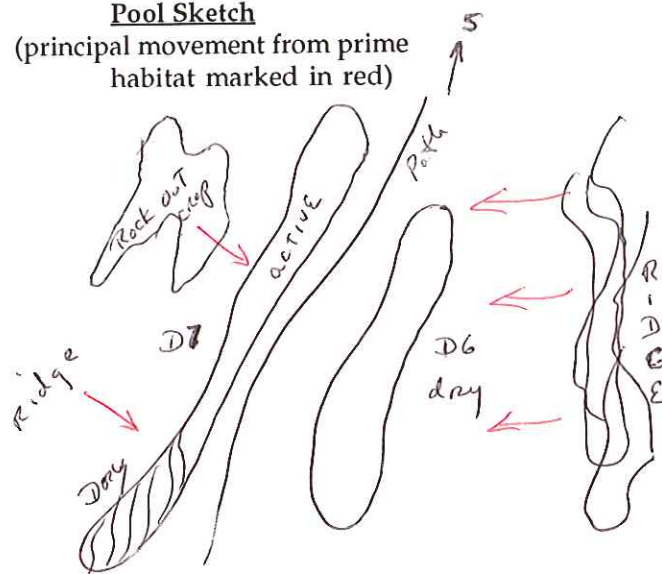
Red Maple, *Clethra*, *Ilex*,
Sphagnum, Black Birch, Highbush
Blueberry

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 Low
X

Depth:

Distance from High Water Mark: 12"

Water Temp: 42

Vertebrate Obligates Present:

Species Adults Eggs Metamorphs Spermatophores

Spotted Salamander

Ambystoma maculatum 6 masses 100+

Marbled Salamander

Ambystoma opacum

Wood Frog

Rana sylvatica 100+ calling 30 + masses

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

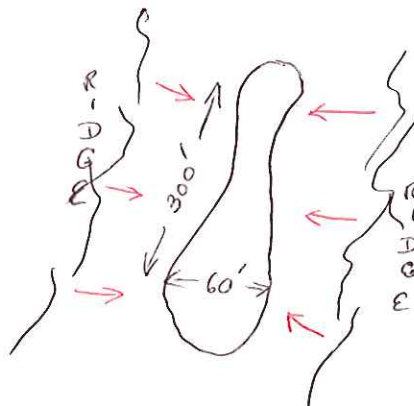
Red Maple, Sweet Pepperbush, Red Ash
Red Elm, Spicebush, *Ilex*

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

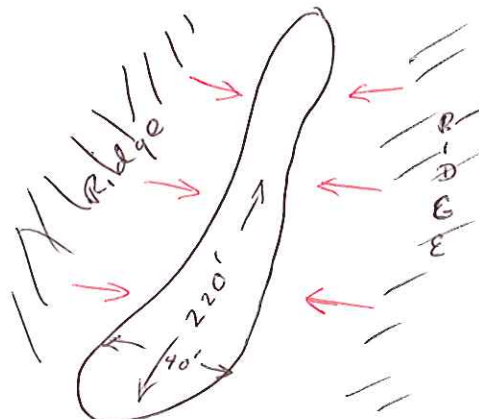
Red Maple, Black and Red Oaks

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

Pool Sketch

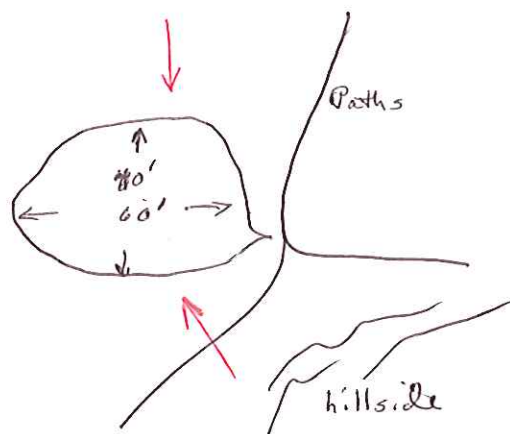
(principal movement from prime habitat marked in red)

Dominate Vegetation at Site

Spicebush, Red Maple (open canopy)

Comments:

late filling site



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

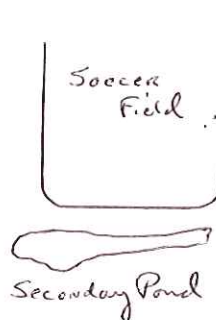
Comments:

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

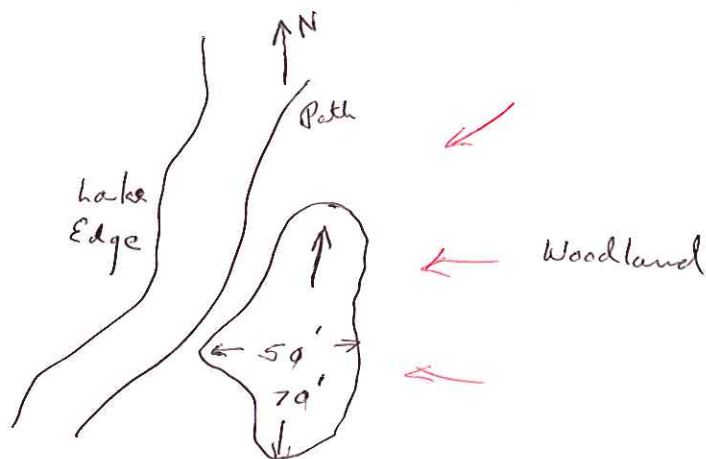
Red Maple, High Bush
Blueberry, Willow, Silky Dogwood

