

**East Zone RFSS Plant Survey Contract**  
**Attachment 1 - CLIN 1 North Branch Stand List**

Compartment	Stand	EV Name	EV Code	Size Density	Year of Orgin	Stand Age	Area (ac)
2024	15	Sugar maple	85	9	1925	98	101.8
2024	16	Mixed upland hardwoods	89	6	1937	86	53.4
<b>Compartment Total</b>							<b>155.2</b>
2025	12	Mixed upland hardwoods	89	6	1928	95	21.5
2025	30	Mixed upland hardwoods	89	6	1936	87	159.8
<b>Compartment Total</b>							<b>181.3</b>
2027	03	Mixed upland hardwoods	89	9	1910	113	10.4
2027	15	Sugar maple	85	9	1930	93	66.4
2027	19	Sugar maple	85	9	1934	89	48.7
2027	24	Sugar maple	85	9	1934	89	30.8
<b>Compartment Total</b>							<b>156.2</b>
2029	11	Mixed upland hardwoods	89	6	1920	103	16.9
2029	15	Sugar maple	85	6	1924	99	19.9
2029	20	Sugar maple	85	6	1924	99	8.9
2029	31	Sugar maple	85	6	1924	99	4.2
2029	32	Sugar maple	85	6	1924	99	5.1
<b>Compartment Total</b>							<b>55.0</b>
2041	19	Mixed upland hardwoods	89	9	UE	UE	89.4
2041	39	Mixed upland hardwoods	89	6	1931	92	99.3
<b>Compartment Total</b>							<b>188.8</b>
2044	08	Mixed upland hardwoods	89	6	1925	98	13.1
2044	27	Mixed upland hardwoods	89	9	1934	89	90.8
2044	29	Mixed upland hardwoods	89	6	1925	98	16.5
2044	35	Mixed upland hardwoods	89	6	1930	93	12.5
<b>Compartment Total</b>							<b>132.8</b>
2046	02	Eastern white pine	3	8	1900	123	1.3
2046	07	Mixed upland hardwoods	89	9	1938	85	97.6
2046	13	Mixed upland hardwoods	89	6	UE	UE	26.7
2046	26	Sugar maple	85	6	1830	193	16.4
2046	27	Eastern white pine	3	9	1900	123	4.0
<b>Compartment Total</b>							<b>146.0</b>
2048	05	Mixed upland hardwoods	89	9	1928	95	15.5
2048	06	Mixed upland hardwoods	89	6	1925	98	37.1
2048	08	Mixed upland hardwoods	89	9	1910	113	36.2
2048	15	Mixed upland hardwoods	89	9	1922	101	88.9
2048	17	Mixed upland hardwoods	89	6	1944	79	27.3

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2048	18	Mixed upland hardwoods	89	9	1938	85	30.9
2048	21	Mixed upland hardwoods	89	6	UE	UE	19.6
<b>Compartment</b>	<b>Stand</b>	<b>EV Name</b>	<b>EV Code</b>	<b>Size Density</b>	<b>Year of Origin</b>	<b>Stand Age</b>	<b>Area (ac)</b>
2048	25	Mixed upland hardwoods	89	9	UE	UE	45.0
2048	27	Mixed upland hardwoods	89	6	UE	UE	12.1
<b>Compartment Total</b>							<b>312.6</b>
2049	02	Mixed upland hardwoods	89	9	1910	113	13.6
2049	16	Sugar maple	85	6	1920	103	64.3
<b>Compartment Total</b>							<b>77.8</b>
2051	05	Mixed upland hardwoods	89	9	1899	124	9.3
2051	08	Mixed upland hardwoods	89	9	1899	124	47.0
<b>Compartment Total</b>							<b>56.3</b>
2052	01	Mixed upland hardwoods	89	9	1926	97	71.3
2052	03	Mixed upland hardwoods	89	6	1939	84	11.7
2052	06	Mixed upland hardwoods	89	9	1915	108	171.9
2052	13	Mixed upland hardwoods	89	9	1926	97	28.2
2052	20	Mixed upland hardwoods	89	6	1926	97	19.4
2052	21	Mixed upland hardwoods	89	9	1926	97	4.6
2052	30	Mixed upland hardwoods	89	6	1927	96	3.9
2052	38	Mixed upland hardwoods	89	6	1927	96	27.8
2052	40	Mixed upland hardwoods	89	9	1915	108	15.5
<b>Compartment Total</b>							<b>354.3</b>
2058	11	Eastern white pine	3	6	1922	101	54.6
<b>Compartment Total</b>							<b>54.6</b>
2061	07	Eastern white pine	3	9	1917	106	10.9
<b>Compartment Total</b>							<b>10.9</b>
2063	08	Mixed upland hardwoods	89	6	1934	89	23.6
2063	09	Mixed upland hardwoods	89	6	1933	90	119.3
2063	23	Mixed upland hardwoods	89	6	1934	89	52.3
<b>Compartment Total</b>							<b>195.2</b>
2064	19	Mixed upland hardwoods	89	9	1929	94	329.7
2064	20	Mixed upland hardwoods	89	6	1920	103	80.7
2064	28	Red maple (dry site)	84	6	1920	103	4.1
2064	39	Mixed upland hardwoods	89	6	1920	103	85.9
<b>Compartment Total</b>							<b>500.4</b>
2065	08	Mixed upland hardwoods	89	9	1937	86	150.3
2065	10	Mixed upland hardwoods	89	6	1930	93	9.8

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2065	13	Mixed upland hardwoods	89	6	1930	93	17.1
2065	14	Mixed upland hardwoods	89	6	1937	86	54.1
2065	15	Mixed upland hardwoods	89	6	1930	93	36.7
2065	16	Mixed upland hardwoods	89	6	1930	93	14.3
<b>Compartment</b>	<b>Stand</b>	<b>EV Name</b>	<b>EV Code</b>	<b>Size Density</b>	<b>Year of Orgin</b>	<b>Stand Age</b>	<b>Area (ac)</b>
<b>Compartment Total</b>							<b>282.2</b>
2066	06	Sugar maple-basswood	82	6	1933	90	15.4
2066	15	Mixed upland hardwoods	89	6	UE	UE	7.2
2066	17	Mixed upland hardwoods	89	6	1933	90	61.4
2066	25	Mixed upland hardwoods	89	6	UE	UE	12.3
2066	29	Mixed upland hardwoods	89	9	1933	90	37.3
2066	30	Mixed upland hardwoods	89	6	UE	UE	13.2
2066	35	Mixed upland hardwoods	89	6	UE	UE	5.4
2066	42	Sugar maple	85	6	UE	UE	4.1
2066	43	Sugar maple	85	6	UE	UE	12.6
2066	48	Mixed upland hardwoods	89	6	UE	UE	9.9
<b>Compartment Total</b>							<b>178.6</b>
2068	03	Mixed upland hardwoods	89	6	1953	70	29.7
2068	05	Mixed upland hardwoods	89	6	1930	93	39.3
2068	10	Mixed upland hardwoods	89	6	1938	85	25.9
2068	15	Mixed upland hardwoods	89	9	1948	75	20.4
2068	21	Mixed upland hardwoods	89	6	1940	83	140.1
<b>Compartment Total</b>							<b>255.4</b>
2079	03	Mixed upland hardwoods	89	9	1928	95	57.4
2079	12	Eastern white pine	3	9	1908	115	4.7
2079	14	Eastern white pine	3	9	1910	113	15.3
2079	67	Eastern white pine	3	8	1910	113	4.7
<b>Compartment Total</b>							<b>82.1</b>
2080	42	Eastern white pine	3	9	1916	107	14.5
<b>Compartment Total</b>							<b>14.5</b>
2214	17	Mixed upland hardwoods	89	6	1930	93	56.5
<b>Compartment Total</b>							<b>56.5</b>
<b>CLIN 1-North Branch RFSS Plant Survey Total</b>							<b>3446.5</b>

