

FIELD #1.....Freeman's Farm Overlook

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #1
Cover data for *Centaurea* spp., *Andropogon scoparius*,
and other grasses and forbs.

		<u>QUADRATS</u>	
<u>SPECIES</u>	<u>F</u>	<u>C</u>	
1. <i>Centaurea</i> spp.	53	9.4	
2. <i>Potentilla simplex</i>	33		
3. <i>Cornus racemosa</i>	13		
4. <i>Andropogon scoparius</i>	7	1	
5. <i>Anthoxanthum odoratum</i>			
6. <i>Danthonia spicata</i>			
7. <i>Daucus carota</i>			
8. <i>Solidago</i> spp.	13		
9. <i>Aster</i> spp.	7		
10. <i>Hieracium</i> spp			
**Grasses	80	38.1	
**Forbs	94	53.7	
11. <i>Rhus radicans</i>	33		
12. <i>Rubus allegheniensis</i>	20		
13. <i>Galium verum</i>	60		
14. <i>Ranunculus</i> spp.	7		
15. <i>Equisetum arvense</i>	13		
16. <i>Fragaria virginiana</i>	13		
17. <i>Rubus flagellaris</i>	7		
18. <i>Ulmus americana</i>	7		
19. <i>Sambucus canadensis</i>	7		
20. <i>Carex</i> sp.	7		
21. <i>Oxalis stricta</i>	7		
22. <i>Asclepias syriaca</i>	7		
23. <i>Parthenocissus quinquefolia</i>	20		
24. <i>Glechoma hederacea</i>	7		
25. <i>Rubus occidentalis</i>	7		
26. <i>Hypericum perforatum</i>	7		
27. <i>Linaria vulgaris</i>	13		
28. <i>Rumex acetosella</i>	27		
29. <i>Robinia pseudo acasia</i>	7		

FIELD #2.....Barber Wheatfield

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #2
 Cover data for *Centaurea* spp., *Andropogon scoparius*,
 and other grasses and forbs.

SPECIES	QUADRATS		1988 C	1989 C
	1988 F	1989 F		
1. <i>Centaurea</i> (spp.)	100	100	56	45
2. <i>Potentilla simplex</i>	100	100		
3. <i>Cornus racemosa</i>	47	27		
4. <i>Andropogon scoparius</i>		7	0	0.3
5. <i>Anthoxanthum odoratum</i>				
6. <i>Danthonia spicata</i>	20	0		
7. <i>Daucus carota</i>	13	0		
8. <i>Solidago</i> spp.	33	0		
9. <i>Aster</i> spp.	20	13		
10. <i>Hieracium</i> spp.	20	54		
**Grasses	100	100	21.1	19.3
**Forbs	100	100	93.3	92.7
11. <i>Fragaria virginiana</i>	47	93		
12. <i>Rubus flagellaris</i>	33	47		
13. <i>Rhus radicans</i>	13	13		
14. <i>Prunella vulgaris</i>	20	7		
15. <i>Thymus serpyllum</i>	40	80		
16. <i>Galium aparine</i>	7	7		
17. <i>Sedum acre</i>	7	0		
18. <i>Hypericum perforatum</i>	20	0		
19. <i>Viburnum</i> spp.	7	0		
20. <i>Trifolium pratense</i>	7	40		
21. <i>Carex</i> spp.	27	20		
22. <i>Equisetum arvense</i>	13	7		
23. <i>Agrimonia pubescens</i>	7	0		
24. <i>Cerastium vulgatum</i>	13	20		
25. <i>Achillea millefolium</i>	7	7		
26. <i>Trifolium agrarium</i>	20	93		
27. <i>Melilotus officinalis</i>	7	0		
28. <i>Pinus strobus</i>	7	0		
29. <i>Ranunculus</i>	27	47		
30. <i>Chrysanthemum leucanthemum</i>	0	20		
31. <i>Crataegus</i>	0	7		

FIELD #3.....Dar. Monument Field

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #3
Cover data for *Centauria* spp., *Andropogon scoparius*,
and other grasses and forbs.

<u>SPECIES</u>		<u>F</u>	<u>C</u>
1.	<i>Centauria</i> spp.	13	1.6
2.	<i>Potentilla simplex</i>	33	
3.	<i>Cornus racemosa</i>	7	
4.	<i>Andropogon scoparius</i>	20	5
5.	<i>Anthoxanthum oderatum</i>		
6.	<i>Danthonia spica</i>	7	
7.	<i>Daucus carota</i>		
8.	<i>Solidago</i> spp.	7	
9.	<i>Aster</i> spp.		
10.	<i>Hieracium</i> spp.		
**Grasses		100	55
**Forbs		100	53.8
11.	<i>Thymus serpyllum</i>	87	
12.	<i>Plantago lanceolata</i>	87	
13.	<i>Rumex acetocella</i>	60	
14.	<i>Achillea millefolium</i>	20	
15.	<i>Carex</i> spp.	13	
16.	<i>Hieracium</i> spp.	13	
17.	<i>Panicum</i> spp.	7	
18.	<i>Viburnum</i> spp.	13	
19.	<i>Ulmus americana</i>	7	
20.	<i>Trifolium agrarium</i>	7	

FIELD #4....Neilson Farm

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #4.
 Cover data for *Centaurea* spp., *Andropogon scoparius*,
 and other grasses and forbs.

SPECIES	QUADRATS			Cover		
	88	89 Control	89 Burn	88	89 Control	89 Burn
1. <i>Centaurea</i> spp.	100	90	100	30.3	46.1	42.5
2. <i>Potentilla simplex</i>	87	70	80			
3. <i>Cornus racemosa</i>	40	20	60			
4. <i>Andropogon scoparius</i>	0	10		0	2.0	
5. <i>Anthoxanthum odoratum</i>						
6. <i>Danthonia spicata</i>						
7. <i>Daucus carota</i>	13	30	74			
8. <i>Solidago</i> spp.						
9. <i>Aster</i> spp.	40	10	7			
10. <i>Hieracium</i> spp.						
**Grasses	100	100	100	45.3	46.5	46.3
**Forbs	100	100	100	51.3	69.2	62.0
11. <i>Panicum</i> spp.	7	-	-			
12. <i>Ranunculus</i> spp.	53	40	93			
13. <i>Trifolium agrarium</i>	40	80	80			
14. <i>Prunella vulgaris</i>	27	20	20			
15. <i>Antennaria</i> spp.	7					
16. <i>Fragaria virginiana</i>	53	80	60			
17. <i>Carex</i> spp.	60	30	80			
18. <i>Ulmus americana</i>	7	0	33			
19. <i>Trifolium pratense</i>	13					
20. <i>Lycopus americanus</i>	7					
21. <i>Phleum pratense</i>	7	20				
22. <i>Thymus serpyllum</i>	47	40	27			
23. <i>Crataegus</i> spp.	7					
24. <i>Rubus flagellaris</i>	7					
25. <i>Oxalis stricta</i>	13	40	7			
26. <i>Vitis aestivalis</i>	7					
27. <i>Lotus corniculatus</i>	0	10	0			
28. <i>Vicia</i> sp.	0	10	0			
29. <i>Convolvulus sepium</i>	0	30	7			
30. <i>Trifolium</i> (Red)	0	30	47			
31. <i>Vitis</i>	0	10	7			
32. <i>Melilotus alba</i>	0	10	7			
33. <i>Chrysanthemum leucanthemum</i>	0	10	0			
34. <i>Rosa</i>	0	10	20			
35. <i>Rhus radicans</i>	0	0	13			
36. <i>Parthenocissus quinquefolia</i>	0	0	7			
37. <i>Juncus</i> sp.	0	0	7			
38. <i>Hypericum perforatum</i>	0	0	7			

FIELD #5....Unnamed Field (2.75 mile mark field)
 SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #5 . over data for
 Centaurea spp., Andropogon scoparius, and other grasses and forbs.

FREQUENCY		COVER		SPECIES 1988	
1989	1988	1989			
1.	Centaurea spp.	87	80	23	13.7
2.	Potentilla simplex	73	93		
3.	Cornus racemosa	67	93		
4.	Andropogon scoparius	0	0	0	0
5.	Anthoxanthum odoratum	-	47		
6.	Danthonia spicata	-	40		
7.	Daucus carota	13	13		
8.	Solidago spp.	47	33		
9.	Aster spp.	53	47		
10.	Hieracium spp.				
**Grasses		100	100	58	60
**Forbs		100	100	60	47.3
11.	Penstemon spp.	20	7		
12.	Crataegus spp.	13	7		
13.	Bromus inermis	13	0		
14.	Agrimonia pubescens	33	13		
15.	Trifolium agrarium	27	47		
16.	Fragaria virginiana	33	60		
17.	Melilotus officinalis	7	0		
18.	Achillea millefolium	40	47		
19.	Parthenocissus quinquefolia	13	0		
20.	Rubus flagellaris	13	13		
21.	Ulmus americana	7	7		
22.	Viburnum spp.	33	27		
23.	Galium verum	7	7		
24.	Rudbeckia hirta	13	7		
25.	Juncus spp.	20	20		
26.	Trifolium pratense	13	7		
27.	Spiraea tomentosa	7	0		
28.	Oxalis stricta	13	20		
29.	Vitis aestivalis	7			
30.	Carex spp.	13	60		
31.	Rhus radicans	13	20		
32.	Rosa virginiana	7	0		
33.	Prunus serotina	7	0		
34.	Ranunculus spp.	33	27		
35.	Rumex crispus	7	0		
36.	Cicuta maculata	7	0		
37.	Phleum pratense	13	27		
38.	Hypericum perforatum	7	0		
39.	Vicia cracca	7	67		
40.	Panicum spp.	7	0		
41.	Prunella vulgaris	7	0		
42.	Viola sp.	0	7		
43.	Acer rubrum	0	7		
44.	Fraxinus americana	0	7		
45.	Asclepias syriaca	0	7		
46.	Onoclea sensibilis	0	7		
47.	Sisyrinchium mucronatum	0	7		

FIELD #6.....CHATFIELD FARM

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #6
 Cover data for *Centaurea* spp., *Andropogon scoparius*,
 and other grasses and forbs.

