Mount Mansfield Community Assessment Form

- Identifiers
  - Community name
  - Polygon Code
  - Plot number
  - Quad name(s)
  - Survey site name
  - Digital Orthophoto number
  - Aerial Photo Number
  - County name(s)
  - Town
  - Location
  - Survey date
  - State
  - Surveyors
- Environmental Descriptions
  - Topographic Position
  - Topographic Sketch
  - Elevation
  - Slope Degrees
  - Slope Aspect
  - Parent material
  - Soil Profile Description
  - Average Soil Texture
  - Stoniness
  - Soil Drainage
  - Unvegetated surface
  - Environmental comments
  - Plot representativeness
- Vegetation Description
  - Total Tree Cover, Height, % Cover
    - Emergent tree
    - Tree canopy
    - Tree sub-canopy
    - Tall shrub
    - Short shrub
    - Herbaceous
    - Non-vasular
    - Epiphyte
    - Vine/liana
  - Community Ranking
    - Size of community
    - Current condition of community
    - Landscape quality
    - Old growth
  - Dominant Species in each strata
    - Species
    - Cover scale

Mt. Mansfield Community Assessment Form

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A. Identifiers

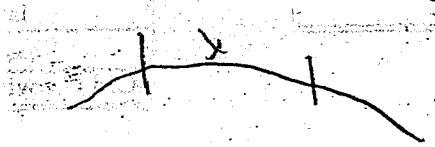
1. Community name (SNAME): Red Spruce / NH
2. Polygon Code: S/F-Bw 3. Plot Number: MM 54 4. Quad name(s): Bolton MM
5 Survey site name: Nebraska Notch
6. Quarter Quad Number: 124220 7. Aerial Photo Number: 4201-132
7.County name(s): Chitt 8.Town: Bolton
9.Location: North of Taylor Lodge along Long Trail
Could not get a GPS reading. Certain of location though.
10.Survey date: 10.22.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
X High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation ~2160'
16. Slope Degrees var
17. Slope Aspect var
18. Parent Material: till

19. Soil Profile Description:

1½" O layer
1½-7½ A dark loam
7½-18 B red/brown clay loam w coarse fragments
Hardpan @ 18 inches.

20. Average Soil Texture

__ Sand X Clay Loam
__ Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
X Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

___ % Bedrock
___ % Large Rocks (>10cm)
___ % Small rocks (<10cm)
___ % Sand
___ % Bare soil
___ % Litter, duff
___ % Wood (> 1 cm)
___ % Water
___ % Other

24. Environmental Comments:

on a knoll. Some parts of polygon look very different: mostly W. Birch canopy & dense spruce shrub/sapling layer. This occurs on a steeper slope w/ North aspect.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 90 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15m	80
T3 Tree Sub-canopy	5-10m	40
S1 Tall Shrub	1-5m	20
S2 Short Shrub		
H Herbaceous	<1	?
N Non-vascular	-	
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2			
Picea rubens	2		
Betula alleg	2		
Fagus grand	2		
Acer Saec	2		
Betula p-py	2		
T3			
Picea rubr	1		
Acer pensy	2		
Betula alleg	2		
Amelanchier sp.	1		
Fagus grand	2		
S1			
Acer spic	2		
Acer pens	2		
Vibur lant	2		
H			
Lyco luci	2		
Dry inter	2		
? late season			

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

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A. Identifiers

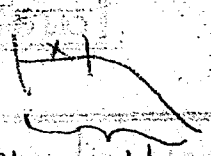
1. Community name (SNAME): Aspen Forest (NH site 3
2. Polygon Code: Pio Hdwd 3. Plot Number: CA 53 4. Quad name(s): Waterbury
5 Survey site name: Little River SP
6. Quarter Quad Number: 128204 7. Aerial Photo Number: aqui-133
7.County name(s): Wash. 8.Town: Waterbury
9.Location: Little River State Park along road south of alder swamp
R 101918A
10.Survey date: 10. 19. 99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope X Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



Polygon includes slope as well

15. Elevation ~600'
16. Slope Degrees –
17. Slope Aspect –
18. Parent Material: ? glaciofluvial ?

19. Soil Profile Description:

¼: O layer
½-1 in A layer
dark loam
1+ B ~~and~~ brown
coarse sandy loam
a lot of rocks.

20. Average Soil Texture

__ Sand __ Clay Loam
X Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

X Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other

24. Environmental Comments:

Early successional forest (aspen) becoming site 3 NH forest.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 75 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	30
T3 Tree Sub-canopy	5-12m	60
S1 Tall Shrub	1-5m	15
S2 Short Shrub		
H Herbaceous		
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
(3)=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
(2)=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2			
Pop grand	2		
Pinus strobus	1		
Prunus serotina	1		
T3			
Acer saca	2		
Acer rubrum	3		
Prunus pens	2		
Betula popy	2		
S1			
Acer rubrum	2		
Corus alter	1		
H			
?			
Hay scented fern ?			
Dryo inter			
too late in season			

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

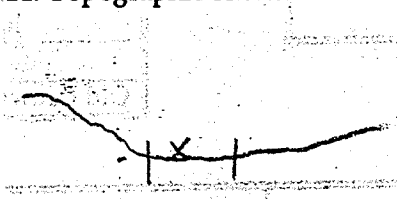
1. Community name (SNAME): Alder Swamp
2. Polygon Code: not mapped 3. Plot Number: CA 52 4. Quad name(s): Waterbury
5 Survey site name: Little River
6. Quarter Quad Number: 12S 204 7. Aerial Photo Number: 4201-133
7.County name(s): Wash. 8.Town: Waterbury
9.Location: Along Little River Road on west side adjacent to parking area
File R101914A
10.Survey date: 10.19.99 11.State: VT 12.Surveyors NLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other X Basin Floor

14. Topographic Sketch:



15. Elevation ~550'
16. Slope Degrees —
17. Slope Aspect —
18. Parent Material:

19. Soil Profile Description:

1/2in organic
1/2in + clay loam
depleted matrix (gleyed)
w/ many distinct mottles
standing water 0-4 inches
depth > 2½ feet

20. Average Soil Texture

__ Sand X Clay Loam
__ Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other _____

21. Stoniness:

X Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
X Very Poorly Drained

23. Unvegetated Surface:

___ % Bedrock
___ % Large Rocks (>10cm)
___ % Small rocks (<10cm)
___ % Sand
___ % Bare soil
___ % Litter, duff
___ % Wood (> 1 cm)
___ % Water
___ % Other _____

24. Environmental Comments:

gets seepage water from surrounding hills & has a small tributary of Little River running through it.

25. Plot representativeness:

C. Vegetation Description

Total Shrub Cover 85 %

	Height	% Cover
T1 Emergent Tree	10	3
T2 Tree Canopy		
T3 Tree Sub-canopy		
S1 Tall Shrub	1-3m	80 %
S2 Short Shrub		
H Herbaceous	<1.5m	95%
N Non-vascular	<.1m	15%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

ST			
Ulmus americana	1		
S1			
Alnus incana	5		
Salix spp.	2		
H			
Onoclea sensibilis	2		
Carex spp.	2		
Eupatorium maculatum	2		
Polygonum sagittatum	2		
Glyceria canadensis	2		
N			
Campylium	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

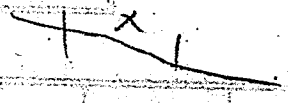
1. Community name (SNAME): Seep.
2. Polygon Code: old field ? 3. Plot Number: CA 51 4. Quad name(s): Bolton Mtn.
5 Survey site name: Ricker / Cotton Brook Black Ridge
6. Quarter Quad Number: 12 8 2 12 7. Aerial Photo Number: 4201-131
7.County name(s): Wash. 8.Town: Waterbury
9.Location: same as wp 71 C76451 E 4920277 N
10.Survey date: 10.12.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
X Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation_____
16. Slope Degrees 5°
17. Slope Aspect NE
18. Parent Material: fill

19. Soil Profile Description:

5 in Organic soil
w/ gravel, brown
over
dense basal till, glayed

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
__ Loam X Peat
__ Silt Loam __ Muck
__ Other_____

21. Stoniness:

X Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
X Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:

open field ~ 1 acre. wet, seepy opening in young forest.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover _____ %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy		
T3 Tree Sub-canopy		
S1 Tall Shrub		
S2 Short Shrub	<2m	80
H Herbaceous	2m	70
N Non-vascular	<1m	10%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 1
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

S2		
Spiraea alba	4	
Rubus allegh	2	
H		
Solidago caesia	2	
Aster puniceus	2	
Carex crinita	2	
Carex lurida	1	
Eutrochium grav	2	
N		
Alnus rugosa	2	

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

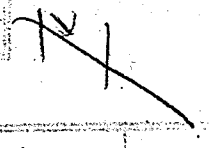
1. Community name (SNAME): early succ. NH
2. Polygon Code: old field (wet) 3. Plot Number: CA 50 4. Quad name(s): Bolton Mtn
5 Survey site name: Cotton Brook Block
6. Quarter Quad Number: 128212 7. Aerial Photo Number: 4201 131
7.County name(s): Wash. 8.Town: Waterbury
9.Location: UTM 676454 E 4920508N saved as WP # 70
10.Survey date: 10.12.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
X High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation ~1500
16. Slope Degrees 7°
17. Slope Aspect N
18. Parent Material: till

19. Soil Profile Description:

0-1 in O layer
1 in + A light brown loam
little horiz. lam (but hard to dig good pit)
stony.
up to 18 in deep +

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
X Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
V Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other

24. Environmental Comments: Dense, even-aged saplings. Looks like logging job. Doesn't look like an old field (mapped as such) I could am be in the wrong place. A true early successional NH forest. But where in classification does it fit?

not wet

25. Plot representativeness:

See CA51 old field (wet)

C. Vegetation Description

Total Tree Cover 95 %

	Height	% Cover
T1 Emergent Tree	15	5
T2 Tree Canopy	5-8	95
T3 Tree Sub-canopy		
S1 Tall Shrub	1-5m	5%
S2 Short Shrub		
H Herbaceous		
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T1			
Acer saca	1		
T2			
Acer saca	3		
Acer pens	4		
Frax amer	2		
Betula alleg	2		
Pinus pens	2		
Fagus grand	2		
S1			
Acer saca	2		
Picea rubra	2		
H			
Dryo inter			
? Late in season			

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

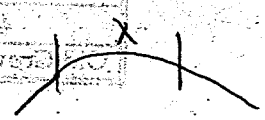
1. Community name (SNAME): Red Spruce / NH see below
2. Polygon Code: He/Sr/NH 3. Plot Number: CA48 4. Quad name(s): Bolton NMM
5. Survey site name: Ridge bet. Cotton Brook Block & Ricker Block
6. Quarter Quad Number: 128212 7. Aerial Photo Number: 4201-131
7. County name(s): Wash. 8. Town: Waterbury
9. Location: WP 69 UTM 676472E 4919964N
Ridge bet. Ricker Basin & Cotton Brook basin
10. Survey date: 10.12.99 11. State: VT 12. Surveyors MLS

B. Environmental Description

13. Topographic Position

- [X] Interfluve
- [ ] High Slope
- [ ] High Level
- [ ] Midslope
- [ ] Low Level
- [ ] Other
- [ ] Backslope
- [ ] Step in Slope
- [ ] Lowslope
- [ ] Toeslope
- [ ] Channel Wall
- [ ] Basin Floor

14. Topographic Sketch:



15. Elevation ~1800'
16. Slope Degrees 15°
17. Slope Aspect var.
18. Parent Material:

19. Soil Profile Description:

0 - ½ in O layer
½ - 5 in A dark silt loam
5+ B light brown clay loam w/gravel
Mottling @ 7 in
depth to 1½ feet +

20. Average Soil Texture

- [ ] Sand
- [ ] Sandy Loam
- [ ] Loam
- [X] Silt Loam
- [ ] Other
- [ ] Clay Loam
- [ ] Clay
- [ ] Peat
- [ ] Muck

21. Stoniness:

- [ ] Stone Free < 0.1%
- [ ] Moderately stony 0.1-1%
- [X] Stony 3-15%
- [ ] Very Stony 15-50%
- [ ] Exceedingly stony 50-90%
- [ ] Stone piles >90%

22. Soil Drainage

- [ ] Rapidly Drained
- [ ] Well Drained
- [ ] Moderately Well Drained
- [X] Somewhat Poorly Drained
- [ ] Poorly Drained
- [ ] Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- 10 % Wood (> 1 cm)
- ___ % Water
- ___ % Other ___

24. Environmental Comments: Massive blow down at this site. Canopy sparse, mostly spruce & birch remaining (mostly spruce fallen). Rest of veg. is more like Red Spruce/NH than a montane type. ~~Typed~~ No hemlock (mapped as He/Sr/NH) Perhaps there should be a Red Spruce/Birch (NH) variant of the Red Spruce/NH forest.