**East Zone RFSS Plant Survey Contract**  
**Attachment 2 - CLIN 2 Armstrong Creek Stand List**

Compartment	Stand	EV Name	EV Code	Size Density	Year of Origin	Stand Age	Area (ac)
5057	01	Sugar maple-basswood	82	9	1931	92	54.6
5057	02	Sugar maple-basswood	82	9	1925	98	35.3
5057	07	Sugar maple-basswood	82	9	1931	92	45.2
5057	45	Sugar maple-basswood	82	9	1925	98	68.9
5057	50	Sugar maple-basswood	82	9	1932	91	51.9
5057	51	Sugar maple-basswood	82	9	1935	88	74.0
<b>Compartment Total</b>							<b>329.8</b>
5058	01	Sugar maple-basswood	82	6	1942	81	18.0
5058	07	Sugar maple-basswood	82	9	1927	96	348.2
5058	13	Sugar maple-basswood	82	9	1930	93	56.7
5058	14	Sugar maple-basswood	82	9	UE	UE	72.7
5058	17	Sugar maple-basswood	82	9	1940	83	67.7
5058	18	Sugar maple-basswood	82	6	UE	UE	50.9
5058	23	Sugar maple-basswood	82	9	1936	87	12.6
<b>Compartment Total</b>							<b>626.7</b>
5064	01	Sugar maple-basswood	82	9	1929	94	139.2
5064	08	Sugar maple-basswood	82	9	1937	86	322.2
5064	12	Mixed upland hardwoods	89	6	1935	88	31.8
5064	14	Mixed upland hardwoods	89	9	1961	62	22.7
5064	28	Mixed upland hardwoods	89	9	1940	83	26.6
<b>Compartment Total</b>							<b>542.5</b>
5065	02	Mixed upland hardwoods	89	9	1930	93	44.6
5065	03	Sugar maple-basswood	82	9	1930	93	178.9
5065	04	Sugar maple-basswood	82	9	1930	93	85.4
5065	12	Sugar maple-basswood	82	9	UE	UE	59.7
5065	14	Sugar maple-basswood	82	9	UE	UE	6.2
<b>Compartment Total</b>							<b>374.8</b>
5066	09	Sugar maple-basswood	82	9	UE	UE	40.7
5066	15	Mixed upland hardwoods	89	6	UE	UE	40.5
5066	16	Mixed upland hardwoods	89	9	1923	100	86.5
5066	20	Mixed upland hardwoods	89	3	2006	17	12.1
5066	21	Mixed upland hardwoods	89	9	1923	100	27.7
5066	23	Mixed upland hardwoods	89	9	1923	100	36.1
5066	25	Mixed upland hardwoods	89	9	1923	100	20.0
5066	26	Sugar maple-basswood	82	9	1923	100	16.0
5066	28	Mixed upland hardwoods	89	9	1923	100	34.6

## East Zone RFSS Plant Survey Contract

### Attachment 2 - CLIN 2 Armstrong Creek Stand List

Compartment Total							314.2
5089	06	Sugar maple-basswood	82	9	UE	UE	276.6
5089	12	Mixed upland hardwoods	89	9	UE	UE	72.3
Compartment	Stand	EV Name	EV Code	Size Density	Year of Orgin	Stand Age	Area (ac)
5089	14	Mixed upland hardwoods	89	9	1930	93	27.0
5089	16	Mixed upland hardwoods	89	6	1924	99	12.1
5089	22	Mixed upland hardwoods	89	9	UE	UE	13.6
5089	40	Sugar maple-basswood	82	9	UE	UE	57.6
Compartment Total							459.2
5091	03	Sugar maple-basswood	82	9	1930	93	44.5
5091	05	Mixed upland hardwoods	89	9	UE	UE	51.5
5091	12	Mixed upland hardwoods	89	3	2007	16	79.2
5091	22	Sugar maple-basswood	82	9	UE	UE	18.9
5091	29	Sugar maple-basswood	82	9	1930	93	55.0
5091	30	Mixed upland hardwoods	89	6	1930	93	31.9
5091	31	Sugar maple-basswood	82	9	1930	93	43.6
5091	32	Sugar maple-basswood	82	9	UE	UE	19.1
5091	33	Sugar maple-basswood	82	6	UE	UE	55.4
Compartment Total							399.1
5092	05	Sugar maple-basswood	82	9	1925	98	24.7
5092	06	Sugar maple-basswood	82	9	1925	98	13.3
5092	08	Sugar maple-basswood	82	9	1925	98	63.5
5092	11	Mixed upland hardwoods	89	6	1938	85	25.1
Compartment Total							126.5
5093	01	Mixed upland hardwoods	89	9	1920	103	42.8
5093	06	Sugar maple-basswood	82	9	1931	92	8.5
5093	08	Mixed upland hardwoods	89	9	1950	73	53.2
5093	10	Sugar maple-basswood	82	9	1941	82	31.4
5093	23	Mixed upland hardwoods	89	6	1958	65	25.5
5093	29	Sugar maple-basswood	82	9	1935	88	54.9
Compartment Total							216.2
5096	08	Mixed upland hardwoods	89	9	1942	81	33.5
Compartment Total							33.5
CLIN 2-Armstrong Creek RFSS Plant Survey Total							3,422.5



**FEDERALLY LISTED (ENDANGERED, THREATENED, OR PROPOSED) SPECIES**

SCIENTIFIC NAME	COMMON NAME	USDA CODE	GLOBAL RANK	STATE RANK	STATE STATUS	HABITAT
<i>Oxytropis campestris</i> var <i>chartacea</i>	Fassett's locoweed	OXCAC	G5T1T2	S1S2	END	Fluctuating lakeshore of sand or gravel, alkaline lakes. CH.

**REGIONAL FORESTER'S SENSITIVE SPECIES**

SCIENTIFIC NAME	COMMON NAME	CODE	GLOBAL RANK	STATE RANK	STATE STATUS	HABITAT
<b>VASCULAR PLANTS</b>						
<i>Amerorchis rotundifolia</i>	Roundleaf orchid	AMRO	G5	S1S2	THR	Calciphile; shaded cedar or swamp conifer forest. NI.
<i>Arabis missouriensis</i> var <i>deamii</i>	Missouri rockcress	ARMID	G5	S2	SC	Semi-open rock outcrops, barrens on outwash plain. CH-NI.
<i>Asplenium trichomanes-ramosum</i>	Bright green spleenwort	ASTR10	G4	S1	END	Shaded rocks, cliff faces, restricted to limestone. NI.
<i>Astragalus alpinus</i>	Alpine milkvetch	ASAL7	G5	S1	END	Sandy fluctuating lakeshore. CH.
<i>Botrychium minganense</i>	Mingan's moonwort	BOMI	G4/G5	S2	SC	Rich hardwood forest, grassy fluctuating lakeshores. CH-NI
<i>Botrychium mormo</i>	Little goblin moonwort	BOMO2	G3	S1/S2	END	Rich hardwood forest, tip-up mounds, and ephemeral pond edges. CH-NI.
<i>Botrychium oneidense</i>	Bluntlobe grapefern	BOON	G4	S2	SC	Shaded, acidic, moist forest. Edges of shaded ephemeral ponds. CH-NI
<i>Botrychium pallidum</i>	Pale moonwort	BOPA12	G3	S1	SC	Barrens, fluctuating lakeshore, open fields, openings in secondary forest. CH
<i>Botrychium rugulosum</i>	Ternate grapefern	BORU	G3	S2	SC	Sandy shorelines of fluctuating lakes and ponds. CH-NI
<i>Callitriche hermaphroditica</i>	Northern water-starwort	CAHE2	G5	S2	SC	Shallow to deep water in lakes and streams. CH (NI).
<i>Callitriche heterophylla</i>	Twoheaded water-starwort	CAHE3	G5	S1	THR	Muddy shores, pools in swift streams, and wet sand along creeks. CH
<i>Calypso bulbosa</i>	Fairy slipper	CABU	G5	S2	THR	Cool, mature white cedar or mixed conifer swamp, calcareous soils. CH-NI.
<i>Carex backii</i>	Back's sedge	CABA2	G5	S1	SC	Rock outcrop, dry sandy soils in open, second growth forest. NI
<i>Carex livida</i> var <i>radicaulis</i>	Livid sedge	CALIR	G5T5	S2	SC	Calcareous sphagnum bog or poor fen. NI (CH).
<i>Carex michauxiana</i>	Michaux's sedge	CAMI15	G5	S2	THR	Fluctuating sandy lakeshores on inland lakes, bogs and wet shores near Lake Superior. CH.
<i>Carex sychnocephala</i>	Manyheaded sedge	CASY	G4	S2	SC	Wet meadows, sandy/mucky river bottoms, drying lakeshores.
<i>Cypripedium arietinum</i>	Ram's head lady's slipper	CYAR5	G3	S2	THR	Cool dense conifer swamps, upland boreal-like forest on clay with seepy soils. CH-NI.

