WOOD COUNTY, WI
FOREST COMPREHENSIVE LAND USE PLAN
TABLE OF CONTENTS
CHAPTER 2000
PLANNING, REPORTS & BUDGET

2000 NEEDS, OBJECTIVE AND FORMAT

Objectives: To provide guidelines, which define the optimum level of activities, which should be undertaken to achieve full potential benefits from the forest.

Format and Policy: Needs for the county forest shall be listed without regard to budgetary constraints or other limitations. This list shall identify the forest potential in terms of public benefits, investments or opportunities, and financial returns. Silvicultural needs of the county forest are identified in the Forest Compartment Reconnaissance printout. The DNR Public Lands Handbook describes procedures for use of this information. Other needs shall be determined by the Committee and the forest administrator, with technical assistance from the DNR and other interested agencies or individuals qualified to provide such assistance.

2005 DETAILED ANNUAL NEEDS FOR FIFTEEN YEARS

Annual silvicultural needs are identified in the Forest Compartment Reconnaissance printout. The printout, referenced in the plan, is available in the County Forest Administrator's office. Printout listings include timber harvests, tree planting, and other silvicultural activities. Other unanticipated needs will be addressed in accordance with procedures outlined in this plan. These items will be identified and plans made for implementation, as part of the annual budget work plan prepared by the administrator and Committee. Annual work plans are approved by the County Board and forwarded to the DNR as required by statute (s. 28.11(5) (b) and s.28.11 (5m) (b), Wis. Stats.

2010 SUMMARY OF FIFTEEN-YEAR NEEDS

A schedule giving a summary of silvicultural needs for the period covered by this plan, appear as an inclusion in this chapter.

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total	Average/year
Timber Harvest - acres - Total	1866	762	915	953	1002	784	693	622	625	776	677	622	432	593	643	11,965	799
Regeneration Harvests - acres - Total	1089	535	550	726	768	652	553	525	543	514	440	531	432	548	584	8,990	599
Aspen	314	270	283	271	280	290	271	289	359	268	295	318	272	444	440	4,664	311
Bottomland Hardwoods	220	35	23	69	45	65	29	28	0	0	0	0	0	0	0	514	34
Central Hardwoods	48	0	0	0	0	0	19	0	0	0	0	0	0	0	0	67	4
Red Maple	97	102	39	16	108	124	124	71	12	119	55	5	0	0	47	919	61
Oak	274	49	84	285	248	96	57	43	67	74	56	153	107	46	85	1,724	115
Scrub Oak	29	16	33	5	0	0	2	0	49	4	5	0	0	0	0	143	10
Jack Pine	0	0	0	0	26	0	0	0	6	0	9	0	0	0	0	41	3
Red pine	40	43	27	54	21	19	37	61	25	37	9	0	25	0	0	398	27
White Pine	51	20	61	26	40	58	14	33	25	12	11	49	28	58	12	498	33
White Spruce	16	0	0	0	0	0	0	0	0	0	0	6	0	0	0	22	1
Intermediate Harvests - acres - Total	777	227	365	227	234	132	140	97	82	262	237	91	0	45	59	2,975	200
Aspen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bottomland Hardwoods	138	0	0	41	0	29	0	0	0	0	0	0	0	0	0	208	14
Central Hardwoods	0	0	0	94	0	0	0	0	0	0	0	0	0	0	0	94	6
Red Maple	18	18	0	0	14	0	0	0	6	0	16	64	0	0	29	165	11
Oak - acres	197	6	61	0	101	0	0	42	0	32	0	0	0	35	0	474	32
Scrub Oak	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	38	3
Jack Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red Pine	299	115	166	54	11	7	0	22	21	78	0	0	0	0	0	773	52
White Pine	125	88	138	0	108	96	140	33	55	152	221	27	0	10	30	1,223	82
White Spruce																	
Reforestation																	
Planting - acres	0	62	34	43	144	70	43	8	8	61	25	14	16	57	51	636	42
Direct Seeding - acres	6	26	0	11	0	0	0	0	0	0	0	0	0	0	0	43	3
Site Preparation - acres	62	34	43	144	70	43	8	8	61	25	14	16	57	51	0	636	42
Timber Stand improvement/Cultural																	
Herbicide for invasives	234	9	0	0	0	0	0	35	0	0	0	9	0	0	0	287	19
Chemical Realease - Conifers - acres	21	0	0	30	0	0	0	0	0	0	0	0	0	0	0	51	3
Hardwood TSI/Crop Tree Release - acres	0	0	0	0	0	16	0	0	0	51	8	0	0	0	0	75	7
Thinning - Non Commercial - acres	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	4
Shearing Aspen to promote regeneration	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23	2

Note: The "Needs" schedule is put together for planning purposes. The best available information has been used in developing the schedule. It is not intended to be followed without modification. Forests are dynamic and managers must be adaptive to change. Funding and staffing shortfalls may also affect the ability of Wood County Parks Forestry Department to fulfill identified needs. Refer to Chapter 2020 – Annual Work Plan and Budget for reference on progress towards the identified needs in this chapter.

2015 WORK PLAN OBJECTIVE AND POLICY

OBJECTIVE

To develop an annual work plan and budget that will satisfy the needs specified in Chapter 100 to the greatest extent feasible, consistent with program priorities established in the Mission Statement.

POLICY

The County Forest program will sustain a level of operation that considers the needs of the forest and the public in accordance with the goals identified in Chapter 100.

2020 ANNUAL WORK PLAN AND BUDGET

Each year, the forest administrator shall prepare an Annual Work Plan and Budget with assistance from the Committee and the DNR Liaison Forester. This plan shall be based upon the detailed annual needs contained in Section 1100 of the Plan. Annual work plans are approved by the County Board and forwarded to the DNR Division of Forestry as required by Wisconsin statutes s. 28.11(5)(b) and s.28.11(5m)(b). Following County Board approval, a copy is provided to official copyholders of the County Forest Comprehensive Land Use Plan for inclusion as an amendment in this chapter.