25. Plot representativeness: occasional red/sugar maple present in this stand

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20	20
T3 Tree Sub-canopy	5-10m	40
S1 Tall Shrub	1-5m	30
S2 Short Shrub		
H Herbaceous	<1	30
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		
Picea rubens	2	
Betula p-py	2	
Betula alleg	2	
Betula alleg	3	
Acer pens	2	
S1		
Fagus grand	2	
Picea rubens	2	
Betula alleg	2	
Acer sacc	1	
H		
Dryo inter	2	
Oxalis acet	1	

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

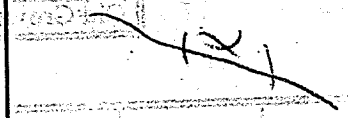
1. Community name (SNAME): NH
2. Polygon Code: NH Poles 3. Plot Number: CA 8849 4. Quad name(s): Bolton Mtn
5 Survey site name: Ricker Block
6. Quarter Quad Number: 128212 7. Aerial Photo Number: 9201-131
7.County name(s): Wash 8.Town: Waterbury
9.Location: E of old cemetery cmpt 7 WP 68 UTM 676149E 4919630 N
10.Survey date: 10.12.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation ~1500

16. Slope Degrees 10°

17. Slope Aspect SW

18. Parent Material:

19. Soil Profile Description:

0-1 in O layer
1-2 in A dark loam
2-7 B loam, light brown
7+ C reddish clay loam
soil fairly rocky
depth >2 feet in places

20. Average Soil Texture

- __ Sand
- __ Sandy Loam
- X Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1 cm)
- ___ % Water
- ___ % Other ___

24. Environmental Comments: This looks like a young NH forest (though not really young) Avg DBH ~ 25cm - Significant sub-canopy

25. Plot representativeness: good. some areas w more W. birch

C. Vegetation Description

Total Tree Cover 90 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	80
T3 Tree Sub-canopy	5-10m	40
S1 Tall Shrub	1-5m	15
S2 Short Shrub	<1m	5
H Herbaceous	<1	T
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H
Popu tremu	3	THI none
Acer sacc	3	V
Betula papy	2	
Pinus strob	1	Like in season. Herb layer gone
Picea rubens	1	
T3		
Acer sacc	3	
Fagus grand	2	
Picea rubens	2	
S1		
Acer sacc	2	
Acer pens	2	
Fagus grand	2	
S2		
Acer sacc	2	

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

1. Community name (SNAME): Succ. Sc/NH
2. Polygon Code: SF/Bw 3. Plot Number: CA47 4. Quad name(s): Bolton Mtn
5 Survey site name: Woodward Mtn.
6. Quarter Quad Number: 124208 7. Aerial Photo Number: ~~45~~ 4201-133
7.County name(s): Wash. 8.Town: Waterbury
9.Location: Trail → LSP 66 UTM 674638E 4917150N
10.Survey date: 10.11.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
X Other knoll __ Basin Floor

14. Topographic Sketch:

~2200'
15. Elevation
16. Slope Degrees 28°
17. Slope Aspect var.
18. Parent Material:

19. Soil Profile Description:

2 in O layer
2-4" A dark loam
4-5 inconspicuous E lighter (but not white)
5+B stony, reddish clay loam

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
X Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
X Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
X Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

___ % Bedrock
___ % Large Rocks (>10cm)
___ % Small rocks (<10cm)
___ % Sand
___ % Bare soil
___ % Litter, duff
___ % Wood (>1 cm)
___ % Water
___ % Other

24. Environmental Comments: Site on a knoll @ ~2200'. Successional. Probably will be Spruce dominated w/ lesser amounts of mixed hardwoods. Doesn't look like the higher elev. Spruce/Birch type.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 60 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15	60
T3 Tree Sub-canopy	5-10	40
S1 Tall Shrub		
S2 Short Shrub	1-5	30
H Herbaceous	<1	15
N Non-vascular	<1	5
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 5
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2	
Picea rubens	2
Betula papy	3
Betula alleg	2
Acer Sacc	2
T3	
Picea rubens	3
Acer pens	2
Fagus grand	2
Acer Sacc	2
S1	
Fagus grand	2
Picea rubens	2
H	
Dryo int	2
N	
Dicranum Scop	1
Hypnum sp	1

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

?

Mt. Mansfield Community Assessment Form

WP 66
674680
4917108

8/99

A. Identifiers

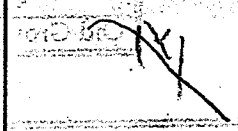
1. Community name (SNAME): succ. White Birch see below
2. Polygon Code: By/NH 3. Plot Number: CA46 4. Quad name(s): Belvidere Mtn.
5 Survey site name: Woodland Hill
6. Quarter Quad Number: 124208 7. Aerial Photo Number: 42A-133
7.County name(s): Wash. 8.Town: Waterbury
9.Location: Saved as WP 65 UTM 674286E 4917242N
10.Survey date: 10.11.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
X High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



~2100'
15. Elevation
16. Slope Degrees 20°
17. Slope Aspect NE
18. Parent Material: till

19. Soil Profile Description:

1 in O layer
1-5 in A light brown sandy loam over rock
depth @ 2in - 10in

20. Average Soil Texture

__ Sand __ Clay Loam
X Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
X Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

___ % Bedrock
___ % Large Rocks (>10cm)
___ % Small rocks (<10cm)
___ % Sand
___ % Bare soil
___ % Litter, duff
___ % Wood (> 1 cm)
___ % Water
___ % Other

24. Environmental Comments:

[redacted] ice damage. My guess is that this is successional to Red Spruce/NH Forest.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 60 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15m	60
T3 Tree Sub-canopy	6m	8%
S1 Tall Shrub	1-3m	40
S2 Short Shrub		
H Herbaceous	<1m	30
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 5-10
How was size determined? est
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2	
Betu alleg	2
Betula popu	3
Fagus grand	2
Acer sacc	2
T3	
Fagus grand	1
Betula alleg	1
Acer sacc	
S1	
(Picea rubens	2)
Fagus grand	3
Acer pens	2
H	
Lyco luci	2
Drya inte	2
Aster acum	1
Carex grac	1
Maia cana	+

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

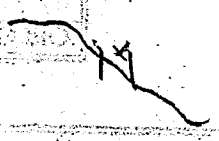
1. Community name (SNAME): ? Ms / By / Sr variant
2. Polygon Code: SR / By
3. Plot Number: CA45
4. Quad name(s): Bolton Mtn
5. Survey site name: Woodward Mtn
6. Quarter Quad Number: 124208
7. Aerial Photo Number: 4201-133
7. County name(s): Wash.
8. Town: Waterbury
9. Location: Saved as WP 64 UTM 673788 E 4917699 N
10. Survey date: 10 . 11 . 99
11. State: VT
12. Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ Backslope
- X High Slope
- __ Step in Slope
- __ High Level
- __ Lowslope
- __ Midslope
- __ Toeslope
- __ Low Level
- __ Channel Wall
- __ Other
- __ Basin Floor

14. Topographic Sketch:



15. Elevation ~ 2400'
16. Slope Degrees 20-30°
17. Slope Aspect S
18. Parent Material: till

19. Soil Profile Description:

0-2 in O layer

2-7 in A dark loam

7+ reddish loam, water @ 15 in (?Sub-Surface flow)

Soil depth ≈ 18 in.

20. Average Soil Texture

- __ Sand
- __ Clay Loam
- __ Sandy Loam
- __ Clay
- X Loam
- __ Peat
- __ Silt Loam
- __ Muck
- __ Other

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- X Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1 cm)
- ___ % Water
- ___ % Other ___

24. Environmental Comments:

Not very much Spruce for Sr/By. (Some in canopy) Maybe more like Ms/By/Sr variant. Perhaps not high enough for Sr/By

Significant ice damage

Mostly birch

25. Plot representativeness:

Maybe even White Birch-Red Spruce Forest ? (successional variant)

C. Vegetation Description

Total Tree Cover 60 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15m	60
T3 Tree Sub-canopy	2-8	40%
S1 Tall Shrub		
S2 Short Shrub	<2m	25%
H Herbaceous	<1m	30%
N Non-vascular	<1m	7%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		N	
Betula papy	3	Dicranum spp	1
Betula allag	3	Polytrichum sp.	1
Fagus grand	1		
Acer saec	1		
T3			
Picea rubens	2		
Acer pens	2		
Acer rubrum	2		
S2			
Abies bals	1		
Rubus allag	2		
Acer rubr	2		
Fagus grand	2		
H			
Dryo int	2		
Aster acum	1		
Soli macr	1		
Cornus cana	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

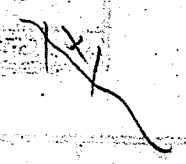
1. Community name (SNAME): saw below
2. Polygon Code: ? Bw/Fy
3. Plot Number: CA 44
4. Quad name(s): Bolton Mtn
5. Survey site name: Woodward Mtn
6. Quarter Quad Number: 124208
7. Aerial Photo Number: 4201 - 133
7. County name(s): Wash.
8. Town: Water
9. Location: north of outcrop on Woodward Mtn. just above saddle WP 63 UTM 673773 E ~~4917~~ 4917412 N
10. Survey date: 10 . 11 . 99
11. State: VT
12. Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation ~2300'
16. Slope Degrees 19°
17. Slope Aspect W
18. Parent Material: till

19. Soil Profile Description:

0-1 in O layer
1-5 A dark loam
5-6 in. incipient E horz. Sandy clay loam
6in + B clay loam
water moving (subsurface flow) @ 15 inches.

20. Average Soil Texture

- __ Sand
- __ Sandy Loam
- X Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- X Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- __ Moderately Well Drained
- X Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments:

Looks like early succession | Spruce Fir or, more likely Red Spruce / NH

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree	1	
T2 Tree Canopy	15 m	80
T3 Tree Sub-canopy	5-10m	30
S1 Tall Shrub	1-5m	60
S2 Short Shrub	<1m	10
H Herbaceous	<1m	30
N Non-vascular	<1	5
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H	
Betul papy	5	Aster acum	1
Betul > alleg	2	Dryo inte	2
Acer sacc	1	Cystis gbens	2
		Lycop dend	1
		N	
T3		Dicranum spp.	1
Picea rubens	2		
Fagus grand	1		
Acer sacc	2		
Acer pens	1		
S1			
Acer rubr	2		
Picea rubens	2		
Acer pens	2		
Fagus grand	1		
Vibur lant	1		
S2			
Acer rubr	2		
Picea rubens	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

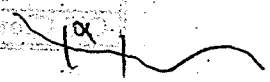
1. Community name (SNAME): NH
2. Polygon Code: Bw/By
3. Plot Number: CA42
4. Quad name(s): Bolton
5. Survey site name: woodland hill
6. Quarter Quad Number: 124208
7. Aerial Photo Number: 4201-133
7. County name(s):
8. Town:
9. Location: UTM 673673E 4917203N Saved as WP 61
north of rock outcrop on woodland mtn
10. Survey date: 10.11.94
11. State: VT
12. Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation
16. Slope Degrees 5-20°
17. Slope Aspect S
18. Parent Material: till

19. Soil Profile Description:

1 in 6 horizon
1-3 in A dark loam or silt loam
soil depth ≈ 3-4 in.