<i>Diplazium pycnocarpon</i>	Glade fern	DIPY	G5	S2	SC	Rich deciduous forest. CH
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**REGIONAL FORESTER'S SENSITIVE SPECIES**

SCIENTIFIC NAME	COMMON NAME	CODE	GLOBAL RANK	STATE RANK	STATE STATUS	HABITAT
<b>VASCULAR PLANTS</b>						
<i>Dryopteris expansa</i>	Spreading woodfern	DREX2	G5	S2	SC	Moist hemlock-hardwood forest, talus/rocky slopes in full shade, often near water. CH-NI.
<i>Dryopteris filix-mas</i>	Male fern	DRFI2	G5	S1	SC	Dense, shady woods and talus slopes on limestone, above 1700 ft. CH.
<i>Eleocharis olivacea</i>	Bright green spikerush	ELOL	G5	S2		Bog mat; moist, sandy or muddy shoreline. NI (CH)
<i>Eleocharis quinqueflora</i>	Fewflowered spikerush	ELQU2	G5	S2	SC	Wet calcareous shoreline or bog habitat. NI
<i>Equisetum palustre</i>	Marsh horsetail	EQPA	G5	S2	SC	Marsh; shallow water. CH (NI).
<i>Eriophorum chamissonis</i>	Chamisso's cottongrass	ERCH7	G5	S1	SC	Open bog or poor fen with sphagnum. CH
<i>Huperzia selago</i>	Fir clubmoss	HUSE	G5	S1S2	SC	Moist, shaded cliffs near Lake Superior. Inland, in a black spruce swamps. CH
<i>Juglans cinerea</i>	Butternut	JUCI	G4	S3?	SC	Rich hardwood forest. CH-NI.
<i>Juncus stygius</i>	Moor rush	JUST	G5	S1	END	Edges of pools in poor fen, calciphile. NI
<i>Leucophysalis grandiflora</i>	Large false groundcherry	LEGR7	G4?	S1	SC	Open, disturbed soils, recently drained beaver meadows, barrens. CH (NI).
<i>Littorella uniflora</i>	American shoreweed	LIUN	G5	S2	SC	Sandy/mucky shorelines of clear, soft-water lakes. CH-NI.
<i>Melica smithii</i>	Smith's melicgrass	MESM	G4	S1	END	CH-NI.
<i>Moehringia macrophylla</i>	Largeleaved sandwort	MOMA3	G5	S1	END	Semi-shaded ledges on rock outcrop with thin soils. CH
<i>Panax quinquefolius</i>	American ginseng	PAQU	G3G4	S4	SC	Rich deciduous hardwood forest. CH-NI
<i>Parnassia palustris</i>	Marsh grass of parnassus	PAPA8	G5	S1S2	THR	Wet, seepy meadows on sand or clay soil. CH.
<i>Piptatheropsis canadensis</i>	Canadian ricegrass	PICA19	G5	S1	SC	Dry, sandy soil; Semi-shaded red/jack pine forest. NI (CH)
<i>Poa paludigena</i>	Bog bluegrass	POPA	G3	S3	SC	Forested seeps and fens, mostly under hardwoods and alders. (CH-NI)
<i>Polemonium occidentale</i> var <i>lacustre</i>	Western Jacob's ladder	POOCL	G5?T1T2Q	S1	END	Open areas, clearings in whit cedar swamp. NI.
<i>Polystichum braunii</i>	Braun's hollyfern	POBR5	G5	S3	END	Moist forest near rocky outcrops, talus, or stream banks. CH-NI.



<i>Potamogeton confervoides</i>	Tuckerman's pondweed	POCO12	G4	S2	THR	Acidic, mucky shallow water of bog lakes or slow flowing streams. CH-NI
<i>Potamogeton hillii</i>	Hill's pondweed	POHI4	G3	S1	SC	Clear, cold, slow-flowing alkaline streams or wetlands; mud substrate. NI

**REGIONAL FORESTER'S SENSITIVE SPECIES**

SCIENTIFIC NAME	COMMON NAME	CODE	GLOBAL RANK	STATE RANK	STATE STATUS	HABITAT
<b>VASCULAR PLANTS</b>						
<i>Pyrola minor</i>	Snowline wintergreen	POMI	G5	S1	END	Boreal-like forests, black spruce/tamarack swamp edgeS, and alder thickets. CH.
<i>Ranunculus gmelinii</i>	Gmelin's buttercup	RAGM	G5	S2	END	Edges of streams and lakes; bog pools and springs. NI (CH)
<i>Ranunculus lapponicus</i>	Lapland buttercup	RALA	G5	S1	END	White cedar swamps, near or within cool, mucky depressions, seeps, or springs
<i>Rhynchospora fusca</i>	Brown beaksedge	RHFU	G4G5	S2	SC	Poor fen, calcareous sphagnum bog. CH-NI.
<i>Sparganium glomerulatum</i>	Clustered bur-reed	SPGL	G4?	S2	THR	Cold ditches and pools in sedge meadows, alder thickets and tamarack stands CH.
<i>Streptopus amplexifolius</i>	Claspleaf twistedstalk	STAM2	G5	S3	SC	Rich moist woods, shaded rocky areas, mesic ravines. CH.
<i>Tiarella cordifolia</i>	Heartleaf foamflower	TICO	G5	S1	END	Rich hardwood riparian forest, stream banks, moist woods. NI
<i>Vaccinium cespitosum</i>	Dwarf bilberry	VACE	G5	S2	END	Sandy old field swales, jack pine-oak forest, pine barrens. NI
<i>Valeriana uliginosa</i>	Mountain valerian	VAUL2	G4Q	S2	THR	Openings in white cedar swamp, marsh meadows, bog, and brushy swamps. NI
<b>NON-VASCULAR PLANTS</b>						
<i>Caloplaca parvula</i>	Pink dot lichen	CAPA77	G1G2	SU		Bases of smooth barked hardwood trees in wet black ash bogs at the ends of lakes.
<i>Paludella squarrosa</i>	Angled paludella moss	PASQ70	G5	SNR		Calcareous fens. NI
<i>Usnea longissima</i>	Methuselah's head lichen	USLO50	G4	S1	SC	Upper branches of trees in very moist conifer forests and bogs over 100 years near water.

**RFSS LIKELY TO OCCUR GIVEN HABITAT AND RANGE POTENTIAL**

SCIENTIFIC NAME	COMMON NAME	CODE	GLOBAL RANK	STATE RANK	STATE STATUS	HABITAT
<i>Cardamine maxima</i>	Large toothwort	CAMA36	G5	S1	SC	Rich, mesic hardwood forest, flood plain forest. (CH-NI).
<i>Carex lenticularis</i>	Lakeshore sedge	CALE8	G5	S2	THR	Open, moist shoreline of streams and lakes. (CH-NI).
<i>Eleocharis engelmannii</i>	Engelmann's spikerush	ELEN	G4G5	S1	SC	Mud flats, sandy shoreline of seepage lakes. (CH-NI).

<i>Listera auriculata</i>	Auricled twayblade	LIAU2	G3G4	S1	END	Washed sand under alder, restricted to areas near Lake Superior. (CH).
<i>Listera convallarioides</i>	Heartleaf twayblade	LICO2	G5	S1	THR	Moist, mesic ravines and seeps. (CH).
<i>Petasites frigidus</i>	Arctic sweet coltsfoot	PEFR5	G5	S3	THR	Marsh, shrub carr, alder thicket edge, sedge meadow. (CH-NI).

**RFSS LIKELY TO OCCUR GIVEN HABITAT AND RANGE POTENTIAL**

SCIENTIFIC NAME	COMMON NAME	CODE	GLOBAL RANK	STATE RANK	STATE STATUS	HABITAT
<i>Platanthera flava</i> var <i>herbiola</i>	Palegreen orchid	PLFLH	G4?T4Q	S2	THR	Wet meadow, open river edges, and wet prairie remnants. (CH).
<i>Potamogeton pulcher</i>	Spotted pondweed	POPU6	G5	S1	END	Acidic lakes and ponds. (CH).
<i>Prosartes hookeri</i>	Drops-of-gold	PRHO2	G5	SNR		Rich, mesic hardwood forest. (CH).
<i>Pterospora andromeda</i>	Woodland pinedrops	PTAN2	G5	S1	END	White pine forest, potentially on clay soils. (NI (CH?)).

**GLOBAL ELEMENT RANKS**

G1 = Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

G2 = Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.

G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single state or physiographic region) or because of other factors making it vulnerable to extinction throughout its range; In the range of 21 to 100 occurrences.

G4 = Apparently globally secure, though it may be quite rare in parts of its range, especially at the periphery.

G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

GNR = Not ranked. Replaced G? rank and some GU ranks.

GU = Possibly in peril range-wide, but their status is uncertain. More information is needed.

Species with a questionable taxonomic assignment are given a "Q" after the global rank.

Subspecies and varieties are given subranks composed of the letter "T" plus a number or letter. The definition of the second character of the subrank parallels that of the full global rank.

**STATE ELEMENT RANKS**

S1 = Critically imperiled in Wisconsin because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extirpation from the state.

S2 = Imperiled in Wisconsin because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extirpation from the state.

S3 = Rare or uncommon in Wisconsin (21 to 100 occurrences).

S4 = Apparently secure in Wisconsin, with many occurrences.

S5 = Demonstrably secure in Wisconsin and essentially ineradicable under present conditions.

SNR = Not ranked.

SU = Possibly in peril in the state, but their status is uncertain. More information is needed.

**East Zone RFSS Plant Survey Contract**  
**Attachment 3 - RFSS Plant List**

**Chequamegon-Nicolet National Forest**

<b>STATE STATUS DEFINITIONS</b>
END = Endangered
THR=Threatened
SC=Special Concern

<b>HABITAT DEFINITIONS</b>
CH=Known populations occur on the Chequamegon side of the forest.
NI=Known populations occur on the Nicolet side of the forest.
( )=Area on the forest where the species might occur.



