



VEGETATION - Use scientific names of plants

Sampling Point: A-6

Tree Stratum	Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>	70	Y	FACW
2	<i>Ulmus americana</i>	30	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				

50/20 Thresholds		
	20%	50%
Tree Stratum	20	50
Sapling/Shrub Stratum	20	50
Herb Stratum	20	50
Woody Vine Stratum	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>6</u> (A)		
Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		

Sapling/Shrub Stratum	Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>	75	Y	FACW
2	<i>Ulmus americana</i>	25	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	60 x 1 =	60
FACW species	210 x 2 =	420
FAC species	30 x 3 =	90
FACU species	0 x 4 =	0
UPL species	0 x 5 =	0
Column totals	300 (A)	570 (B)
Prevalence Index = B/A =		1.90

Herb Stratum	Plot Size ( 5 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Calamagrostis canadensis</i>	60	Y	OBL
2	<i>Urtica dioica</i>	30	Y	FAC
3	<i>Onoclea sensibilis</i>	10	N	FACW
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Hydrophytic Vegetation Indicators:	
Rapid test for hydrophytic vegetation	
<input checked="" type="checkbox"/>	Dominance test is >50%
<input checked="" type="checkbox"/>	Prevalence index is ≤3.0*
Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)	
Problematic hydrophytic vegetation* (explain)	
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	

Definitions of Vegetation Strata:	
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines - All woody vines greater than 3.28 ft in height.	

Woody Vine Stratum	Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				

Hydrophytic vegetation present?	<u>Y</u>
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Remarks: (Include photo numbers here or on a separate sheet)









VEGETATION - Use scientific names of plants

Sampling Point: A-7

Tree Stratum	Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Quercus rubra</i>	50	Y	FACU
2	<i>Fraxinus americana</i>	40	Y	FACU
3	<i>Populus tremuloides</i>	10	N	FAC
4				
5				
6				
7				
8				
9				
10				
		100 = Total Cover		

Sapling/Shrub Stratum	Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Quercus rubra</i>	50	Y	FACU
2	<i>Fraxinus americana</i>	30	Y	FACU
3	<i>Corylus americana</i>	10	N	FACU
4	<i>Populus tremuloides</i>	10	N	FAC
5				
6				
7				
8				
9				
10				
		100 = Total Cover		

Herb Stratum	Plot Size ( 5 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Carex pensylvanica</i>	70	Y	UPL
2	<i>Aster macrophyllus</i>	20	Y	UPL
3	<i>Vaccinium angustifolium</i>	10	N	FACU
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		100 = Total Cover		

Woody Vine Stratum	Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0 = Total Cover		

50/20 Thresholds		
	20%	50%
Tree Stratum	20	50
Sapling/Shrub Stratum	20	50
Herb Stratum	20	50
Woody Vine Stratum	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A)		
Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>0.00%</u> (A/B)		

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>0</u> x 1 =	<u>0</u>
FACW species	<u>0</u> x 2 =	<u>0</u>
FAC species	<u>20</u> x 3 =	<u>60</u>
FACU species	<u>190</u> x 4 =	<u>760</u>
UPL species	<u>90</u> x 5 =	<u>450</u>
Column totals	<u>300</u> (A)	<u>1270</u> (B)
Prevalence Index = B/A = <u>4.23</u>		

**Hydrophytic Vegetation Indicators:**  
 Rapid test for hydrophytic vegetation  
 Dominance test is >50%  
 Prevalence index is ≤3.0\*  
 Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)  
 Problematic hydrophytic vegetation\* (explain)  
 \*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Vegetation Strata:**  
**Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
**Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  
**Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
**Woody vines** - All woody vines greater than 3.28 ft in height.

**Hydrophytic vegetation present?** N

Remarks: (Include photo numbers here or on a separate sheet)





## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Fairview Cranberry-Smart Sand Site City/County: Monroe Sampling Date: 9/22/11  
 Applicant/Owner: Fairview Cranberry Company, LLC. State: Wisconsin Sampling Point: B-1  
 Investigator(s): Gary W. Starzinski Section, Township, Range: Sec.8,T 17 N-R 1 E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave  
 Slope (%): 1% Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Newson Mucky Sand NWI Classification: Hardwood Swamp  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No Are "normal  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No circumstances" present? Yes  
 (If needed, explain any answers in remarks)

### SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="height: 40px;"></div>	

### HYDROLOGY

<b>Primary Indicators</b> (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living <input checked="" type="checkbox"/> Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<b>Secondary Indicators</b> (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Microtopographic Relief (D4)
<b>Field Observations:</b> Surface water present? Yes _____ No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>12</u> Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)		<b>Indicators of wetland hydrology present?</b> <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  <div style="padding-left: 20px;">Soil maps and GIS photos.</div>		
Remarks:		

VEGETATION - Use scientific names of plants

Sampling Point: B-1

Tree Stratum					50/20 Thresholds		
Plot Size ( 30 FT. )		Absolute % Cover	Dominant Species	Indicator Status		20%	50%
1	<i>Acer negundo</i>	80	Y	FACW	Tree Stratum	20	50
2	<i>Fraxinus nigra</i>	20	Y	FACW	Sapling/Shrub Stratum	20	50
3					Herb Stratum	20	50
4					Woody Vine Stratum	0	0
5							
6							
7							
8							
9							
10							
		100	= Total Cover				
Sapling/Shrub Stratum					Dominance Test Worksheet		
Plot Size ( 30 FT. )		Absolute % Cover	Dominant Species	Indicator Status	Number of Dominant Species that are OBL, FACW, or FAC: <u>6</u> (A)		
1	<i>Acer negundo</i>	90	Y	FACW	Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
2	<i>Fraxinus nigra</i>	10	N	FACW	Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		
3							
4							
5							
6							
7							
8							
9							
10							
		100	= Total Cover				
Herb Stratum					Prevalence Index Worksheet		
Plot Size ( 5 FT. )		Absolute % Cover	Dominant Species	Indicator Status	Total % Cover of:		
1	<i>Calamagrostis canadensis</i>	40	Y	OBL	OBL species	<u>40</u> x 1 =	<u>40</u>
2	<i>Urtica dioica</i>	40	Y	FAC	FACW species	<u>220</u> x 2 =	<u>440</u>
3	<i>Onoclea sensibilis</i>	20	Y	FACW	FAC species	<u>40</u> x 3 =	<u>120</u>
4					FACU species	<u>0</u> x 4 =	<u>0</u>
5					UPL species	<u>0</u> x 5 =	<u>0</u>
6					Column totals	<u>300</u> (A)	<u>600</u> (B)
7					Prevalence Index = B/A =		<u>2.00</u>
8							
9							
10							
11							
12							
13							
14							
15							
		100	= Total Cover				
Woody Vine Stratum					Hydrophytic Vegetation Indicators:		
Plot Size ( )		Absolute % Cover	Dominant Species	Indicator Status	<input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
1					<b>Definitions of Vegetation Strata:</b>  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.		
2							
3							
4							
5							
		0	= Total Cover		<b>Hydrophytic vegetation present?</b> <u>Y</u>		