20. Average Soil Texture

- __ Sand
- __ Sandy Loam
- X Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1 cm)
- ___ % Water
- ___ % Other ___

24. Environmental Comments:

Not Bw/By. Fairly exposed site. Trees ± short & some damaged. Fairly open canopy in places. Soil shallow. There is a NH w/ a lot of Bw & By nearby. Point saved as WP 62. See CA44

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 65 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15 m	65
T3 Tree Sub-canopy	10	20
S1 Tall Shrub	1-5 m	10%
S2 Short Shrub	1 m	7%
H Herbaceous	1 m	25%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

		H	
T2		Dryo inter	2
Acer Sacc	3		
Betula alleg	2		
Frax amer	2		
Prunus serotina	2		
T3			
Betula alleg	2		
Acer Sacc	2		
S1			
Fagus grand	2		
Prun sero	1		
Acer pens	2		
S2			
Rubus idaeus	2		
Betula alleg	2		
V. bur lant	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

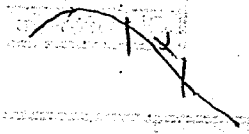
1. Community name (SNAME): NH
2. Polygon Code: By
3. Plot Number: CA 42
4. Quad name(s): Belvidere Mtn
5. Survey site name: Woodward Mtn
6. Quarter Quad Number: 121204
7. Aerial Photo Number: 4201-133
7. County name(s): Wash.
8. Town: Waterbury
9. Location: Saved as WP 60. UTM 673569 E 4916697 N
south of rock outcrop
10. Survey date: 10.11.99
11. State: VT
12. Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ Backslope
- X High Slope
- __ Step in Slope
- __ High Level
- __ Lowslope
- __ Midslope
- __ Toeslope
- __ Low Level
- __ Channel Wall
- __ Other
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 2000'
16. Slope Degrees 20
17. Slope Aspect SE
18. Parent Material: till

19. Soil Profile Description:

1½in O layer
1½-5½ A dark loam over rock
depth to 7 or 8 inches in places

20. Average Soil Texture

- __ Sand
- __ Clay Loam
- __ Sandy Loam
- __ Clay
- X Loam
- __ Peat
- __ Silt Loam
- __ Muck
- __ Other

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments:

Mapped as By but very little yellow birch (none in canopy) Should be mapped w/ NH that surrounds it. GPS location UTM is correct

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 75 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	75
T3 Tree Sub-canopy	5-10m	35
S1 Tall Shrub	2-5m	20
S2 Short Shrub		20
H Herbaceous	4m	20%
N Non-vascular		5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		
Fagus grand	3	
Acer sacc	4	
Frax amer	1	
T3		
Acer sacc	2	
Betu alleg	2	
Fagus grand	2	
Acer pens	1	
S1		
Fagus grand	2	
Betu alleg	2	
H		
Dryo inter	2	
Aster acum	1	
N		
Dicranum scoparium	1	
Brachythecium sp	1	

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

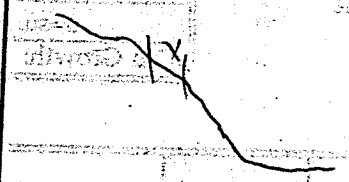
1. Community name (SNAME): Boreal Outcrop
2. Polygon Code: Ledge 3. Plot Number: CA41 4. Quad name(s): Bolton Mtn
5 Survey site name: Woodward Mtn
6. Quarter Quad Number: 124208 7. Aerial Photo Number: 4201-183
7.County name(s): Wash. 8.Town: Waterbury
9.Location: Rock ledge on Woodward Mtn UTM 673510 E 4916885 N
Saved as WP 59
10.Survey date: 10.11.99 11.State: VT 12.Surveyors MUS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
X High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation 2100'
16. Slope Degrees 40°
17. Slope Aspect S
18. Parent Material: bedrock

19. Soil Profile Description:

shallow pockets
usually <5cm
mostly organic

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

X Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

10 % Bedrock
__ % Large Rocks (>10cm)
__ % Small rocks (<10cm)
__ % Sand
__ % Bare soil
__ % Litter, duff
__ % Wood (> 1 cm)
__ % Water
__ % Other

24. Environmental Comments:

Beautiful site!

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 25 %

	Height	% Cover
T1 Emergent Tree	16-18m	5
T2 Tree Canopy	2-5m	20%
T3 Tree Sub-canopy		
S1 ~~Tall Shrub~~ Dwarf	~~5-6m~~ <2.5m	7%
S2 Short Shrub	.5-2m	10%
H Herbaceous	<1m	7%
N Non-vascular	<1.5m	10%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T1		H	
		Dant spic	2
Pice rubens	1		
Pinus strobus	1		
T2			
Quercus rubra	2		
Acer rubrum	1		
Pin mus	1		
Betula popy	2	N	
Sorbus amer	2	Poly jun	2
		Cladonia spp	2
S2			
Sorbus amer	2		
Betula popy	2		
Rubus allegh	1		
S3			
Vacc angu	2		
Vacc myrt	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

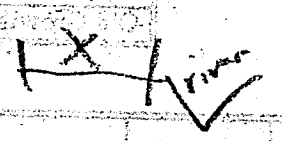
1. Community name (SNAME): Riverside Sand & Gravel Shore
2. Polygon Code: none
3. Plot Number: CA39
4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. Quarter Quad Number: 28 2 2
7. Aerial Photo Number: 4201-131
7. County name(s): Wash
8. Town: Waterbury
9. Location: UTM 678476 E 4920680 N e mouth of Cotton Brook saved as WP 56
10. Survey date: 10.5.99
11. State: VT
12. Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- __ Midslope
- __ Low Level
- X Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 600'
16. Slope Degrees —
17. Slope Aspect —
18. Parent Material:

19. Soil Profile Description:

Sand, gravel & cobble

20. Average Soil Texture

- X Sand
- __ Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- 20 % Large Rocks (>10cm)
- 60 % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (>1 cm)
- ___ % Water
- ___ % Other ___

24. Environmental Comments:

Sparsely vegetated riverside community adjacent to river & alder swamp (on -plant edge)

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover _____%

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy		
T3 Tree Sub-canopy		
S1 Tall Shrub		
S2 Short Shrub	<1m	3%
H Herbaceous	<1m	3%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 1
How was size determined? est
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
(2)=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

S2	
Populus balsamifera	+
Salix nigra	+
H	
Tussilago farfara	1
Cirsium arvense	+
Solidago spp	1
Conyza canadensis	1

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

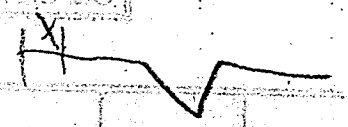
1. Community name (SNAME): Alluvial Shrub Swamp
2. Polygon Code: All. Sh. Swamp. 3. Plot Number: CA 35 4. Quad name(s): Bolton Mtn.
5 Survey site name: Cotton Brook
6. Quarter Quad Number: 128212 7. Aerial Photo Number: 4201 - 131
7.County name(s): Wash 8.Town: Waterbury
9.Location: UTM 678703 E 4920657 N stored as WP 55
e Math of cotton brook + Wat. Res.
10.Survey date: 10.5.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- __ Midslope
- X Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation ____

16. Slope Degrees —

17. Slope Aspect —

18. Parent Material:

19. Soil Profile Description:

little profile development
Sandy loam to at least 20 inches
some rocks.
no mottles!?

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage ?

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments:

Shrub swamp on NE side of river only. Many openings in alder canopy.
? intermittently flooded

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 20 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15 M	20
T3 Tree Sub-canopy		
S1 Tall Shrub	2-4 m	60%
S2 Short Shrub		50%
H Herbaceous	<1	40%
N Non-vascular		
E Epiphyte		
V Vine/liana		15-20%

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2	
Salix nigra	1
Popu balis	2
S1	
Alnus incana	4
Loni morr.	1
H	
Soli cana	2
Carex spp	2
Onoc sens	2
Urtica pracera	1
V	
Poly scandens	2
Clem virg	2
Vitis riparia	1

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

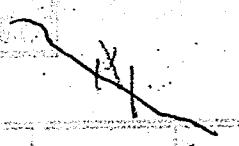
1. Community name (SNAME): Yellow Birch - S. Maple - R. Spruce Forest
2. Polygon Code: By-Ms-Sr 3. Plot Number: CA33 4. Quad name(s): Mt. Mans
5 Survey site name: Daniels Notch
6. Quarter Quad Number: _____ 7. Aerial Photo Number: 4201-150
7.County name(s): Lamoille 8.Town: Cambridge
9.Location: UTM 678827 E 4940013 N
10.Survey date: 9.23.99 11.State: VT 12.Surveyors MLS, D Wilcox

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
X Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation 2480'
16. Slope Degrees 15°
17. Slope Aspect W
18. Parent Material: till

19. Soil Profile Description:

1 in O layer
1+ 4 in dark A silt loam
4-6 in some places an E horz.
4+ red B silt loam
not very rocky

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
__ Loam __ Peat
X Silt Loam __ Muck
__ Other _____

21. Stoniness:

X Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
X Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
5 % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments: Some (but not much) spruce.
Small E horizon may suggest it ~~was~~ had more spruce & fir in the past?

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	20m	80
T3 Tree Sub-canopy		
S1 Tall Shrub	1-5 m	40
S2 Short Shrub	<1	30
H Herbaceous	<1	20
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 100
How was size determined?
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

T2			
Betul alleg	3		
Acer sacc	3		
Betul papy	3		
Picea rubens	1		
S1			
Acer pens	2		
Acer sacc	1		
Betul alleg	1		
Abies balf	2		
Picea rubens	2		
Acer spic	2		
S2			
Viburn lant	2		
Acer spic	2		
H			
Dryo inte	2		
Carex spp	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

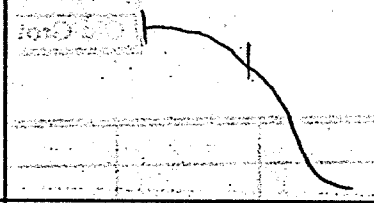
1. Community name (SNAME): Birch - Spruce-Fir Forest (w beech instead of hard bud)
2. Polygon Code: Sr-Fb 3. Plot Number: CA32 4. Quad name(s): Mt Mans.
5 Survey site name: Daniels Notch
6. Quarter Quad Number: _____ 7. Aerial Photo Number: 4701-150
7.County name(s): Lamille 8.Town: Cambridge
9.Location: UTM 671818E 4939855N
10.Survey date: 9.23.99 11.State: VT 12.Surveyors MLS D. Wilcox

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ Backslope
- X High Slope
- __ Step in Slope
- __ High Level
- __ Lowslope
- __ Midslope
- __ Toeslope
- __ Low Level
- __ Channel Wall
- __ Other
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 2860'
variable 5-30°
16. Slope Degrees ___
17. Slope Aspect N
18. Parent Material: till

19. Soil Profile Description:

1in O
1-2 A dark silt loam high om.
2-4 E light. fine sandy loam
4+ B red coarse clay loam
depth to at least 18in to hardpan

20. Average Soil Texture

- __ Sand
- __ Clay Loam
- __ Sandy Loam
- __ Clay
- __ Loam
- __ Peat
- __ Silt Loam
- __ Muck
- __ Other _____

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- X Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- __ Moderately Well Drained
- X Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1cm)
- ___ % Water
- ___ % Other _____

24. Environmental Comments:

some wet spots. Like Hard bud succ. variant but w/ Paper birch.