SPECIES	<u>QUADRATS</u>	
	F	C
1. <i>Centaurea</i> spp.	92	41.5
2. <i>Potentilla simplex</i>	48	
3. <i>Cornus raemosa</i>	40	
4. <i>Andropogon scoparius</i>	12	0.8
5. <i>Anthoxanthum oderatum</i>		
6. <i>Danthonia spicata</i>		
7. <i>Daucus carota</i>	12	
8. <i>Solidago</i> spp.	4	
9. <i>Aster</i> spp.	20	
10. <i>Hieracium</i> spp.	40	
**Grasses	100	61
**Forbs	100	65.2
11. <i>Galium verum</i>	76	
12. <i>Bromus mollis</i>	8	
13. <i>Trifolium agrarium</i>	32	
14. <i>Prunella vulgaris</i>	12	
15. <i>Thymus serpyllum</i>	40	
16. Black <i>Viburnum</i>	4	
17. <i>Fragaria virginiana</i>	36	
18. <i>Hypericum perforatum</i>	8	
19. <i>Potentilla recta</i>	4	
20. <i>Rhus radicans</i>	16	
21. <i>Ranunculus</i> spp.	20	
22. <i>Carex</i> spp.	8	
23. <i>Trifolium agrarium</i>	4	
24. <i>Geranium maculatum</i>	16	
25. <i>Viburnum</i> spp.	84	
26. <i>Ulmus americana</i>	4	

FIELD #7.....Breyman Redoubt

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #7
 Cover data for *Centauria* spp., *Andropogon scoparius*, and
 other grasses and forbs.

QUADRATS

SPECIES	F	C
1. <i>Centauria</i> spp.	88	24.8
2. <i>Potentilla simplex</i>	60	
3. <i>Cornus racemosa</i>	40	
4. <i>Andropogon scoparius</i>		0
5. <i>Anthoxanthum oderatum</i>		
6. <i>Danthonia spicata</i>		
7. <i>Daucus carota</i>	20	
8. <i>Solidago</i> spp.	8	
9. <i>Aster</i> spp.	4	
10. <i>Hieracium</i> spp.	8	
**Grasses	100	57.2
**Forbs	96	53.6
11. <i>Rubus flagellaris</i>	28	
12. <i>Prunus serotina</i>	12	
13. <i>Hypericum perforatum</i>	4	
14. <i>Achillea millefolium</i>	20	
15. <i>Rosa virginiana</i>	48	
16. <i>Melilotus officinalis</i>	8	
17. <i>Crateagus</i> spp.	20	
18. <i>Galium verum</i>	56	
29. <i>Fragaria virginiana</i>	48	
20. <i>Raununculus</i> spp.	20	
21. <i>Oxalis stricta</i>	4	
22. <i>Juncus</i> spp.	4	
23. <i>Penstemon</i> spp.	4	
24. <i>Carex</i> spp.	8	
25. <i>Viburnum</i> spp.	8	
26. <i>Trifolium pratense</i>	8	
27. <i>Trifolium agrarium</i>	16	
28. <i>Rhus radicans</i>	4	

FIELD #8.....Balcarre's Redoubt

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #8
 Cover date for *Centaurea* spp., *Andropogon scoparius*,
 and other grasses and forbs.

QUADRATS

SPECIES	F	C
1. <i>Centaurea</i> spp.	100	21.3
2. <i>Potentilla simplex</i>	60	
3. <i>Cornus racemosa</i>	27	
4. <i>Andropogon scoparius</i>	67	31.3
5. <i>Anthoxanthum odoratum</i>		
6. <i>Danthonia spicata</i>		
7. <i>Daucus carota</i>	7	
8. <i>Solidago</i> spp.		
9. <i>Aster</i> spp.	7	
10. <i>Hieracium</i> spp.	7	
**Grasses	100	62.3
**Forbs	100	46.7
11. <i>Fragaria virginiana</i>	20	
12. <i>Pycnanthemum flexuosum</i>	20	
13. <i>Vicia cracca</i>	7	
14. <i>Galium verum</i>	33	
15. <i>Thymus serpyllum</i>	33	
16. <i>Rubus flagellaris</i>	13	
17. <i>Ranunculus</i> spp.	20	
18. <i>Fraxinus americana</i>	7	
19. <i>Trifolium agrarium</i>	60	
20. <i>Rudbeckia hirta</i>	20	
21. <i>Juncus</i> spp.	13	
22. <i>Rhus radicans</i>	13	
33. <i>Vitis aestivalis</i>	7	
24. <i>Lycopus americanus</i>	13	
25. <i>Equisetum arvense</i>	13	
26. <i>Carex</i> spp.	20	
27. <i>Penstemon</i> spp.	7	
28. <i>Oxalis stricta</i>	7	
29. <i>Cyperus</i> spp.	13	
30. <i>Onoclea sensibilis</i>	7	
31. <i>Salix</i> spp.	7	
32. <i>Eupatorium perfoliatum</i>	7	

FIELD #9....."FERN FIELD"

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species on (Field) #9
the Fern field, S.N.H.P.

QUADRATS

SPECIES	FREQUENCY		COVER	
	1988	1989	1988	1989
1. Centaurea spp.	10	0	-	0
2. Potentilla simplex	40	60	-	
3. Andropogon scoparis	10	0	-	0
4. Solidago spp.	60	80	-	
5. Aster spp.	20	0		
6. Hieracium spp.	10	0		
**Grasses	100	100	-	13.4
**Forbs	100	100		99
7. Dennstaedtia punctulobula	50	70		
8. Fragaria virginiana	80	60		
9. Rubus allegheniensis	50	40		
10. Lysimachia quadrifolia	30	0		
11. Hammamelis virginiana	30	30		
12. Achillea millefolium	60	30		
13. Rubus flagellaris	10	0		
14. Smilacina racemiflora racemosa	10	40		
15. Trientalis borealis	10	0		
16. Osmunda cinnamomea	10	30		
17. Carex spp.	50	70		
18. Parthenocissus quiquefolia	10	20		
19. Rumex acetosella	10	0		
20. Equisetum arvense	10	20		
21. Viburnum spp.	10	10		
22. Spiraea tomentosa	40	30		
23. Galium aparine	10	0		
24. Onoclea sensibilis	50	50		
25. Rubus hispidus	20	40		
26. Lycopodium americanus	10	10		
27. Juncus spp.	10	0		
28. Lysimachia spp.	10	60		
29. Ranunculus spp.	40	40		
30. Trifolium agrarium	0	30		
31. Apios americana	0	10		
32. Maianthemum canadense	0	10		
33. Viccia cracca	0	10		

FIELD #10.....BURGOYNE HEADQUARTERS

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #10
Cover data for *Centaurea* spp., *Andropogon scoparius*, and other grasses
and forbs.

QUADRATS

SPECIES	F	C
1. <i>Centaurea</i> spp.	4	0.8
2. <i>Potentilla simplex</i>	68	
3. <i>Cornus racemosa</i>	12	
4. <i>Andropogon scoparius</i>	100	44
5. <i>Anthoxanthum odoratum</i>		
6. <i>Danthonia spicata</i>		
7. <i>Daucus carota</i>		
8. <i>Solidago</i> sp.	8	
9. <i>Aster</i> spp.		
10. <i>Hieracium</i> sp.		
**Grasses	100	77.2
**Forbs	96	17.9
11. <i>Erigeron strigosus</i>	4	
12. <i>Achillea millefolium</i>	76	
13. <i>Antennaria plantaginifolia</i>	4	
14. <i>Fragaria virginiana</i>	20	
15. <i>Rumex acetosella</i>	32	
16. <i>Rubus flagellaris</i>	32	
17. <i>Thymus serpyllum</i>	12	
18. <i>Equisetum arvense</i>	12	
19. <i>Juncus</i> spp.	4	

FIELD #11.....Great Redoubt (Stop 9)

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #11
Cover data for *Centaurea* spp., *Andropogon scoparius*,
and other grasses and forbs.