Remarks: (Include photo numbers here or on a separate sheet)





**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Fairview Cranberry-Smart Sand Site City/County: Monroe Sampling Date: 9/22/11  
 Applicant/Owner: Fairview Cranberry Company, LLC. State: Wisconsin Sampling Point: B-2  
 Investigator(s): Gary W. Starzinski Section, Township, Range: Sec.8,T 17 N-R 1 E  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex  
 Slope (%): 3% Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Tarr Sand NWI Classification: Upland  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No Are "normal  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No circumstances" present? Yes  
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

Hydrophytic vegetation present? <u>    N    </u> Hydric soil present? <u>    N    </u> Indicators of wetland hydrology present? <u>    N    </u>	Is the sampled area within a wetland? <u>    N    </u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  _____  _____	

**HYDROLOGY**

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Microtopographic Relief (D4)
Field Observations: Surface water present? Yes _____ No <u>    X    </u> Depth (inches): _____ Water table present? Yes _____ No <u>    X    </u> Depth (inches): _____ Saturation present? Yes _____ No <u>    X    </u> Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>    N    </u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Soil maps and GIS photos.		
Remarks:  _____  _____		



**VEGETATION** - Use scientific names of plants

Sampling Point: B-2

Tree Stratum					50/20 Thresholds		
Plot Size ( 30 FT. )		Absolute % Cover	Dominant Species	Indicator Status	20%	50%	
1	<i>Quercus rubra</i>	50	Y	FACU	20	50	
2	<i>Fraxinus americana</i>	50	Y	FACU	18	45	
3					20	50	
4					0	0	
5							
6							
7							
8							
9							
10							
		100	= Total Cover				
Sapling/Shrub Stratum					Dominance Test Worksheet		
Plot Size ( 30 FT. )		Absolute % Cover	Dominant Species	Indicator Status	Number of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A)		
1	<i>Quercus rubra</i>	50	Y	FACU	Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
2	<i>Fraxinus americana</i>	30	Y	FACU	Percent of Dominant Species that are OBL, FACW, or FAC: <u>0.00%</u> (A/B)		
3	<i>Corylus americana</i>	10	N	FACU			
4							
5							
6							
7							
8							
9							
10							
		90	= Total Cover				
Herb Stratum					Prevalence Index Worksheet		
Plot Size ( 5 FT. )		Absolute % Cover	Dominant Species	Indicator Status	Total % Cover of:		
1	<i>Carex pensylvanica</i>	70	Y	UPL	OBL species	0	x 1 = 0
2	<i>Aster macrophyllus</i>	20	Y	UPL	FACW species	0	x 2 = 0
3	<i>Vaccinium angustifolium</i>	10	N	FACU	FAC species	0	x 3 = 0
4					FACU species	200	x 4 = 800
5					UPL species	90	x 5 = 450
6					Column totals	290 (A)	1250 (B)
7					Prevalence Index = B/A =	<u>4.31</u>	
8							
9							
10							
11							
12							
13							
14							
15							
		100	= Total Cover				
Woody Vine Stratum					Hydrophytic Vegetation Indicators:		
Plot Size ( )		Absolute % Cover	Dominant Species	Indicator Status	<input type="checkbox"/> Rapid test for hydrophytic vegetation <input type="checkbox"/> Dominance test is >50% <input type="checkbox"/> Prevalence index is ≤3.0* <input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic hydrophytic vegetation* (explain)		
1					*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
2							
3							
4							
5							
		0	= Total Cover				
					Definitions of Vegetation Strata:		
					<b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.		
					<b>Hydrophytic vegetation present?</b> <u>N</u>		
Remarks: (Include photo numbers here or on a separate sheet)							





**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Fairview Cranberry-Smart Sand Site City/County: Monroe Sampling Date: 9/22/11  
 Applicant/Owner: Fairview Cranberry Company, LLC. State: Wisconsin Sampling Point: B-3  
 Investigator(s): Gary W. Starzinski Section, Township, Range: Sec.8,T 17 N-R 1 E  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex  
 Slope (%): 3% Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Ironrun Loamy Sand NWI Classification: Upland  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No Are "normal"  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No circumstances" present? Yes  
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

Hydrophytic vegetation present? <u>    N    </u> Hydric soil present? <u>    N    </u> Indicators of wetland hydrology present? <u>    N    </u>	<b>Is the sampled area within a wetland?</b> <u>    N    </u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  _____ _____	

**HYDROLOGY**

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial <input type="checkbox"/> Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Microtopographic Relief (D4)
Field Observations: Surface water present? Yes _____ No <u>    X    </u> Depth (inches): _____ Water table present? Yes _____ No <u>    X    </u> Depth (inches): _____ Saturation present? Yes _____ No <u>    X    </u> Depth (inches): _____ (includes capillary fringe)	<b>Indicators of wetland hydrology present?</b> <u>    N    </u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Soil maps and GIS photos.	
Remarks:  _____ _____	