Insert Annual Work Plans and Budgets

2021 Wood County Forest Annual Work Plan
Potential Timber Sales for 2021:

REGENERATION & FINAL HARVESTS:

COMPARTMENT	STANDS	ACRES	FOREST TYPE	TOWNSHIP
6	6	14	OAK	REMINGTON
18	2	5	OAK	PORT ED.
19	5,9	30	ASPEN,OAK	PORT ED.
22	2,1	52	ASPEN, W.SPRUCE	CRANMOOR
37	16	94	OAK	HILES
41	6	102	ASPEN	HILES
54	19	20	OAK	DEXTER
54	15	11	R.PINE	DEXTER
61	1	15	R.MAPLE	DEXTER
62	1	26	R.PINE	DEXTER
63	5	12	R.PINE	DEXTER
66	21,22,29,30	99	ASPEN, OAK, C.HWD, BOT.HWD	CRANMOOR
69	2	56	ASPEN	CRANMOOR
70	8,14,19	67	OAK, R.PINE	CRANMOOR, PORT ED.
71	6	43	R.MAPLE	SENECA
72	17	7	W.PINE	SENECA
77	6	58	W.PINE	SENECA

Total Regeneration Acres = 711

THINNINGS

COMPARTMENT	STANDS	ACRES	FOREST TYPE	TOWNSHIP
11	11	20	OAK	REMINGTON
19	14	50	R.PINE	PORT ED.
37	8	40	OAK	HILES
54	22	5	R.PINE	DEXTER
61	7	23	R.PINE	DEXTER
62	10	15	W.PINE	DEXTER
63	17	10	R.PINE	DEXTER
69	1,15	21	R.PINE	SENECA, PORT ED.
70	21,22,24	38	R.PINE	PORT ED.
72	9	28	W.PINE	SENECA

Total Thinning Acres = 250

TOTAL FOR ALL POTENTIAL TIMBER SALES = 961 ACRES

WILDLIFE HABITAT PROJECTS:

Wildlife Habitat Grant funding was cut by 50% in 2009 due to DNR budgetary concerns. What was once known as "Dime-an-Acre" has now become "Nickel-an-Acre".

Wildlife projects, utilizing Nickel-an-Acre monies, identified for the year 2021 include:
Red-Shouldered Hawk: Survey suitable habitat within new timber harvest areas as needed. Survey sites will be determined after 2021 harvest schedule is completed.

Another potential project agreed upon is tag alder & non-merchantable aspen shearing to improve grouse and woodcock habitat. Local WDNR wildlife biologist will work with forest administrator and county forest liaison to locate areas suitable for such habitat improvements.

Reserve remaining funds (if any) as allowed by program rules for future projects. A maximum total of up to three years of grant monies may be accumulated without penalty.

2021 REFORESTATION/CULTURAL PROJECTS:

a) Reforestation:

- No major tree planting projects are planned for spring 2021, as site prep contractor was unable to undertake work within necessary timeframe. Site prep will be rescheduled for late summer 2021, resulting in tree planting spring 2022.

- Jack pine seeding: The following table is a list of sites that have been identified as suitable for seeding to jack pine. These sites, and possibly others, will be/have been scarified with assistance from DNR dozer(s) followed by direct seeding to jack pine.

Compartment	Stand(s)	Acreage
18	11	6
33	2	25
73	3	5

** Also identify other suitable sites for seeding to jack pine in the future.*

TOTAL 36 acres

b) Cultural Projects:

- These projects will be undertaken as time and availability of personnel permit.

CULTURAL PROJECTS

Non-commercial thinning:

Compartment	Stand	Timber Type	Acreage
73	12	Oak/ Red Pine	18
74	2	Aspen/Oak	9
		TOTAL:	**27 acres**

Release/TSI:

Compartment	Stand	Timber Type	Acreage	
20	16	Red Pine/White Pine	9	Chemical Release
34	2	Oak	47	Chem. TSI (ironwood)
69	1, 15	Red Pine	21	Chem. Invasive Spp. control
70	1	Red Pine/White Pine	25	Chemical Release
70	9	Red Pine/White Pine	60	Chemical Release
70	16	Red Pine/White Pine	28	Chemical Release
71	12	Jack Pine	9	Chemical Release
71	21	Jack Pine	12	Chemical Release
73	4	Red Pine/White Pine	50	Chemical Release
		TOTAL:	**261 acres**	

Site Prep:

- Compartment 70, stand 5: pre-planting herbicide site prep and trenching for 2022 tree planting project, approximately 30 acres.
- Compartment 71, stand 20: Scarified late summer/fall 2020, chemical invasive species treatment to follow in 2021 for 2022 direct seeding or tree planting, 9 acres.
- Compartment 69, stand 6: Scarify late summer/fall 2021, chemical invasive species treatment to follow in 2022 for direct seeding 2023, 11 acres.

TOTAL: 50 acres

RECON UPDATING:

- Routine recon updates due to timber sales completion as needed.
- Backlog recon project: update approximately 1700 acres of old recon.
- Evaluate natural and artificial regeneration on approximately 448 acres.

OTHER WORK NEEDS:

a) 15-Year Comprehensive Land Use Plan:

- Complete revision of Wood County 15-year plan as required by state statute for meeting county forest program requirements. This will be a lengthy process and large workload, will involve public input, and ultimately require County Board and DNR approval.

b) Forestry Technician:

- Continue training Forestry Technician to improve skills related to forestry aspects of the position. The Technician position shall be focused on timber stand improvement, invasive species management, forest infrastructure maintenance, and shall assist with timber sale establishment, forest recon, tree planting, surveys, ATV trail development, etc.

c) Road Repairs & Access Management:

**Road repair efforts in 2020 were substantial; however, some improvements and regular maintenance will be needed in 2021. Heavily traveled county forest roads open to vehicular travel are in better shape but still vulnerable to wet conditions. Furthermore, it is expected road maintenance needs will increase on certain roads destined to become part of the new Wood County ATV trail system. Road maintenance and improvements will continue to be a main work priority for the forestry technician.*

- Continue project to repair and protect damaged roads on the county forest. Road repairs and closures will occur throughout the county forest as time and manpower permit. Install boulders and rebuild berms throughout county forest where vehicles are gaining illegal access and damaging roads or dumping trash.
- Begin project to improve road and install railroad crossing in compartment 46 for the purpose of timber sale access.
- Improve parking and vehicular access control off Puff Creek Boulevard (south access to the Richfield 360 block of county forest).

d) Recreation:

- ATV Trail Improvement: Maintain trail identification and signage improvements to the Wood County ATV intensive use area located south of HWY 54 near Port Edwards. Also, work with DNR forestry technicians to incorporate dozer-training time for trail maintenance purposes whenever possible. Improve access for emergency vehicles and first responders.
- Maintain new ATV trail system on county forest including signage, brushing, grading.
- ATV trail Development: Begin process of building 4 miles of new ATV trail, which has been awarded $400K through DNR ATV grant program.
- Continue to assist with current effort to develop an ATV route & trail system in Wood County. Continue identification and planning for future trail development projects within Wood County Forest lands.
- Mountain Bike Trails: Work with local individuals who have begun developing a mountain bike trail system in the South Bluff Block of Wood County Forest. Develop helicopter-landing site for emergency response.