QUADRATS

SPECIES	F	C
1. <i>Centaurea</i> spp.	40	4.1
2. <i>Potentilla simplex</i>	20	
3. <i>Cornus racemosa</i>	60	
4. <i>Andropogon scoparius</i>	47	13
5. <i>Anthoxanthum odoratum</i>		
6. <i>Danthonia spicata</i>		
7. <i>Daucus carota</i>		
8. <i>Solidago</i> spp.	13	
9. <i>Aster</i> sp.	53	
10. <i>Hieracium</i> spp.	7	
**Grasses	100	41.4
**Forbs	100	51.3
11. <i>Rhus glabra</i>	27	
12. <i>Equisetum arvense</i>	27	
13. <i>Rubus flagellaris</i>	73	
14. <i>Galium verum</i>	7	
15. <i>Fragaria virginiana</i>	67	
16. <i>Rumex acetosella</i>	7	
17. <i>Vitis aestivalis</i>	13	
18. <i>Achillea millefolium</i>	7	
19. <i>Melilotus officinalis</i>	7	
20. <i>Ulmus americana</i>	7	
21. <i>Carex</i> sp.	27	
22. <i>Rubus occidentalis</i>	7	
23. <i>Oxalis stricta</i>	20	
24. <i>Hammamelis virginiana</i>	7	
25. <i>Ranunculus</i> spp.	13	
26. <i>Rudbeckia hirta</i>	7	
27. <i>Prunus serotina</i>	7	
28. <i>Rubus hispidus</i>	7	
29. <i>Rubus allegheniensis</i>	20	
31. <i>Rhus typhina</i>	7	
32. <i>Geranium maculatum</i>	20	
33. <i>Galium aparine</i>	7	
24. <i>Celastrus orbiculatus</i>	7	
35. <i>Prunella vulgaris</i>	7	
36. <i>Fraxinus americana</i>	7	

FIELD 12.....Fraser Burial Site, Stop #10

SARATOGA NHP

EXOTIC PLANT INVENTORYDATE 08/01/88

Frequency data for species of site (Field) #12

Cover data for *Centauria* spp., *Andropogon scoparius*,
and other grasses and forbs.QUADRATS

SPECIES	FREQUENCY		COVER	
	1988	1989	1988	1989
1. <i>Centauria</i> spp.	20	7	1.7	0.3
2. <i>Potentilla simplex</i>	47	47		
3. <i>Cornus racemosa</i>	67	40		
4. <i>Andropogon scoparius</i>	0	0	0	0
5. <i>Anthoxanthum odoratum</i>				
6. <i>Danthonia spicata</i>				
7. <i>Daucus carota</i>		13		
8. <i>Solidago</i> spp.	100	100		
9. <i>Aster</i> spp.	13	33		
10. <i>Hieracium</i> spp.				
** Grasses	100	100	20.3	4.2
** Forbs	100	100	86	98
11. <i>Lotus corniculatus</i>	7	0		
12. <i>Fragaria virginiana</i>	60	60		
13. <i>Carex</i> spp	27	40		
14. <i>Rubus flagellaris</i>	27			
15. <i>Rubus allegheniensis</i>	47	40		
16. <i>Ranunculus</i> spp.	27	40		
17. <i>Galium aparine</i>	60			
18. <i>Vitis aestivalis</i>	20			
19. <i>Agrimonia</i> sp.	7			
20. <i>Rhus radicans</i>	7	7		
21. <i>Viburnum</i> spp.	13	20		
22. <i>Lysimachia quadrifolia</i>	7	33		
23. <i>Prunella vulgaris</i>	13			
24. <i>Penstemon</i> spp.	7			
25. <i>Crataegus</i> spp.	7			
26. <i>Parthenocissus quinquefolia</i>	7			
27. <i>Trifolium pratense</i>	7			
28. <i>Achillea millefolium</i>	0	13		
29. <i>Trifolium agrarium</i>	0	47		
30. <i>Galium</i>	0	7		
31. <i>Fraxinus americana</i>	0	7		
32. <i>Onoclea sensibilis</i>	0	7		
33. <i>Vitis</i>	0	13		
34. <i>Taraxacum officinale</i>	0	7		
35. <i>Prunus serotina</i>	0	7		
36. <i>Equisetum arvense</i>	0	13		
37. <i>Oxalis stricta</i>	0	13		
38. <i>Lamium amplexicaule</i>	0	7		

FIELD #2.....Barber Wheatfield

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #2
 Cover data for *Centaurea* spp., *Andropogon scoparius*,
 and other grasses and forbs.

SPECIES	<u>QUADRATS</u>		1988 C	1989 C
	1988 F	1989 F		
1. <i>Centaurea</i> (spp.)	100	100	56	45
2. <i>Potentilla simplex</i>	100	100		
3. <i>Cornus racemosa</i>	47	27		
4. <i>Andropogon scoparius</i>		7	0	0.3
5. <i>Anthoxanthum odoratum</i>				
6. <i>Danthonia spicata</i>	20	0		
7. <i>Daucus carota</i>	13	0		
8. <i>Solidago</i> spp.	33	0		
9. <i>Aster</i> spp.	20	13		
10. <i>Hieracium</i> spp.	20	54		
**Grasses	100	100	21.1	19.3
**Forbs	100	100	93.3	92.7
11. <i>Fragaria virginiana</i>	47	93		
12. <i>Rubus flagellaris</i>	33	47		
13. <i>Rhus radicans</i>	13	13		
14. <i>Prunella vulgaris</i>	20	7		
15. <i>Thymus serpyllum</i>	40	80		
16. <i>Galium aparine</i>	7	7		
17. <i>Sedum acre</i>	7	0		
18. <i>Hypericum perforatum</i>	20	0		
19. <i>Viburnum</i> spp.	7	0		
20. <i>Trifolium pratense</i>	7	40		
21. <i>Carex</i> spp.	27	20		
22. <i>Equisetum arvense</i>	13	7		
23. <i>Agrimonia pubescens</i>	7	0		
24. <i>Cerastium vulgatum</i>	13	20		
25. <i>Achillea millefolium</i>	7	7		
26. <i>Trifolium agrarium</i>	20	93		
27. <i>Melilotus officinalis</i>	7	0		
28. <i>Pinus strobus</i>	7	0		
29. <i>Ranunculus</i>	27	47		
30. <i>Chrysanthemum leucanthemum</i>	0	20		
31. <i>Crataegus</i>	0	7		

FIELD #4....Neilson Farm

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species of site (Field) #4 .
 Cover data for Centaurea spp., Andropogon scoparius,
 and other grasses and forbs.

SPECIES	QUADRATS			Cover		
	Frequency		89 Burn	88	89 Control	89 Burn
	88	89 Control				
1. Centaurea spp.	100	90	100	30.3	46.1	42.5
2. Potentilla simplex	87	70	80			
3. Cornus racemosa	40	20	60			
4. Andropogon scoparius	0	10		0	2.0	
5. Anthoxanthum odoratum						
6. Danthonia spicata						
7. Daucus carota	13	30	74			
8. Solidago spp.						
9. Aster spp.	40	10	7			
10. Hieracium spp.						
**Grasses	100	100	100	45.3	46.5	46.3
**Forbs	100	100	100	51.3	69.2	62.0
11. Panicum spp.	7	-	-			
12. Ranunculus spp.	53	40	93			
13. Trifolium agrarium	40	80	80			
14. Prunella vulgaris	27	20	20			
15. Antennaria spp.	7					
16. Fragaria virginiana	53	80	60			
17. Carex spp.	60	30	80			
18. Ulmus american	7	0	33			
19. Trifolium pratense	13					
20. Lycopodium americanus	7					
21. Phleum pratense	7	20				
22. Thymus serpyllum	47	40	27			
23. Crataegus spp.	7					
24. Rubus flagellaris	7					
25. Oxalis stricta	13	40	7			
26. Vitis aestivalis	7					
27. Lotus corniculatus	0	10	0			
28. Vicia sp.	0	10	0			
29. Convolvulus sepium	0	30	7			
30. Trifolium (Red)	0	30	47			
31. Vitis	0	10	7			
32. Melilotus alba	0	10	7			
33. Chrysanthemum leucanthemum	0	10	0			
34. Rosa	0	10	20			
35. Rhus radicans	0	0	13			
36. Parthenocissus quinquefolia	0	0	7			
37. Juncus sp.	0	0	7			
38. Hypericum perforatum	0	0	7			

FIELD #5....Unnamed Field (2.75 mile mark field)
 SARATOGA NHP
 EXOTIC PLANT INVENTORY
 DATE 08/01/88

Frequency data for species of site (Field) #5 . over data for
 Centaurea spp., Andropogon scoparius, and other grasses and forbs.