VEGETATION - Use scientific names of plants

Sampling Point: B-3

Tree Stratum					50/20 Thresholds		
Plot Size ( 30 FT. )		Absolute % Cover	Dominant Species	Indicator Status		20%	50%
1	<i>Quercus rubra</i>	50	Y	FACU	Tree Stratum	20	50
2	<i>Fraxinus americana</i>	50	Y	FACU	Sapling/Shrub Stratum	18	45
3					Herb Stratum	20	50
4					Woody Vine Stratum	0	0
5					<b>Dominance Test Worksheet</b>		
6					Number of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A)		
7					Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
8					Percent of Dominant Species that are OBL, FACW, or FAC: <u>0.00%</u> (A/B)		
9					<b>Prevalence Index Worksheet</b>		
10		100	= Total Cover		Total % Cover of:		
					OBL species <u>0</u> x 1 = <u>0</u>		
					FACW species <u>0</u> x 2 = <u>0</u>		
					FAC species <u>0</u> x 3 = <u>0</u>		
					FACU species <u>200</u> x 4 = <u>800</u>		
					UPL species <u>90</u> x 5 = <u>450</u>		
					Column totals <u>290</u> (A) <u>1250</u> (B)		
					Prevalence Index = B/A = <u>4.31</u>		
Sapling/Shrub Stratum					Hydrophytic Vegetation Indicators:		
Plot Size ( 30 FT. )		Absolute % Cover	Dominant Species	Indicator Status	<input type="checkbox"/> Rapid test for hydrophytic vegetation <input type="checkbox"/> Dominance test is >50% <input type="checkbox"/> Prevalence index is ≤3.0* <input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
1	<i>Quercus rubra</i>	50	Y	FACU	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.		
2	<i>Fraxinus americana</i>	30	Y	FACU			
3	<i>Corylus americana</i>	10	N	FACU			
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15		90	= Total Cover				
Herb Stratum					Hydrophytic vegetation present? <u>N</u>		
Plot Size ( 5 FT. )		Absolute % Cover	Dominant Species	Indicator Status			
1	<i>Carex pensylvanica</i>	70	Y	UPL			
2	<i>Aster macrophyllus</i>	20	Y	UPL			
3	<i>Vaccinium angustifolium</i>	10	N	FACU			
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
		100	= Total Cover				
Woody Vine Stratum							
Plot Size ( )		Absolute % Cover	Dominant Species	Indicator Status			
1							
2							
3							
4							
5							
		0	= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet)





## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Fairview Cranberry-Smart Sand Site City/County: Monroe Sampling Date: 9/22/11  
 Applicant/Owner: Fairview Cranberry Company, LLC. State: Wisconsin Sampling Point: B-4  
 Investigator(s): Gary W. Starzinski Section, Township, Range: Sec. 8, T 17 N-R 1 E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave  
 Slope (%): 1% Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Newson Mucky Sand NWI Classification: Hardwood Swamp  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No Are "normal  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No circumstances" present? Yes  
 (If needed, explain any answers in remarks)

### SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="height: 40px;"></div>	

### HYDROLOGY

<b>Primary Indicators</b> (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living <input checked="" type="checkbox"/> Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<b>Secondary Indicators</b> (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Microtopographic Relief (D4)
<b>Field Observations:</b> Surface water present? Yes <u>      </u> No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>12</u> Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)		<b>Indicators of wetland hydrology present?</b> <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  <div style="border: 1px solid black; padding: 5px; min-height: 20px;">           Soil maps and GIS photos.         </div>		
Remarks:		



VEGETATION - Use scientific names of plants

Sampling Point: B-4

Tree Stratum		Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>		80	Y	FACW
2	<i>Ulmus americana</i>		20	Y	FACW
3					
4					
5					
6					
7					
8					
9					
10					

50/20 Thresholds		
	20%	50%
Tree Stratum	20	50
Sapling/Shrub Stratum	20	50
Herb Stratum	20	50
Woody Vine Stratum	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>6</u> (A)		
Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		

Sapling/Shrub Stratum		Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>		90	Y	FACW
2	<i>Ulmus americana</i>		10	N	FACW
3					
4					
5					
6					
7					
8					
9					
10					

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>40</u> x 1 =	<u>40</u>
FACW species	<u>220</u> x 2 =	<u>440</u>
FAC species	<u>40</u> x 3 =	<u>120</u>
FACU species	<u>0</u> x 4 =	<u>0</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>300</u> (A)	<u>600</u> (B)
Prevalence Index = B/A = <u>2.00</u>		

Herb Stratum		Plot Size ( 5 FT. )	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Calamagrostis canadensis</i>		40	Y	OBL
	<i>Urtica dioica</i>		40	Y	FAC
3	<i>Onoclea sensibilis</i>		20	Y	FACW
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Hydrophytic Vegetation Indicators:	
Rapid test for hydrophytic vegetation	
<input checked="" type="checkbox"/>	Dominance test is >50%
<input checked="" type="checkbox"/>	Prevalence index is ≤3.0*
Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)	
Problematic hydrophytic vegetation* (explain)	
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	

Woody Vine Stratum		Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status
1					
2					
3					
4					
5					

Definitions of Vegetation Strata:	
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines - All woody vines greater than 3.28 ft in height.	

Hydrophytic vegetation present?	<u>Y</u>
---------------------------------	----------

Remarks: (Include photo numbers here or on a separate sheet)





**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Fairview Cranberry-Smart Sand Site City/County: Monroe Sampling Date: 9/22/11  
 Applicant/Owner: Fairview Cranberry Company, LLC. State: Wisconsin Sampling Point: B-5  
 Investigator(s): Gary W. Starzinski Section, Township, Range: Sec.8,T 17 N-R 1 E  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex  
 Slope (%): 3% Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Tarr Sand NWI Classification: Upland  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No Are "normal  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No circumstances" present? Yes  
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

Hydrophytic vegetation present? <u>    N    </u> Hydric soil present? <u>    N    </u> Indicators of wetland hydrology present? <u>    N    </u>	Is the sampled area within a wetland? <u>    N    </u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  	

**HYDROLOGY**

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial <input type="checkbox"/> Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Microtopographic Relief (D4)	Field Observations: Surface water present?    Yes _____ No <u>  X  </u> Depth (inches): _____ Water table present?      Yes _____ No <u>  X  </u> Depth (inches): _____ Saturation present?      Yes _____ No <u>  X  </u> Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u>    N    </u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Soil maps and GIS photos.			
Remarks:			