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

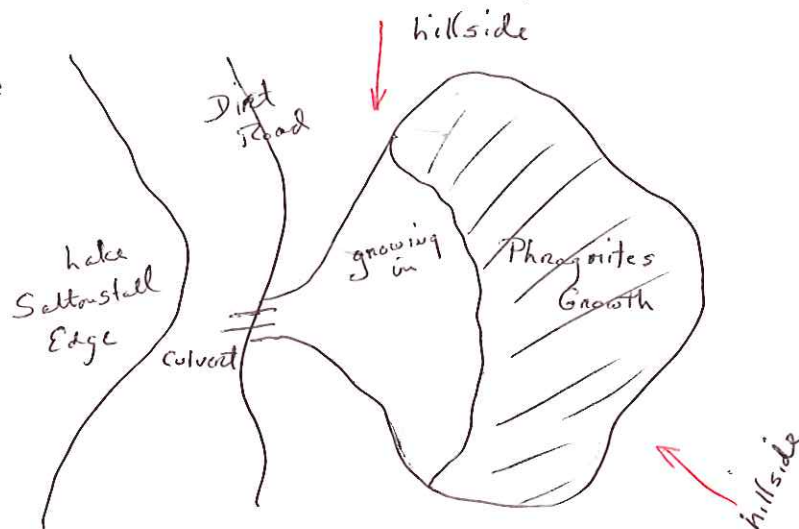
Phragmites (90%), Silky
Dogwood, Highbush Blueberry, Red Maple

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 (<i>Eubbranchipus</i>)	Yes	No	X
Ostacods			
<i>Daphnia</i>			
<i>Cyclops</i>			
Hatch of Matfly (<i>Leptophlybia bradlyii</i>)			

Dominate Vegetation at Site

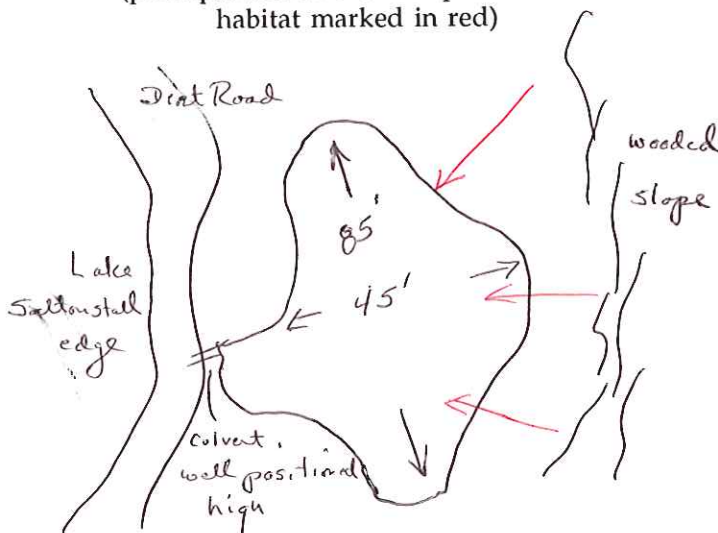
edge-old hemlock, red maple, tulip
in water: silky dogwood, buttonbush
Ludwigia, *Potamogeton*

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

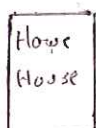
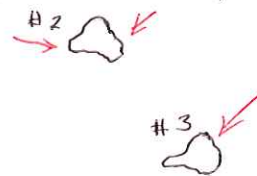
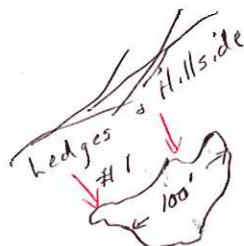
Ilex

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 _____

Dominate Vegetation at Site

Phalaris has taken over pool.

Willow, Maple

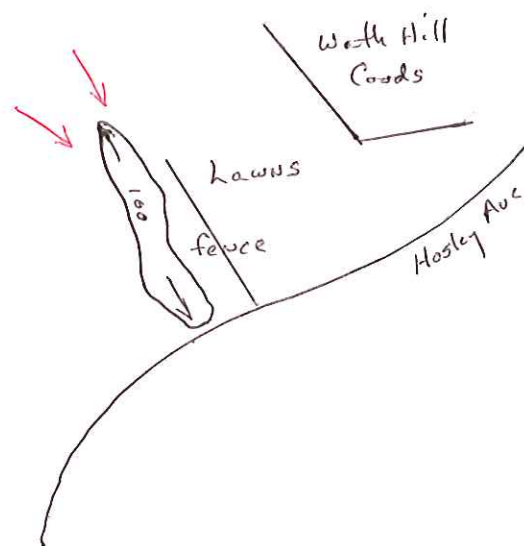
Comments:

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 ☒

Ostacods _____ Daphnia

Annelids-abundant _____ Cyclops

mosquito larvae-abundant

Pool Sketch

(principal movement from prime habitat marked in red)