25. Plot representativeness: good

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	8-12m	70
T3 Tree Sub-canopy	5-8m	40
S1 Tall Shrub		
S2 Short Shrub	<2m	15
H Herbaceous	<1m	30
N Non-vascular	<1	5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 12
How was size determined? est
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

		V	
T2			
Betul p-py	3	Hupmus	1
Abies balsa	3	Dicranum	+
Sorb amer	2	Polytrichum	+
T3			
Abies b-ls	3		
Picea rubs	2		
Sorbus amer	2		
S2			
Visb lent	2		
H			
Dryo camp	2		
Oxalis acet	2		
Clint borea	1		
Cant groen	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

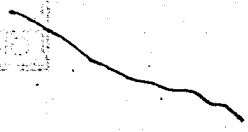
1. Community name (SNAME): NH
2. Polygon Code: By-Ms-Sr 3. Plot Number: CA31 4. Quad name(s): Mt. Mans
5 Survey site name: Daniels Notch
6. Quarter Quad Number: _____ 7. Aerial Photo Number: 4201-150
7.County name(s): Lamoille 8.Town: Cambridge
9.Location: _____
10.Survey date: 9.23.99 11.State: VT 12.Surveyors MLS, D. Wilcox

B. Environmental Description

13. Topographic Position

__ Interfluve	__ Backslope
__ High Slope	__ Step in Slope
__ High Level	__ Lowslope
X Midslope	__ Toeslope
__ Low Level	__ Channel Wall
__ Other	__ Basin Floor

14. Topographic Sketch:



15. Elevation 2200

16. Slope Degrees 20°

17. Slope Aspect N

18. Parent Material: Till

19. Soil Profile Description:

1 in O duff

5 in A sandy loam

6+ B sandy loam

about 15 in deep to rock

very rocky.

20. Average Soil Texture

__ Sand	__ Clay Loam
X Sandy Loam	__ Clay
__ Loam	__ Peat
__ Silt Loam	__ Muck
__ Other _____	

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
X Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:

on upper elev limit of type? Mapped as variant of Yellow Birch-Red Spruce forest but very little spruce? Could go either way. But looks like a standard NH; all trees fairly short.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 95 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20	70
T3 Tree Sub-canopy	5-10 m	50
S1 Tall Shrub	1-5	15
S2 Short Shrub	<1	20
H Herbaceous	<1	40
N Non-vascular	<1	2%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 507
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

		N
T2		Brachythecium sp
Acer saccharum	3	on logs only
Betula alleg	3	
Fagus grand	2	
T3		
Betula alleg	3	
Fagus grand	3	
Acer pens	2	
S1		
Fagus grand	2	
Acer pens	2	
Viburnum lant	2	
S2		
Viburnum lant	2	
Fagus grand	2	
H		
Dryopteris intermedia	3	
Lycopodium lucidulum	2	
Streptopus roseus	1	

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

?

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

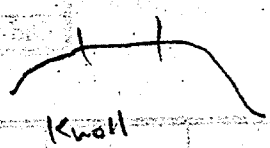
1. Community name (SNAME): Montane Spruce - Fir Forest
2. Polygon Code: Sr - Fb 3. Plot Number: CA 30 4. Quad name(s): Mt. Mans
5 Survey site name: Daniels Notch
6. Quarter Quad Number: _____ 7. Aerial Photo Number: 4201-150
7.County name(s): Lamoille 8.Town: Cambridge
9.Location: UTM 678740 E 4940559 N
cp in Notch just off trail
10.Survey date: 7.23.99 11.State: VT 12.Surveyors MLS ; D. Wilcox

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation_____
16. Slope Degrees 12°
17. Slope Aspect S
18. Parent Material: till

19. Soil Profile Description:

3 in undecomposed organic over 10 in black peat over rock

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
__ Loam ☒ Peat
__ Silt Loam __ Muck
__ Other_____

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
☒ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
75 % Litter, duff
20 % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments: a lot of blow down. very dense understory. very sparse herb

25. Plot representativeness: good

C. Vegetation Description

Total Tree Cover 90 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15m	55%
T3 Tree Sub-canopy	3-10	30%
S1 Tall Shrub		
S2 Short Shrub	<2m	20%
H Herbaceous		
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): ~3
How was size determined? est
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (~~>180 years, generally~~)

Dominant Species in each strata

T2			
Abies bals	3		
Picea rubra	3		
Rhus glabra	3		
T3			
Abies bals	3		
Picea rubra	2		
S2			
Picea rubens	2		
H			

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

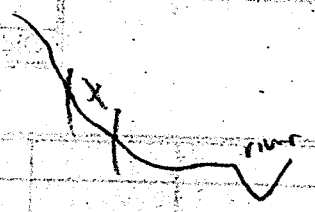
1. Community name (SNAME): He / NH
2. Polygon Code: He / NH
3. Plot Number: CA 28
4. Quad name(s): _____
5. Survey site name: Cotton Brook
6. Quarter Quad Number: _____
7. Aerial Photo Number: 4201-131
7. County name(s): Wash
8. Town: Waterbury
9. Location: UTM 679315 E 4921830 N
10. Survey date: 10.5.99
11. State: VT
12. Surveyors MCS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation apx 720'

16. Slope Degrees 28°

17. Slope Aspect SE

18. Parent Material:

19. Soil Profile Description:

0-5 in A dark fine sandy loam

5+ in B light brown fine sandy loam w/ mottles many rocks

soil depth to ~20 in

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other _____
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- 8 % Wood (> 1 cm)
- ____ % Water
- ____ % Other _____

24. Environmental Comments:

some seepage areas / creeks. 8% coarse woody debris

40:60 deciduous: conifer % cover

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 85 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	80
T3 Tree Sub-canopy	10-15m	15%
S1 Tall Shrub		
S2 Short Shrub	<2m	10%
H Herbaceous	<1m	30%
N Non-vascular	<1m	5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 5

How was size determined? est

Current Condition of Community (check one):

- 1=great, no signs of anthropogenic disturbance, no exotics, etc.
- (2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
- 3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.

Landscape Quality (check one):

- 1=surrounded by 1,000+ acres of intact matrix of natural communities
- (2)=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
- 3=surrounded by fragmented forest, agricultural land or rural development
- 4=surrounding area intensely developed

Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		N	
Tsuga canad	4	Dcran spp	
Betul allegh	3	Thuidium spp	
Acer rubr	2		
Picea rubens	2		
Frax amer	+		
T3			
Acer sacc	2		
Fagu grand	2		
Tsuga cana	2		
S2			
Picea rbns	2		
Fagus grand	2		
Tsuga cana	2		
H			
Osmu cinn	1		
Dryo inte	2		
Thel nove	+		
Poly acro	1		

Cover Scale	
r	< 1% rare
+	< 1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

1. Community name (SNAME): Alluvial Shrub Swamp (in part)
2. Polygon Code: All. Sh. Swamp 3. Plot Number: CA 27 4. Quad name(s): Stowe
5. Survey site name: Cotton Brook Road
6. Quarter Quad Number: 132216 7. Aerial Photo Number: 4201-131
7. County name(s): Wash 8. Town: Waterbury
9. Location: UTM 679713 E 4922345 along river @ Cotton Brook Gate.
10. Survey date: 10.5.99 11. State: VT 12. Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve	__ Backslope
__ High Slope	__ Step in Slope
__ High Level	__ Lowslope
__ Midslope	__ Toeslope
X Low Level	__ Channel Wall
__ Other	__ Basin Floor

14. Topographic Sketch:

15. Elevation 600'
16. Slope Degrees —
17. Slope Aspect —
18. Parent Material:

19. Soil Profile Description:

very fine sandy loam.
mottled
2½ feet
over coarser sandy loam
intermittently flooded?

20. Average Soil Texture

__ Sand	__ Clay Loam
X Sandy Loam	__ Clay
__ Loam	__ Peat
__ Silt Loam	__ Muck
__ Other	

21. Stoniness:

X Stone Free < 0.1%	
__ Moderately stony 0.1-1%	
__ Stony 3-15%	
__ Very Stony 15-50%	
__ Exceedingly stony 50-90%	
__ Stone piles >90%	

22. Soil Drainage

__ Rapidly Drained	
__ Well Drained	
__ Moderately Well Drained	
X Somewhat Poorly Drained	
__ Poorly Drained	
__ Very Poorly Drained	

23. Unvegetated Surface:

___ % Bedrock	
___ % Large Rocks (>10cm)	
___ % Small rocks (<10cm)	
___ % Sand	
___ % Bare soil	
___ % Litter, duff	
___ % Wood (> 1 cm)	
___ % Water	
___ % Other ___	

24. Environmental Comments:

Some areas clearly Alluvial Shrub Swamp. Some areas (further away from river but in polygon) drier - mostly Crataegus, Rubus etc.) Data taken in Shrub swamp.

25. Plot representativeness:

C. Vegetation Description

Shrub
Total Tree Cover 40 %

	Height	% Cover
T1 Emergent Tree	10-15m	5
T2 Tree Canopy		
T3 Tree Sub-canopy		
S1 Tall Shrub	2-5m	40%
S2 Short Shrub		
H Herbaceous	<1m	100%
N Non-vascular		
E Epiphyte		5%
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
(3)=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
(3)=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T1		
Pinu stro	+	
Betu papy	+	
S1		
Alnu rugo	3	
Salix nigra	3	
H		
Phal arun	4	
Cypa macu	2	
Poly sagi	2	
Onoc sens	1	
V		
Clem virg	1	
V. vis ripar		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

2

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

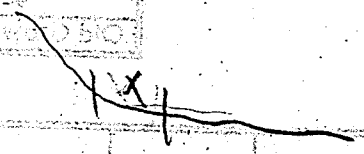
1. Community name (SNAME): Early Successional
2. Polygon Code: Pio Hdwd 3. Plot Number: CA 26 4. Quad name(s): Stowe
5 Survey site name: Moscow
6. Quarter Quad Number: 132216 Lwaffill 7. Aerial Photo Number: 4201 131
7.County name(s): 8.Town:
9.Location: UTM 679711E 4923110N
10.Survey date: 10.5.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve
__ High Slope
__ High Level
__ Midslope
__ Low Level
__ Other
__ Backslope
__ Step in Slope
__ Lowslope
X Toeslope
__ Channel Wall
__ Basin Floor

14. Topographic Sketch:



15. Elevation 640'
16. Slope Degrees 2
17. Slope Aspect S
18. Parent Material: Till

19. Soil Profile Description:

1/4 in O layer
very thin A
1/4 in t B layer
fine sandy loam
depth > 20 in

20. Average Soil Texture

__ Sand
X Sandy Loam
__ Loam
__ Silt Loam
__ Other
__ Clay Loam
__ Clay
__ Peat
__ Muck

21. Stoniness:

X Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

___ % Bedrock
___ % Large Rocks (>10cm)
___ % Small rocks (<10cm)
___ % Sand
___ % Bare soil
___ % Litter, duff
___ % Wood (> 1 cm)
___ % Water
___ % Other ___

24. Environmental Comments:

Recently disturbed (? logged?) ? 30+ yrs ago. Veg. very variable. Some patches of birch, some "old field" type veg, & some young pine/hardwood poles.
Early successional type. Probably going to Red Spruce/NH ?

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 40 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15m	40%
T3 Tree Sub-canopy		
S1 Tall Shrub		
S2 Short Shrub	<2m	20%
H Herbaceous	<1m	20%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
(3)=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
(3)=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

T2	
Acer rubr	2
Fagus grand	1
Pinus str.	1
Popu gr trem	1
Bet. alleg	1
S2	
Rubus allegh	2
Spir alba d	1
Fagus grand	1
Lonic morr.	+
H	
Solidago canan	2
Aster cumbel	1
Fragaria sp	1

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

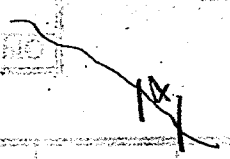
1. Community name (SNAME): Red Spruce / NH
2. Polygon Code: SR 3. Plot Number: CA 25 4. Quad name(s): Stowe
5 Survey site name: Moscow
6. Quarter Quad Number: 132216 Lucas Hill 7. Aerial Photo Number: 4201-131
7.County name(s): 8.Town: Moscow?
9.Location: UTM 679969 E 4923960 N
10.Survey date: 10. 5. 99 11.State: VT 12.Surveyors MS

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- __ Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- X Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 660'
16. Slope Degrees 5°
17. Slope Aspect S
18. Parent Material: Till

19. Soil Profile Description:

1½in O layer
1½+2½ A dark loam
2½+ B light colored loam
depth > 20 inches

20. Average Soil Texture

- __ Sand
- __ Sandy Loam
- X Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1 cm)
- ___ % Water
- ___ % Other

24. Environmental Comments:

Spruce forest mixed w/ white pine & hardwoods. Probably 50:50 hardwood : spruce cover. Perhaps more like Red Spruce / NH Forest.