e) Land Surveying Needs:

- Several areas of the county forest are in need of surveying and boundary line establishment. We will continue a survey project, using budgeted dollars, to facilitate timber sale establishment in areas of the county forest in need of management. We will also work with neighboring landowner requests to locate property lines provided good monumentation exists, and as time permits.

f) Easements, Encroachments, Land Transactions:

- Investigate and address easement, land trade requests and encroachments as they arise. Investigate opportunities to purchase parcels advantageous to the management of the county forest as they arise.

g) Forest Certification:

- Continue to make changes necessary to comply with forest certification corrective actions previously identified and as solutions are developed.

h) Wildlife Habitat:

- Continue to involve the wildlife biologist in timber sales design, planning for Nickel-an-Acre grant funds, and in identifying wildlife habitat improvement projects.

i) Invasive Species:

- Continue efforts to treat of most severe infestations of buckthorn. County forest locations include timber stands in Compartments 69,74,75,79.

j) Beaver Issues:

- Continue to address increasing complaints about beaver activities on Wood County Forest where they are negatively affecting town roads and recreational trails. Make use of volunteer trappers whenever possible.

k) Technical Forestry Training & Technology:

- Take advantage of training and continuing educational opportunities offered through DNR, FISTA, and other professional forestry organizations as time permits.
- Continue to improve proficiency in use of GIS, GPS, and related technology. As needed, attend training to utilize this technology for managing the county forest more efficiently.

- Cooperate with other entities (e.g. FISTA, UWSP, WLAWCA) to promote forestry and natural resource educational efforts.
- Acquire Wisconsin Pesticide Applicators Certification.

l) Drainage Ditch Management:

- Continue efforts to work with cranberry grower requests to clean selected ditches to improve drainage. Ditch cleaning projects will be discussed with appropriate DNR, Army Corps of Engineers, County Planning and Zoning personnel to insure proper design and permits are in place.
- Incorporate possible ditch cleaning operations/requests into timber sale design and harvest schedule

m) Hardwood Bombing Range Expansion:

Although the issue of the Hardwood Bombing Range has subsided and there are no current expansion plans known, we will continue maintain relations with the Air National Guard and monitor and respond as necessary to issues relating to the bombing range.

Department: 21 - Parks	2101 - Parks-Administration	2102 - Parks-Snowmobile Trails	2103 - Parks-ATV Trail Maintenance	2104 - Parks-State Wildlife Habitat	2105 - Parks-Co Forests State Aid	2106 - Parks-State Forestry Road	2107 - Parks-Capital Projects	2108 - Parks-Powers Bluff Dev Proj	2021 Total	Change %	2020 Budget
	2021 Budget Summary										
Expense / Expenditure											
100 - Personnel Services	1,164,460	0	0						**1,164,460**	-1.61%	1,183,478
200 - Contractual Services	312,615			2,000		7,000			**321,615**	-0.22%	322,325
300 - Supplies and Expense	108,420	253,777	474,740				4,330	100	**841,367**	+315.94%	202,282
500 - Fixed Charges	72,667		926						**73,593**	+14.56%	64,240
700 - Grants and Contributions	6,601								**6,601**	0.00%	6,601
Total Operating Expenditures	1,664,763	253,777	475,666	2,000		7,000	4,330	100	**2,407,636**	+35.34%	1,778,926
800 - Capital Outlay	80,000						25,000		**105,000**	+14.13%	92,000
900 - Other Financing Uses							0		**0**	0.00%	0
Expense / Expenditure Total	1,744,763	253,777	475,666	2,000		7,000	29,330	100	**2,512,636**	+34.30%	1,870,926
Revenue / Funding Source											
43 - Intergovernmental Revenues	(48,935)	(253,777)	(145,547)	(1,772)		(3,340)	0		**(453,371)**	+109.50%	(216,411)
45 - Fines, Forfeits and Penalties	(750)								**(750)**	0.00%	(750)
46 - Public Charges for Services	(1,070,000)								**(1,070,000)**	+14.44%	(935,000)
48 - Miscellaneous Revenues	(16,503)		(4,100)		0		(12,165)	(2,000)	**(34,768)**	-10.09%	(38,668)
49 - Other Financing Sources	0								**0**	0.00%	0
Total Operating Revenues	(1,136,188)	(253,777)	(149,647)	(1,772)	0	(3,340)	(12,165)	(2,000)	**(1,558,889)**	+30.91%	(1,190,829)
Revenue / Funding Source Total	(1,136,188)	(253,777)	(149,647)	(1,772)	0	(3,340)	(12,165)	(2,000)	**(1,558,889)**	+30.91%	(1,190,829)
Beginning Carryover	**0**	**27901**	**310320**	**2257**	**319207**	**4938**	**152333**	**12100**			
Ending Carryover	**0**	**27901**	**-15699**	**2029**	**319207**	**1278**	**135168**	**14000**			
21 - Parks Tax Levy	**608,575**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**953,747**	+40.24%	680,097

Department: 21 - Parks	2101 - Parks-Administration	2102 - Parks-Snowmobile Trails	2103 - Parks-ATV Trail Maintenance	2104 - Parks-State Wildlife Habitat	2105 - Parks-Co Forests State Aid	2106 - Parks-State Forestry Road	2107 - Parks-Capital Projects	2108 - Parks-Powers Bluff Dev Proj	2020 Budget
	2020 Budget Summary								
Expense / Expenditure									
100 - Personnel Services	1,183,478	0	0						**1,183,478**
200 - Contractual Services	312,825			2,500		7,000			**322,325**
300 - Supplies and Expense	107,420	79,777	10,655				4,330	100	**202,282**
500 - Fixed Charges	63,414		826						**64,240**
700 - Grants and Contributions	6,601								**6,601**
Total Operating Expenditures	1,673,738	79,777	11,481	2,500		7,000	4,330	100	**1,778,926**
800 - Capital Outlay	52,000						40,000		**92,000**
900 - Other Financing Uses							0		**0**
Expense / Expenditure Total	1,725,738	79,777	11,481	2,500		7,000	44,330	100	**1,870,926**
Revenue / Funding Source									
43 - Intergovernmental Revenues	(48,126)	(79,777)	(6,826)	(1,772)		(3,300)	(76,610)		**(216,411)**
45 - Fines, Forfeits and Penalties	(750)								**(750)**
46 - Public Charges for Services	(935,000)								**(935,000)**
48 - Miscellaneous Revenues	(16,503)		(6,000)		0		(14,165)	(2,000)	**(38,668)**
49 - Other Financing Sources	0								**0**
Total Operating Revenues	(1,000,379)	(79,777)	(12,826)	(1,772)	0	(3,300)	(90,775)	(2,000)	**(1,190,829)**
Revenue / Funding Source Total	(1,000,379)	(79,777)	(12,826)	(1,772)	0	(3,300)	(90,775)	(2,000)	**(1,190,829)**
Beginning Carryover	**0**	**12596**	**282**	**1220**	**319207**	**5944**	**280607**	**3707**	
Ending Carryover	**0**	**12596**	**1627**	**492**	**319207**	**2244**	**327052**	**5607**	
21 - Parks Total	**725,359**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**680,097**

2025 ACCOMPLISHMENT REPORTS OBJECTIVE AND POLICY

OBJECTIVE: To provide a quantifiable means of evaluating progress on both short and long term goals on the Wood County Forest.