**East Zone RFSS Plant Survey Contract**  
**Attachment 4 - USFS Codes**

**EXISTING VEGETATION (EV) CODES**

<b>GROUP</b>	<b>EV CODE</b>	<b>EV DESCRIPTION</b> (Describes the specie(s) which dominates >50% of the stand)
Aspen	91	Quaking Aspen
	93	Bigtooth Aspen
	94	Balsam Poplar
	95	Aspen-White Spruce-Balsam Fir
Balsam Fir	11	Balsam Fir-Aspen-Paper Birch (Balsam Fir dominates the stand, other species present)
	24	Balsam Fir (pure stands)
Hardwoods	20	Northern Hardwoods-Hemlock (>20% Hemlock)
	70	Sugar Maple-Black Cherry
	74	White Ash
	78	Black Walnut
	80	Sugar Maple-Northern Red Oak
	81	Sugar Maple-Beech-Yellow Birch (>20% yellow birch)
	82	Sugar Maple-Basswood (>20% basswood)
	83	Black Cherry-White Ash-Poplar
	84	Red Maple (dry site)
	85	Sugar Maple
	86	Beech
	87	Sugar Maple-Beech-Yellow Birch-Red Spruce
White Pine	3	Eastern White Pine
	4	White Pine-Hemlock (A mixed stand which at least 20% White Pine and 20% Hemlock)
	41	White Pine-Northern Red Oak-White Ash
Red Pine	2	Red Pine
	49	Red Pine-Oak
Spruce	7	Norway Spruce
	8	White Spruce
	16	White spruce-Balsam fir-Aspen (White spruce dominates the stand, other species present)
	17	Upland Black Spruce
	23	White Spruce-Balsam Fir-Aspen
Jack Pine	1	Jack Pine
	6	Scotch Pine
	30	Mixed Pines
	48	Jack Pine-Oak
Hemlock	5	Hemlock
Paper Birch	92	Paper Birch
Oak	43	Oak-Eastern White Pine
	47	Oak-Aspen
	53	Black Cherry-Scarlet Oak-Hickory
	54	White Oak
	55	Northern Red Oak
	59	Mixed Oaks
	60	Oak-Hardwoods

**East Zone RFSS Plant Survey Contract****Attachment 4 - USFS Codes**

	63	Northern Pin Oak
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**EXISTING VEGETATION (EV) CODES**

GROUP	FT/EV CODE	FT/EV DESCRIPTION (Describes the specie(s) which dominates >50% of the stand)
Upland Opening	98	Upland Shrub
	99	Open (50-54,56,90,95)
Lowland Conifer	12	Lowland Black Spruce
	14	Northern White Cedar
	15	Tamarack
	18	Mixed Swamp Conifer (A stand with mixture of the lowland conifer types above)
	19	Cedar-Aspen-Paper Birch (Northern White Cedar dominates the stand, other species present)
	22	Upland Northern White Cedar
Lowland Hardwoods	71	Black Ash-American Elm-Red Maple (with or without a component of Red Maple)
	76	Red Maple (wet site)
	79	Mixed Lowland Hardwoods
Lowland Open	99	Open (60,62-66, 70, 80)
	97	Lowland Shrub

**VEGETATION TYPE (VT) CODES**

VT Code	Description
50	Upland opening (Undifferentiated)
51	Upland opening: Grass
52	Upland opening: Forb
53	Upland opening: Shrub
60	Wetland (Undifferentiated)
62	Wetland Sedge Meadow
63	Wetland Shallow Marsh
64	Wetland Deep Marsh
65	Wetland Open Water ( $\leq 10$ ac)
66	Wetland Shrub Swamp
68	Wetland Bog
70	Water, Lake ( $>10$ ac)
80	Water, Stream, River (Undifferentiated)
90	Non-veg – Roads, Rocks, Sand, Mud
95	Gravel Pit

**SIZE DENSITY (SD) CODES**

SD CODE	Description
0	Nonstocked ( $< 16\%$ stocking)
1	Seed/Sapling (Saplings Less than 5.00" at breast height, seedlings less than 1.00") - 16-39% stocked
2	Seed/Sapling (Saplings Less than 5.00" at breast height, seedlings less than 1.00") - 40-69% stocked
3	Seed/Sapling (Saplings Less than 5.00" at breast height, seedlings less than 1.00") - $\geq 70\%$ stocked
4	Poletimber (From 5.00" to 8.99" (softwood) and from 5.00 to 10.99" (hardwood)) - 16-39% stocked
5	Poletimber (From 5.00" to 8.99" (softwood) and from 5.00 to 10.99" (hardwood)) - 40-69% stocked
6	Poletimber (From 5.00" to 8.99" (softwood) and from 5.00 to 10.99" (hardwood)) - $\geq 70\%$ stocked
7	Sawtimber (More than 9.00" (softwood) and 11.00" (hardwood)) - 16-39% stocked

**East Zone RFSS Plant Survey Contract**

**Attachment 4 - USFS Codes**

8	Sawtimber (More than 9.00" (softwood) and 11.00" (hardwood)) - 40-69% stocked
9	Sawtimber (More than 9.00" (softwood) and 11.00" (hardwood)) - ≥ 70% stocked





[illegible]

[illegible]




**East Zone RFSS Plant Survey Contract**  
**Attachment 6 - RFSS Plant Survey Datasheet**

**Chequamegon-Nicolet National Forest**

**Indicate if RFSS Plant Site (Check):**

<input type="checkbox"/>	Found
<input type="checkbox"/>	Not Found

**Potential Habitat Present (Check):**

<input type="checkbox"/>	High
<input type="checkbox"/>	Moderate
<input type="checkbox"/>	Low

**Project Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_ **Surveyed By:** \_\_\_\_\_

**District:** \_\_\_\_\_ **Compartment:** \_\_\_\_\_ **Stand(s):** \_\_\_\_\_

**County:** \_\_\_\_\_ **Quad:** \_\_\_\_\_ **T.** \_\_\_\_\_ **R.** \_\_\_\_\_ **S.** \_\_\_\_\_

**Target Species** (All CNNF TES Plants and RFSS Plants, including the following): \_\_\_\_\_

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\*\*\*\*Found plants are reported on a NHI Reporting form and copies are sent to NHI and District Biologist\*\*\*\*

**Reason for Survey:** \_\_\_\_\_

**Community information** (Fill in blanks or describe below):

**Habitat Type (Kotar):** \_\_\_\_\_

**Cover Type (TS/D):** \_\_\_\_\_

**Stand Age (Y.O.):** \_\_\_\_\_

**Habitat Characteristics:** \_\_\_\_\_

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**List Dominant Species for Each Structural/Functional Group Below:**

**Overstory:** \_\_\_\_\_

\_\_\_\_\_

**Understory:** \_\_\_\_\_

\_\_\_\_\_

**Shrub Layer:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Herbaceous Layer:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Earthworm Assesment (Occular estimate of overall stand condition)**

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Leaf litter from more than previous year present, Oi & Oe layers present. No evidence of earth worms.  |
| <input type="checkbox"/> |  |
| <input type="checkbox"/> | Leaf litter from previous fall and small fragented leaves under intact leaf litter. Oe-a layers present in some of stand but missing or damaged in others. Mineral soil and earthworm castings present (<50% of forest floor is mineral soil). |
| <input type="checkbox"/> | Leaf litter from previous year scattered or missing, no humus, mineral soil >50% of stand, earthworm middens abundant.   |

**Browse Assesment (Occular estimate of overall stand condition)**

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | None; No indication of understory herbaceous plants, shrubs, or tree seedling/sapling browse  |
| <input type="checkbox"/> |   |
| <input type="checkbox"/> | Low; Under 30% of understory herbaceous plants, shrubs, or tree seedling/saplings with indications of browse. Often either very sporadic or only targets most susceptible plants such as hemlock, cedar, canada yew, orchids, etc.  |
| <input type="checkbox"/> |   |
| <input type="checkbox"/> | Medium; 30-60% of understory herbaceous plants, shrubs, or tree seedling/saplings with indications of browse. Usually confined to usual target species such as sugar maple, hemlock, white pine, liliaceae species, Osmorhiza, etc. |
| <input type="checkbox"/> |   |
| <input type="checkbox"/> | High; Over 60% of understory herbaceous plants, shrubs, or tree seedling/saplings with indications of browse. High browse intensity also begins to show on unlikely target species such as balsam, hazel, etc.                      |

**Notes** (Include unusual features, invasive species, any disturbance events, non-plant rare species sightings, etc): \_\_\_\_\_