25. Plot representativeness: good.

C. Vegetation Description

Total Tree Cover 70 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	20m	70%
T3 Tree Sub-canopy	10m	15%
S1 Tall Shrub	2-5m	20%
S2 Short Shrub	<2m	10%
H Herbaceous	<1m	70%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 4
How was size determined? est.
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
(3)=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

			14	
T2			Dacrs pinet	2
Pinus strob	2		Dryo inte	2
Picea rubens	3		Osmu sinu	1
Acer spec	2		Lyco lucu	1
Betu papy	2			
T3				
Acer spec	2			
Fagus grand	1			
Tsug cana	1			
S1				
Fagus grand	1			
Picea rube	1			
Acer pens	1			
Betu alleg	1			
S2				
Picea rubens	2			
Fagus grand	1			

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

?

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

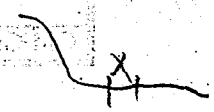
1. Community name (SNAME): NH (yellow birch forest)
2. Polygon Code: BW
3. Plot Number: CAL4
4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. Quarter Quad Number: 124212
7. Aerial Photo Number: 4201-131
7. County name(s): Lamoille
8. Town: Waterbury
9. Location: 673273 E 4922472 N
10. Survey date: 9.14.99
11. State: VT
12. Surveyors MSL ES

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- __ Midslope
- __ Low Level
- __ Other
- __ Backslope
- X Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 2100'
16. Slope Degrees 3°
17. Slope Aspect NE
18. Parent Material:

19. Soil Profile Description:

5 cm O
6-11 cm A
11-20 B med. sandy loam
20-25 buried organic
25-50 silt loam
50 cm to rock
mottling abundant

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- X Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- __ Moderately Well Drained
- X Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments:

Many seepage areas

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 75 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	70 %
T3 Tree Sub-canopy	5-10m	20
S1 Tall Shrub	2-5	15
S2 Short Shrub	1-5	40
H Herbaceous	<1	40
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

		H	
T2		Dryo inte	2
Betula alleg	4	Clint borea	1
Betula popy	2	Aster acum	1
Acer sacc	2	Oxalis acet	1
		Gaya meli	2
T3			
Betula popy	2		
Abies bals	1		
Betula alleg	2		
Acer penny	2		
Fagus grand	1		
S1			
Acer sacc	1		
Vibu lant	2		
Acer penn	1		
Picea rubens	2		
S2			
Vibu lant	3		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

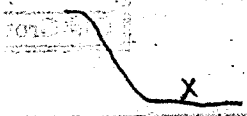
1. Community name (SNAME): Yellow Birch - Sugar Maple - Red Spruce (Variant of Montane YB-RS Ecot
2. Polygon Code: BY/NH 3. Plot Number: CA23 4. Quad name(s): Bolton Mtn
5 Survey site name: Cotton Brook
6. Quarter Quad Number: 124212 7. Aerial Photo Number: 4201-131
7.County name(s): ~~Chit~~ Wash 8.Town: Waterbury
9.Location: 672905 E 4922598 N
10.Survey date: 9.14.99 11.State: VT 12.Surveyors MLS ES

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope X Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



head of Cotton Brook

15. Elevation 2200'
16. Slope Degrees 3°
17. Slope Aspect S
18. Parent Material: till

19. Soil Profile Description:

Sec O
5-10 cm A fine sandy loam
11-60 B light loamy loam

20. Average Soil Texture

__ Sand __ Clay Loam
X Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other _____

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
X Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:

some wet seepage areas

little space for hype

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 90 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15m	85%
T3 Tree Sub-canopy	7-12m	20
S1 Tall Shrub	2-5m	30
S2 Short Shrub	1.5-2m	50
H Herbaceous	<1	60
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H	
Betula alleg	4	Diyo canp	3
Acer sacc	2	Clint bore	1
Betula papy	2	Oxal acet	2
		Astir acum	1
T3			
Acer pens	1		
Picea rubens	1		
Betula papy	2		
Abies balsJ	1		
S1			
Acer sacc	2		
Picea rubens	2		
Fagus grand	1		
Acer pens	2		
S2			
Viburn land	3		
Acer pens	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

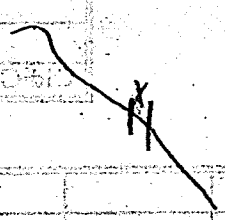
1. Community name (SNAME): Montane Yellow Birch / Red Spruce Forest
2. Polygon Code: By/Sr 3. Plot Number: CA22 4. Quad name(s): Bolton Mtn
5 Survey site name:
6. Quarter Quad Number: 124 D12 7. Aerial Photo Number: 42a 13
7.County name(s): Chittenden 8.Town: Bolton
9.Location: 672526 E 4922718 N
10.Survey date: 9.14.99 11.State: VT 12.Surveyors MLS ES

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ Backslope
- X High Slope
- __ Step in Slope
- __ High Level
- __ Lowslope
- __ Midslope
- __ Toeslope
- __ Low Level
- __ Channel Wall
- __ Other
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 2400'
16. Slope Degrees 40°
17. Slope Aspect E
18. Parent Material: till

19. Soil Profile Description:

5 cm O

5-10 cm A

10-30 cm B dark

over rock

fine sandy loam

no E horz

20. Average Soil Texture

- __ Sand
- __ Clay Loam
- X Sandy Loam
- __ Clay
- __ Loam
- __ Peat
- __ Silt Loam
- __ Muck
- __ Other

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- X Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments:

ice damage. Wind throw may also be a regular part of the disturbance regime. Steep slope.

25. Plot representativeness: good

C. Vegetation Description

Total Tree Cover 30 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15 m	30
T3 Tree Sub-canopy	2-8	10
S1 Tall Shrub		5
S2 Short Shrub	1-2	40
H Herbaceous		20
N Non-vascular		15
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H	
Betula alleg	2	Aster acum	+
Betula popg	2	Lyco luci	1
Picea rubens	2	Drya int	2
Abies bals	2	Cornus canu	1
Acer rubr	+	N	
T3		Sphag girg	1
Abies bals	2	Leucobryum glaucum	1
Picea rubens	2	Hypnum sp	1
Betula alleg	+	Dicranum scop	1
S1			
Picea rubr			
Abies bal			
S2			
Picea rubens	2		
Abies bals	3		
Acer pens	+		
Sorbus amer	+		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

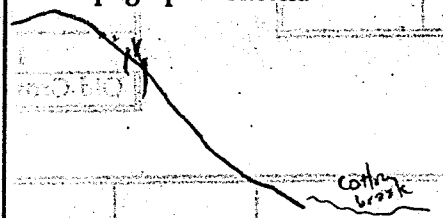
1. Community name (SNAME): Montane Spruce Fir Forest
2. Polygon Code: SF/BW 3. Plot Number: CA21 4. Quad name(s): Bolton Mtn.
5 Survey site name: Cotton Brook
6. Quarter Quad Number: 124212 7. Aerial Photo Number: 4201-131
7.County name(s): 8.Town:
9.Location: 672299 E 4922651 N
10.Survey date: 9.14.94 11.State: VT 12.Surveyors MCS ES

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- X High Level
- __ Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 2920'

16. Slope Degrees 32°

17. Slope Aspect SE

18. Parent Material: till

19. Soil Profile Description:

10 cm O

A

5-10 cm of fine Sandy loam

thin E sometimes present

15-20 cm to rock

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- X Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments:

25. Plot representativeness: some areas w/ less shrub/subcanopy larger. & larger canopy trees

C. Vegetation Description

Total Tree Cover 70 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15	70
T3 Tree Sub-canopy	5-10m	20
S1 Tall Shrub	1.5-3	60
S2 Short Shrub	<1.5	40
H Herbaceous	<1	30
N Non-vascular	<1	15
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		N	
Abies bals	2	Hypnum	2
Betula papy	3	Dicranum sp.	1
Sorbus amer	2		
T3			
Abies bals	2		
Sorbus amer	2		
S1			
Abies bals	3		
Picea rubens	2		
Acer spic	1		
Viburnum	1		
S2			
Viburnum	2		
Acer spic	2		
Abies bals	1		
H			
Clint bore	2		
Dryo intr	2		
Coptis groen	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

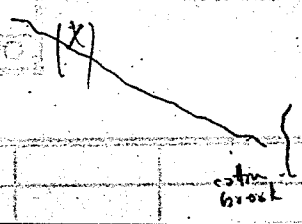
1. Community name (SNAME): Montane F-B, Maple/Spruce
2. Polygon Code: By/Sr 3. Plot Number: CA 20 4. Quad name(s): Bolton Mtn
5 Survey site name: Cotton Brook
6. Quarter Quad Number: 12 42 12 7. Aerial Photo Number: 4201 131
7.County name(s): Chittenden 8.Town: Bolton
9.Location: 673204 E 4922135 N
10.Survey date: 9.14.99 11.State: VT 12.Surveyors MCS ES

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ Backslope
- X High Slope
- __ Step in Slope
- __ High Level
- __ Lowslope
- __ Midslope
- __ Toeslope
- __ Low Level
- __ Channel Wall
- __ Other
- __ Basin Floor

14. Topographic Sketch:



15. Elevation 2500
16. Slope Degrees 25°
17. Slope Aspect N
18. Parent Material: Till

19. Soil Profile Description:

5 cm A
6-60 to Rock B dark brown
fine sandy loam
w/ gravel

20. Average Soil Texture

- __ Sand
- __ Clay Loam
- X Sandy Loam
- __ Clay
- __ Loam
- __ Peat
- __ Silt Loam
- __ Muck
- __ Other

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other ____

24. Environmental Comments: Ice storm damage

25. Plot representativeness: good, very little spruce for type.

C. Vegetation Description

Total Tree Cover 60 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15m	50
T3 Tree Sub-canopy	5-10m	20
S1 Tall Shrub	1-2m	30
S2 Short Shrub	<1m	30 40
H Herbaceous	<1m	40
N Non-vascular	<1m	80
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
(1)=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
(2)=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

T2		N	
Betul alleg	3	Hypnum sp	1
Acer sacc	2	Bly of long	+
Betula papy	2	Bazz tril	+
Prunus rubens	1		
T3			
Acer sacc	2		
Betula papy	1		
Acer spens?	1		
S1			
Vibu ~~alt~~ lant	2		
Acer sacc	1		
Acer pens	1		
S2			
Acer spic	3		
Vibu lant	2		
H			
Dryo inte	3		
Clintonia borealis	2		
Oxalis acet	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

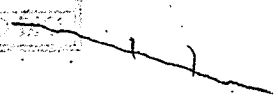
1. Community name (SNAME): NH
2. Polygon Code: NH 3. Plot Number: CA 19 4. Quad name(s): Bolton Mt.
5. Survey site name: Cotton Brook
6. Quarter Quad Number: 124212 7. Aerial Photo Number: 4201-131
7. County name(s): 8. Town:
9. Location: UTM 674496 E 4922232 N
10. Survey date: 9.14.99 11. State: VT 12. Surveyors MCS ES

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level X Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation 1600
16. Slope Degrees 5°
17. Slope Aspect NE
18. Parent Material:

19. Soil Profile Description:

20cm A

21-50cm to rock

fine sandy loam

mottling

20. Average Soil Texture

__ Sand __ Clay Loam
X Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
X Moderately Well Drained
X Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other

24. Environmental Comments: Younger forest, evidence of logging

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 95 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15 m	90
T3 Tree Sub-canopy	5-10	40
S1 Tall Shrub		
S2 Short Shrub	<1m	10
H Herbaceous	<1	5
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
loggy (3)=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
(2)=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/(No) (>180 years, generally)

Dominant Species in each strata

T1			
Fagus grand	4		
Acer Sacc	3		
Bet alle	3		
T3			
Fagus grand	2		
Prun pens	+		
Acer Sacc	2		
Acer pens	2		
S2			
Acer Sacc	2		
Frax amer	+		
H			
Aster acum	+		
Dryo int	+		
Thel nove	+		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

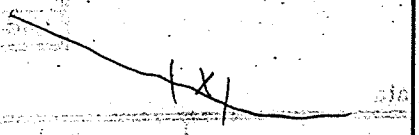
1. Community name (SNAME): NH
2. Polygon Code: MH 3. Plot Number: CA 18 4. Quad name(s): Bolton Mtn
5 Survey site name: Rocky Block Cmpt 1
6. Quarter Quad Number: ? * 7. Aerial Photo Number:
7.County name(s): Washington 8.Town: Waterbury
9.Location: up cmpt. 1 road. Enriched NH stand #19
10.Survey date: 9.8.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
X Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation
16. Slope Degrees 5°
17. Slope Aspect NE
18. Parent Material:

19. Soil Profile Description:

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
X Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other

24. Environmental Comments:

25. Plot representativeness: on stand mapped as enriched NH. There is a lot of nice ash but no herbaceous indicators of rich conditions.