SPECIES	FREQUENCY		COVER	
	1988	1989	1988	1989
1. Centaurea spp.	87	80	23	13.7
2. Potentilla simplex	73	93		
3. Cornus racemosa	67	93		
4. Andropogon scoparius	0	0	0	0
5. Anthoxanthum odoratum	-	47		
6. Danthonia spicata	-	40		
7. Daucus carota	13	13		
8. Solidago spp.	47	33		
9. Aster spp.	53	47		
10. Hieracium spp.				
**Grasses	100	100	58	60
**Forbs	100	100	60	47.3
11. Penstemon spp.	20	7		
12. Crataegus spp.	13	7		
13. Bromus inermis	13	0		
14. Agrimonia pubescens	33	13		
15. Trifolium agrarium	27	47		
16. Fragaria virginiana	33	60		
17. Melilotus officinalis	7	0		
18. Achillea millefolium	40	47		
19. Parthenocissus quinquefolia	13	0		
20. Rubus flagellaris	13	13		
21. Ulmus americana	7	7		
22. Viburnum spp.	33	27		
23. Galium verum	7	7		
24. Rudbeckia hirta	13	7		
25. Juncus spp.	20	20		
26. Trifolium pratense	13	7		
27. Spiraea tomentosa	7	0		
28. Oxalis stricta	13	20		
29. Vitis aestivalis	7			
30. Carex spp.	13	60		
31. Rhus radicans	13	20		
32. Rosa virginiana	7	0		
33. Prunus serotina	7	0		
34. Ranunculus spp.	33	27		
35. Rumex crispus	7	0		
36. Cicuta maculata	7	0		
37. Phleum pratense	13	27		
38. Hypericum perforatum	7	0		
39. Vicia cracca	7	67		
40. Panicum spp.	7	0		
41. Prunella vulgaris	7	0		
42. Viola sp.	0	7		
43. Acer rubrum	0	7		
44. Fraxinus americana	0	7		
45. Asclepias syriaca	0	7		
46. Onoclea sensibilis	0	7		
47. Sisyrinchium mucronatum	0	7		

stop 8
FIELD #9....."FERN FIELD"

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 08/01/88

Frequency data for species on (Field) #9
the Fern field, S.N.H.P.

QUADRATS

SPECIES	FREQUENCY		COVER	
	1988	1989	1988	1989
1. Centaurea spp.	10	0	-	0
2. Potentilla simplex	40	60	-	
3. Andropogon scoparis	10	0	-	0
4. Solidago spp.	60	80	-	
5. Aster spp.	20	0		
6. Hieracium spp.	10	0		
** Grasses	100	100	-	13.4
** Forbs	100	100		99
7. Dennstaedtia punctulobula	50	70		
8. Fragaria virginiana	80	60		
9. Rubus allegheniensis	50	40		
10. Lysimachia quadrifolia	30	0		
11. Hammamelis virginiana	30	30		
12. Achillea millefolium	60	30		
13. Rubus flagellaris	10	0		
14. Smilacina racemiflora	10	40		
15. Trientalis borealis	10	0		
16. Osmunda cinnamomea	10	30		
17. Carex spp.	50	70		
18. Parthenocissus quiquefolia	10	20		
19. Rumex acetosella	10	0		
20. Equisetum arvense	10	20		
21. Viburnum spp.	10	10		
22. Spiraea tomentosa	40	30		
23. Galium aparine	10	0		
24. Onoclea sensibilis	50	50		
25. Rubus hispidus	20	40		
26. Lycopodium americanus	10	10		
27. Juncus spp.	10	0		
28. Lysimachia spp.	10	60		
29. Ranunculus spp.	40	40		
30. Trifolium agrarium	0	30		
31. Apios americana	0	10		
32. Maianthemum canadense	0	10		
33. Viccia cracca	0	10		

FIELD 12.....Fraser Burial Site, Stop #10

SARATOGA NHP

EXOTIC PLANT INVENTORYDATE 08/01/88

Frequency data for species of site (Field) #12

Cover data for *Centauria* spp., *Andropogon scoparius*,
and other grasses and forbs.QUADRATS

SPECIES	FREQUENCY		COVER	
	1988	1989	1988	1989
1. <i>Centauria</i> spp.	20	7	1.7	0.3
2. <i>Potentilla simplex</i>	47	47		
3. <i>Cornus racemosa</i>	67	40		
4. <i>Andropogon scoparius</i>	0	0	0	0
5. <i>Anthoxanthum odoratum</i>				
6. <i>Danthonia spicata</i>				
7. <i>Daucus carota</i>		13		
8. <i>Solidago</i> spp.	100	100		
9. <i>Aster</i> spp.	13	33		
10. <i>Hieracium</i> spp.				
** Grasses	100	100	20.3	4.2
** Forbs	100	100	86	98
11. <i>Lotus corniculatus</i>	7	0		
12. <i>Fragaria virginiana</i>	60	60		
13. <i>Carex</i> spp	27	40		
14. <i>Rubus flagellaris</i>	27			
15. <i>Rubus allegheniensis</i>	47	40		
16. <i>Ranunculus</i> spp.	27	40		
17. <i>Galium aparine</i>	60			
18. <i>Vitis aestivalis</i>	20			
19. <i>Agrimonia</i> sp.	7			
20. <i>Rhus radicans</i>	7	7		
21. <i>Viburnum</i> spp.	13	20		
22. <i>Lysimachia quadrifolia</i>	7	33		
23. <i>Prunella vulgaris</i>	13			
24. <i>Penstemon</i> spp.	7			
25. <i>Crataegus</i> spp.	7			
26. <i>Parthenocissus quinquefolia</i>	7			
27. <i>Trifolium pratense</i>	7			
28. <i>Achillea millefolium</i>	0	13		
29. <i>Trifolium agrarium</i>	0	47		
30. <i>Galium</i>	0	7		
31. <i>Fraxinus americana</i>	0	7		
32. <i>Onoclea sensibilis</i>	0	7		
33. <i>Vitis</i>	0	13		
34. <i>Taraxacum officinale</i>	0	7		
35. <i>Prunus serotina</i>	0	7		
36. <i>Equisetum arvense</i>	0	13		
37. <i>Oxalis stricta</i>	0	13		
38. <i>Lamium amplexicaule</i>	0	7		

June 1991

* entered
Fire Effects. d68

FIELD 1.....Freeman Farm Overlook 1991, Stop #1

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/15/91

Frequency data for species of site (Field) #1
Cover data for Centaurea spp., Andropogon scoparius, and other grasses and
forbs.

QUADRATS

SPECIES	FREQUENCY	COVER
1. Centaurea spp.	47	10.7
2. Potentilla simplex	33	
3. Cornus racemosa	33	3.3
4. Andropogon scoparius		
5. Anthoxanthum odoratum		
6. Danthonia spicata		
7. Daucus carota		
8. Solidago spp.	13	
9. Aster spp.	33	
10. Hieracium spp.		
** Grasses	100	63.3
** Forbs	100	62
11. Galium mollugo	73	
12. Rumex acetosella	7	
13. Fragaria virginiana	27	
17. Linaria vulgaris	20	
18. Dianthus armeria	7	
19. Carex spp.	40	
20. Prunella vulgaris	7	
21. Vicia sativa	20	
22. Rhus radicans	53	
23. Rubus sp.	13	
24. Erigeron strigosus	7	
25. Anemone canadensis	13	
26. Onoclea sensibilis	7	
27. Equisetum arvense	27	
28. Asclepias syriaca	7	
29. Galium verum	13	
30. Hypericum perforatum	7	
31. Parthenocissus quinquefolia	7	
32. Ranunculus sp.	7	
33. Oxalis stricta	7	

FIELD 6....."Control"

SARATOGA HNP
EXOTIC PLANT INVENTORY
DATE 06/15/91

Frequency data for species of site (Field) #6 - Control

QUADRATS

SPECIES	FREQUENCY	COVER
1. Centauria spp.	100	54
2. Potentilla simplex	60	
3. Cornus racemosa	33	1.7
4. Andropogon scoparius		
5. Anthoxanthum oderatum		
6. Danthonia spicata		
7. Daucus carota		
8. Solidago spp.		
9. Aster spp.		
10. Hieracium spp.	73	
** Grasses	100	53.3
** Forbs	100	66.0
13. Fragaria virginiana	53	
14. Thymus serpyllum	47	
15. Trifolium agrarium	7	
16. Vicia sativa	27	
17. Rubus flagellaris	7	
18. Melilotus alba	20	
19. Trifolium repens	7	
20. Chrysanthemum leucanthemum	7	
21. Carex spp.	27	
22. Trifolium hybridum	7	
23. Trifolium agrarium	7	
24. Hypericum perforatum	7	
25. Medicago lupulina	7	

FIELD 6 (10.....QUADRATS - (224)⁹)

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/13/91

Frequency data for species of site (Field) #6 - Burn

Cover data for *Centaurea* spp., *Andropogon scoparius*, and other grasses and forbs.