# East Zone RFSS Plant Survey Contract

## Attachment 7 - Species Checklist

# Chequamegon-Nicolet National Forest

Project:	Observer(s):	Date:	Comp:	Stand(s):
<b>TREES</b>		<b>SYMBOL</b>	<b>SEDGES (CONTINUED)</b>	<b>SYMBOL</b>
<i>Abies balsamea</i> [Balsam fir]	ABBA		<i>Carex stipata</i> [Awlfruit sedge]	CAST5
<i>Acer rubrum</i> [Red maple]	ACRU		<i>Carex trisperma</i> [Threeseeded sedge]	CATR10
<i>Acer saccharum</i> [Sugar maple]	ACSA3		<i>Carex woodii</i> [Pretty sedge]	CAWO2
<i>Betula alleghaniensis</i> [Yellow birch]	BEAL2			
<i>Betula papyrifera</i> [Paper birch]	BEPA		<b>FERNS &amp; FERN ALLIES</b>	<b>SYMBOL</b>
<i>Carpinus caroliniana</i> [Musclewood]	CACA8		<i>Adiantum pedatum</i> [Northern maidenhair fern]	ADPE
<i>Fraxinus americana</i> [White ash]	FRAM2		<i>Athyrium filix-femina</i> [Common ladyfern]	ATFI
<i>Fraxinus nigra</i> [Black ash]	FRNI		<i>Botrychium dissectum</i> [Cutleaf grapefern]	BODI2
<i>Fraxinus pensylvanica</i> [Green ash]	FRPE		<i>Botrychium lanceolatum</i> [Lanceleaf grapefern]	BOLA
<i>Juglans cinerea</i> [Butternut]	JUCI		<i>Botrychium matricarifolium</i> [Daisyleaf grapefern]	BOMA2
<i>Larix laricina</i> [Tamarack]	LALA		<i>Botrychium minganense</i> [Mingan moonwort]	BOMI
<i>Ostrya virginiana</i> [Ironwood]	OSVI		<i>Botrychium normo</i> [Little goblin moonwort]	BOMO2
<i>Picea glauca</i> [White spruce]	PIGL		<i>Botrychium multifidum</i> [Leathery grapefern]	BOMU
<i>Picea mariana</i> [Black spruce]	PIMA		<i>Botrychium oneidense</i> [Bluntlobe grapefern]	BOON
<i>Pinus banksiana</i> [Jack pine]	PIBA2		<i>Botrychium rugulosum</i> [Ternate grapefern]	BORU
<i>Pinus resinosa</i> [Red pine]	PIRE		<i>Botrychium simplex</i> [Little moonwort]	BOSI
<i>Pinus strobus</i> [White pine]	PIST		<i>Botrychium virginianum</i> [Rattlesnake fern]	BOVI
<i>Populus balsamifera</i> [Balsam poplar]	POBAB2		<i>Cystopteris bulbifera</i> [Bulblet bladderfern]	CYBU3
<i>Populus grandidentata</i> [Big-tooth aspen]	POGR4		<i>Cystopteris tenuis</i> [Upland brittle bladderfern]	CYTE7
<i>Populus tremuloides</i> [Quaking aspen]	POTR5		<i>Deparia acrostichoides</i> [Silver false spleenwort]	DEAC4
<i>Prunus serotina</i> [Black cherry]	PRSE2		<i>Dryopteris carthusiana</i> [Spinulose woodfern]	DRCA11
<i>Quercus alba</i> [White oak]	QUAL		<i>Dryopteris cristata</i> [Crested woodfern]	DRCR4
<i>Quercus ellipsoidalis</i> [Northern pin oak]	QUEL		<i>Dryopteris intermedia</i> [Intermediate woodfern]	DRIN5
<i>Quercus macrocarpa</i> [Bur oak]	QUMA2		<i>Equisetum</i> spp. [Horsetail]	EQUIS
<i>Quercus rubra</i> [Northern red oak]	QURU		<i>Equisetum arvense</i> [Field horsetail]	EQAR
<i>Thuja occidentalis</i> [Northern white cedar]	THOC2		<i>Equisetum fluviatile</i> [Water horsetail]	EQFL
<i>Tilia americana</i> [Basswood]	TIAM		<i>Equisetum hyemale</i> [Scouringrush horsetail]	EQHY
<i>Tsuga canadensis</i> [Eastern hemlock]	TSCA		<i>Equisetum pratense</i> [Meadow horsetail]	EQPR
<i>Ulmus americana</i> [American elm]	ULAM		<i>Equisetum scirpoides</i> [Dwarf scouringrush]	EQSC
<i>Ulmus rubra</i> [Slippery elm]	ULRU		<i>Equisetum sylvaticum</i> [Woodland horsetail]	EQSY
<i>Ulmus thomastii</i> [Rock elm]	ULTH		<i>Gymnocarpium dryopteris</i> [Western oakfern]	GYDR
			<i>Lycopodium</i> spp. [Princess-pine/club-moss]	LYCOP2
<b>SHRUBS</b>	<b>SYMBOL</b>		<i>Lycopodium annotinum</i> [Stiff club-moss]	LYAN2
<i>Acer spicatum</i> [Mountain maple]	ACSP2		<i>Lycopodium clavatum</i> [Running club-moss]	LYCL
<i>Amelanchier</i> spp. [Juneberry]	AMELA		<i>Lycopodium complanatum</i> [Groundcedar]	LYCO3
<i>Arctostaphylos uva-ursi</i> [Bearberry]	ARUV		<i>Lycopodium dendroideum</i> [Northern tree club-moss]	LYDE
<i>Comptonia peregrina</i> [Sweet-fern]	COPE80		<i>Lycopodium digitatum</i> [Fan clubmoss]	LYDI3
<i>Cornus alternifolia</i> [Alternateleaf dogwood]	COAL2		<i>Lycopodium hickeyi</i> [Pennsylvania clubmoss]	LYHI2
<i>Cornus rugosa</i> [Roundleaf dogwood]	CORU		<i>Lycopodium obscurum</i> [Rare clubmoss]	LYOB
<i>Cornus stolonifera</i> [Red osier dogwood]	COSE16		<i>Lycopodium tristachyum</i> [Deeproot clubmoss]	LYTR
<i>Corylus americana</i> [American hazelnut]	COAM3		<i>Mateuccia struthiopteris</i> [Ostrich fern]	MAST
<i>Corylus cornuta</i> [Beaked hazelnut]	COCO6		<i>Onoclea sensibilis</i> [Sensitive fern]	ONSE
<i>Crataegus</i> spp. [Hawthorn]	CRATA		<i>Osmunda cinnamomea</i> [Cinnamon fern]	OSCI
<i>Diervilla lonicera</i> [Northern bush honeysuckle]	DILO		<i>Osmunda claytoniana</i> [Interrupted fern]	OSCL2
<i>Dirca palustris</i> [Eastern leatherwood]	DIPA9		<i>Phegopteris connectilis</i> [Long beechfern]	PHCO24
<i>Hamamelis virginiana</i> [American witchhazel]	HAVI4		<i>Polypodium virginianum</i> [Rock polypody]	POVI7
<i>Ilex verticillata</i> [Common winterberry]	ILVE		<i>Pteridium aquilinum</i> [Bracken fern]	PTAQ
<i>Lonicera canadensis</i> [American fly honeysuckle]	LOCA7			
<i>Lonicera hirsuta</i> [Hairy honeysuckle]	LOHI		<b>VINES</b>	<b>SYMBOL</b>
<i>Prunus pensylvanica</i> [Pin cherry]	PRPE2		<i>Clematis virginiana</i> [Virgin's bower]	CLVI5
<i>Prunus virginiana</i> [Chokecherry]	PRVI		<i>Humulus lupulus</i> [Common hop]	HULU
<i>Rhus typhina</i> [Staghorn sumac]	RHTY		<i>Parthenocissus quinquefolia</i> [Virginia creeper]	PAQU2
<i>Ribes americanum</i> [American black currant]	RIAM2		<i>Toxicodendron radicans</i> [Eastern poison ivy]	TORA2
<i>Ribes cynosbati</i> [Eastern prickly gooseberry]	RICY		<i>Toxicodendron rydbergii</i> [Western poison ivy]	TORY
<i>Ribes hirtellum</i> [Hairy-stem gooseberry]	RIHI			
<i>Rubus alleghaniensis</i> [Allegheny blackberry]	RUAL		<b>WEEDS</b>	<b>SYMBOL</b>
<i>Rubus idaeus</i> [American red raspberry]	RUID		<i>Aegopodium podagraria</i> [Bishop's goutweed]	AEPO
<i>Rubus parviflorus</i> [Thimbleberry]	RUPA		<i>Alliaria petiolata</i> [Garlic mustard]	ALPE4
<i>Rubus pubescens</i> [Dwarf red raspberry]	RUPU		<i>Anthriscus sylvestris</i> [Wild chervil]	ANSY
<i>Sambucus nigra</i> ssp. <i>canadensis</i> [American black elderberry]	SANIC4		<i>Arctium minus</i> [Lesser burdock]	ARMI2
<i>Sambucus racemosa</i> [Red elderberry]	SARA2		<i>Berberis thunbergii</i> [Japanese barberry]	BETH
<i>Sorbus americana</i> [American mountain ash]	SOAM3		<i>Centaurea stoebe</i> [Spotted knapweed]	CEST8
<i>Taxus canadensis</i> [Canada yew]	TACA7		<i>Cirsium arvense</i> [Canada thistle]	CIAR4
<i>Vaccinium angustifolium</i> [Lowbush blueberry]	VAAN		<i>Cirsium palustre</i> [European swamp thistle]	CIPA6
<i>Vaccinium myrtilloides</i> [Velvetleaf huckleberry]	VAMY		<i>Cirsium vulgare</i> [Bull thistle]	CIVU
<i>Viburnum acerifolium</i> [Mapleleaf viburnum]	VIAC		<i>Elaeagnus umbellata</i> [Autumn olive]	ELUM
<i>Viburnum rafinesquianum</i> [Downy arrowwood]	VIRA		<i>Epipactis helleborine</i> [Helleborine orchid]	EPHE
			<i>Euphorbia cyparissias</i> [Cypress spurge]	EUCY2
<b>SEDGES</b>	<b>SYMBOL</b>		<i>Euphorbia esula</i> [Leafy spurge]	EUES
<i>Carex</i> spp. [sedge]	CAREX		<i>Frangula alnus</i> [Glossy buckthorn]	FRAL4
<i>Carex arctata</i> [Drooping woodland sedge]	CAAR3		<i>Galeopsis tetrahit</i> [Brittlestem hemnettle]	GATE2
<i>Carex assiniboinensis</i> [Walking sedge]	CAAS2		<i>Glechoma hederacea</i> [Creeping Charlie]	GLHE2
<i>Carex blanda</i> [Eastern woodland sedge]	CABL		<i>Hesperis matronalis</i> [Dames rocket]	HEMA3
<i>Carex brunnescens</i> [Brownish sedge]	CABR15		<i>Hypericum perforatum</i> [Common St. Johnswort]	HYPE
<i>Carex communis</i> [Fibrousroot sedge]	CAC07		<i>Lonicera</i> spp. [Honeysuckle]	LONIC
<i>Carex crinita</i> [Fringed sedge]	CACR6		<i>Lotus corniculata</i> [Bird's-foot trefoil]	LOCO6
<i>Carex deweyana</i> [Dewey sedge]	CADE9		<i>Lythrum salicaria</i> [Purple loosestrife]	LYSA2
<i>Carex disperma</i> [Softleaf sedge]	CADI6		<i>Myosotis</i> spp. [Forget-me-not]	MYOSO
<i>Carex gracillima</i> [Graceful sedge]	CAGR2		<i>Pastinaca sativa</i> [Wild parsnip]	PASA2
<i>Carex hirtifolia</i> [Pubescent sedge]	CAH5		<i>Phalaris arundinacea</i> [Reed canarygrass]	PHAR3
<i>Carex interior</i> [Inland sedge]	CAIN11		<i>Phragmites australis</i> [Common reed]	PHAU7
<i>Carex intumescens</i> [Greater bladder sedge]	CAIN12		<i>Pimpinella saxifraga</i> [Solidstem burnet saxifrage]	PISA
<i>Carex leptoneuria</i> [Nerveless woodland sedge]	CALE11		<i>Polygonum cuspidatum</i> [Japanese knotweed]	POCU6
<i>Carex ornostachya</i> [Necklace-spike sedge]	CAOR5		<i>Polygonum sachalinense</i> [Giant knotweed]	POSA4
<i>Carex peckii</i> [Peck's sedge]	CAPE11		<i>Rhamnus cathartica</i> [Common buckthorn]	RHCA3
<i>Carex pedunculata</i> [Longstalk sedge]	CAPE4		<i>Securigera varia</i> [Crownvetch]	SEVA4
<i>Carex pensylvanica</i> [Pennsylvania sedge]	CAPE6		<i>Tanacetum vulgare</i> [Common tansy]	TAVU
<i>Carex plantaginea</i> [Plantainleaf sedge]	CAPI4		<i>Taraxacum officinale</i> [Common dandelion]	TAOF