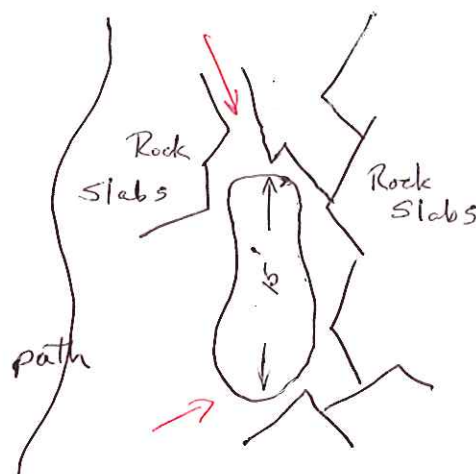
Dominate Vegetation at Site

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

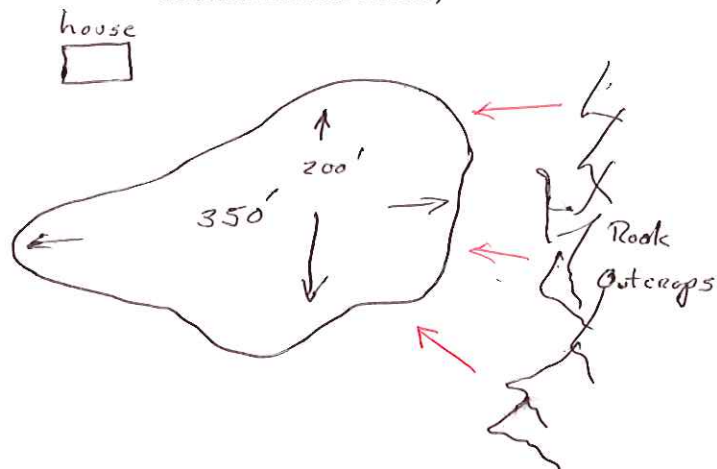
Red Maple, Highbush Blueberry, *Smilax*
Nyssa, Mt. Laurel on hummocks.

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)

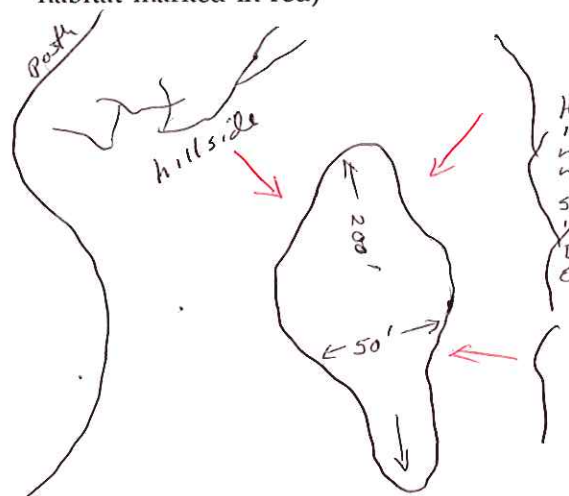
Highbush Blueberry

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

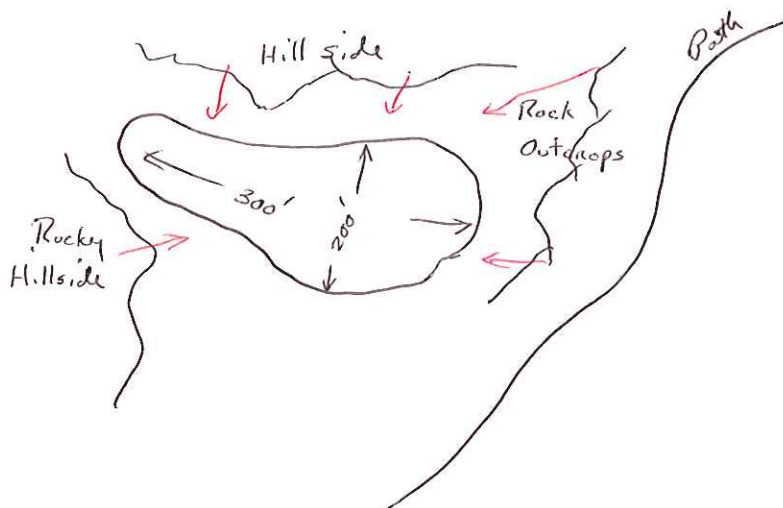
Red Maple, *Clethra*, *Ilex*,
Mt. Laurel edge
Hydrodictyon in water

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)

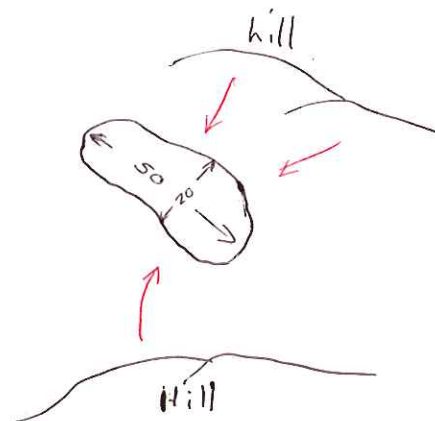
Dominate Vegetation at Site

Red Maple, *Smilax*, Highbush

Blueberry, Pignut and Shagbark Hickory

Comments:

late filling site



Branford Vernal Pool

Date: 3/25/02

Investigator: N.S. Proctor / M Ardwin
Site# Leetes Island Rd, at O'Connell CT.

GPS Location: 41 17.04
72 45.43

Pond Size: 60' X 40'

Water Level Based on High Water Mark

Maximum Half Low
 X

Depth:

Distance from High Water Mark: 6"

Water Temp: 46

Vertebrate Obligates Present:

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

Marbled Salamander

Ambystoma opacum

Wood Frog

Rana sylvatica

2+ calling 3 masses

Faculative Vertebrates Present:

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

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubbranchipus*) Yes _____ No X _____

Dominate Vegetation at Site

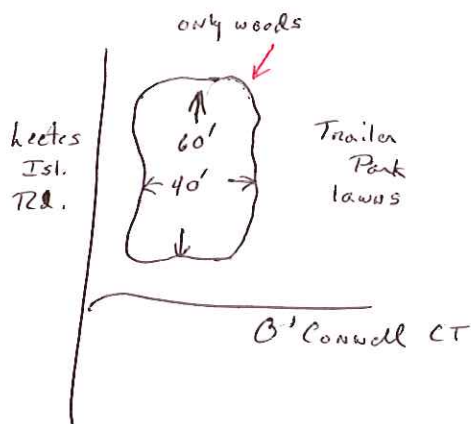
Red Maple

Comments:

A good site in past. Most habitat destroyed around pond so no input of animals. Lot of debris. Nearly ineffective now as a v.p.