QUADRATS

SPECIES	FREQUENCY	COVER
1. <i>Centaurea</i> spp.	90	54
2. <i>Potentilla simplex</i>	60	
3. <i>Cornus racemosa</i>	60	3.2
4. <i>Andropogon scoparius</i>		
5. <i>Anthoxanthum odoratum</i>		
6. <i>Danthonia spicata</i>	10	
7. <i>Daucus carota</i>		
8. <i>Solidago</i> spp.		
9. <i>Aster</i> spp.		
10. <i>Hieracium</i> spp.	60	
** Grasses	100	31.0
** Forbs	100	74.0
11. <i>Galium mollugo</i>	20	
12. <i>Rumex acetosella</i>	10	
13. <i>Fragaria virginiana</i>	30	
14. <i>Thymus serpyllum</i>	10	
17. <i>Vicia sativa</i>	40	
18. <i>Asclepias syriaca</i>	10	
19. <i>Hypericum perforatum</i>	10	
20. <i>Carex</i> spp.	10	
21. <i>Rubus flagellaris</i>	20	
22. <i>Lotus corniculatus</i>	10	

FIELD 7.....Bregman Redoubt, Site #7

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/15/91

Frequency data for species of site (Field) #7

Cover data for *Centauria* spp., *Andropogon scoparius*, and other grasses and forbs.

QUADRATS

SPECIES	FREQUENCY	COVER
1. <i>Centauria</i> spp.	85	
2. <i>Potentilla simplex</i>	50	
3. <i>Cornus racemosa</i>	25	
6. <i>Scirpus</i> sp.	5	
7. <i>Penstemon</i> sp.	5	
8. <i>Solidago</i> spp.		
9. <i>Aster</i> spp.	10	
10. <i>Hieracium</i> spp.	10	
** Grasses	100	
** Forbs	100	
11. <i>Galium mollugo</i>	30	
13. <i>Fragaria virginiana</i>	55	
14. <i>Achillea millefolium</i>	15	
15. <i>Phleum canadense</i>	5	
18. <i>Carex</i> spp.	70	
19. <i>Geranium maculatum</i>	35	
20. <i>Juncus</i> spp.	15	
21. <i>Rhus radicans</i>	10	
22. <i>Ranunculus</i> spp.	10	
23. <i>Rosa palustris</i>	60	
24. <i>Crataegus</i> sp.	20	
25. <i>Vicia</i> sp.	5	
26. <i>Trifolium-hybridum</i>	5	
27. <i>Medicago lupulina</i>	15	
28. <i>Prunella vulgaris</i>	5	
30. <i>Anemone canadensis</i>	5	
33. <i>Rudbeckia hirta</i>	5	
34. <i>Melilotus alba</i>	5	
35. <i>Oxalis stricta</i>	10	
36. <i>Hypericum perforatum</i>	5	

FIELD 9....."Fern Field"

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/15/91

Frequency data for species of site (Field)#9

Cover data for *Centauria* spp., *Andropogon scoparius*, and other grasses and forbs.

QUADRATS

SPECIES	FREQUENCY	COVER
1. Scirpus sp.	10	
2. Potentilla simplex	30	
3. Solidago spp.	80	
4. Aster spp.	20	
** Grasses	100	20.6
** Forbs	100	92
5. Spiraea sp.	10	
6. Fragaria virginiana	20	
7. Achillea millefolium	10	
8. Osmunda cinnamomea	10	
9. Onoclea sensibilis	60	
10. Dennstaedtia punctulobula	60	
11. Oxalis stricta	10	
12. Apios americana	10	
13. Uvularia sessiliflora	20	
14. Lysimachia quadrifolia	50	
15. Rubus sp.	40	
16. Carex spp.	70	
17. Parthenosissus quinquefolia	10	
18. Crataegus sp.	20	
19. Anemone canadensis	30	
20. Galium sp.	20	
21. Lysimachia sp.	30	
22. Ranunculus spp.	10	
23. Rubus hispidus	20	
24. Equisetum arvense	20	
25. Rhus radicans	10	
26. Juncus spp.	10	
27. Lycopodium americanus	10	

FIELD 13..... Burned 90 + 91

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/13/91

Frequency data for species of site (Field 13)

Cover data for *Centaurea* spp., *Andropogon scoparius*, and other grasses and forbs.

QUADRATS

SPECIES	FREQUENCY	COVER
2. <i>Centaurea</i> spp.	16	
3. <i>Potentilla simplex</i>	52	
4. <i>Cornus racemosa</i>	20	
5. <i>Andropogon scoparius</i>	48	17
6. <i>Trifolium hybridum</i>	4	
7. <i>Danthonia spicata</i>	4	
8. <i>Apocynum androsaemifolium</i>	4	
9. <i>Solidago</i> spp.	24	
10. <i>Aster</i> spp.	40	
11. <i>Hieracium</i> spp.	12	
** Grasses	100	52.4
** Forbs	96	57.3
12. <i>Plantago lanceolata</i>	16	
13. <i>Rumex acetosella</i>	20	
14. <i>Fragaria virginiana</i>	16	
15. <i>Thymus serpyllum</i>	44	
16. <i>Achillea millefolium</i>	32	
17. <i>Hypericum perforatum</i>	4	
18. <i>Equisetum arvense</i>	40	
19. <i>Rubus flagellaris</i>	12	
20. <i>Xanthoxylum americanum</i>	4	
21. <i>Platanus occidentalis</i>	4	
22. <i>Eupatorium maculatum</i>	16	
23. <i>Vicia sativa</i>	4	
24. <i>Carex</i> spp.	4	
25. <i>Mentha arvensis</i>	8	
26. <i>Rudbeckia hirta</i>	12	
27. <i>Parthenocissus quinquefolia</i>	8	
28. <i>Geranium maculatum</i>	8	
29. <i>Vitis aestivalis</i>	8	
30. <i>Oxalis stricta</i>	4	
31. <i>Melilotus alba</i>	8	
32. <i>Carya</i> sp.	8	
33. <i>Fraxinus americana</i>	8	
34. <i>Asclepias syriaca</i>	4	
35. <i>Rhus glabra</i>	4	
36. <i>Ranunculus</i> spp.	12	

FIELD 14....."14" = New Field

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/13/91

Frequency data for species of site (Field) #14

Cover data for *Centauria* spp., *Andropogon scoparius*, and other grasses and forbs.

QUADRATS

<u>SPECIES</u>	<u>FREQUENCY</u>	<u>COVER</u>
1. <i>Centauria</i> spp.	36	5
2. <i>Potentilla simplex</i>	92	
3. <i>Cornus racemosa</i>	68	
4. <i>Andropogon scoparius</i>	56	17
5. <i>Danthonia spicata</i>	4	
6. <i>Solidago</i> spp.	52	
7. <i>Aster</i> spp.	60	
8. <i>Hieracium</i> spp.	68	
** Grasses	100	41.4
** Forbs	100	62.8
9. <i>Galium mollugo</i>	52	
10. <i>Fragaria virginiana</i>	36	
11. <i>Achillea millefolium</i>	4	
12. <i>Carex</i> spp.	52	
13. <i>Phleum pratense</i>	48	
14. <i>Sisyrinchium</i> sp.	4	
15. <i>Prunus serotina</i>	4	
16. <i>Rubus</i> sp.	36	
17. <i>Rhus radicans</i>	8	
18. <i>Rosa multiflora</i>	12	
19. <i>Linaria canadensis</i>	4	
20. <i>Populus</i> spp.	8	
21. <i>Juncus</i> spp.	4	
22. <i>Ranunculus</i> spp.	8	

Experimental Field, Plot #1

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06/15/92

Frequency data for species at site #1, Experimental Field.
Cover data for *Centaurea* spp., *Andropogon scoparius*, *Cornus racemosa*
other grasses and forbs.

QUADRATS (0.2 x 1.0 m)

SPECIES	FREQUENCY	COVER (%)
1. <i>Centaurea</i> spp.	67	10.3
2. <i>Potentilla simplex</i>	93	
3. <i>Cornus racemosa</i>	20	0.73
4. <i>Andropogon scoparius</i>	0	-
5. <i>Prunella vulgaris</i>	13	
6. <i>Sisyrinchium atlanticum</i>	7	
7. <i>Daucus carota</i>	7	
8. <i>Solidago</i> spp.	40	
9. <i>Aster</i> spp.	13	
10. <i>Hieracium</i> spp.	73	
** Grasses	100	68.7
** Forbs	100	46.0
14. <i>Ranunculus</i> spp.	67	
16. <i>Fragaria virginiana</i>	27	
18. <i>Ulmus americana</i>	7	
20. <i>Carex</i> spp.	100	
21. <i>Oxalis stricta</i>	27	
24. <i>Crataegus</i> spp.	7	
30. <i>Juncus</i> spp.	87	
31. <i>Chrysanthemum leucanthemum</i>	27	
32. <i>Melilotus alba</i>	27	
33. <i>Prunella vulgaris</i>	13	
34. <i>Lotus corniculatus</i>	20	
35. <i>Oenothera parviflora</i>	20	
36. <i>Convolvulus sepium</i>	13	
37. <i>Thymus serpyllum</i>	7	
38. <i>Viburnum</i> spp.	7	

Experimental Field, Plot #2

Dar. Monument Field

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species on the experimental field, plot 2.
Cover data for *Centauria* spp., *Andropogon scoparius*, *Cornus racemosa*,
other grasses and forbs.