POLICY: Annual accomplishments will be recorded as a historical record, to assist in future planning, and to provide documentation for both the County, and the County Forest system. This information is invaluable in addressing public, County Board, and other legislative inquiries on the operation of the Forest as well as assessing progress on goals.

2030 ANNUAL ACCOMPLISHMENT REPORTS

A copy of an annual accomplishment report (a.k.a. Annual Report) shall be prepared and provided to members of the County Board and to official copyholders of this Plan for inclusion into this chapter.

This report shall include, at a minimum, the following:

1. Timber sale accomplishments including gross and net sale receipts and harvest goals achieved.
2. Timber stand improvements accomplishments.
3. Recreation development and maintenance accomplishments.
4. Wildlife management accomplishments.
5. Fisheries management accomplishments.
6. Other accomplishments.

Insert Annual Reports

2035 PAST ACCOMPLISHMENTS

2035.1 FOREST PRODUCTS

2035.1.1 Timber

Historical record of timber sale activity by year. Data taken from WDNR Report 28A.

YEAR	NUMBER OF SALES	MBF SAWTIMBER	CORDS PULPWOOD	ACRES CUT	TOTAL CORD EQUIVALENT	VALUE OF SALES
1935	0	0	0	0	0	$0
1936	0	0	0	0	0	$0
1937	0	0	0	0	0	$0
1938	0	0	0	0	0	$0
1939	0	0	0	0	0	$0
1940	0	0	0	0	0	$0
1941	0	0	0	0	0	$0
1942	0	0	0	0	0	$0
1943	0	0	0	0	0	$0
1944	0	0	0	0	0	$0
1945	0	0	0	0	0	$0
1946	0	0	0	0	0	$0
1947	0	0	0	0	0	$0
1948	1	0	30	2	30	$15
1949	2	0	42	3	42	$43
1950	1	0	8	1	8	$12
1951	0	0	0	0	0	$0
1952	0	0	0	0	0	$0
1953	0	0	0	0	0	$0
1954	9	3	36	64	43	$2,706
1955	11	123	1,785	169	2,057	$4,912
1956	12	0	806	219	806	$2,042
1957	8	57	461	115	588	$2,214
1958	11	0	1,343	311	1,343	$2,819
1959	18	71	473	214	630	$2,673
1960	1	0	206	32	206	$464
1961	3	0	195	37	195	$429
1962	2	0	1,376	199	1,376	$2,506
1963	7	465	277	329	1,303	$8,128
1964	5	53	1,720	203	1,837	$4,663
1965	4	416	85	416	1,158	$0
1966	4	0	406	54	406	$1,116
1967	4	0	969	166	969	$1,934
1968	7	0	2,084	274	2,084	$10,961
1969	5	0	566	47	566	$3,681
1970	5	230	803	180	1,258	$13,071
1971	7	0	963	128	963	$3,317
1972	11	0	1,769	186	1,769	$7,686
1973	17	0	3,524	377	3,524	$9,745
1974	23	0	8,209	540	8,209	$60,286
1975	14	0	2,935	258	2,935	$11,573
1976	10	0	3,878	258	3,878	$33,077
1977	16	0	4,196	391	4,196	$31,145
1978	8	0	1,925	142	1,925	$15,271
1979	8	0	5,023	200	5,023	$45,982
1980	24	0	9,072	709	9,072	$97,772
1981	9	27	2,165	208	2,178	$14,229
1982	9	0	2,616	241	2,616	$26,360
1983	6	0	2,075	169	2,075	$27,587
1984	3	0	1,054	40	1,054	$2,194
1985	10	0	4,839	357	4,839	$40,829
1986	9	0	4,359	357	4,359	$56,381
1987	4	7.12	2,031	66	2,046	$10,057
1988	2	84.39	343	34	343	$23,179
1989	15	15.08	8,261	467	8,292	$31,029
1990	13	27	5,915	317	5,974	$48,863
1991	21	26.12	8,828	536	8,886	$41,263
1992	16	0	10,209	945	10,300	$39,204
1993	11	221.12	8,714	634	9,209	$75,860
1994	20	0	12,416	890	12,636	$107,432
1995	14	22.74	9,638	647	9,688	$99,733
1996	14	123.35	13,239	1,153	13,595	$92,007
1997	9	16.56	9,052	672	9,093	$96,726
1998	18	124.64	11,510	948	11,787	$128,497
1999	9	64.85	5,941	415	6,263	$109,814
2000	0	0	0	0	0	$0
2001	15	54.3	11,941	843	12,064	$274,407
2002	15	145.08	14,795	1,159	15,144	$335,307
2003	9	131.75	9,649	664	9,985	$241,578
2004	5	11.13	3,395	229	3,419	$63,878
2005	30	994.05	23,411	1,815	25,790	$763,708
2006	13	357.21	8,841	509	9,728	$253,936
2007	9	175.07	4,728	348	7,702	$126,311
2008	25	574.21	16,462	1,075	18,065	$616,410
2009	11	326.72	9,647	641	10,525	$346,829
2010	14	289.7	10,193	692	10,843	$501,039
2011	4	100.52	2,226	191	2,447	$85,801
2012	13	241.15	11,057	794	11,588	$486,126
2013	22	813.58	21,095	1,263	22,887	$852,773
2014	7	378.53	8,320	509	9,152	$296,827
2015	9	223.73	12,639	775	13,131	$639,902
2016	11	361	10,098	541	10,892	$490,074
2017	0	0	0	0	0	$0
2018	18	399.33	14,249	732	15,128	$742,410
2019	7	243.71	7,712	367	8,248	$433,421
2020	7	171.78	7,154	376	7,532	$245,221
TOTAL	714	8170.52	385,982	28,843	407,902	$9,247,445

2035.1.2 Non-timber forest products

Wood County has issued very few non-timber forest products over time. The only records available include two permits issued during the last planning period (2006-2020) for collecting maple and birch saplings to be used for artwork. Additionally, there have been a few special permits written for Christmas trees during the past planning period.