Pool Sketch

(principal movement from prime habitat marked in red)



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 ☒ No _____

Ascellus

Daphnia

Cyclops

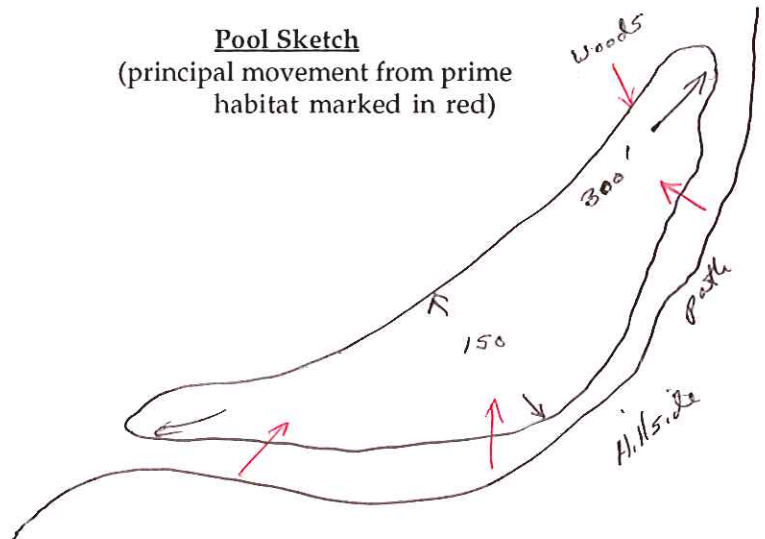
Dominant Vegetation at Site

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

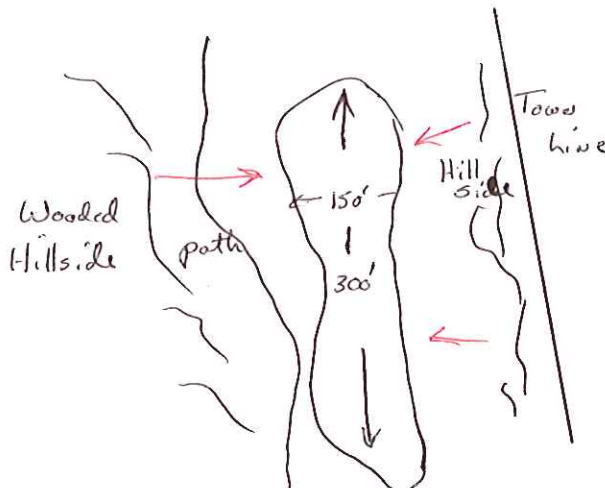
(principal movement from prime habitat marked in red)

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

Ambystoma opacum 20+

Wood Frog

Rana sylvatica 40+ calling 20 masses

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

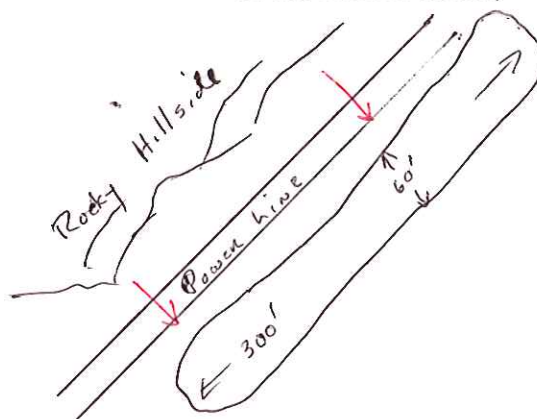
Red Maple, Red Ash, Arrowwood,
Highbush Blueberry, Red Elm
great deal of algal cover

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
---------	--------	------	------------	----------------

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

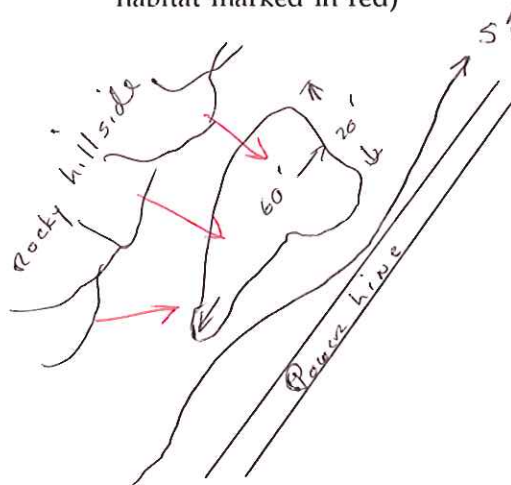
Red Maple, Red Ash

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

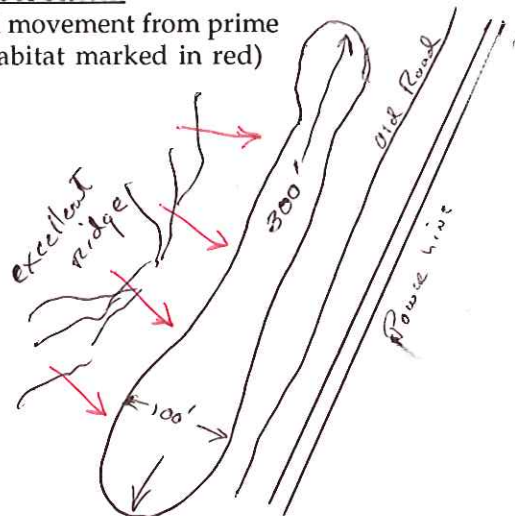
Red Maple, Red Ash, Highbush
Blueberry. *Lemna* mats