VEGETATION - Use scientific names of plants

Sampling Point: B-5

Tree Stratum					50/20 Thresholds		
	Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status	20%	50%	
1	<i>Quercus rubra</i>	50	Y	FACU	Tree Stratum	20	50
2	<i>Fraxinus americana</i>	50	Y	FACU	Sapling/Shrub Stratum	18	45
3					Herb Stratum	20	50
4					Woody Vine Stratum	0	0
5					<b>Dominance Test Worksheet</b>		
6					Number of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A)		
7					Total Number of Dominant Species Across all Strata: <u>6</u> (B)		
8					Percent of Dominant Species that are OBL, FACW, or FAC: <u>0.00%</u> (A/B)		
9					<b>Prevalence Index Worksheet</b>		
10					Total % Cover of:		
		100	= Total Cover		OBL species <u>0</u> x 1 = <u>0</u>		
					FACW species <u>0</u> x 2 = <u>0</u>		
					FAC species <u>0</u> x 3 = <u>0</u>		
					FACU species <u>190</u> x 4 = <u>760</u>		
					UPL species <u>90</u> x 5 = <u>450</u>		
					Column totals <u>280</u> (A) <u>1210</u> (B)		
					Prevalence Index = B/A = <u>4.32</u>		
Sapling/Shrub Stratum					<b>Hydrophytic Vegetation Indicators:</b>		
	Plot Size ( 30 FT. )	Absolute % Cover	Dominant Species	Indicator Status	Rapid test for hydrophytic vegetation		
1	<i>Quercus rubra</i>	50	Y	FACU	Dominance test is >50%		
2	<i>Fraxinus americana</i>	30	Y	FACU	Prevalence index is ≤3.0*		
3		10	N		Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)		
4					Problematic hydrophytic vegetation* (explain)		
5					*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
6					<b>Definitions of Vegetation Strata:</b>		
7					<b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
8					<b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
9					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
10					<b>Woody vines</b> - All woody vines greater than 3.28 ft in height.		
11					<b>Hydrophytic vegetation present?</b> <u>N</u>		
12							
13							
14							
15							
		90	= Total Cover				
Herb Stratum							
	Plot Size ( 5 FT. )	Absolute % Cover	Dominant Species	Indicator Status			
1	<i>Carex pensylvanica</i>	70	Y	UPL			
2	<i>Aster macrophyllus</i>	20	Y	UPL			
3	<i>Vaccinium angustifolium</i>	10	N	FACU			
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
		100	= Total Cover				
Woody Vine Stratum							
	Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status			
1							
2							
3							
4							
5							
		0	= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet)









Fairview Cranberry Co., LLC  
9/20/11



SOUTH OF OLD RACHLAD XING ROAD



EAST OF " " " "