SPECIES	F	C
1. <i>Centauria</i> spp.	67	10.7
2. <i>Potentilla simplex</i>	93	
3. <i>Cornus racemosa</i>	0	
4. <i>Andropogon scoparius</i>	0	
5. <i>Rudbeckia hirta</i>	7	
6. <i>Prunella vulgaris</i>	33	
7. <i>Daucus carota</i>	7	
8. <i>Solidago</i> spp.	40	
9. <i>Aster</i> spp.	0	
10. <i>Hieracium</i> spp.	40	
** Grasses	100	84.7
** Forbs	100	43.3
15. <i>Carex</i> spp.	67	
16. <i>Hieracium</i> spp.	40	
21. <i>Juncus</i> spp.	20	
22. <i>Fragaria virginiana</i>	53	
23. <i>Crataegus</i> spp.	13	
24. <i>Vicia</i> sp.	7	
25. <i>Chrysanthemum leucanthemum</i>	27	
26. <i>Convolvulus sepium</i>	13	
27. <i>Trifolium agrarium</i>	7	
28. <i>Oneothesa parviflora</i>	20	
29. <i>Penstemon</i> sp.	7	
30. <i>Lotus corniculatus</i>	7	
31. <i>Stellaria</i> sp.	7	
32. <i>Oxalis stricta</i>	13	
33. <i>Ulmus americana</i>	13	
34. <i>Ranunculus</i> sp.	33	
35. <i>Taraxacum officinale</i>	13	
36. <i>Viburnum</i> spp.	7	
37. <i>Trifolium pratense</i>	7	

Experimental Field, Plot #3

SARATOGA HNP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species on the experimental field, plot #3.

Cover data for *Centauria* spp., *Andropogon scoparius*, *Cornus racemosa*, other grasses and forbs.

SPECIES	F	C
1. <i>Centauria</i> spp.	53	11.0
2. <i>Potentilla simplex</i>	53	
3. <i>Cornus racemosa</i>	40	2.53
4. <i>Andropogon scoparius</i>	0	-
7. <i>Daucus carota</i>	13	
8. <i>Solidago</i> spp.	13	
9. <i>Aster</i> spp.	20	
10. <i>Hieracium</i> spp.	47	
** Grasses	100	94.7
** Forbs	87	21.8
15. <i>Carex</i> spp.	87	
18. <i>Viburnum</i> spp.	13	
21. <i>Juncus</i> spp.	13	
22. <i>Rudbeckia hirta</i>	7	
23. <i>Cerastium</i> sp.	7	
24. <i>Onoethera parviflora</i>	7	
25. <i>Lycopus americana</i>	7	
26. <i>Lotus corniculatus</i>	20	
27. <i>Ranunculus</i> spp.	13	
28. <i>Oxalis stricta</i>	20	

Experimental Field, Plot #4

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species on the experimental field, plot #4.

Cover data for *Centaurea* spp., *Andropogon scoparius*, *Cornus racemosa*, other grasses and forbs.

SPECIES	F	C
1. <i>Centaurea</i> spp.	60	18
2. <i>Potentilla simplex</i>	87	
3. <i>Cornus racemosa</i>	33	0.87
4. <i>Andropogon scoparius</i>	0	
7. <i>Daucus carota</i>	13	
8. <i>Solidago</i> spp.	20	
9. <i>Aster</i> spp.	33	
10. <i>Hieracium</i> spp.	60	
** Grasses	100	76.7
** Forbs	100	66.7
15. <i>Carex</i> spp.	87	
20. <i>Trifolium agrarium</i>	33	
21. <i>Juncus</i> spp.	20	
22. <i>Ranunculus</i> spp.	20	
23. <i>Oxalis stricta</i>	7	
24. <i>Prunella vulgaris</i>	13	
25. <i>Onoclea sensibilis</i>	7	
26. <i>Lotus corniculatus</i>	20	
27. <i>Prunus serotina</i>	7	
28. <i>Crataegus</i> spp.	7	

Experimental Field, Plot #5

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species on the experimental field, plot #5.
Cover data for *Centauria* spp., *Andropogon scoparius*, *Cornus racemosa*, other
grasses and forbs.

SPECIES	F	C
1. <i>Centauria</i> spp.	13	0.67
2. <i>Potentilla simplex</i>	73	
3. <i>Cornus racemosa</i>	20	1.8
4. <i>Andropogon scoparius</i>	0	-
8. <i>Solidago</i> spp.	27	
9. <i>Aster</i> spp.	60	
10. <i>Hieracium</i> spp.	40	
** Grasses	100	97.3
** Forbs	100	25.7
15. <i>Carex</i> spp.	100	
18. <i>Viburnum</i> spp.	7	
19. <i>Ulmus americana</i>	7	
21. <i>Juncus</i> spp.	27	
22. <i>Ranunculus</i> spp.	47	
23. <i>Lotus corniculatus</i>	20	
25. <i>Taraxacum officinale</i>	7	
26. <i>Crysanthemum leucanthemum</i>	7	
27. <i>Oxalis stricta</i>	20	
28. <i>Prunella vulgaris</i>	7	
29. <i>Cerastium</i> sp.	7	
30. <i>Crateagus</i> supp.	7	
31. <i>Lactuca canadensis</i>	7	

Experimental Field, Plot #6

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species on the experimental field, plot #6.

Cover data for *Centaurea* spp., *Andropogon scoparius*, *Cornus racemosa*, other grasses and forbs.

SPECIES	F	C
1. <i>Centaurea</i> spp.	7	0.13
2. <i>Potentilla simplex</i>	73	
3. <i>Cornus racemosa</i>	33	1.13
4. <i>Andropogon scoparius</i>	0	-
8. <i>Solidago</i> spp.	53	-
9. <i>Aster</i> spp.	53	
10. <i>Hieracium</i> spp.	27	
** Grasses	100	97.3
** Forbs	100	33.1
15. <i>Carex</i> spp.	73	
18. <i>Viburnum</i> spp.	27	
19. <i>Ulmus americana</i>	33	
20. <i>Trifolium agrarium</i>	27	
21. <i>Ranunculus</i> spp.	27	
22. <i>Oxalis stricta</i>	27	
23. <i>Crataegus</i> sp.	7	
24. <i>Lotus corniculatus</i>	13	
25. <i>Silene graminifolia</i>	13	
26. <i>Convolvulus sepium</i>	13	

SITE 1 FREEMAN FARM OVERLOOK

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species of site 1

Cover data for *Centauria* spp., *Andropogon scoparius*, *Cornus racemosa*, and other grasses and forbs.

SPECIES	F	C
1. <i>Centauria</i> spp.	33	4.3
2. <i>Potentilla simplex</i>	20	
3. <i>Cornus racemosa</i>	20	+1.0 est.
4. <i>Andropogon scoparius</i>	0	0
5. <i>Aster</i> spp.	7	
6. <i>Hieracium</i> spp.	7	
** Grasses	93	48
** Forbs	100	66.7
7. <i>Thymus serpyllum</i>	7	
8. <i>Achillea millefolium</i>	7	
9. <i>Linaria canadensis</i>	7	
10. <i>Hypericum perforatum</i>	7	
11. <i>Dianthus armeria</i>	7	
12. <i>Lotus corniculata</i>	7	
13. <i>Oxalis stricta</i>	7	
14. <i>Tragopogon dubius</i>	7	
15. <i>Toxicodendron radicans</i>	47	
16. <i>Medicago</i> sp.	13	
17. <i>Rubus allegheniensis</i>	33	
18. <i>Cirsium canadense</i>	13	

FIELD #2 BARBER WHEATFIELD

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-15-92

Frequency data for species of site (Field) #2
Cover data for *Centaurea* spp., *Andropogon scoparius*, *ornus racemosa*,
and other grasses and forbs.

SPECIES	F	C
1. <i>Centaurea</i> spp.	100	58.7
2. <i>Potentilla simplex</i>	93	
3. <i>Cornus racemosa</i>	33	0.90
4. <i>Andropogon scoparius</i>	7	0.67
5. <i>Daucus carota</i>	20	
6. <i>Solidago</i> spp.	13	
7. <i>Aster</i> spp.	47	
8. <i>Hieracium</i> spp.		
** Grasses	100	33
** Forbs	100	80.7
9. <i>Thymus serpyllum</i>	40	
10. <i>Hieracium</i> spp.	40	
11. <i>Trifolium agrarium</i>	20	
12. <i>Rubus flagellaris</i>	27	
13. <i>Melilotus alba</i>	67	
14. <i>Equisetum arvense</i>	13	
15. <i>Silene graminifolia</i>	7	
16. <i>Chrysanthemum leucanthemum</i>	20	
17. <i>Ranunculus</i> spp.	60	
18. <i>Hypericum perforatum</i>	13	
19. <i>Vicia cracca</i>	13	
20. <i>Convolvulus sepium</i>	7	
21. <i>Trifolium pratense</i>	13	
22. <i>Oxalis stricta</i>	7	

FIELD #4 4.5 MILE MARKER 15 Q - RT., 10 Q. LEFT

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-16-92

Frequency data for species of site (Field) #4
Cover data for *Centaurea* spp., *Andropogon scoparius*, *ornus racemosa*,
and other grasses and forbs.