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

<i>Ambystoma opacum</i>				
-------------------------	--	--	--	--

Wood Frog

<i>Rana sylvatica</i>		40 + masses		
-----------------------	--	-------------	--	--

Faculative Vertebrates Present:

Obligate Invertebrates/ Faculative Invertebrates Present:

Fairy Shrimp (*Eubranchipus*) Yes _____ No X

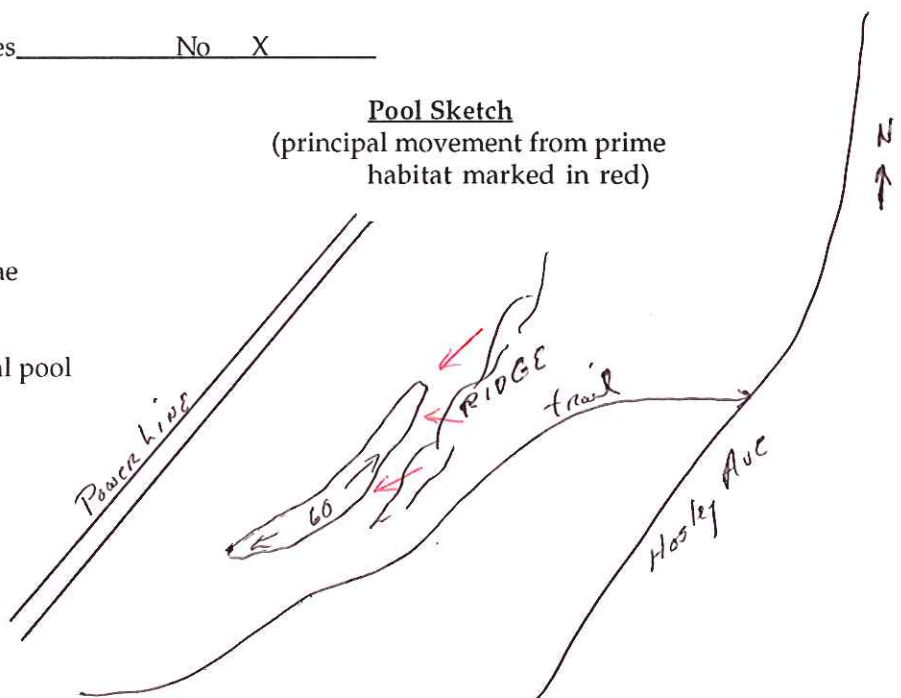
Dominate Vegetation at Site

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 (*Eubranchipus*) Yes _____ No ☒ _____

Daphnia

Cyclops

Dominate Vegetation at Site

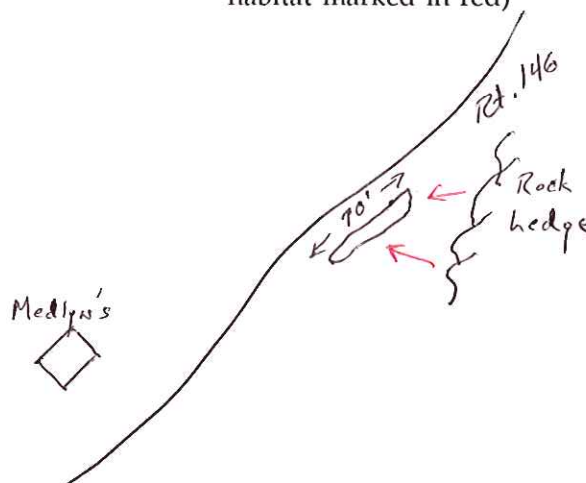
Red Maple, Spicebush, *Ilex*
Sweet Pepper Bush
dense algal mat

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

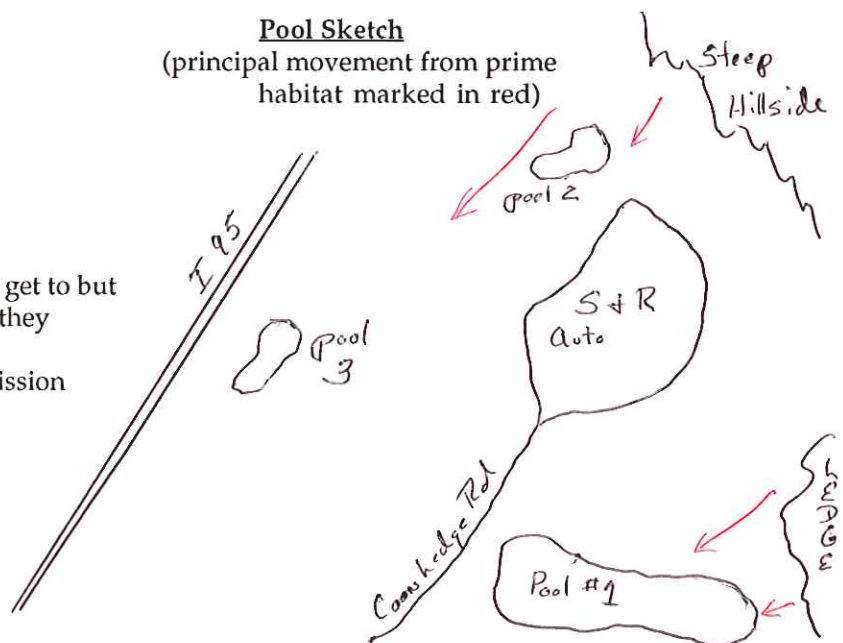
Dominate Vegetation at Site

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)