2035.2 Reforestation

Year	Planting acres	Seeding acres	Year	Planting acres	Seeding acres
1935	741	0	**1978**	10	0
1936	0	0	**1979**	43	0
1937	285	0	**1980**	80	0
1938	0	0	**1981**	48	0
1939	353	0	**1982**	67	0
1940	740	0	**1983**	87	0
1941	572	0	**1984**	85	0
1942	158	0	**1985**	15	0
1943	40	0	**1986**	29	0
1944	114	0	**1987**	54	0
1945	69	0	**1988**	8	0
1946	121	0	**1989**	0	0
1947	141	0	**1990**	33	0
1948	115	0	**1991**	63	0
1949	175	0	**1992**	13	0
1950	74	0	**1993**	41	0
1951	91	0	**1994**	0	0
1952	110	44	**1995**	0	0
1953	145	0	**1996**	45	0
1954	226	0	**1997**	0	0
1955	85	0	**1998**	3	0
1956	131	0	**1999**	0	0
1957	87	0	**2000**	0	0
1958	95	0	**2001**	0	0
1959	100	0	**2002**	0	0
1960	91	0	**2003**	15	0
1961	75	0	**2004**	3	32
1962	46	0	**2005**	3	8
1963	70	0	**2006**	23	0
1964	61	0	**2007**	0	0
1965	0	0	**2008**	29	0
1966	0	0	**2009**	24	0
1967	0	0	**2010**	47	0
1968	40	0	**2011**	26	15
1969	25	0	**2012**	0	0
1970	76	0	**2013**	21	13
1971	0	0	**2014**	112	15
1972	8	0	**2015**	0	12
1973	0	0	**2016**	0	9
1974	10	0	**2017**	90	0
1975	49	0	**2018**	0	0
1976	77	0	**2019**	0	0
1977	12	0	**2020**	0	16

2035.3 Timber Stand Improvement

The following table shows acres of improvement work completed by year. Projects include aspen maintenance (post sale shearing), pine release, white pine pruning, oak release, and non-commercial thinning. Records of the type of practice completed in each year are not available.

Year	Timber Stand Improvement Acres
1942	493
1959	20
1961	40
1962	149
1963	63
1977	10
1978	35
1979	41
1980	89
1981	114
1983	50
1984	34
1985	180
1986	105
1987	94
1988	110
1990	97
1993	40
1996	24
2009	15
2014	20
2019	43

2035.4 Recreational Developments

3240 Recreational Developments

Year	Snowmobile Trail Mileage	ATV Trail Mileage	Hiking Trail Mileage	Skiing Mileage	# of Shooting Ranges	# of Boat Landings	# of Campsites	# of Shelters	# of Toilets (Pit & Flush)	# of Showers	# of Beach Houses	# of Play-grounds	# of Volley-ball Courts	# of Fish Cleaning Stations	# of Accessible Fishing Areas	# of Accessible Hunting Blinds	Mountain Bike Trail Mileage
1948	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	45	-	1	-	1	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1974	30	-	-	-	-	-	28	-	2	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	23	-	1	-	-	-	-	-	-	-	-
1982	-	-	5	5	-	-	-	-	-	-	-	-	2	-	-	-	-
1985	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
1994	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
2008	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
2012	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
2020	-	5	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-

*Note: Tennis courts in Dexter Park were removed and replaced with volleyball courts in 2015.

2035.5 Wildlife Projects

Year	Flowages Developed/ Acres	Roads (Miles)	# of Parking Areas	Jack Pine Seeding (Acres)	Tag Alder & Aspen Shearing (Acres)	Wildlife Seeding (Acres)	Prairie Establishment (Acres)	# of Raptor Surveys	# of Carnivore Surveys
1962	**1/312**	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-
1985	**1/11**	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-
1995	-	**1.4**	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	**1**	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	**2**	-	-	-	-	-	-
2001	-	**0.6**	**1**	-	-	-	-	-	-
2002	-	-	-	-	-	-	**7**	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	**2**	**8**	**50**	-	-	**1**	**1**
2005	-	-	-	-	**23**	**1**	-	**1**	-
2006	-	-	-	-	-	-	-	**1**	-
2007	-	-	-	-	**21**	-	-	**1**	-
2008	-	-	-	-	**17**	-	-	**1**	-
2009	-	-	-	-	**10**	**4**	-	**1**	-
2010	-	-	-	-	-	-	-	**1**	-
2011	-	-	-	**15**	-	-	-	**1**	-
2012	-	-	-		-	-	-	**1**	-
2013	-	-	-	**13**	-	-	-	**1**	-
2014	-	-	-	**7**	-	-	-	**1**	-
2015	-	-	-	**12**	-	-	-	**1**	-
2016	-	-	-	**9**	-	-	-	**1**	-
2017	-	-	**11**	-	-	**3**	-	**1**	-
2018	-	-	**11**	-	-	-	-	**1**	-
2019	-	-	**2**	-	-	-	-	**1**	-
2020	-	-	**5**	**7**	**9**	-	-	**1**	-