*RAILROAD TO EAST*



11

*TO WEST*



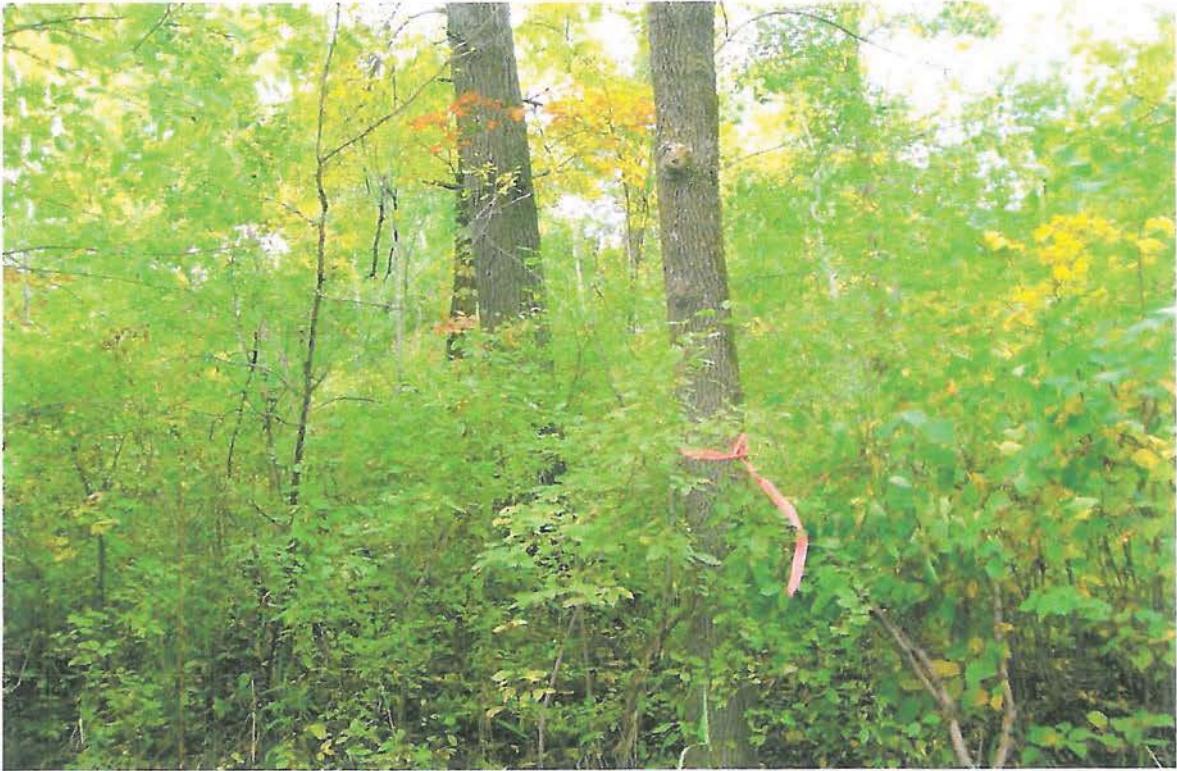


B-3



RR DITCH SOUTH OF B-3





B4 TO B-3



B-3 TO B4





CAUPLANDS ALONG EAST P/L



EAST P/L TO SOUTH





*EAST P/L SOUTH TO RAILROAD*



*"CHEE-CHEE" TRAIN*





*NE PROPERTY CORNER*



*NE " " TO WEST ALONG*

*HWY 104*





May 12<sup>th</sup> 16 East of NW Property corner



Hardwood Swamp Along May 12<sup>th</sup> 16  
at proposed NW





*Hwy 12916 ROAD SLEUTHORA*



*Co. Hwy N To NW*





*BEAR CREEK SOUTH OF Hwy 12416*



*ACCESS POINT OFF Hwy 12416 TO A-3*





*Hwy N TO NORTH Hwy 12416*



*Hwy 12416 EAST OVER BEAR CREEK*





A-14



B-1 TO W135T





*BEAR CREEK WEST OF B-1*



*CHO BRIDGE XING BEAR CREEK - NORTH OF RR*





*BRNA CRANK BRIDGE AT RR*



*RAILROAD*





*RR TO WEST & SOUTH OF A-1*



*BEAR CREEK SOUTH OF RR*





RR TO EAST & SOUTH OF B-2



B-2





B-2 TO B-3



B-5 TO B-4, Parrotly Ash





"BUCK STAND" NEAR SE PROPERTY CORNER



Wms hanko Ahono Hwy 129/16





A-1 TO WEST



A-2 TO SOUTH





A-3 TO NE



A-3





AT PROP. CORN. SOUTH OF A-8 TO WEST



" " " " TO EAST & BEAR CREEK





*"TEXAS TOWER" ALONG BEAR CREEK*



*AT RR GRADE TO EAST TO BEAR CREEK*



## Elements by Townrange for Monroe County

The Natural Heritage Inventory (NHI) database contains recent and historic element (rare species and natural community) observations. A generalized version of the NHI database is provided below as a general reference and should not be used as a substitute for a WI Dept of Natural Resources NHI review of a specific project area. The NHI database is dynamic, records are continually being added and/or updated. The following data are current as of 11/04/2011:

### Town Range

Scientific Name	Common Name	State Status	Federal Status	State Rank	Global Rank	Group Name
<i>Platanthera hookeri</i>	Hooker's Orchid	SC		S2	G4	Plant
<b>015N001E</b>						
<i>Aconitum noveboracense</i>	Northern Wild Monkshood	THR	LT	S2	G3	Plant
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<b>015N001W</b>						
<i>Dry cliff</i>	Dry Cliff	NA		S4	G4G5	Community
<i>Empidonax virescens</i>	Acadian Flycatcher	THR		S3B	G5	Bird
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC/P		S4B,S4N	G5	Bird-
<i>Hemlock relict</i>	Hemlock Relict	NA		S2	G2Q	Community
<i>Liodessus cantralli</i>	Cantrall's Bog Beetle	SC/N		S2S3	GNR	Beetle-
<i>Moist cliff</i>	Moist Cliff	NA		S4	GNR	Community
<i>Silene nivea</i>	Snowy Campion	THR		S2	G4?	Plant
<i>Southern mesic forest</i>	Southern Mesic Forest	NA		S3	G3?	Community
<b>015N002W</b>						
<i>Adoxa moschatellina</i>	Musk-root	THR		S2	G5	Plant
<i>Diarrhena obovata</i>	Beak Grass	END		S2	G4G5	Plant
<i>Dry cliff</i>	Dry Cliff	NA		S4	G4G5	Community
<i>Empidonax virescens</i>	Acadian Flycatcher	THR		S3B	G5	Bird
<i>Hemlock relict</i>	Hemlock Relict	NA		S2	G2Q	Community
<i>Houstonia caerulea</i>	Azure Bluets	SC		S2	G5	Plant
<i>Moist cliff</i>	Moist Cliff	NA		S4	GNR	Community
<i>Northern mesic forest</i>	Northern Mesic Forest	NA		S4	G4	Community
<i>Pine relict</i>	Pine Relict	NA		S2	G4	Community
<i>Southern mesic forest</i>	Southern Mesic Forest	NA		S3	G3?	Community
<b>015N003W</b>						
<i>Silene nivea</i>	Snowy Campion	THR		S2	G4?	Plant
<b>015N004W</b>						
<i>Allogona profunda</i>	Broad-banded Forestsnail	SC/N		S2S3	G5	Snail
<i>Arabis shortii</i>	Short's Rock-cress	SC		S1S2	G5	Plant
<i>Bartramia longicauda</i>	Upland Sandpiper	SC/M		S2B	G5	Bird
<i>Carex careyana</i>	Carey's Sedge	THR		S1	G4G5	Plant
<i>Dendroica cerulea</i>	Cerulean Warbler	THR		S2S3B	G4	Bird
<i>Diplazium pycnocarpon</i>	Glade Fern	SC		S2	G5	Plant
<i>Dry cliff</i>	Dry Cliff	NA		S4	G4G5	Community
<i>Empidonax virescens</i>	Acadian Flycatcher	THR		S3B	G5	Bird
<i>Hendersonia occulta</i>	Cherrystone Drop	THR		S2S3	G4	Snail
<i>Hydrophyllum appendiculatum</i>	Great Water-leaf	SC		S2S3	G5	Plant
<i>Jeffersonia diphylla</i>	Twinleaf	SC		S3	G5	Plant
<i>Lithobates palustris</i>	Pickerel Frog	SC/H		S3?	G5	Frog-
<i>Oporornis formosus</i>	Kentucky Warbler	THR		S1S2?B	G5	Bird