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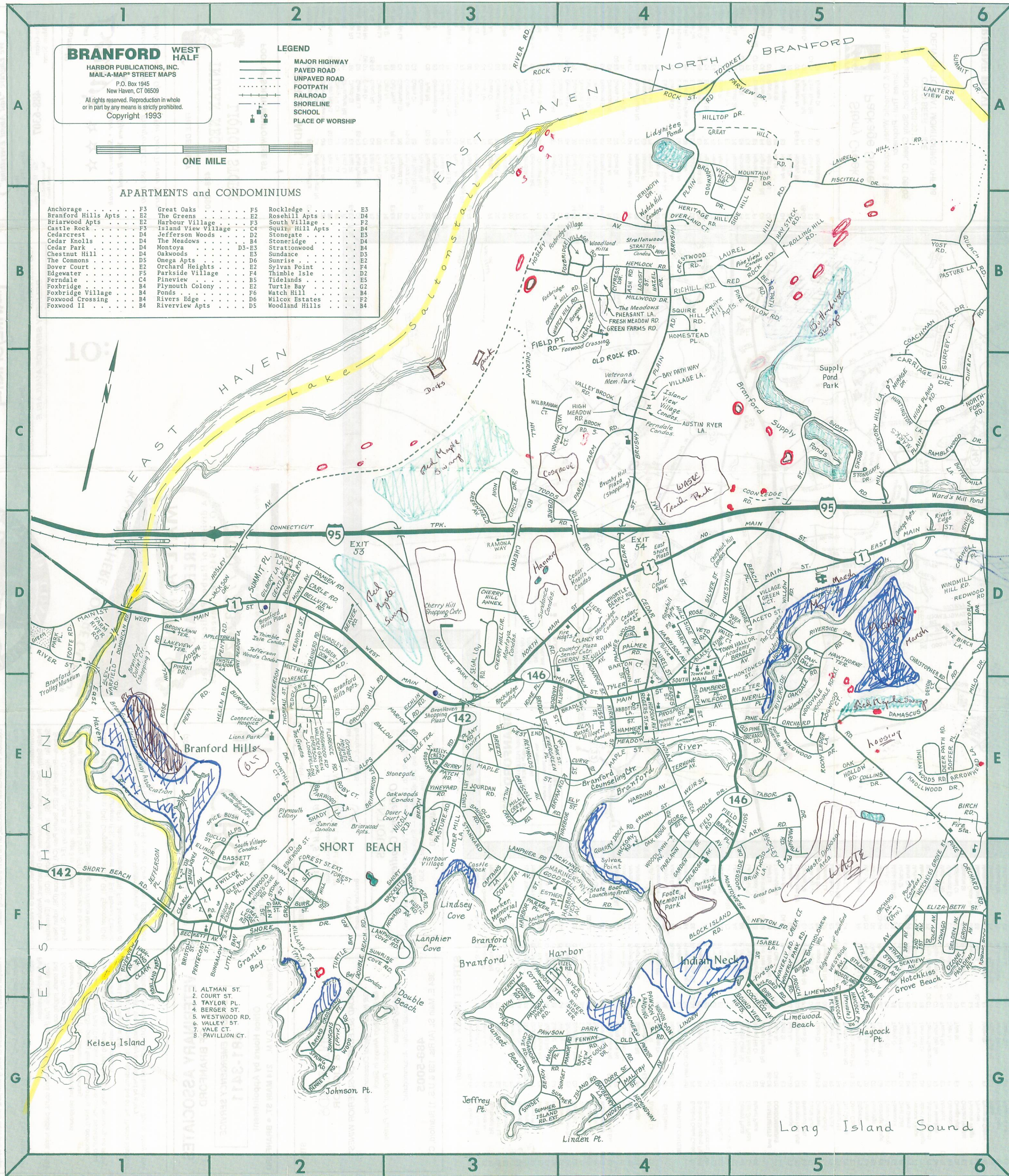
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Alps Rd	E3-F2	Cherry Hill Cir	D3
Altman St	F1	Christopher Rd	D6
Anchorage Rd	F6	Church St	E4
Apple Tree La	D2	Cider Mill La	E3-F3
Applewood Rd	D6-D7	Circle Dr	C3
Ark Rd	E5-F5	Clancy Rd	D4
Arrowhead La	E6	Clarendon St	D2
Ash Creek Dr	F8	Clark Av	F1
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Austin Rye La	E4	Coachman Dr	B6
Avenir Pl	C5	Cocheo Av	F5-G5
Avon Rd	C8	Collins Dr	E5
Baldwin Dr	C3	Commerce	E4
Balloo Rd	E3	Conner St	D3-E3
Barker Pl	E4	Conifer Dr	E8
Bartholomew Rd	F5	Connecticut Tpk	D1-D9
Baron Ct	D4	Coon Lodge Rd	C5
Bassett Rd	F2	Cotton Dr	D6
Bayard Crossing	G2	Cottage St	F3
Bayberry La	G4	Court St	F1
Bay Pathway	G4	Cove Ter	F3
Bayview Av	G4	Crescent Bluff Av	F6
Beach Pl	D5	Crestwood Rd	E2
Bear Path Rd	B5	Crosswood Rd	E2
Beaver Rd	D2	Crouch Rd	F5
Beckett Av	F1-F2	Crown St	E4
Beckwood Rd	E7	Cynthia Ct	E2
Beckwood Rd Ext	F2	Cypress Dr	B4
Bellevue Rd	D2	Damascus Rd	F1
Bennett Rd	G2	Damascus Rd	E5-E7
Berger St	F1	Danberg Pl	E6
Berry Patch Rd	E3	Debra La	B6
Birch Rd	E6-F6	Deer Path Rd	F5
Bishop Rd	F5	DeForest Dr	B7
Black Stone Av	D4	Devon Ct	E6
Black Island Rd	F8	Dogwood Ct	E5
Bradley Av	F5	Dominican Rd	D1
Bradley St	E4	Donna La	D2
Brainerd Rd	D2-E2	Dorchester La	B6-C6
Brandegee Av	F6	Dor St	E3
Brantford Rd	A8-C7	Double Beach Rd	F3
Breezy La	F5	Driscoll Rd	E3
Brianwood La	E2	Dudley Av	F6
Bridge St	F5	Eades St	F1
Brighthead La	F1	Eastwood Dr	E4
Bristol St	F3	E Haycock Pt Rd	G5
Brooketts La	F1	E Industrial Park Rd	D8
Brookhills Rd	B6	E Main St	C5-D5
Brooklawn Ter	D1	Elm St	E4
Brookwood Dr	A4-A5	Emerson Dr	C7
Brusby Plain Rd	E3-E4	Etzel Rd	C8
Bryan Rd	F5	Euclid St	F2
Buckley Rd	F5	Evergreen Pl	D3
Buena Vista Rd	G8	Fairview Dr	A5
Bungtown La	D2	Fairview Dr	A5
Burton Dr	F2	Fairview Dr	A5
Burr St	C7	Fairview Dr	A5
Business Park Rd	C7-D7	Fairview Dr	A5
Butternut Rd	D6	Fairview Dr	A5
Buttwood Dr	C8	Fairview Dr	A5
Cadwell Pl	D6	Fairview Dr	A5
Captains La	F3	Fairview Dr	A5
Carle Rd	D2	Fairview Dr	A5
Carriage Hill Dr	C6	Fairview Dr	A5
Cedar St	C4-E4	Fairview Dr	A5
Cedrus Ct	E8	Fairview Dr	A5