* Not mapped yet

C. Vegetation Description

Total Tree Cover 90 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	90%
T3 Tree Sub-canopy	5-10m	15%
S1 Tall Shrub	1-3m	50%
S2 Short Shrub	.25-1m	20%
H Herbaceous		10%
N Non-vascular		2%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T1				
Fraxinus	4			
Acer saccharum	3			
Betula allegh	2			
T2				
Acer saccharum	2			
Fagus grandifolia	2			
S1				
Fagus grandifolia	3			
Viburnum lantanoides	2			
Acer pensylvanicum	2			
S2				
Acer saccharum	2			
Acer pensylvanicum	2			
Fagus grandifolia	1			
H			Cover Scale	
Dryopteris intermedia	2		r	<1% rare
			+	<1% occs
N			1	1-5 %
Dicranum scoparium			2	5-25 %
Dicranum flagellare			3	26-50 %
			4	51-75 %
			5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

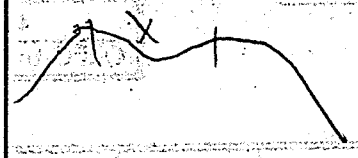
1. Community name (SNAME): SP, Birch
2. Polygon Code: Si-Fb 3. Plot Number: CA16 4. Quad name(s): _____
5 Survey site name: _____
6. Quarter Quad Number: Daniels Notch 7. Aerial Photo Number: 4201-150
7.County name(s): Lamoille 8.Town: Johnson
9.Location: French Hill Block File R101815A
10.Survey date: 10.18.99 11.State: VT 12.Surveyors MLS, D. Wilcox, D. Fredrick

B. Environmental Description

13. Topographic Position

X Interfluve	__ Backslope
__ High Slope	__ Step in Slope
__ High Level	__ Lowslope
__ Midslope	__ Toeslope
__ Low Level	__ Channel Wall
__ Other	__ Basin Floor

14. Topographic Sketch:



15. Elevation _____
16. Slope Degrees 5-20°
17. Slope Aspect var.
18. Parent Material: till

19. Soil Profile Description:

1 in O layer
1-4½ A dark clay loam
4½-? B grey, mottled many, distinct, mottles. some rocks
dense hardpan @ 15in.

20. Average Soil Texture

__ Sand	__ Clay Loam
__ Sandy Loam	__ Clay
__ Loam	__ Peat
__ Silt Loam	__ Muck
__ Other _____	

21. Stoniness:
__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage
__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:
____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare-soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:
Mostly canopy of birch - some spruce & other hardwoods, dense sub-canopy/shrub of spruce & fir
Spruce/Fir Birch (it will be more spruce & fir.)
logged 20-50 yrs. ago

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 95 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	95
T3 Tree Sub-canopy	5-10m	30
S1 Tall Shrub	1-5m	60
S2 Short Shrub	<1m	10
H Herbaceous	<1m	20
N Non-vascular		5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
(1)=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2			
Betula papy	4	H	
Picea rubens	2	Dryo intu.	2
Acer spec	2	Coptis groen	1
Betula alleg	2	Lyco lucid	2
		Oxalis acet	1
T3			
Abies bals		N	
Picea rubens		Dicranum sp.	1
Sorbus amer		Hypnum sp.	1
		Polytrichum sp	1
S1			
Abies bals	3		
Picea rubens	3		
Acer pens	2		
Acer rubrum	2		
Fagus grand	2		
S2			
Acer pens	2		
Viburnum	2		
Betula papy	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

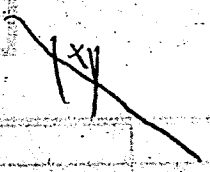
1. Community name (SNAME): NH
2. Polygon Code: Ay-Ms-Sn 3. Plot Number: CA15 4. Quad name(s): _____
5 Survey site name: _____
6. Quarter Quad Number: Dew Notch 7. Aerial Photo Number: 4201-158
7.County name(s): Lamoille 8.Town: Johnson
9.Location: French Hill Block File R101814A
10.Survey date: 10.18.99 11.State: VT 12.Surveyors MWS, D. Wilcox, D. Frederick

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
X Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation _____
16. Slope Degrees 20°
17. Slope Aspect N
18. Parent Material:

19. Soil Profile Description:

1 in O layer
1-5 in. A dark loam
5+ B reddish loam
Soil depth to 2ft or more

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
X Loam __ Peat
__ Silt Loam __ Muck
__ Other _____

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:

very little spruce. Looks more like stands NH forest
& evidence of logging

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15	80
T3 Tree Sub-canopy	5-10	35
S1 Tall Shrub		
S2 Short Shrub	<3m	60
H Herbaceous	<1	20
N Non-vascular	<1	5
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		N	
Acer saccr	4	Dicra scop	2
Fagus grand	2		
Betula alleg	2		
Pinus rubens	1		
Dat popy	2		
T3			
Acer saccr	2		
S2			
Vibur lant	3		
Acer sac	R 2		
Pinus rubens	2		
Fagus grand	2		
H			
Dryo inter	2		
Aster acum	2		
Soli maero	1		
Lyco lucid	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

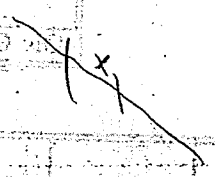
1. Community name (SNAME): w.b.birch-Red Spruce variant & y. Birch-R. Spruce
2. Polygon Code: Sr-By
3. Plot Number: CA14
4. Quad name(s): Mt Mans
5. Survey site name: Slopes of Mt. Mans
6. Quarter-Quad Number: 128224
7. Aerial Photo Number: 4281-129
7. County name(s): Wash.
8. Town: Stowe
9. Location: Fr. Rt 015 15 A #9
10. Survey date: 10.15.99
11. State: VT
12. Surveyors MCS, D. Wilcox

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation ~2950

16. Slope Degrees 25°
17. Slope Aspect NE

18. Parent Material: till

19. Soil Profile Description:

snow

20. Average Soil Texture

- __ Sand
- __ Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- X Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- X Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1 cm)
- ___ % Water
- ___ % Other ___

24. Environmental Comments:

Seems like a W. Birch/Spruce variant of the Y. Birch/Spruce Forest. A few other hardwoods & y. birch but dominated by w. birch.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 75 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-12m	25
T3 Tree Sub-canopy	8-10m	20
S1 Tall Shrub	1-5	25
S2 Short Shrub	<1m	20
H Herbaceous		
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2	
Betula papy	4
Betula alleg	2
Picea rubens	2
Acer saca	2
T3	
Picea rubens	2
Acer rubr	2
S1	
Picea rubens	2
Abies bals	1
Acer spic	2
S2	
Viburn lant	2

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

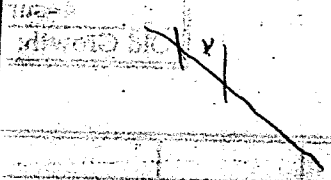
1. Community name (SNAME): Montane Spruce-Fir Forest (Fir Forest)
2. Polygon Code: Sr - Fb - Bw
3. Plot Number: CA13
4. Quad name(s): Mt. Mans
5. Survey site name: Mt. Mans
6. Quarter Quad Number: 128224
7. Aerial Photo Number: 4201-129
7. County name(s): Wash
8. Town: Stowe
9. Location: along ski trails File R1015144 #08
10. Survey date: 10 . 15 . 99
11. State: VT
12. Surveyors MLS, D. Wilcox

B. Environmental Description

13. Topographic Position

__ Interfluve	__ Backslope
X High Slope	__ Step in Slope
__ High Level	__ Lowslope
__ Midslope	__ Toeslope
__ Low Level	__ Channel Wall
__ Other	__ Basin Floor

14. Topographic Sketch:



15. Elevation apx 3150
16. Slope Degrees 20
17. Slope Aspect ____
18. Parent Material: till

19. Soil Profile Description:

snow

20. Average Soil Texture

__ Sand	__ Clay Loam
__ Sandy Loam	__ Clay
__ Loam	__ Peat
__ Silt Loam	__ Muck
__ Other ____	

21. Stoniness:
__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
X Stony 3-15%
X Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
X Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:
____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other ____

24. Environmental Comments:
white birch mostly taller than fir. Mostly fir in canopy - very little spruce.

25. Plot representativeness:

1 m² = 4 cc.

C. Vegetation Description

Total Tree Cover 60 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	5-10m	60
T3 Tree Sub-canopy		
S1 Tall Shrub	1-5m	50%
S2 Short Shrub		
H Herbaceous		
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		
Abies balsamea	4	
Sorbus americana	2	
Betula papyrifera	2	
Picea rubens	2	
S1		
Abies balsamea	3	
Viburnum	1	
H		
?		
snow on ground		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

1. Community name (SNAME): ? Alluvial Shrub Swamp
2. Polygon Code: ? wetland ? 3. Plot Number: CA12 4. Quad name(s): Stowe
5 Survey site name: Waterbury Res.
6. Quarter Quad Number: 132208 7. Aerial Photo Number: 4201-133
7.County name(s): Wash. 8.Town: Waterbury
9.Location: Fil- R1014194 07 adjacent to Waterbury Res.
10.Survey date: 10.14.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other X Basin Floor

14. Topographic Sketch:

15. Elevation ~600'
16. Slope Degrees —
17. Slope Aspect —
18. Parent Material:

19. Soil Profile Description:

light brown clay loam w/ ~10% reddish mottles in upper 6 inches deep (> 2 feet)

20. Average Soil Texture

__ Sand X Clay Loam
__ Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

X Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
X Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other ____

24. Environmental Comments:

? Mostly willow, though some alder present. Does it go w/ alder swamp or alluvial shrub swamp?
Thin band between sedge meadow & upland (old field)

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover _____%

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy		
T3 Tree Sub-canopy		
S1 Tall Shrub	2-5m	50%
S2 Short Shrub	<2m	30%
H Herbaceous	<1m	80
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 3
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
(2)=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

S1	
Salix petiolaris	3
Alnus incana	2
Salix sp.	3
S2	
Spiraea alba	2
Ribes hudsonianum	2
H	
Calamagrostis canadensis	3
Carex crinita	2
Eupatorium maculatum	2
Carex spp.	2

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

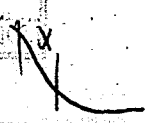
1. Community name (SNAME): Hem / NH
2. Polygon Code: Pw/Hem
3. Plot Number: CA 11
4. Quad name(s): Stowe
5. Survey site name: Grey Hill
6. Quarter Quad Number: 132208
7. Aerial Photo Number: 4201-133
7. County name(s): Wash.
8. Town: Waterbury
9. Location: just north of Waterbury Res. along Grey Hill Rd.
File # R101417A
10. Survey date: 10.14.99
11. State: VT
12. Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve
__ High Slope
__ High Level
X Midslope
__ Low Level
__ Other
__ Backslope
__ Step in Slope
__ Lowslope
__ Toeslope
__ Channel Wall
__ Basin Floor