Town Range		State	Federal	State	Global	Group
Scientific Name	Common Name	Status	Status	Rank	Rank	Name
<i>Poa sylvestris</i>	Woodland Bluegrass	SC		S1	G5	Plant
<i>Southern dry-mesic forest</i>	Southern Dry-mesic Forest	NA		S3	G4	Community
<i>Southern mesic forest</i>	Southern Mesic Forest	NA		S3	G3?	Community
<b>016N001E</b>						
<i>Moist cliff</i>	Moist Cliff	NA		S4	GNR	Community
<i>Pine relict</i>	Pine Relict	NA		S2	G4	Community
<i>Stream--fast, hard, cold</i>	Stream--Fast, Hard, Cold	NA		S4	GNR	Community-
<b>016N001W</b>						
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Liodessus cantralli</i>	Cantrall's Bog Beetle	SC/N		S2S3	GNR	Beetle-
<b>016N002W</b>						
<i>Alder thicket</i>	Alder Thicket	NA		S4	G4	Community-
<i>Ammodramus henslowii</i>	Henslow's Sparrow	THR		S2S3B	G4	Bird
<i>Bat Hibernaculum</i>	Bat Hibernaculum	SC		S3	GNR	Other
<i>Dendroica cerulea</i>	Cerulean Warbler	THR		S2S3B	G4	Bird
<i>Empidonax virescens</i>	Acadian Flycatcher	THR		S3B	G5	Bird
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Forested seep</i>	Forested Seep	NA		S2	GNR	Community-
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Herp Hibernaculum</i>	Herp Hibernaculum	SC		SU	GNR	Other
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	THR		S1S3	G4	Mammal
<i>Southern dry-mesic forest</i>	Southern Dry-mesic Forest	NA		S3	G4	Community
<i>Southern sedge meadow</i>	Southern Sedge Meadow	NA		S3	G4?	Community-
<b>016N003W</b>						
<i>Bat Hibernaculum</i>	Bat Hibernaculum	SC		S3	GNR	Other
<i>Crotalus horridus</i>	Timber Rattlesnake	SC/P		S2S3	G4	Snake
<i>Dry prairie</i>	Dry Prairie	NA		S3	G3	Community
<i>Enallagma traviatum</i>	Slender Bluet	SC/N		S1S3	G5	Dragonfly-
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	THR		S1S3	G4	Mammal
<i>Polytaenia nuttallii</i>	Prairie Parsley	THR		S2	G5	Plant
<i>Southern dry forest</i>	Southern Dry Forest	NA		S3	G4	Community
<b>016N004W</b>						
<i>Crotalus horridus</i>	Timber Rattlesnake	SC/P		S2S3	G4	Snake
<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC/P		S4B,S4N	G5	Bird-
<b>016N005W</b>						
<i>Dry-mesic prairie</i>	Dry-mesic Prairie	NA		S2	G3	Community
<i>Nothocalais cuspidata</i>	Prairie False-dandelion	SC		S2	G5	Plant
<i>Sand barrens</i>	Sand Barrens	NA		SU	GNR	Community
<i>Southern sedge meadow</i>	Southern Sedge Meadow	NA		S3	G4?	Community-
<b>017N001E</b>						
<i>Dry cliff</i>	Dry Cliff	NA		S4	G4G5	Community
<i>Dry-mesic prairie</i>	Dry-mesic Prairie	NA		S2	G3	Community
<i>Eleocharis engelmannii</i>	Engelmann's Spike-rush	SC		S1	G4G5Q	Plant-
<i>Floodplain forest</i>	Floodplain Forest	NA		S3	G3?	Community-
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Moist cliff</i>	Moist Cliff	NA		S4	GNR	Community
<i>Northern dry forest</i>	Northern Dry Forest	NA		S3	G3?	Community



Town Range		State	Federal	State	Global	Group
Scientific Name	Common Name	Status	Status	Rank	Rank	Name
<i>Northern dry-mesic forest</i>	Northern Dry-mesic Forest	NA		S3	G4	Community
<i>Phemeranthus rugospermus</i>	Prairie Fame-flower	SC		S3	G3G4	Plant
<i>Southern dry-mesic forest</i>	Southern Dry-mesic Forest	NA		S3	G4	Community
<b>017N001W</b>						
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Southern dry-mesic forest</i>	Southern Dry-mesic Forest	NA		S3	G4	Community
<b>017N002E</b>						
<i>Dry-mesic prairie</i>	Dry-mesic Prairie	NA		S2	G3	Community
<b>017N002W</b>						
<i>Aflexia rubranura</i>	Red-tailed Prairie Leafhopper	END		S2?	G2	Leafhopper
<i>Alder thicket</i>	Alder Thicket	NA		S4	G4	Community-
<i>Artemisia dracunculus</i>	Dragon Wormwood	SC		S2	G5	Plant
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Carex laevivaginata</i>	Smooth-sheath Sedge	END		S1	G5	Plant-
<i>Chlosyne gorgone</i>	Gorgone Checker Spot	SC/N		S3	G5	Butterfly
<i>Cicindela lepida</i>	Little White Tiger Beetle	SC/N		S1	G3G4	Beetle
<i>Erynnis persius</i>	Persius Dusky Wing	SC/N		S3	G5	Butterfly
<i>Gentiana alba</i>	Yellow Gentian	THR		S4	G4	Plant
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Northern wet-mesic forest</i>	Northern Wet-mesic Forest	NA		S3S4	G3?	Community-
<i>Opuntia fragilis</i>	Brittle Prickly-pear	THR		S3	G4G5	Plant
<i>Phemeranthus rugospermus</i>	Prairie Fame-flower	SC		S3	G3G4	Plant
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<i>Poa paludigena</i>	Bog Bluegrass	THR		S3	G3	Plant-
<i>Polyamia dilata</i>	Prairie Leafhopper	THR		S2	GNR	Leafhopper
<i>Polytaenia nuttallii</i>	Prairie Parsley	THR		S2	G5	Plant
<i>Prenanthes aspera</i>	Rough Rattlesnake-root	END		S1	G4?	Plant
<i>Schinia indiana</i>	Phlox Moth	END		S2S3	G2G4	Moth
<i>Springs and spring runs, hard</i>	Springs and Spring Runs, Hard	NA		S4	GNR	Community-
<i>Stream--fast, hard, cold</i>	Stream--Fast, Hard, Cold	NA		S4	GNR	Community-
<b>017N003W</b>						
<i>Aflexia rubranura</i>	Red-tailed Prairie Leafhopper	END		S2?	G2	Leafhopper
<i>Alder thicket</i>	Alder Thicket	NA		S4	G4	Community-
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Carex straminea</i>	Straw Sedge	SC		S1	G5	Plant-
<i>Chlosyne gorgone</i>	Gorgone Checker Spot	SC/N		S3	G5	Butterfly
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Erynnis persius</i>	Persius Dusky Wing	SC/N		S3	G5	Butterfly
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Hesperia ottoe</i>	Ottoe Skipper	SC/N		S1	G3G4	Butterfly
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Lythrurus umbratilis</i>	Redfin Shiner	THR		S2	G5	Fish-
<i>Microtus ochrogaster</i>	Prairie Vole	SC/N		S2	G5	Mammal
<i>Northern wet-mesic forest</i>	Northern Wet-mesic Forest	NA		S3S4	G3?	Community-
<i>Oak barrens</i>	Oak Barrens	NA		S2	G2?	Community
<i>Ophisaurus attenuatus</i>	Slender Glass Lizard	END		S1	G5	Lizard
<i>Opuntia fragilis</i>	Brittle Prickly-pear	THR		S3	G4G5	Plant