2040 MONITORING

2040.1 Forest Types

2040 MONITORING

2040.1 FOREST TYPES

WOOD COUNTY FOREST COMPOSITION

Information taken from previous 15 year plan and DNR Report #207

Forest Type	1977 Acres	1977%	1995 Acres	1995%	2005 Acres	2005%	2020 Acres	2020%	2035 Acres	2035%
Aspen	18,154	51.10%	18,218	49.20%	17,616	46.70%	12,425	33.20%	12,398	33.10%
Balsam Fir	0	0%	0	0%	0	0%	0	0%	3	0%
Bottomland Hardwoods	787	2.20%	952	2.60%	1,155	3.10%	1,237	3.30%	1,225	3.30%
Central Hardwoods	0	0%	32	0.10%	15	0%	302	0.80%	227	0.60%
Fir-Spruce	23	0.10%	53	0.10%	53	0.10%	0	0%	0	0%
Jack Pine	486	1.40%	506	1.40%	309	0.80%	129	0.30%	161	0.40%
Northern Hardwoods	78	0.20%	257	0.70%	290	0.80%	0	0%	41	0.10%
Oak	2,606	7.30%	2,205	6.00%	3,497	9.30%	6,207	16.60%	5,938	15.60%
Red Maple	0	0%	0	0%	296	0.80%	3,014	8.00%	2,746	7.30%
Red pine	3,029	8.50%	2,409	6.50%	2,319	6.20%	1,778	4.70%	1,612	4.30%
Scrub Oak	1,073	3.00%	1,775	4.80%	1,518	4.00%	515	1.40%	409	1.10%
Swamp Hardwoods	0	0%	0	0%	0	0%	13	0%	13	0%
Tamarack	33	0.10%	120	0.30%	255	0.70%	231	0.60%	231	0.60%
White Birch	28	0.10%	118	0.30%	61	0.20%	5	0%	5	0%
White Pine	0	0%	1,469	4.00%	1,684	4.50%	2,723	7.30%	3,604	9.60%
White Spruce	0	0%	0	0%	0	0%	38	0.10%	29	0.10%
Total Forested	**26,297**	**74.00%**	**28,114**	**76.00%**	**29,068**	**77.20%**	**28,617**	**76.40%**	**28,642**	**76.50%**
Campground	0	0%	0	0%	0	0%	52	0.10%	52	0.10%
Emergent Vegetation	0	0%	179	0.50%	60	0.20%	57	0.20%	57	0.20%
Herbaceous Vegetation	0	0%	17	0.10%	17	0%	19	0.10%	5	0%
Low-Growing Shrubs	26	0.10%	0	0%	0	0%	0	0%	0	0%
Lowland Brush	0	0%	111	0.30%	78	0.20%	101	0.30%	101	0.30%
Lowland Brush – Alder	513	1.40%	778	2.10%	861	2.30%	901	2.40%	901	2.40%
Lowland Brush – Red Dogwood	85	0.20%	85	0.20%	131	0.30%	109	0.30%	109	0.30%
Lowland Brush – Willow	3,265	9.20%	2,001	5.40%	1,858	4.90%	1,765	4.70%	1,765	4.70%
Lowland Grass	0	0%	4,745	12.80%	4,591	12.20%	4,885	13.00%	4,885	13.10%
Marsh	4,556	12.80%	0	0%	0	0%	0	0%	0	0%
Minor Lake	0	0%	35	0.10%	39	0.10%	48	0.10%	48	0.10%
Minor Stream	0	0%	42	0.10%	265	0.70%	261	0.70%	261	0.70%
Motorized Vehicle Trail	0	0%	0	0%	0	0%	12	0%	12	0%
Muskeg-Bog	0	0%	63	0.20%	56	0.10%	11	0%	11	0%
Parking Area	0	0%	0	0%	0	0%	12	0%	12	0%
Picnic Area	0	0%	0	0%	0	0%	27	0.10%	27	0.10%
R.O.W.	0	0%	199	0.50%	153	0.40%	117	0.30%	117	0.30%
Rock Outcrops	0	0%	8	0%	7	0%	6	0%	6	0%
True Grasses	792	2.20%	0	0%	0	0%	120	0.30%	115	0.30%
Upland Brush	21	0.10%	25	0.10%	7	0%	19	0.10%	13	0%
Upland Grass	0	0%	231	0.60%	146	0.40%	45	0.10%	45	0.10%
Water	0	0%	248	0.70%	263	0.70%	263	0.70%	263	0.70%
Misc.	0	0%	115	0.30%	101	0.30%	0	0%	0	0%
Total non-forest	**9,258**	**26.00%**	**8,882**	**24.00%**	**8633**	**22.80%**	**8,830**	**23.60%**	**8,805**	**23.50%**
Total Property	**35,555**	**100.00%**	**36,996**	**100.00%**	**37,701**	**100.00%**	**37,447**	**100.00%**	**37,447**	**100.00%**

The aspen forest type is the major type found on Wood County Forest (currently 33.2% of total property acreage). Aspen acreage declined significantly over the past planning period (2005-2020), dropping from 17,616 to 12,425 acres (-29%). While the past plan projected aspen acreage to stay relatively stable, the decline is likely due to over mature aspen stands converting to other species such as red maple. In addition, recon data has been improved over time with increased efforts at cleaning up backlogged and outdated recon. A secondary reason for the drop in aspen percentage is due to land trades resulting in a change in cover type acreages. Recon data currently shows 1375 acres of mature aspen over 60 years old. These stands are most likely going to convert/have converted to other species. Although the table above suggests Aspen is expected to remain somewhat steady over the current planning period, it is probably more realistic to expect some further decrease in aspen acreage due to natural succession to other species, and as recon updates occur.

Other expected changes to note include a decrease in the oak and red pine types with a more substantial increase in the white pine type. Much of the increase in white pine acreage can be attributed to natural succession from the scrub oak, over mature aspen, and mature red pine stands. Red pine acreage is likely to decrease significantly over time. 911 acres (51%) of our red pine will reach maturity over the current planning period. Most of our red pine stands occur as plantations, and as these plantations grow and mature, other species become established in the understory. Furthermore, red pine does not naturally regenerate very well. Frequently the choice is made not to replant red pine, and accept what is naturally occurring. Simply put, we are not replanting our red pine at the rate at which it is maturing. However, it is likely that we will continue to plant red pine to some degree, depending on many site factors including soils, water table, access, competing species, etc.

Additionally, it should be noted that recent weather trends resulting in shorter periods of frozen ground, are likely to affect our ability to manage our forest the way we would like according to our harvest schedule and plans. Accessing much of our timber depends on frozen ground conditions. If this weather trend continues, it will likely impact forest management decisions, regeneration of certain species, changes in age class distribution, harvest operations, as well as revenues. Lastly, recent negative trends in local pulpwood markets may also provide challenges in future management of the forest and could have long-term consequences for forest management locally, as well as and on a statewide level.