14. Topographic Sketch:



15. Elevation ~680
16. Slope Degrees 25°
17. Slope Aspect E
18. Parent Material: till

19. Soil Profile Description:

1 in O layer
1+ reddish clay loam

20. Average Soil Texture

__ Sand
__ Sandy Loam
__ Loam
__ Silt Loam
__ Other
X Clay Loam
__ Clay
__ Peat
__ Muck

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
X Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

___ % Bedrock
___ % Large Rocks (>10cm)
___ % Small rocks (<10cm)
___ % Sand
___ % Bare soil
___ % Litter, duff
___ % Wood (> 1 cm)
___ % Water
___ % Other

24. Environmental Comments:

Some signs of logging. Many canopy gaps.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	80
T3 Tree Sub-canopy	10 m	30
S1 Tall Shrub	1-5 m	30
S2 Short Shrub	<1m	20
H Herbaceous	<1m	7
N Non-vascular	<1	7%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres): 3
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
(2)=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
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(3)=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H	
Pinus strob	2	Dacust punct	
Tsuga can	3	Drya inte	
Picea rubens	3		
Betula alleg	2		
Acer saca	2	N	
		Pleur schr	2
T3			
Tsuga can	2		
Betula alleg	2		
Fagus grand	1		
S2			
Tsuga can	3		
Fagus grand	2		
Betula alleg	2		
S1			
Tsuga can	3		
Picea rubens	1		
Betula alleg	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

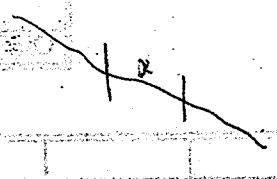
1. Community name (SNAME): NH site 3
2. Polygon Code: Pic Hdwd 3. Plot Number: CA 10 4. Quad name(s): Bolton Mtn
5 Survey site name: Little River SP
6. Quarter Quad Number: ? Little River Dam 7. Aerial Photo Number: 420-131
7.County name(s): Wash. 8.Town: Waterbury
9.Location: WP 67 UTM 677248 E 4916782 N
10.Survey date: 10.12.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
X Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation 700
16. Slope Degrees 15
17. Slope Aspect E
18. Parent Material: till

19. Soil Profile Description:

0-1.5 in O layer
1.5-7 in dark A
Sandy loam
7+ B light grey-brown
coarse sandy loam
w/ gravel
soil very rocky.
depth 20 in or less.

20. Average Soil Texture

__ Sand __ Clay Loam
X Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other

21. Stoniness:

__ Stone Free < 0.1%
X Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
X Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (>1 cm)
____ % Water
____ % Other

24. Environmental Comments:

stunt in between Hem/NH stands (was Hem/NH before logged?) But no sign that it is going back to Hem/NH. Just as much spruce as hemlock in understory. Best fits NH site 3 (Red Maple-Beech variant)

25. Plot representativeness: good. some areas w/ more w. birch

C. Vegetation Description

Total Tree Cover 40 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	80
T3 Tree Sub-canopy	10m	25
S1 Tall Shrub	2-7m	40
S2 Short Shrub	0-2m	15
H Herbaceous	<1	20
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
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2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2			
Acer rubrum	4	H	
Betula papy	3	Drya inte	2
Pinus strob	2	Thel nove	2
Tsuga cana	2	Lyco comp.	2
T3			
Betula alleg	2		
Tsuga cana	1		
Acer rubrum	2		
Fagus grand	1		
S1			
Fagus grand	3		
Acer saca	2		
Acer pens	2		
Picea rubens	1		
S2			
Fagus grand	2		
Frax amer	2		
Acer pens	1		
Picea rubens	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

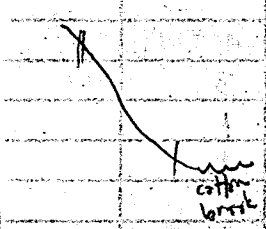
1. Community name (SNAME): NH succ. variant White Birch Forest
2. Polygon Code: Rw 3. Plot Number: CA09 4. Quad name(s): Bolton Mtn
5 Survey site name: up cotton brook
6. Quarter Quad Number: 124211 7. Aerial Photo Number: 4201-131
7.County name(s): Washington 8.Town: Waterbury
9.Directions: Location Questionable!?! (i.e. don't know if I was in the right place)
10.Survey date: 8.30.99 11.State: VT 12.Surveyors MLS

B. Environmental Description

13. Topographic Position

__Interfluve __Backslope
__High Slope __Step in Slope
__High Level __Lowslope
X Midslope __Toeslope
__Low Level __Channel Wall
__Other __Basin Floor

14. Topographic Sketch:



15. Elevation approx 1900
16. Slope Degrees 25°
17. Slope Aspect N
18. Parent Material: Till

19. Soil Profile Description:

~ 10in high chroma (red!) silt loam
~ 5in dark silt loam
over 10yr chroma silt loam w/ course gravel,
soil to 20in. Shallower in some places.

20. Average Soil Texture

__Sand __Clay Loam
__Sandy Loam __Clay
__Loam __Peat
X Silt Loam __Muck
__Other

21. Stoniness:

__Stone Free < 0.1%
X Moderately stony 0.1-1%
__Stony 3-15%
__Very Stony 15-50%
__Exceedingly stony 50-90%
__Stone piles >90%

22. Soil Drainage

__Rapidly Drained
__Well Drained
X Moderately Well Drained
__Somewhat Poorly Drained
__Poorly Drained
__Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (>1 cm)
____ % Water
____ % Other

24. Environmental Comments: seepage @ base of slope. Perhaps the steepness keeps the birch here. Polygon surrounded by NH. Probably a succ. variant of NH. However, a fair amount of spruce coming in.

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	75%
T3 Tree Sub-canopy	5-10m	20%
S1 Tall Shrub	1-5m	20%
S2 Short Shrub	<1m	15%
H Herbaceous	<1m	70%
N Non-vascular		5%
E Epiphyte		
V Vine/liana		

Cover Scale	
r	<1% rare
+	<1% occasional
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Dominant Species in each strata

T2		H	
Betu papy	4	Drya inte	3
Betu alleg	3	Oxalis acet	3
Fagus grand	1	Clint bore	2
Acer sacc	1	Lyco lucid	1
		N	
T3		Hypnum	+
Betu p-py	2	Brachythecium	+
Acer pens	2	Polytrichum	
Fagus grand	2		
		only on logs / rocks	
S1			
Acer pens	2		
Fagus grand	2		
Acer spic	1		
Picea rubens	2		
Vibu lant	1		
S2			
Picea rube	2		
Vibu lant	2		
Acer spic	1		

Mt. Mansfield Community Assessment Form

8/99

A. Identifiers

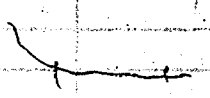
1. Community name (SNAME): _____
2. Polygon Code: Beaver Pond 3. Plot Number: CA08 4. Quad name(s): Bolton Mtn
5 Survey site name: Richer Block Beaver Pond by cemetery
6. Quarter Quad Number: 128212 7. Aerial Photo Number: _____
7.County name(s): ~~Wash.~~ 8.Town: _____
9.Directions: _____
10.Survey date: 5.27.99 11.State: VT 12.Surveyors MES, D. Wilcox

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
__ Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other ✗ Basin Floor

14. Topographic Sketch:



15. Elevation _____

16. Slope Degrees 1

17. Slope Aspect ←

18. Parent Material:

19. Soil Profile Description:

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
__ Loam ✗ Peat
__ Silt Loam __ Muck
__ Other _____

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
✗ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:

Center of polygon (by stream) still wet. Rest of area above flooded areas and dry. More like old field. No hydric vegetation. Birch & Aspen creeping in old field

25. Plot representativeness: Taken in wet area.

C. Vegetation Description

Total Tree Cover _____%

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy		
T3 Tree Sub-canopy		
S1 Tall Shrub		
S2 Short Shrub	<1 m	20%
H Herbaceous	<1 m	70%
N Non-vascular	<.25 m	80%
E Epiphyte		
V Vine/liana		

Cover Scale	
r	<1% rare
+	<1% occasional
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Dominant Species in each strata

S2			
Betula papyrifera		2	
Salix pedicellaris		1	
H			
Carex aquatilis		2	
Carex utriculata		1	
Aster umbellatus		1	
Carex cf. scoparia		1	
Galium trifidum		1	
Juncus effusus		+	
Drosera rotundifolia		+	
N			
Sphagnum magellanicum		3	
Sphagnum recurvum		2	

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

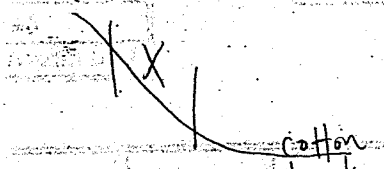
1. Community name (SNAME): Hemlock - NH
2. Polygon Code: _____ 3. Plot Number: CA 07 4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. ~~Quarter~~ Ortho Quad Number: 128212 7. Aerial Photo Number: _____
7. County name(s): Wash. 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.2.99 11. State: VT 12. Surveyors MLS, E. Sorenson

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation _____

16. Slope Degrees ~35°

17. Slope Aspect N

18. Parent Material: _____

19. Soil Profile Description:

Shallow ~30 cm to big rocks

E horizon present 2 cm

Sandy loam

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other _____
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other _____

24. Environmental Comments:

Steep bank along cotton brook. Some erosional bluffs along this slope. Areas with fewer hardwoods & some w/ more hardwoods 60:30 evergreen : deciduous

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 85 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	10-15m	75%
T3 Tree Sub-canopy	5-10	20%
S1 Tall Shrub	1-5	15%
S2 Short Shrub	>1m	15%
H Herbaceous	<1m	25%
N Non-vascular	<1m	<5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2			
Tsuga cana	3	S2	
Betula alleg	2	Tsuga cana	1
Acer rubr	2	Picea rubens	+
Picea rubens	2	Viburn alnif	1
		H	
T3		Dryop inter	1
Tsuga cana	2	Polystichum acro	+
Fagus grand	1		
Betula alleg	1		
Betula papy	1	N	
Acer pensy	1	Bazz tricho	+
		Hypnum sp	+
S1			
Tsuga cana	2		
Acer pensy	1		
Fagus grand	1		
Viburn alnif	2		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

?