**Town Range**

Scientific Name	Common Name	State Status	Federal Status	State Rank	Global Rank	Group Name
<i>Paraphlepsius maculosus</i>	A Leafhopper	SC/N		S1	GNR	Leafhopper
<i>Phemeranthus rugospermus</i>	Prairie Fame-flower	SC		S3	G3G4	Plant
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<i>Polytaenia nuttallii</i>	Prairie Parsley	THR		S2	G5	Plant
<i>Schinia indiana</i>	Phlox Moth	END		S2S3	G2G4	Moth
<i>Southern sedge meadow</i>	Southern Sedge Meadow	NA		S3	G4?	Community-
<i>Springs and spring runs, hard</i>	Springs and Spring Runs, Hard	NA		S4	GNR	Community-
<i>White pine-red maple swamp</i>	White Pine-Red Maple Swamp	NA		S2	G3G4	Community-
<b>017N004W</b>						
<i>Calylophus serrulatus</i>	Yellow Evening Primrose	SC		S2	G5	Plant
<i>Dry-mesic prairie</i>	Dry-mesic Prairie	NA		S2	G3	Community
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Nothocalais cuspidata</i>	Prairie False-dandelion	SC		S2	G5	Plant
<i>Phemeranthus rugospermus</i>	Prairie Fame-flower	SC		S3	G3G4	Plant
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<i>Polytaenia nuttallii</i>	Prairie Parsley	THR		S2	G5	Plant
<i>Sand barrens</i>	Sand Barrens	NA		SU	GNR	Community
<i>Southern sedge meadow</i>	Southern Sedge Meadow	NA		S3	G4?	Community-
<b>017N005W</b>						
<i>Dry-mesic prairie</i>	Dry-mesic Prairie	NA		S2	G3	Community
<i>Nothocalais cuspidata</i>	Prairie False-dandelion	SC		S2	G5	Plant
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<i>Sand barrens</i>	Sand Barrens	NA		SU	GNR	Community
<i>Southern sedge meadow</i>	Southern Sedge Meadow	NA		S3	G4?	Community-
<b>017N008W</b>						
<i>Ammocrypta clara</i>	Western Sand Darter	SC/N		S3	G3	Fish-
<b>018N001E</b>						
<i>Aphredoderus sayanus</i>	Pirate Perch	SC/N		S3	G5	Fish-
<i>Artemisia frigida</i>	Prairie Sagebrush	SC		S2	G5	Plant
<i>Carex straminea</i>	Straw Sedge	SC		S1	G5	Plant-
<i>Didiplis diandra</i>	Water-purslane	SC		S1	G5	Plant-
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Liodessus cantralli</i>	Cantrall's Bog Beetle	SC/N		S2S3	GNR	Beetle-
<b>018N001W</b>						
<i>Aphredoderus sayanus</i>	Pirate Perch	SC/N		S3	G5	Fish-
<i>Ardea alba</i>	Great Egret	THR		S2B	G5	Bird-
<i>Bird Rookery</i>	Bird Rookery	SC		SU	G5	Other-
<i>Chlidonias niger</i>	Black Tern	SC/M		S2B	G4	Bird-
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Lanius ludovicianus</i>	Loggerhead Shrike	END		S1B	G4	Bird
<i>Rallus elegans</i>	King Rail	SC/M		S1B	G4	Bird-
<b>018N002E</b>						
<i>Aphredoderus sayanus</i>	Pirate Perch	SC/N		S3	G5	Fish-
<b>018N002W</b>						
<i>Aflexia rubranura</i>	Red-tailed Prairie Leafhopper	END		S2?	G2	Leafhopper
<i>Asclepias ovalifolia</i>	Dwarf Milkweed	THR		S3	G5?	Plant