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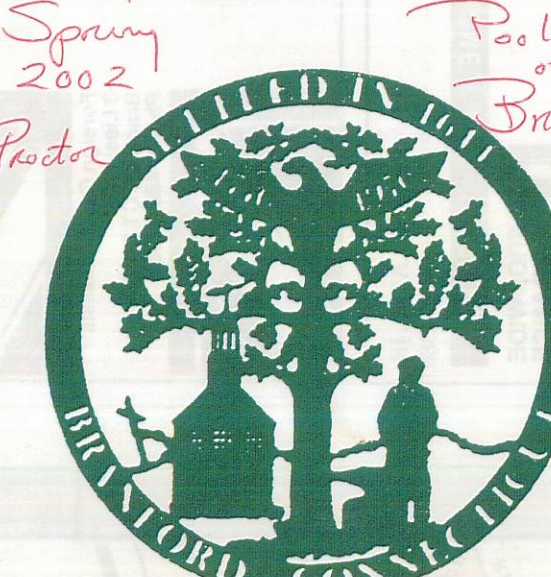
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FACTS AND FIGURES
Location: In south-central Connecticut, on the north shore of Long Island Sound, about five miles east of New Haven.
Area: 27.9 square miles.
Population: 27,620 (est. 1992).
Government: Representative Town Meeting, Selectmen, Board of Finance.
Public Safety: Police Department, Volunteer Fire Department; Ambulance.
Schools: High School (D5); Intermediate School (D6); 6 (Elementary) Schools—Branford Hills (E2), Brushy Plain (C4), Damascus (D6), Indian Neck (F4), Pine Orchard (F6), John B. Slinney (E4); Parochial School—St. Mary (D4); Wightwood School (E7)—private, ages 3 to 11, coed.
Libraries: James Blackstone Memorial Library (E4) is considered to be one of the most beautiful libraries in the United States; Willoughby Wallace Memorial Library (E4).
Places of Worship: Baptist (D4); Congregational (D4, G8); Episcopal (D4); Evangelical Free (D7); Lutheran (E5); Methodist (C9, E4); Roman Catholic (D8, E4, E2); Union Chapel (F1); Jehovah's Witness (C8); First Assembly of God (E4).
Health Services: Branford Nursing Home Health Service, Inc.; The Connecticut Hospice (E2); Branford Hills Health Care Center (E2); Branford Counseling Center (E4).