SPECIES	F	C
1. <i>Centaurea</i> spp.	84	49.4
2. <i>Potentilla simplex</i>	28	
3. <i>Cornus racemosa</i>	24	1.44
4. <i>Andropogon scoparius</i>	0	
5. <i>Solidago</i> spp.	4	
6. <i>Aster</i> spp.	16	
7. <i>Hieracium</i> spp.	20	
** Grasses	100	49.4
** Forbs	96	68.3
8. <i>Thymus serpyllum</i>	52	
9. <i>Rumex acetosella</i>	12	
10. <i>Achillea millefolium</i>	4	
11. <i>Carex</i> spp.	20	
12. <i>Hieracium</i> spp.	20	
13. <i>Trifolium agrarium</i>	28	
14. <i>Fragaria virginiana</i>	40	
15. <i>Vicia</i> sp.	16	
16. <i>Hypericum perforatum</i>	12	
17. <i>Taraxacum officinale</i>	4	
18. <i>Silene graminifolia</i>	4	
19. <i>Rubus flagellaris</i>	8	
20. <i>Lotus corniculatus</i>	16	
21. <i>Ranunculus</i> spp.	8	
22. <i>Chrysanthemum leucanthemum</i>	4	
23. <i>Stellaria</i> sp.	4	
24. <i>Crataegus</i> spp.	8	
25. <i>Melilotus alba</i>	4	

"FERN FIELD"

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-16-92

A comparison of frequency data for species on (Field) #9
the Fern field, S.N.H.P.

SPECIES	QUADRATS FREQUENCY		COVER 1988	1992
	1988	1992		
1. Centaurea spp.	10	0	-	0
2. Potentilla simplex	40	10	-	
3. Andropogon scoparius	10	10	-	1.00
4. Solidago spp.	60	70	-	
5. Aster spp.	20	10		
6. Hieracium spp.	10	0		
** Grasses	100	100	-	28.2
** Forbs	100	100		80
7. Dryopteris sp.	50	50		
8. Fragaria virginiana	80	30		
9. Rubus allegheniensis	50	60		
10. Lysimachia quadrifolia	30	50		
11. Hammamelis virginiana	30	0		
12. Achillea millefolium	60	30		
13. Rubus flagellaris	10	0		
14. Smilacina racemiflora	10	20		
15. Trientalis borealis	10	0		
16. Osmunda cinnamomea	10	10		
17. Carex spp.	50	100		
18. Parthenocissus quinquefolia	10	10		
19. Rumex acetosella	10	0		
20. Equisetum arvense	10	10		
21. Viburnum spp.	10	0		
22. Spiraea tomentosa	40	50		
23. Galium aparine	10	10		
24. Onoclea sensibilis	50	60		
25. Rubus hispidus	20	0		
26. Lycopus americanus	10	20		
27. Juncus spp.	10	0		
28. Lysimachia spp.	10	40		
29. Ranunculus spp.	40	40		
30. Trifolium agrarium	0	0		
31. Apios americana	0	0		
32. Maianthemum canadense	0	0		
33. Vicia cracca	0	10		
34. Asclepias syriaca	0	10		
35. Geranium molle	0	40		
36. Toxicodendron radicans	0	10		
37. Fragaria virginiana	0	30		

FIELD #9

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-16-92

Frequency data for species of site (Field) #9
Cover data for *Centaurea* spp., *Andropogon scoparius*, *Cornus racemosa*,
and other grasses and forbs.

SPECIES	FREQUENCY	COVER
1. <i>Centaurea</i> spp.	47	3.27
2. <i>Potentilla simplex</i>	33	
3. <i>Cornus racemosa</i>	40	4.3
4. <i>Andropogon scoparius</i>	33	8.3
5. <i>Daucus carota</i>	7	
6. <i>Solidago</i> spp.	67	
7. <i>Aster</i> spp.	47	
** Grasses	100	45.7
** Forbs	100	35.7
8. <i>Thymus serpyllum</i>	7	
9. <i>Rumex acetosella</i>	27	
10. <i>Achillea millefolium</i>	7	
11. <i>Carex</i> spp.	13	
12. <i>Viburnum</i> spp.	13	
13. <i>Ulmus americana</i>	7	
14. <i>Trifolium agrarium</i>	7	
15. <i>Equisetum arvense</i>	40	
16. <i>Rubus flagellaris</i>	27	
17. <i>Rhus glabra</i>	13	
18. <i>Rubus occidentalis</i>	7	
19. <i>Chrysanthemum leucanthemum</i>	7	
20. <i>Quercus velutina</i>	20	
21. <i>Prunus serotina</i>	7	
22. <i>Rubus phoenicolasius</i>	13	
23. <i>Vitis aestivalis</i>	20	
24. <i>Rhamnus cathartica</i>	20	
25. <i>Fraxinus americana</i>	7	
26. <i>Oxalis stricta</i>	7	
27. <i>Rubus allegheniensis</i>	33	
28. <i>Parthenocissus quinquefolia</i>	13	
29. <i>Physalis viscosa</i>	7	
30. <i>Prunella vulgaris</i>	7	
31. <i>Erigeron strigosus</i> ?	20	

FIELD #10

SARATOGA NHP
EXOTIC PLANT INVENTORY
DATE 06-16-92

Frequency data for species of site (Field) #10
Cover data for *Centauria* spp., *Andropogon scoparius*, *Cornus racemosa*,
and other grasses and forbs.

SPECIES	FREQUENCY	<u>QUADRATS</u>	COVER
1. <i>Centauria</i> spp.	20		2.3
2. <i>Potentilla simplex</i>	73		
3. <i>Cornus racemosa</i>	20		1.9
4. <i>Andropogon scoparius</i>	0		-
5. <i>Carex</i> spp.	27		
6. <i>Daucus carota</i>	20		
7. <i>Solidago</i> spp.	100		
8. <i>Aster</i> spp.	40		
9. <i>Hieracium</i> spp.	7		
** Grasses	100		34.7
** Forbs	100		92.0
10. <i>Fragaria virginiana</i>	27		
11. <i>Achillea millefolium</i>	13		
12. <i>Trifolium pratense</i>	13		
13. <i>Chrysanthemum leucanthemum</i>	7		
14. <i>Anemonella thalictroides</i>	20		
15. <i>Viburnum</i> spp.	13		
16. <i>Taraxacum officinale</i>	20		
17. <i>Rubus allegheniensis</i>	40		
18. <i>Parthenocissus quinquefolia</i>	7		
19. <i>Prunella vulgaris</i>	13		
20. <i>Melilotus alba</i>	20		
21. <i>Galium verum</i>	20		
22. <i>Onoether a parviflora</i>	20		
23. <i>Ranunculus</i> spp.	27		
24. <i>Rhamnus cathartica</i>	27		
25. <i>Vitis aestivalis</i>	13		
26. <i>Fraxinus americana</i>	7		
27. <i>Lysimachia quadrifolia</i>	7		
28. <i>Vicia cracca</i>	13		
29. <i>Equisetum arvense</i>	27		
30. <i>Lycopus americanus</i>	7		
31. <i>Rubus flagellaris</i>	7		
32. <i>Penstemon</i> sp.	7		
33. <i>Oxalis stricta</i>	13		
34. <i>Lotus corniculatus</i>	47		
35. <i>Thymus serpyllum</i>	13		

YEAR

TABLE 1. Frequency data for species on 8 large (210ha) fields, SNHP
Field Location on Figure 1.