East Zone RFSS Plant Survey Contract  
Attachment 7 - Species Checklist

Chequamegon-Nicolet National Forest

<i>Carex projecta</i> [Necklace sedge]	CAPR9		<i>Valeriana officinalis</i> [Garden valerian]	VAOF	
<i>Carex rosea</i> [Rosy sedge]	CARO22		<i>Verbascum thaspus</i> [Common mullein]	VETH	
<i>Carex retrorsa</i> [Knotsheath sedge]	CARE4		<i>Veronica officinalis</i> [Common gypsyweed]	VEOF2	
<i>Carex sprengeii</i> [Sprengel's sedge]	CASP7				
<b>Project:</b>	<b>Observer(s):</b>	<b>Date:</b>	<b>Comp:</b>	<b>Stand(s):</b>	
<b>FORBS</b>	<b>SYMBOL</b>		<b>FORBS (CONTINUED)</b>	<b>SYMBOL</b>	
<i>Achillea millefolium</i> [Common yarrow]	ACMI2		<i>Panax trifolius</i> [Dwarf ginseng]	PATR2	
<i>Actaea pachypoda</i> [White baneberry]	ACPA		<i>Pedicularis canadensis</i> [Canadian lousewort]	PECA	
<i>Actaea rubra</i> [Red baneberry]	ACRU2		<i>Petasites frigidus</i> [Arctic sweet coltsfoot]	PEFR5	
<i>Agrimonia gryposepala</i> [Tall hairy agrimony]	AGGR2		<i>Phryma leptostachya</i> [American lopseed]	PHLE5	
<i>Allium tricoccum</i> [Wild leek]	ALTR3		<i>Pilea pumila</i> [Canadian clearweed]	PIPU2	
<i>Amphicarpaea bracteata</i> [American hogpeanut]	AMBR2		<i>Platanthera</i> spp. [Fringed orchid]	PLATA2	
<i>Anaphalis margaritacea</i> [Pearly everlasting]	ANMA		<i>Polygala paucifolia</i> [Fringed polygala]	POPA5	
<i>Anemone canadensis</i> [Canada anemone]	ANCA8		<i>Polygonatum pubescens</i> [Hairy Solomon's seal]	POPU4	
<i>Anemone quinquefolia</i> [Wood anemone]	ANQU		<i>Polygonum cilinode</i> [Fringed black bindweed]	POCI	
<i>Apocynum androsaemifolium</i> [Spreading dogbane]	APAN2		<i>Potentilla</i> spp. [Cinquefoil]	POTEN	
<i>Aquilegia canadensis</i> [Red columbine]	AOCA		<i>Prenanthes alba</i> [White rattlesnakeroot]	PRAL2	
<i>Aralia nudicaulis</i> [Wild sarsaparilla]	ARNU2		<i>Prunella vulgaris</i> [Common selfheal]	PRVU	
<i>Aralia racemosa</i> [American spikenard]	ARRA		<i>Pyrola</i> spp. [Wintergreen]	PYROL	
<i>Arisaema triphyllum</i> [Jack-in-the-pulpit]	ARTR		<i>Pyrola americana</i> [American wintergreen]	PYAM	
<i>Asarum canadense</i> [Canadian wildginger]	ASCA		<i>Pyrola chlorantha</i> [Greenflowered wintergreen]	PYCH	
<i>Asclepias exaltata</i> [Poke milkweed]	ASEX		<i>Pyrola elliptica</i> [Waxflower shinleaf]	PYEL	
<i>Asclepias syriaca</i> [Common milkweed]	ASSY		<i>Ranunculus abortivus</i> [Littleleaf buttercup]	RAAB	
<i>Aster</i> spp. [Aster]	ASTER		<i>Ranunculus acris</i> [Tall buttercup]	RAAC3	
<i>Boehmeria cylindrica</i> [Smallspike false nettle]	BOCY		<i>Ranunculus recurvatus</i> [Blisterwort]	RARE2	
<i>Caltha palustris</i> [Yellow marsh marigold]	CALPA5		<i>Sanguinaria canadensis</i> [Bloodroot]	SACA13	
<i>Campanula rotundifolia</i> [Bluebell bellflower]	CARO2		<i>Sanicula marilandica</i> [Black snakeroot]	SAMA2	
<i>Cardamine concatenata</i> [Cutleaf anemone]	CACO26		<i>Scutellaria lateriflora</i> [Blue skullcap]	SCLA2	
<i>Cardamine diphylla</i> [Broadleaf toothwort]	CADI10		<i>Smilax herbacea</i> [Smooth carrionflower]	SMHE	
<i>Cardamine pensylvanica</i> [Pennsylvania bittercress]	CAPE3		<i>Smilax tamnoides</i> [Bristly greenbrier]	SMTA2	
<i>Caulophyllum thalictroides</i> [Blue cohosh]	CATH2		<i>Solidago</i> spp. [Goldenrod]	SOLID	
<i>Chimaphilla umbellata</i> [Pipsissewa]	CHUM		<i>Solidago canadensis</i> [Canada goldenrod]	SOCA6	
<i>Circaea alpina</i> [Small enchanter's nightshade]	CIAL		<i>Solidago flexicaulis</i> [Zigzag goldenrod]	SOFL2	
1 - A Year of Origin value of 1000 indicates an uneven aged stand.	CILU		<i>Solidago gigantea</i> [Giant goldenrod]	SOGI	
2 - An Age value of 1017 indicates an uneven aged stand.	CLCA		<i>Sireptopus lanceolatus</i> var. <i>longipes</i> [Twistedstalk]	STLAL3	
<i>Claytonia virginica</i> [Virginia springbeauty]	CLV13		<i>Symphotrichum lateriflorum</i> [Calico aster]	SYLA4	
<i>Clintonia borealis</i> [Bluebead lily]	CLBO3		<i>Symphotrichum puniceum</i> [Purplestem aster]	SYPU	
<i>Convolvulus arvensis</i> [Field bindweed]	COAR4		<i>Symphotrichum urophyllum</i> [White arrowleaf aster]	SYUR	
<i>Coptis trifolia</i> [Threeleaf goldthread]	COTR2		<i>Thalictrum dasycarpum</i> [Purple meadow-rue]	THDA	
<i>Corallorhiza</i> spp. [Coralroot]	CORAL5		<i>Thalictrum dioicum</i> [Early meadow-rue]	THDI	
<i>Corallorhiza maculata</i> [Summer coralroot]	COMA25		<i>Trientalis borealis</i> [Starflower]	TRBO2	
<i>Corallorhiza striata</i> [Hooded coral root]	COST19		<i>Trillium cernuum</i> [Nodding trillium]	TRCE	
<i>Corallorhiza trifida</i> [Yellow coral root]	COTR18		<i>Trillium grandiflorum</i> [White trillium]	TRGR4	
<i>Cornus canadensis</i> [Bunchberry]	COCA13		<i>Triosteum aurantiacum</i> [Orangefruit horse-gentian]	TRAU4	
<i>Cryptotaenia canadensis</i> [Canadian honewort]	CRCA9		<i>Urtica dioica</i> [Stinging nettle]	URDI	