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

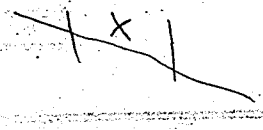
1. Community name (SNAME): Red Spruce - NH
2. Polygon Code: _____ 3. Plot Number: CA 06 4. Quad name(s): Bolton Mtn.
5. Survey site name: _____
6. ~~Quarter~~ Ortho Quad Number: 128212 7. Aerial Photo Number: _____
7. County name(s): Wash. 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.24.99 11. State: VT 12. Surveyors MCS, E Sorenson

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation _____
16. Slope Degrees 5-10°
17. Slope Aspect W
18. Parent Material:

19. Soil Profile Description:

3 cm O horz
3-7 cm A horz
no E horz.
soil to 60 cm

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other _____
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ___ % Bedrock
- ___ % Large Rocks (>10cm)
- ___ % Small rocks (<10cm)
- ___ % Sand
- ___ % Bare soil
- ___ % Litter, duff
- ___ % Wood (> 1 cm)
- ___ % Water
- ___ % Other _____

24. Environmental Comments:

Logged fairly recently

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover _____%

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	15-20m	30%
T3 Tree Sub-canopy	5-10m	60%
S1 Tall Shrub	1-5m	30%
S2 Short Shrub	<1m	5%
H Herbaceous	<1m	30%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
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Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounded area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		S2	
Acer rubrum	2	Picea rubens	1
Betula papy	2	Vibur alnif	+
Frax amer	1		
Picea rubens	2	H	
		Denn punct	2
		Lyca lucidula	1
T3		Drya inter	2
Acer rubrum	2	Aralia nudic	1
Acer pensy	2	Maia cana	+
Betula alleg	1		
Picea rubens	1		
Fagus grand	2		
S1			
Acer pens	2		
Frax amer	+		
Picea rubens	2		
Vibur alnif	1		
Fagus grand	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

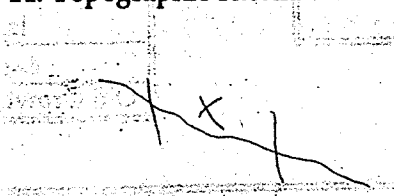
1. Community name (SNAME): Red Spruce - NH
2. Polygon Code: _____ 3. Plot Number: CA05 4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. ~~Quarter Quad~~ ortho Number: 128212 7. Aerial Photo Number: _____
7. County name(s): Wash. 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.24.99 11. State: VT 12. Surveyors MCS, E. Swenson

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation _____

16. Slope Degrees 10°

17. Slope Aspect N

18. Parent Material:

19. Soil Profile Description:

60 cm to loose rock/gravel
No E horizon
Thin O horz (3cm)
6-7cm A horz
reddish B 7+cm
Similar to soils in NH sites in area

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other _____
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other _____

24. Environmental Comments:

Seems to be a early successional stand of Spruce-NH. Regeneration mainly spruce, very little sugar maple. Some old fields in the area. Fits best w/ Spruce-NH but w/ birch & red maple

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover 95 %

	Height	% Cover
T1 Emergent Tree	20-25	40%
T2 Tree Canopy	15-20	75%
T3 Tree Sub-canopy	5-10	20%
S1 Tall Shrub	1-5	30%
S2 Short Shrub	<1	10%
H Herbaceous	<1	60%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T1		S1	
Picea rubens	2	Picea rubens	2
Acer rubrum	1	Fagus grandi	1
Betula papy	1	Betula alleg	1
		Acer pensyl	
T2			
Acer rubrum	2	S2	
Betula alleg	3	Betula alleg	+
Betula papy	3	Picea rubds	1
		Acer spec	+
T3			
Acer pensy	2	H	
Betula alleg	2	Dennstaedtia punct	2
Fagus grandi	1	Dryopteris intermedia	3
		Trillium undulatum	+

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

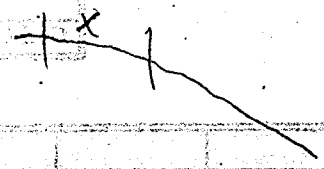
1. Community name (SNAME): Northern Hardwood
2. Polygon Code: _____ 3. Plot Number: CH-04 4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. ~~Quarter~~ Ortho Quad Number: 12821z 7. Aerial Photo Number: _____
7. County name(s): Wash 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.24.99 11. State: VT 12. Surveyors MLS, E Sorenson

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation _____
16. Slope Degrees 5-10°
17. Slope Aspect N
18. Parent Material:

19. Soil Profile Description:

No E horz.

40-50cm Sandy loam

rock @ depth

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other _____
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- __ Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- __ Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other _____

24. Environmental Comments:

Mesic NH forest w/ hemlock

25. Plot representativeness:

Patches of hemlock mixed in w/ mesic NH forest

C. Vegetation Description

Total Tree Cover 80 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	30m	70%
T3 Tree Sub-canopy	15-20	30-40%
S1 Tall Shrub	1-5m	25%
S2 Short Shrub	<1m	15%
H Herbaceous	<1m	30-40%
N Non-vascular		
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		S2	
Acer Sacc	2	Acer Sacc	2
Frax amer	3	Ostrya virg	1
Tsuga cana	1		
T3		H	
Tilia amer	1	Dryo inter	3
Ostry virg	1	Denn punct	1
Fagus grand	2		
Tsuga cana	2		
Betula alleg	2		
S1			
Acer pens	2		
Acer Sacc	2		
Fagus grand	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

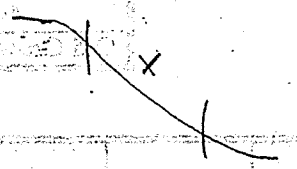
1. Community name (SNAME): Hemlock Forest
2. Polygon Code: _____ 3. Plot Number: CA-03 4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. ~~Quarter Quad~~ ortho Number: 128212 7. Aerial Photo Number: _____
7. County name(s): Wash. 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.24.99 11. State: VT 12. Surveyors MLS, E Sorenson

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation _____
16. Slope Degrees 35° / 15°
17. Slope Aspect N / NE
18. Parent Material: _____

19. Soil Profile Description:

25-40 cm deep
Sandy loam
spodosol - leached E horizon
cobble size stones @ depth

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other _____
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other _____

24. Environmental Comments:

25. Plot representativeness:

Birch, cover high for type. Bordering on Hw/By cover type

C. Vegetation Description

Total Tree Cover 90 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	20m	90%
T3 Tree Sub-canopy		25%
S1 Tall Shrub	1-2m	10%
S2 Short Shrub	<1m	5%
H Herbaceous	<1m	5%
N Non-vascular	<1	5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
1=great, no signs of anthropogenic disturbance, no exotics, etc.
2=moderate, some signs of anthropogenic disturbance, exotics, etc.
3=poor, obvious signs of anthropogenic disturbance, lots of exotics, etc.
Landscape Quality (check one):
1=surrounded by 1,000+ acres of intact matrix of natural communities
2=surrounded by forest or undisturbed communities but there may be developed land or clearcutting nearby
3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H	
Tsuga canu	5	Dryo inter	1
Betula alleg	2		
		N	
T3		Barbania trilobata	+
Tsuga can	2	Hypnum sp.	+
Betula alleg	1		
Fagus grand	1		
S1			
Fagus grand	2		
S2			
Acer pens	1		
Fagus grand	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

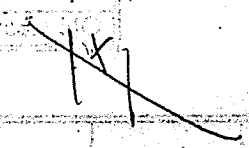
1. Community name (SNAME): Hemlock Forest
2. Polygon Code: _____ 3. Plot Number: CA 02 4. Quad name(s): Bolton Mtn
5. Survey site name: Cotton Brook
6. ~~Quarter~~ orth. Quad Number: 128212 7. Aerial Photo Number: _____
7. County name(s): Wash. 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.24.99 11. State: VT 12. Surveyors MLS, E Sorenson

B. Environmental Description

13. Topographic Position

- __ Interfluve
- __ High Slope
- __ High Level
- X Midslope
- __ Low Level
- __ Other
- __ Backslope
- __ Step in Slope
- __ Lowslope
- __ Toeslope
- __ Channel Wall
- __ Basin Floor

14. Topographic Sketch:



15. Elevation _____

16. Slope Degrees 34°
17. Slope Aspect NW

18. Parent Material:

19. Soil Profile Description:

Spodosol w/ leached E horizon
sand loam
50 cm to loose rock/ gravel

20. Average Soil Texture

- __ Sand
- X Sandy Loam
- __ Loam
- __ Silt Loam
- __ Other
- __ Clay Loam
- __ Clay
- __ Peat
- __ Muck

21. Stoniness:

- __ Stone Free < 0.1%
- X Moderately stony 0.1-1%
- __ Stony 3-15%
- __ Very Stony 15-50%
- __ Exceedingly stony 50-90%
- __ Stone piles >90%

22. Soil Drainage

- __ Rapidly Drained
- X Well Drained
- __ Moderately Well Drained
- __ Somewhat Poorly Drained
- __ Poorly Drained
- __ Very Poorly Drained

23. Unvegetated Surface:

- ____ % Bedrock
- ____ % Large Rocks (>10cm)
- ____ % Small rocks (<10cm)
- ____ % Sand
- ____ % Bare soil
- ____ % Litter, duff
- ____ % Wood (> 1 cm)
- ____ % Water
- ____ % Other _____

24. Environmental Comments:

25. Plot representativeness:

C. Vegetation Description

Total Tree Cover _____%

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	25	95
T3 Tree Sub-canopy	10	5
S1 Tall Shrub	2	4%
S2 Short Shrub	1	35%
H Herbaceous	<1	10%
N Non-vascular	<1	5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
Current Condition of Community (check one):
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3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2		H	
Tsuga canen	5	Dryo inter	2
Betula papy	1	Oxalis acetosella	+
		Cyri acuta	r
T3			
Tsuga canen	1	N	
Fagus gravel	+	Bazzania trilob	+
		Hypnum sp.	+
S1			
Fagus grand	+		
Acer pens	+		
S2			
Acer pens	2		
Picea rubens	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %

Mt. Mansfield Community Assessment Form

A. Identifiers 8/99

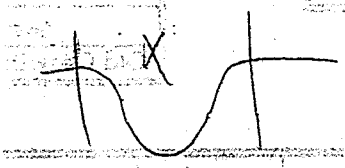
1. Community name (SNAME): Hemlock - NH
2. Polygon Code: _____ 3. Plot Number: CA01 4. Quad name(s): Bolton Mtn.
5. Survey site name: Cotton Brook
6. ~~Quarter Quad~~ Ortho Number: _____ 7. Aerial Photo Number: _____
7. County name(s): Wash. 8. Town: Waterbury
9. Location: _____
10. Survey date: 8.24.99 11. State: VT 12. Surveyors MLS, E. Sorenson

B. Environmental Description

13. Topographic Position

__ Interfluve __ Backslope
__ High Slope __ Step in Slope
__ High Level __ Lowslope
X Midslope __ Toeslope
__ Low Level __ Channel Wall
__ Other __ Basin Floor

14. Topographic Sketch:



15. Elevation _____

16. Slope Degrees 38°

17. Slope Aspect NW

18. Parent Material: Till

19. Soil Profile Description:

0-3cm O layer - needles etc.
3-6cm E layer leached
6-10cm B 2.5YR 4/6 very red narrow band mixed w/ 10YR 5/8
10cm+ 2.5Y 5/4 Bz
soil to 70cm depth
on terrace above slope
gravel or rock @ 70cm

20. Average Soil Texture

__ Sand __ Clay Loam
__ Sandy Loam __ Clay
__ Loam __ Peat
__ Silt Loam __ Muck
__ Other _____

21. Stoniness:

__ Stone Free < 0.1%
__ Moderately stony 0.1-1%
__ Stony 3-15%
__ Very Stony 15-50%
__ Exceedingly stony 50-90%
__ Stone piles >90%

22. Soil Drainage

__ Rapidly Drained
__ Well Drained
__ Moderately Well Drained
__ Somewhat Poorly Drained
__ Poorly Drained
__ Very Poorly Drained

23. Unvegetated Surface:

____ % Bedrock
____ % Large Rocks (>10cm)
____ % Small rocks (<10cm)
____ % Sand
____ % Bare soil
____ % Litter, duff
____ % Wood (> 1 cm)
____ % Water
____ % Other _____

24. Environmental Comments:

Steep slope on side of old channel. Hemlock colonizing on flat area above slope as well.

25. Plot representativeness: Some inclusions of Hemlock Forest in this polygon.

C. Vegetation Description

Total Tree Cover 90-95 %

	Height	% Cover
T1 Emergent Tree		
T2 Tree Canopy	18-20m	85%
T3 Tree Sub-canopy	10m	40%
S1 Tall Shrub	1-5m	25%
S2 Short Shrub	<1m	5%
H Herbaceous		
N Non-vascular	<1	<5%
E Epiphyte		
V Vine/liana		

Community Ranking

Size of community (acres):
How was size determined?
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3=surrounded by fragmented forest, agricultural land or rural development
4=surrounding area intensely developed
Old Growth: Yes/No (>180 years, generally)

Dominant Species in each strata

T2			
Tsuga cana	4	No significant herb	
Betula papy	2	layer. Some Acer pens.	
Populus grand	3	Seedlings	
T3			
Tsuga cand	3	N.	
Betula alleg	1	Hypnum sp.	+
Acer pens	1	Bazzania trilobata	+
Picea rubens	1		
S1			
Tsuga cana	2		
Acer pensy	1		
Picea rubens	1		
S2			
Picea rubens	1		
Acer pens	1		

Cover Scale	
r	<1% rare
+	<1% occs
1	1-5 %
2	5-25 %
3	26-50 %
4	51-75 %
5	76-100 %