Town Range

Scientific Name	Common Name	State Status	Federal Status	State Rank	Global Rank	Group Name
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Catocala abbreviatella</i>	Abbreviated Underwing Moth	SC/N		S3	G4	Moth
<i>Chondestes grammacus</i>	Lark Sparrow	SC/M		S3B	G5	Bird
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Gentiana alba</i>	Yellow Gentian	THR		S4	G4	Plant
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Grammia phyllira</i>	Phyllira Tiger Moth	SC/N		S2	G4	Moth
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Microtus ochrogaster</i>	Prairie Vole	SC/N		S2	G5	Mammal
<i>Opuntia fragilis</i>	Brittle Prickly-pear	THR		S3	G4G5	Plant
<i>Pine barrens</i>	Pine Barrens	NA		S2	G2	Community
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<i>Poa paludigena</i>	Bog Bluegrass	THR		S3	G3	Plant-
<i>Polytaenia nuttallii</i>	Prairie Parsley	THR		S2	G5	Plant
<i>Prenanthes aspera</i>	Rough Rattlesnake-root	END		S1	G4?	Plant
<i>Schinia indiana</i>	Phlox Moth	END		S2S3	G2G4	Moth
<b>018N003W</b>						
<i>Bartramia longicauda</i>	Upland Sandpiper	SC/M		S2B	G5	Bird
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Carex cumulata</i>	Clustered Sedge	SC		S2	G4?	Plant-
<i>Catocala whitneyi</i>	Whitney's Underwing Moth	SC/N		S3	G3G4	Moth
<i>Driotura robusta</i>	A Leafhopper	SC/N		S1S2	GNR	Leafhopper
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Gentiana alba</i>	Yellow Gentian	THR		S4	G4	Plant
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Hesperia ottoe</i>	Ottoe Skipper	SC/N		S1	G3G4	Butterfly
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Microtus ochrogaster</i>	Prairie Vole	SC/N		S2	G5	Mammal
<i>Oak barrens</i>	Oak Barrens	NA		S2	G2?	Community
<i>Ophisaurus attenuatus</i>	Slender Glass Lizard	END		S1	G5	Lizard
<i>Opuntia fragilis</i>	Brittle Prickly-pear	THR		S3	G4G5	Plant
<i>Phemeranthus rugospermus</i>	Prairie Fame-flower	SC		S3	G3G4	Plant
<i>Pine barrens</i>	Pine Barrens	NA		S2	G2	Community
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<i>Poa paludigena</i>	Bog Bluegrass	THR		S3	G3	Plant-
<i>Rhexia virginica</i>	Virginia Meadow-beauty	SC		S3	G5	Plant-
<i>Schinia indiana</i>	Phlox Moth	END		S2S3	G2G4	Moth
<i>Scleria triglomerata</i>	Whip Nutrush	SC		S2S3	G5	Plant-
<i>Sturnella neglecta</i>	Western Meadowlark	SC/M		S2B	G5	Bird
<i>Tetracha virginica</i>	Virginia Big-headed Tiger Beetle	SC/N		S1S2	G5	Beetle
<b>018N004W</b>						
<i>Ophisaurus attenuatus</i>	Slender Glass Lizard	END		S1	G5	Lizard
<i>Opuntia fragilis</i>	Brittle Prickly-pear	THR		S3	G4G5	Plant
<i>Polytaenia nuttallii</i>	Prairie Parsley	THR		S2	G5	Plant
<i>Stream--fast, soft, cold</i>	Stream--Fast, Soft, Cold	NA		SU	GNR	Community-
<b>018N005W</b>						
<i>Pituophis catenifer</i>	Gophersnake	SC/P		S2S3	G5	Snake
<b>018N006W</b>						

Town Range		State Status	Federal Status	State Rank	Global Rank	Group Name
Scientific Name	Common Name					
<i>Ammocrypta clara</i>	Western Sand Darter	SC/N		S3	G3	Fish-
<i>Moxostoma carinatum</i>	River Redhorse	THR		S2	G4	Fish-
<b>018N007W</b>						
<i>Ammocrypta clara</i>	Western Sand Darter	SC/N		S3	G3	Fish-
<b>018N008W</b>						
<i>Ammocrypta clara</i>	Western Sand Darter	SC/N		S3	G3	Fish-
<b>019N001E</b>						
<i>Ammodramus leconteii</i>	Le Conte's Sparrow	SC/M		S2S3B	G4	Bird-
<i>Arphia conspersa</i>	Speckled Rangeland Grasshopper	SC/N		S2	G5	Grasshopper
<i>Bartonia paniculata</i>	Twining Screwstem	SC		S1	G5	Plant-
<i>Botaurus lentiginosus</i>	American Bittern	SC/M		S3B	G4	Bird-
<i>Callophrys irus</i>	Frosted Elfin	THR		S1	G3	Butterfly
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Carex cumulata</i>	Clustered Sedge	SC		S2	G4?	Plant-
<i>Central poor fen</i>	Central Poor Fen	NA		S3	G3G4	Community-
<i>Central sands pine-oak forest</i>	Central Sands Pine-Oak Forest	NA		S3	G3	Community
<i>Chlidonias niger</i>	Black Tern	SC/M		S2B	G4	Bird-
<i>Coturnicops noveboracensis</i>	Yellow Rail	THR		S1B	G4	Bird-
<i>Emergent marsh</i>	Emergent Marsh	NA		S4	G4	Community-
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Erynnis persius</i>	Persius Dusky Wing	SC/N		S3	G5	Butterfly
<i>Hardwood swamp</i>	Hardwood Swamp	NA		S3	G4	Community-
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Northern sedge meadow</i>	Northern Sedge Meadow	NA		S3	G4	Community-
<i>Northern wet forest</i>	Northern Wet Forest	NA		S4	G4	Community-
<i>Open bog</i>	Open Bog	NA		S4	G5	Community-
<i>Tamarack (poor) swamp</i>	Tamarack (Poor) Swamp	NA		S3	G4	Community-
<i>White pine-red maple swamp</i>	White Pine-Red Maple Swamp	NA		S2	G3G4	Community-
<b>019N001W</b>						
<i>Atrytonopsis hianna</i>	Dusted Skipper	SC/N		S2S3	G4G5	Butterfly
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC/P		S4B,S4N	G5	Bird-
<i>Hesperia metea</i>	Cobweb Skipper	SC/N		S2	G4G5	Butterfly
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly
<i>Northern dry forest</i>	Northern Dry Forest	NA		S3	G3?	Community
<b>019N002E</b>						
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Central poor fen</i>	Central Poor Fen	NA		S3	G3G4	Community-
<i>Tamarack (poor) swamp</i>	Tamarack (Poor) Swamp	NA		S3	G4	Community-
<b>019N002W</b>						
<i>Alder thicket</i>	Alder Thicket	NA		S4	G4	Community-
<i>Asclepias ovalifolia</i>	Dwarf Milkweed	THR		S3	G5?	Plant
<i>Canis lupus</i>	Gray Wolf	SC/FL	LE	S4	G4	Mammal
<i>Emydoidea blandingii</i>	Blanding's Turtle	THR		S3S4	G4	Turtle-
<i>Erynnis persius</i>	Persius Dusky Wing	SC/N		S3	G5	Butterfly
<i>Glyptemys insculpta</i>	Wood Turtle	THR		S2	G4	Turtle-
<i>Lycaeides melissa samuelis</i>	Karner Blue	SC/FL	LE	S3	G5T2	Butterfly