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Abbotts La	E4	Chapel Dr	F6	Featherbed La	C7-D6
Aceto St	D5	Cherry St	D4	Fellsmere Farm Rd	E7
Acorn Rd	D6	Cherry Hill Annex	D3	Ferry La	F3
Alex Warfield Rd	D1-E1	Cherry Hill Rd	B3-E3	Field Pt	E4-E5
Alps Rd	E3-F2	Cherry Hill Cir	D3	Field Point Rd	C4
Altman St	F1	Christopher Rd	D6	Fifth Av	F5
Anchorage Rd	F6	Church St	E4	Fir Tree Dr No	D7
Apple Tree La	D2	Cider Mill La	E3-F3	First Av	F6
Applewood Rd	D6-D7	Circle Dr	C3	Fir Tree Dr	E7-E8
Ark Rd	E5-F5	Clancy Rd	D4	Fitzgerald La	D7
Arrowhead La	E6	Clarendon St	D2	Flat Rock Rd	E8
Ash Creek Dr	F8	Clark Av	F1	Flat Rock Rd Ext	F8
Ash Rd	B4	Club Pkwy	F6-F7	Flax Mill Rd	B7-C7
Austin Rye La	E4	Coachman Dr	B6	Florence Rd	E2
Avenir Pl	C5	Cocheo Av	F5-G5	Flying Point Rd	G8
Avon Rd	C8	Collins Dr	E5	Forest St	F2
Baldwin Dr	C3	Commerce	E4	Forest St Ext	F2
Balloo Rd	E3	Conner St	D3-E3	Fourth Av	F5
Barker Pl	E4	Conifer Dr	E8	Fourbridge Village Rd	B4
Bartholomew Rd	F5	Connecticut Tpk	D1-D9	Frank St	E4-F4
Baron Ct	D4	Coon Lodge Rd	C5	Fresh Meadow Rd	B4
Bassett Rd	F2	Cotton Dr	D6	Garden St	F4
Bayard Crossing	G2	Cottage St	F3	Gentile Pl	D7
Bayberry La	G4	Court St	F1	George St	E2
Bay Pathway	G4	Cove Ter	F3	Gilbert La	D4
Bayview Av	G4	Crescent Bluff Av	F6	Glen St	F2
Beach Pl	D5	Crestwood Rd	E2	Glendale Pl	F2
Bear Path Rd	B5	Crosswood Rd	E2	Goldsmith Rd	F2
Beaver Rd	D2	Crouch Rd	F5	Goulds Point Rd	C9
Beckett Av	F1-F2	Crown St	E4	Gough Dr	G4
Beckwood Rd	E7	Cynthia Ct	E2	Grande St	D2
Beckwood Rd Ext	F2	Cypress Dr	B4	Grande St	D2
Bellevue Rd	D2	Damascus Rd	F1	Great Hill Av	A4-B5
Bennett Rd	G2	Damascus Rd	E5-E7	Greenfield Av	C4-D3
Berger St	F1	Danberg Pl	E6	Greens Farm Rd	B4
Berry Patch Rd	E3	Debra La	B6	Griffing Pond Rd	E6-F7
Birch Rd	E6-F6	Deer Path Rd	F5	Grove Av	F6
Bishop Rd	F5	DeForest Dr	B7	Grove St	F2
Black Stone Av	D4	Devon Ct	E6	Harbor	E3
Black Island Rd	F8	Dogwood Ct	E5	Harbor View Av	E4
Bradley Av	F5	Dominican Rd	D1	Hart Av	D4
Bradley St	E4	Donna La	D2	Harrison Av	D4
Brainerd Rd	D2-E2	Dorchester La	B6-C6	Hawthorne Ter	D6
Brandegee Av	F6	Dor St	E3	Haystack Rd	B5
Brantford Rd	A8-C7	Double Beach Rd	F3	Hazel Dr	B4
Breezy La	F5	Driscoll Rd	E3	Helen Rd	E2
Brianwood La	E2	Dudley Av	F6	Hemingway St	G4
Bridge St	F5	Eades St	F1	Heritage Hill Rd	B4
Brighthead La	F1	Eastwood Dr	E4	Hickory Hill La	F4
Bristol St	F3	E Haycock Pt Rd	G5	Hickory Hill La	F4
Brooketts La	F1	E Industrial Park Rd	D8	Highland Av	F1
Brookhills Rd	B6	E Main St	C5-D5	High Plains Rd	C6
Brooklawn Ter	D1	Elm St	E4	Hill St	F2
Brookwood Dr	A4-A5	Emerson Dr	C7	Hillside Av	D4
Brusby Plain Rd	E3-E4	Etzel Rd	C8	Hilltop Dr	A4
Bryan Rd	F5	Euclid St	F2	Holly La	F8-G8
Buckley Rd	F5	Evergreen Pl	D3	Home Pl	E3
Buena Vista Rd	G8	Fairview Dr	A5	Homestead Pl	B4
Bungtown La	D2	Fairview Dr	A5		
Burton Dr	F2	Fairview Dr	A5		
Burr St	C7	Fairview Dr	A5		
Business Park Rd	C7-D7	Fairview Dr	A5		
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Captains La	F3	Fairview Dr	A5		
Carle Rd	D2	Fairview Dr	A5		
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STREET INDEX (Continued)			
Abbotts La	E4	Chapel Dr	F6
Aceto St	D5	Cherry St	D4
Acorn Rd	D6	Cherry Hill Annex	D3
Alex Warfield Rd	D1-E1	Cherry Hill Rd	B3-E3
Alps Rd	E3-F2	Cherry Hill Cir	D3
Altman St	F1	Christopher Rd	D6
Anchorage Rd	F6	Church St	E4
Apple Tree La	D2	Cider Mill La	E3-F3
Applewood Rd	D6-D7	Circle Dr	C3
Ark Rd	E5-F5	Clancy Rd	D4
Arrowhead La	E6	Clarendon St	D2
Ash Creek Dr	F8	Clark Av	F1
Ash Rd	B4	Club Pkwy	F6-F7
Austin Rye La	E4	Coachman Dr	B6
Avenir Pl	C5	Cocheo Av	F5-G5
Avon Rd	C8	Collins Dr	E5
Baldwin Dr	C3	Commerce	E4
Balloo Rd	E3	Conner St	D3-E3
Barker Pl	E4	Conifer Dr	E8
Bartholomew Rd	F5	Connecticut Tpk	D1-D9
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Bassett Rd	F2	Cotton Dr	D6
Bayard Crossing	G2	Cottage St	F3
Bayberry La	G4	Court St	F1
Bay Pathway	G4	Cove Ter	F3
Bayview Av	G4	Crescent Bluff Av	F6
Beach Pl	D5	Crestwood Rd	E2
Bear Path Rd	B5	Crosswood Rd	E2
Beaver Rd	D2	Crouch Rd	F5
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Carle Rd	D2	Fairview Dr	A5
Carriage Hill Dr	C6	Fairview Dr	A5
Cedar St	C4-E4	Fairview Dr	A5
Cedrus Ct	E8	Fairview Dr	A5

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INDEX SCALE 1" = 2000'

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