2040.2 Harvesting

ASPEN (Acres)		
Year	*Need*	*Established*
2006	2797	85
2007	365	62
2008	300	159
2009	115	461
2010	431	183
2011	451	182
2012	180	124
2013	15	77
2014	282	15
2015	259	31
2016	335	104
2017	329	95
2018	324	43
2019	310	67
2020	314	122
Totals (15 yrs.)	**6,807**	**1,810**
Annual Average	**455**	**121**

OAK (Acres)		
Year	*Need*	*Established*
2006	950	152
2007	77	150
2008	147	329
2009	136	70
2010	83	387
2011	183	341
2012	272	407
2013	265	342
2014	100	205
2015	74	239
2016	159	309
2017	150	0
2018	142	215
2019	146	41
2020	145	47
Totals (15 yrs.)	**3,029**	**3,234**
Annual Average	**202**	**216**

RED PINE (Acres)		
Year	*Need*	*Established*
2006	522	141
2007	109	261
2008	143	173
2009	148	104
2010	234	141
2011	320	333
2012	63	195
2013	88	91
2014	34	87
2015	29	171
2016	125	228
2017	103	0
2018	97	89
2019	92	39
2020	91	59
Totals (15 yrs.)	**2,198**	**2,112**
Annual Average	**147**	**141**

WHITE PINE (Acres)		
Year	*Need*	*Established*
2006	254	56
2007	90	48
2008	131	207
2009	40	132
2010	18	0
2011	169	15
2012	182	32
2013	95	116
2014	52	9
2015	0	27
2016	162	73
2017	128	42
2018	116	81
2019	115	35
2020	114	0
Totals (15 yrs.)	**1,666**	**873**
Annual Average	**111**	**58**

2040.2 Harvesting (Continued)

RED MAPLE (Acres)		
Year	*Need*	*Established*
2006	133	0
2007	0	102
2008	0	45
2009	0	0
2010	0	24
2011	0	106
2012	43	36
2013	114	20
2014	0	79
2015	0	3
2016	37	60
2017	42	0
2018	47	0
2019	54	71
2020	59	0
Totals (15 yrs.)	**529**	**546**
Annual Average	**35**	**36**
*Note: Also includes Northern Hardwood acreage		

BOTTOM LAND HARDWOODS (Acres)		
Year	*Need*	*Established*
2006	435	0
2007	0	40
2008	0	28
2009	0	9
2010	22	0
2011	27	0
2012	0	25
2013	0	0
2014	0	0
2015	0	0
2016	45	0
2017	49	0
2018	49	0
2019	49	0
2020	49	0
Totals (15 yrs.)	**725**	**93**
Annual Average	**48**	**6**

ALL OTHER SPECIES (Acres)		
Year	*Need*	*Established*
2006	73	0
2007	77	4
2008	72	10
2009	65	21
2010	59	0
2011	60	33
2012	61	8
2013	49	36
2014	34	87
2015	32	20
2016	47	8
2017	33	0
2018	29	136
2019	0	40
2020	34	15
Totals (15 yrs.)	**725**	**418**
Annual Average	**48**	**28**
*Note: Includes White Birch, Jack Pine, Scrub Oak, Fir-Spruce, White Spruce, Central Hardwoods, and Tamarack.		

2040.2 Harvesting (continued)

ALL SALES (Acres)						
Year	**Need (from 2006-2020 Plan)**	**Established**	**Recon in lieu of Sale**	**Total Sale activity**	**Sold**	**Closed**
2006	5,255	434	0	434	363	689
2007	641	667	0	667	758	349
2008	737	951	85	1,036	959	1,131
2009	439	797	150	947	447	701
2010	824	735	261	996	1,022	682
2011	1,150	1,010	329	1,339	549	276
2012	740	827	38	865	977	842
2013	577	682	503	1,185	811	1,382
2014	468	482	40	522	658	509
2015	362	491	113	604	448	775
2016	910	782	554	1,336	748	542
2017	834	137	364	501	0	0
2018	804	564	168	732	859	1,055
2019	806	253	251	504	253	367
2020	806	243	271	514	177	376
Totals	**15,353**	**9,055**	**3,127**	**12,182**	**9,029**	**9,676**
Annual Average	**1,024**	**604**	**208**	**812**	**602**	**645**

2040.3 Flora/Fauna

Oak wilt continues to spread, particularly in the Port Edwards block, and is a significant management issue for Wood County. More timber sale emphasis is being placed on salvaging oak stands infected with wilt. Reforestation efforts on oak stands may also increase depending on the extent of natural regeneration on these sites. Oak wilt sites that have little desirable advance regeneration are considered candidates for conversion to other species, particularly Jack Pine. Initial efforts at direct seeding jack pine have shown varied results and will be continued in the future.

Invasive species are beginning to show on Wood County. Heaviest infestations of Buckthorn have been found in the Seneca Block. Buckthorn is also prevalent in portions of the Port Edwards, Dexter, and Richfield blocks. This species will be monitored and steps may be taken to control its spread. Gypsy moth is established in Wood County and can be found in low numbers on the forest to date. Outbreaks are likely to occur at some time; Wood County will continue to work towards maintaining a healthy forest to minimize damage from this insect. Wood County has also completed several Goshawk and Red Shouldered Hawk surveys. RSH are using several areas of the forest. County and DNR forest managers continue to collect data, monitor, and learn how to manage the forest with consideration for these birds of special interest in Wisconsin.

2040.4 Recreational Use

The main recreational demand on the Wood County Forest continues to center around wildlife game species, firewood cutting, and berry picking. ATV use and demand for trails has grown since the last planning period. The committee has taken the position that broad-scale; off road

ATV use will not be allowed. However, ATV use on designated trails, located in areas reasonably able to support ATV traffic, is desirable and should be accommodated. Wood County has addressed this issue by directing three Wood County Departments (Parks & Forestry, Highway, Planning & Zoning) to begin developing and enhance trails and road routes throughout the county. Recently projects have been accomplished on Wood County Forest including signing, improving, maintaining, and gaining DNR funding for 5.1 miles of new trail. These new miles are located on forest roads that were previously established and well suited to ATV traffic. A project to improve parking and trailhead at the ATV Intensive Use Area was also completed this past year. Furthermore, the county has also secured DNR grant funding of $407,000 for construction of 4 miles of new trail (including bridge) in the Hiles Block. Once this project is completed, forestry staff will continue to look for opportunities to add more miles of State-funded ATV trails where ground conditions may be suitable. Demand for other recreational opportunities such as mountain/fat-tire biking have also grown over the past planning period and is expected to continue into the next planning period. Requests for additional recreational trails should be brought to the Committee and will be evaluated to determine their compatibility with other uses of the forest, and the capability of the sites to support their use.

2040.5 High Conservation Value Forest Areas

Wood County Forest has four areas identified and recognized as high conservation value forests or wetland ecological reference areas. These sites are designated State Natural Areas and include: Red Oak Bottoms, a forested site along the Hemlock Creek near Dexterville, WI; Owl Creek Fen Savanna, a large peatland area near Dexterville; Hiles Wetlands, a wet meadow complex in the western portion of the county forest; and Skunk Creek Woods, a mature central pine-oak forest also in the western portion of the county forest. These areas will be managed and monitored in cooperation with the DNR Bureau of Endangered Resources as budgets allow. Additional site-specific information provided by Endangered Resources staff is included in this chapter.