SPECIES	FIELD								Avg.
	1	2	3	4	5	6	7	8	
Centaurea jacea	100	87	13	120	53	100	40	20	51.63 64.13
Potentilla simplex	87	73	33	100	33	60	20	47	56.63
Cornus racemosa	40	67	7	47	13	27	60	67	41.00
Andropogon scoparius	-	-	20	-	7	67	47	-	17.63
Anthoxanthum odoratum	-	-	-	-	-	-	-	-	-
Danthonia spicata	-	-	7	20	-	-	-	-	3.38
Daucus carota	13	13	-	13	-	7	-	-	5.75
Solidago spp.	-	47	7	33	13	-	13	100	26.63
Aster spp.	40	53	-	20	7	7	53	13	24.12
Hieracium spp.	-	-	13	20	-	7	47	-	13.88 5.88
Grasses	100	100	100	100	80	100	41	100	85.8 97.5
Forbs	100	100	100	100	94	100	100	100	99.2
Panicum spp.	7	7	7	-	-	-	-	-	2.63
Geranium	53	27	-	27	-	-	20	-	15.88
Trifolium agrarium	40	27	7	20	-	60	-	-	19.25
Prunella vulgaris	27	7	-	20	-	-	7	13	9.25
Antennaria spp.	7	-	-	-	-	-	-	-	.875
Fragaria virginica	53	33	-	47	13	20	67	60	27.69 29.5
Carex spp.	60	13	13	27	7	20	27	27	24.2
Ulmus americana	7	7	7	-	7	-	7	-	4.38
Trifolium pratense	13	13	-	7	-	-	-	7	5
Lycopus americanus	7	-	-	-	-	-	-	-	.875
Phleum pratense	7	13	-	-	-	-	-	-	2.5
Thymus serpyllum	47	-	87	40	-	33	-	-	25.8
Crataegus spp.	7	13	-	-	-	-	-	7	3.37
Rubus flagellaris	7	13	-	33	7	13	27	-	12.5 18.25
Oxalis stricta	13	13	-	-	7	7	20	-	7.5
Vitis	7	7	-	-	-	7	-	-	2.62
Penstemon	-	20	-	-	-	7	-	7	4.25
Bromus	-	13	-	-	-	-	-	-	1.62
Agrimonia	-	33	-	7	-	-	-	7	5.87
Melilotus officinalis	-	7	-	7	-	-	7	-	2.62
Achillea millefolium	-	40	20	7	-	-	13	-	10 9.25
Parthenocissus quinquefolia	-	13	-	-	20	-	-	7	5
Viburnum	-	33	-	7	-	-	-	13	6.62
Galium verum	-	7	-	-	60	33	27	-	21.02 13.38
Rudbeckia hirta	-	13	-	-	-	-	-	-	1.62
Juncus spp.	-	20	-	-	-	13	-	-	4.12
Spiraea tomentosa	-	7	-	-	-	-	-	-	.875
Rhus radicans	-	13	-	13	33	13	-	7	9.87
Rosa	-	7	-	-	-	-	-	-	.875
Prunus serotina	-	7	-	-	-	-	7	-	1.75
Ranunculus	-	13	-	-	7	20	13	27	10
Rumex crispus	-	7	-	-	-	-	-	-	.875
Cicuta maculata	-	7	-	-	-	-	-	-	.875
Hypericum perforata	-	7	-	20	7	-	-	-	4.25
Vicia cracca	-	7	-	-	-	7	-	-	1.75
Plantago lanceolata	-	-	87	-	-	-	-	-	10.87
Rumex acetocella	-	-	60	-	27	-	47	-	12.25 11.75

SPECIES **Cont.**

<u>SPECIES</u>	<u>Cont.</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>FIELD</u>		<u>7</u>	<u>8</u>	<u>Avg.</u>
Viburnum spp.	-	-	13	-	-	-	-	-	-	1.625
Centaurea Mac (spp.)	-	-	-	100	-	-	-	-	-	12.5
Galium aparine	-	-	-	7	-	-	7	60	-	9.25
Crassula	-	-	-	7	-	-	-	-	-	.875
Equisetum arvense	-	-	-	13	13	13	27	-	-	8.25
Cerastium vulgatum	-	-	-	13	-	-	-	-	-	1.625
Pinus strobus	-	-	-	7	-	-	-	-	-	.875
Rubus allegheniensis	-	-	-	-	20	-	20	47	10.87	
Sambucus canadensis	-	-	-	-	7	-	-	-	-	.875
Asclepias syriaca	-	-	-	-	7	-	-	-	-	.875
Glechoma hederacea	-	-	-	-	7	-	-	-	-	.875
Rubus occidentalis	-	-	-	-	7	-	7	-	-	1.75
Linaria vulgaris	-	-	-	-	13	-	-	-	-	1.625
Robinia pseudoacasia	-	-	-	-	7	-	-	-	-	.875
Poynanthemum flexvsum	-	-	-	-	-	73	-	-	-	9.125
Fraxinus americana	-	-	-	-	-	7	7	-	-	1.75
Rudbeckia hirta	-	-	-	-	-	20	7	-	-	3.37
Lycopus americanus	-	-	-	-	-	13	-	-	-	1.625
Cyperus spp.	-	-	-	-	-	13	-	-	-	1.625
Onclea sensibilis	-	-	-	-	-	7	-	-	-	.875
Salix	-	-	-	-	-	7	-	-	-	.875
Eupatorium perfoliatum	-	-	-	-	-	7	-	-	-	.875
Rhus glabra	-	-	-	-	-	(27)	100	-	-	12.5
Vitis festivalis	-	-	-	-	-	-	(13)	20	-	2.27
Hammamelis virginiana	-	-	-	-	-	-	7	-	-	.875
Rubus hispidus	-	-	-	-	-	-	7	-	-	.875
Rhus typhina	-	-	-	-	-	-	7	-	-	.875
Celastrus orbiculatus	-	-	-	-	-	-	7	-	-	.875
Lotus corniculatus	-	-	-	-	-	-	-	7	-	.875
Lysimachia quadrifolia	-	-	-	-	-	-	-	7	-	.875

TABLE 2. Frequency data for species on 4 fields (less than 10ha)
S.N.H.P., New York.

SPECIES	SITES				Avg.
	<u>1</u>	<u>2</u>	<u>4</u>	<u>5</u>	
<i>Centaurea jacea</i>	90	92	88	4	68.5
<i>Potentilla simplex</i>	60	48	60	68	~~59~~ 59
<i>Cornus racemosa</i>	36	40	40	12	32
<i>Andropogon scoparius</i>	-	12	-	100	28
<i>Anthoxanthum odoratum</i>	-	-	-	-	-
<i>Danthonia spicata</i>	12	-	-	-	3
<i>Daucus carota</i>	24	12	20	-	14
<i>Solidago</i> spp.	-	4	8	8	5
<i>Aster</i> spp.	28	20	4	-	13
<i>Hieracium</i> spp.	4	40	8	-	13
Grasses & Sedges & Rushes	100	100	100	100	100
Forbs	100	100	96	96	98
<i>Carex</i> spp.	88	8	8	-	24
<i>Phleum pratense</i>	56	-	-	-	14
<i>Lycopus americana</i>	4	-	-	-	1
<i>Polygonum</i> spp.	4	-	-	-	1
<i>Centaurea</i> spp.	20	-	-	-	5
<i>Geranium</i>	50	16	-	-	16.5
<i>Trifolium agrarium</i>	56	32	-	16	26
<i>Trifolium pratense</i>	28	-	8	-	9
<i>Equisetum arvense</i>	36	-	-	8	11
<i>Juncus</i> spp.	16	-	4	4	6
<i>Galium verum</i>	4	76	-	56	34
<i>Trifolium repens</i>	4	-	-	-	1
<i>Stellaria media</i>	12	-	-	-	3
<i>Oxalis stricta</i>	4	-	-	4	2
<i>Fragaria virginica</i>	28	-	48	20	24
<i>Rumex acetocella</i>	4	-	-	30	8.5
<i>Veronica officinalis</i>	4	-	-	-	1
<i>Melilotus officinalis</i>	8	-	8	-	4
<i>Chrysanthemum leucanthemum</i>	8	-	-	-	2
<i>Viburnum</i> spp.	8	-	-	-	2
<i>Rhus radicans</i>	8	16	4	-	7
<i>Bromus mollis</i>	-	8	-	-	2
<i>Prunella vulgaris</i>	-	12	-	-	3
<i>Thymus sepiphyllifolia</i>	-	40	-	12	13
Black viburnum	-	4	-	-	1
<i>Fragaria virginiana</i>	-	36	-	-	9
<i>Hypericum perforatum</i>	-	8	4	-	3
<i>Potentilla recta</i>	-	4	-	-	1
<i>Ranunculus</i> spp.	-	20	20	-	10
<i>Trifolium red</i>	-	4	-	-	1
<i>Viburnum</i>	-	84	8	-	23
<i>Ulmus americana</i>	-	4	-	-	1
<i>Rubus flagellaris</i>	-	-	28	32	15
<i>Prunus serotina</i>	-	-	12	-	3
<i>Achillea millefolium</i>	-	-	20	76	24
<i>Rosa</i>	-	-	48	-	12
<i>Crateagus</i> spp.	-	-	20	-	5

SPECIES Cont.

	<u>1</u>	<u>2</u>	<u>SITES</u> <u>4</u>	<u>5</u>	<u>Avg.</u>
Penstemon	-	-	4	-	1
Erigeron strigosus	-	-	4	-	1
Antennaria plantaginifolia	-	-	-	4	1
Equisetum hyemale	-	-	-	12	3

Table 3 Cover data for Centurea spp. Andropogon scoparius, grasses, sedges
and Rushes and forbs on 4 fields (less than 10 ha) S.N.H.P., New York.

SPECIES	SITES				Aver
	1	2	4	5	
<i>Centauria jacea</i>	19	41.5	24.8	0.8	21.5
<i>Andropogon scoparius</i>	0	0.8	0	44	5.6
Grasses & sedges & rushes	66	61	57.2	77.7	65.4
Forbs	58.5	65.2	53.6	17.9	48.8
~~Erigeron~~					4

Table 4 Cover Data - for Centaurea spp., Andropogon scoparius, grasses, sedges, rushes and forbs
8 Large Fields (greater than 10 ha), S.N.H.P., New York

Species	1	2	3	4	5	6	7	8	Average
Centaurea	30.3	23	1.6	56	9.4	21.3	4.1	1.7	18.43
Andropogon	0	0	5	0	1	31.3	13	0	6.29
Grasses	45.3	58	55	21.1	38.1	62.3	41.4	20.3	42.69
Forbs	51.3	60	53.8	93.3	53.7	46.7	51.3	86	62.01