<i>Cynoglossum virginianum</i> [Northern wild comfrey]	CYVIB		<i>Uvularia grandiflora</i> [Largeflower bellwort]	UVGR	
<i>Cypripedium acaule</i> [Moccasin flower]	CYCA3		<i>Uvularia sessilifolia</i> [Sessileleaf bellwort]	UVSE	
<i>Cypripedium parviflorum</i> [Lesser yellow lady's slipper]	CYPA19		<i>Verbena hastata</i> [Swamp vervain]	VEHA2	
<i>Desmodium glutinosum</i> [Pointedleaf ticktrefoil]	DEGL5		<i>Verbena urticifolia</i> [White vervain]	VEUR	
<i>Dicentra canadensis</i> [Squirrel corn]	DICA		<i>Viola</i> spp. [Violet]	VIOLA	
<i>Dicentra cucullaria</i> [Dutchman's breeches]	DICU		<i>Viola blanda</i> var. <i>palustriformis</i> [Sweet white violet]	VIPLP	
<i>Doellingeria umbellata</i> [Parasol whitetop]	DOUM2		<i>Viola canadensis</i> [Canada white violet]	VICA4	
<i>Epigaea repens</i> [Trailing arbutus]	EPRE2		<i>Viola maclokeyi</i> [Small white violet]	VIMA2	
<i>Erigeron</i> spp. [Fleabane]	ERIGE2		<i>Viola pubescens</i> [Downy yellow violet]	VIPU3	
<i>Erythronium americanum</i> [Dogtooth violet]	ERAM5		<i>Viola rotundifolia</i> [Roundleaf yellow violet]	VIRO2	
<i>Eupatorium</i> spp. [Boneset]	EUPAT		<i>Viola selkirkii</i> [Selkirk's violet]	VISE2	
<i>Eurybia macrophylla</i> [Bigleaf aster]	EUMA27		<i>Viola sororia</i> [Common blue violet]	VISO	
<i>Euthamia graminifolia</i> [Flat-top goldentop]	EUGR5		<i>Waldsteinia fragarioides</i> [Barren strawberry]	WAFR	
<i>Fragaria vesca</i> [Woodland strawberry]	FRVE				
<i>Fragaria virginianum</i> [Virginia strawberry]	FRV1				
<i>Galium</i> spp. [Bedstraw]	GALIU				
<i>Gaultheria hispida</i> [Creeping snowberry]	GAHI2		<b>GRASSES &amp; GRASS LIKE PLANTS</b>	<b>SYMBOL</b>	
<i>Gaultheria procumbens</i> [Eastern teaberry]	GAPR2		<i>Agrostis gigantea</i> [Redtop]	AGGI2	
<i>Geum aleppicum</i> [Yellow avens]	GEAL3		<i>Agrostis hyemalis</i> [Winter bentgrass]	AGHY	
<i>Geum canadense</i> [White avens]	GECA7		<i>Brachelytrum erectum</i> [Bearded shorthusk]	BRER2	
<i>Goodyera pubescens</i> [Downy rattlesnake plantain]	GOPU		<i>Bromus ciliatus</i> [Fringed brome]	BRCI2	
<i>Goodyera repens</i> [Lesser rattlesnake plantain]	GORE2		<i>Bromus hordeaceus</i> spp. <i>hordeaceus</i> [Soft brome]	BRHOH	
<i>Hackelia virginiana</i> [Beggar's lice]	HAVI2		<i>Bromus kalmii</i> [Arctic brome]	BRKA2	
<i>Halenia deflexa</i> [American spurred gentian]	HADE2		<i>Bromus pubescens</i> [Hairy woodland brome]	BRPU6	
<i>Helianthus strumosus</i> [Paleleaf woodland sunflower]	HEST		<i>Calamagrostis canadensis</i> [Bluejoint]	CACA4	
<i>Hepatica nobilis</i> var. <i>acuta</i> [Sharplobe lobed hepatica]	HENOA		<i>Cinna latifolia</i> [Drooping woodreed]	CINA2	
<i>Hepatica nobilis</i> var. <i>obtus</i> a [Roundlobe lobed hepatica]	HENOO		<i>Danthonia spicata</i> [Poverty oatsgrass]	DASP2	
<i>Heracleum maximum</i> [Common cowparsnip]	HEMA80		<i>Dichanthelium linearifolium</i> [Slimleaf panicgrass]	DILI2	
<i>Hieracium aurantiacum</i> [Orange hawkweed]	HIAU		<i>Elymus hystrix</i> [Eastern bottlebrush grass]	ELHY	
<i>Hieracium caespitosum</i> [Meadow hawkweed]	HICA10		<i>Elymus repens</i> [Quackgrass]	ELRE4	
<i>Hieraceum scabrum</i> [Rough hawkweed]	HISC		<i>Elymus trachycaulus</i> [Slender wheatgrass]	ELTR7	
<i>Hydrophyllum virginianum</i> [Eastern waterleaf]	HYVI		<i>Elymus virginicus</i> [Viginia wildrye]	ELV13	
<i>Impatiens capensis</i> [Orange jewelweed]	IMCA		<i>Elymus villosus</i> [Hairy wildrye]	ELV13	
<i>Impatiens pallida</i> [Pale touch-me-not]	IMPA		<i>Festuca subverticillata</i> [Nodding fescue]	FESU3	
<i>Lactuca biennis</i> [Tall blue lettuce]	LABI		<i>Glyceria canadensis</i> [Rattlesnake mannagrass]	GLCA	
<i>Lactuca canadensis</i> [Canada lettuce]	LACA		<i>Glyceria grandis</i> [American mannagrass]	GLGR	
<i>Laportea canadensis</i> [Canadian woodnettle]	LACA3		<i>Glyceria striata</i> [Fowl mannagrass]	GLST	
<i>Linnaea borealis</i> [Twinflower]	LIBO3		<i>Juncus tenuis</i> [Poverty rush]	JUTE	
<i>Lycopus uniflorus</i> [Northern bugleweed]	LYUN		<i>Koeleria macrantha</i> [Prairie Junegrass]	KOMA	
<i>Maianthemum canadense</i> [Wild lily of the valley]	MACA4		<i>Luzula acuminata</i> [Hairy woodrush]	LUAC	
<i>Maianthemum racemosum</i> ssp. <i>racemosum</i> [False lily of the valley]	MARAR		<i>Melica smithii</i> [Smith's melicgrass]	MESM	
<i>Maianthemum stellatum</i> [Starry false lily of the valley]	MAST4		<i>Milium effusum</i> [American milletgrass]	MEIF	
<i>Melampyrum lineare</i> [Narrowleaf cowwheat]	MELI2		<i>Muhlenbergia racemosa</i> [Marsh muhly]	MURA	
<i>Mentha arvensis</i> [Wild mint]	MEAR4		<i>Oryzopsis asperifolia</i> [Roughleaf ricegrass]	ORAS	
<i>Mitchella repens</i> [Partridgeberry]	MIRE		<i>Phleum pratense</i> [Timothy]	PHPR3	

**East Zone RFSS Plant Survey Contract**  
**Attachment 7 - Species Checklist**

**Chequamegon-Nicolet National Forest**

<i>Mitella diphylla</i> [Twoleaf miterwort]	MIDI3		<i>Poa</i> spp. [Bluegrass]	POA	
<i>Monarda fistulosa</i> [Wild bergamot]	MOFI		<i>Poa alsodes</i> [Grove bluegrass]	POAL3	
<i>Monotropa hypopithys</i> [Pinesap]	MOHY3		<i>Poa palustris</i> [Fowl bluegrass]	POPA2	
<i>Monatropa uniflora</i> [Indianpipe]	MOUN3		<i>Poa pratensis</i> [Kentucky bluegrass]	POPR	
<i>Osmorhiza claytonii</i> [Sweet cicely]	OSCL		<i>Poa saluensis</i> [Oldpasture bluegrass]	POSA	
<i>Oxalis montana</i> [Mountain wood sorrel]	OXMO		<i>Schizachne purpurascens</i> [False melic]	SCPU	
<i>Oxalis stricta</i> [Common yellow woodsorel]	OXST		<i>Scirpus</i> spp. [Bulrush]	SCIRP	
<i>Panax quinquefolius</i> [American Ginseng]	PAQU				



**East Zone RFSS Plant Survey Contract**  
**Attachment 8 - WI NHI Form**

**Chequamegon-Nicolet National Forest**

**State of Wisconsin**  
**Department of Natural Resources**  
**dnr.wi.gov**

**Wisconsin Natural Heritage Inventory**  
**Rare Plant Field Report**  
**Form 1700-049 (R 10/14)**

Notice: Completion of this form is voluntary. Data collected will be used to supplement the Wisconsin Natural Heritage Inventory database. Personal information collected on this form will be used to process your request, and is intended to be used to contact you if DNR staff require additional information; it may also be made available to requesters under Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats].

Species Type:				Species Name:			
<b>Location</b>							
Site Name (if known):					County:		
USGS Quad:	Township:	Range:		E	Section:	¼ Section:	¼ ¼ Section:
	N			W			
GPS Coordinates (Latitude & Longitude):		GPS Accuracy:		ft.	GPS Datum:		Date Coordinates Taken:
				m.			
Please provide written directions to the rare plant occurrence. It is also helpful to provide a digital map using the WDNR mapping application ( <a href="http://dnr.wi.gov/topic/Lands/DMLmap">http://dnr.wi.gov/topic/Lands/DMLmap</a> ). Digital maps can be emailed to <a href="mailto:kevinf.doyle@wisconsin.gov">kevinf.doyle@wisconsin.gov</a> .							
Landowner Name (if known):							
Note: The Natural Heritage Program can not accept data derived from trespass. Gain landowner's permission before entering private property							
<b>Observation Details</b>							
Observation Date:		Number of Individuals:		Select One:			
				<input type="checkbox"/> Stems <input type="checkbox"/> Clumps <input type="checkbox"/> Clones			
Estimate the Percentage of the Population Belonging to the Following Categories:							
	% in Flower/Bud		% in Fruit		% Sterile Adults		% Seedlings/Juveniles
Describe your survey effort:							
<input type="checkbox"/> <b>Exhaustive</b> (e.g., After finding the rare plant you searched surrounding area well and are confident you found the full extent of the population.)							
<input type="checkbox"/> <b>Thorough but not exhaustive</b> (e.g., After finding the rare plant you briefly searched the immediate area but did not try to count every plant)							
<input type="checkbox"/> <b>Incidental</b> (e.g., you noticed the plants in passing, did not realize what you find until after you left the site or otherwise made no attempt to determine the size of the population.)							
Describe the size of the area surveyed (e.g., "We searched two 40mx40m prairie openings, but not the adjacent woodland." or "We searched approximately 10m around the GPS point."):							

Wisconsin Natural Heritage Inventory  
Rare Plant Field Report  
Form 1700-049 (R 10/14)

Observation Details (continued)

Current Management:

Describe any Evidence of Disturbance or Threats to the Plan Population (Include evidence of predation, logging, succession, etc., and changes since you since you last saw the population if this is a return visit):

Habitat Description (Including associated species, community type, slope, aspect, light level, soil moisture and type):

Was a Specimen Taken?

☐ Yes ☐ No

If Yes, Collection Number

Herbarium Name

Was a Photograph Taken?

☐ Yes ☐ No

If Yes, Storage Location

Taxonomic Reference(s) used:

☐ Memory  
☐ Gleason & Cronquist  
☐ Wildflowers & Weeds  
☐ Peterson Guide

☐ Michigan Flora  
☐ Swink & Wilhelm  
☐ Gray's Manual  
☐ Fassett's Aquatic Plants

☐ Spring Flora of Wisconsin  
☐ Preliminary Reports  
☐ Comparison with verified herbarium specimen  
☐ Other (specify):

Observer Information

Last Name

First

M.I.

Telephone Number

Address:

City:

State:

Zip Code:

E-mail:

Send completed forms and maps to:

[KevinF.Doyle@wisconsin.gov](mailto:KevinF.Doyle@wisconsin.gov)

or

Botanist, Wisconsin Natural Heritage Program  
Bureau of Natural Heritage Conservation  
Department of Natural Resources  
PO Box 7921  
Madison WI 53707-7921  
(608) 266-7012

<b>GPS Latitude Decimal Degrees <sup>3</sup>:</b>			
<b>GPS Longitude Decimal Degrees:</b>			
<b>USGS Quad:</b>	<b>T.</b>	<b>R.</b>	<b>Sec.</b>
<b>Comp:</b>	<b>Stand:</b>	<b>FS Road #:</b>	
<b>Direction and distance to nearest intersection/known landmark:</b>			

Comments:	

**East Zone RFSS Plant Survey Contract**  
**Attachment 9 - Invasive Species Inventory Form**

**Chequamegon-Nicolet National Forest**

**1-Site Identification**

All site ID numbers will start with 0913, where 09=Eastern Region and 13=CNMF

The next two numbers indicate district:

01	Medford/Park Falls	04	Lakewood/Laona
02	Great Divide	05	Washburn
03	Eagle River/Florence		

The next two numbers indicate the year of the survey.

The last 3 digits in the site ID are a unique serial number according to your observance of infestations on that district for that year; starting at 001, 002... up to 999. This should be a unique number per district per year, and can start over again the next year.

**Example)** 09130304155:09=Region, 13=Forest, 03=Eagle River/Florence, 04= 2004, 155= the 155th infestation sighting or record for that district in that year.

2- NRCS Species Code	Scientific Name	Common Name
ALPE4	<i>Alliaria petiolata</i>	Garlic mustard
BETH	<i>Berberis thunbergii</i>	Japanese barberry
CAAR18	<i>Caragana arborescens</i>	Siberian pea
CEBI2	<i>Centaurea biebersteinii</i>	Spotted knapweed
CEOR	<i>Celastrus orbiculata</i>	Oriental bittersweet
CIAR4	<i>Cirsium arvense</i>	Canada thistle
CIPA6	<i>Cirsium palustre</i>	Swamp thistle
CIVU	<i>Cirsium vulgare</i>	Bull thistle
ELUM	<i>Elaeagnus umbellata</i>	Autumn olive
EUCY2	<i>Euphorbia cyparissias</i>	Cypress spurge
EUES	<i>Euphorbia esula</i>	Leafy spurge
FRAL4	<i>Rhamnus frangula</i>	Glossy buckthorn
GATE2	<i>Galeopsis tetrahit</i>	Brittlestem hempenettle
LONIC	<i>Lonicera species</i>	Asiatic honeysuckles
LYSA2	<i>Lythrum salicaria</i>	Purple loosestrife
MYAR	<i>Myosotis arvensis</i>	Field forget-me-not
MYSC	<i>Myosotis scorpioides</i>	True forget-me-not
MYSI	<i>Myriophyllum spicatum</i>	Eurasian water milfoil
PASA2	<i>Pastinaca sativa</i>	Wild parsnip
PHAR3	<i>Phalaris arundinacea</i>	Reed canary grass
PHAU7	<i>Phragmites australis</i>	Common reed grass
POCR3	<i>Potamogeton crispus</i>	Curly Pond Weed
POCU6	<i>Polygonum cuspidatum</i>	Japanese knotweed
RHCA3	<i>Rhamnus cathartica</i>	Common buckthorn
VETH	<i>Verbascum thapsus</i>	Common mullein

**3-GPS Direction**

When using recreational grade GPS units (Garmin, etc...) make sure the following measurement units are set on the GPS. Position format to **hddd.dddd** and map datum to **WGS84**