SITE SURVEY SUMMARY

SITE Name: Lyman Hay Skunk Meadows

ad Name(s):

Quad Code(s): 3 quads 10/10 locator:

State: WI County(ies): Wood

Town(s):

Township/Range/Section: see attached topos

Field Quad Margin #:

Source of lead:
Air Photos

Site Visit Chronology

Date: Time: to Source Code:
Surveyor(s):

Date: Time: to Source Code:
Surveyor(s):

Date: Time: to Source Code:
Surveyor(s):

Date: Time: to Source Code:
Surveyor(s):

Date: Time: to Source Code:
Surveyor(s):

Other individuals knowledgeable about site and/or EO's: ?

Current use of site: Wood County Forest - Hunting

Tract ownership or managed area name (names, addresses, phone #). Continue on last page for others.
Wood County

INDEX

Under "Element Name", list all heritage-listed species/communities sought, found or reported from site. Under "Code on Base Map", indicate a simple code number or letter to be used in identifying element locations on the base map. Indicate occurrence numbers, if known. Lastly, indicate whether the element was found (Y,N,N/A) on each particular date, whether the EOR was transcribed or updated and whether a return visit is needed.

			Date: Jan 31, 2005										Revisit needed
Element Name	Code on Base Map	Occ. #	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	When?
Central Poorfen			Y										
Tamarack (Peat) Swamp			Y										
No. Mesic Forest			Y										
No Sedge Meadow			Y										
Meadow (Blue Joint)			Y										

SITE DESCRIPTION /DISCUSSION

(use additional pages as necessary)

Written description – DESCRIBE the site in the space below. Try to convey a mental image of the site's features (including vegetation, significant species, aquatic features, notable landforms, natural disturbances, scenic qualities, natural hazards, etc.):

Five units comprised of central poor fen, tamarack poor fen, sedge meadow (portions dominated by blue joint) In combination, representative of peatlands in the northern part of the ecological landscape. Wet meadow areas contain abundant blue joint, manna grass, and cordgrass. Numerous forbs are mixed in with the grasses

Evidence of disturbance – DESCRIBE any unnatural on-site disturbances (e.g., livestock grazing, structures, past logging, mining, plantations/orchards, exotic flora, etc.).

Peat mossing and water level alterations affected portions of the site. The most heavily disturbed parts were excluded.

Surrounding land use – DESCRIBE physical structures and land use practices in the surrounding area (e.g., residential and commercial buildings; agricultural, recreational, residential, and commercial uses):

County forest land managed for timber, recreation and game.

Threats to site/Management needs – DISCUSS on-site and off-site threats to site and management implications; if applicable, discuss why sought species/communities may no longer exist here:

Reopening mossing activities could be detrimental to several rare species

Department of Natural Resources
Scientific Areas Section
Box 7921 Madison, Wis. 53707

Lyman Hoy Skunk Meadow
From January -

LEGEND: A - Abundant
C - Common
U - Uncommon
R - Rare

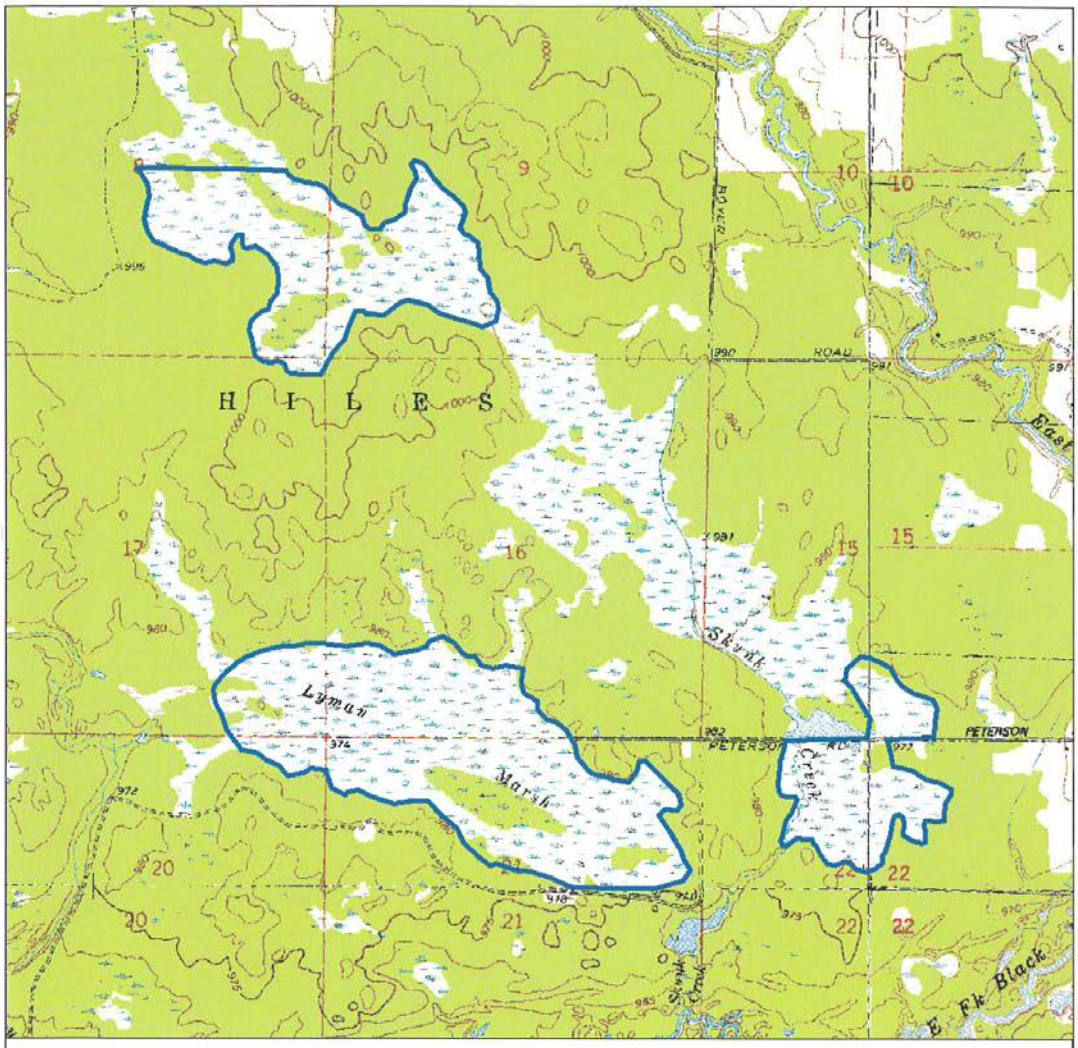
PLANT COMMUNITY SPECIES LIST

SEDGE MEADOW, TALL SHRUB, CATTAIL MARSH

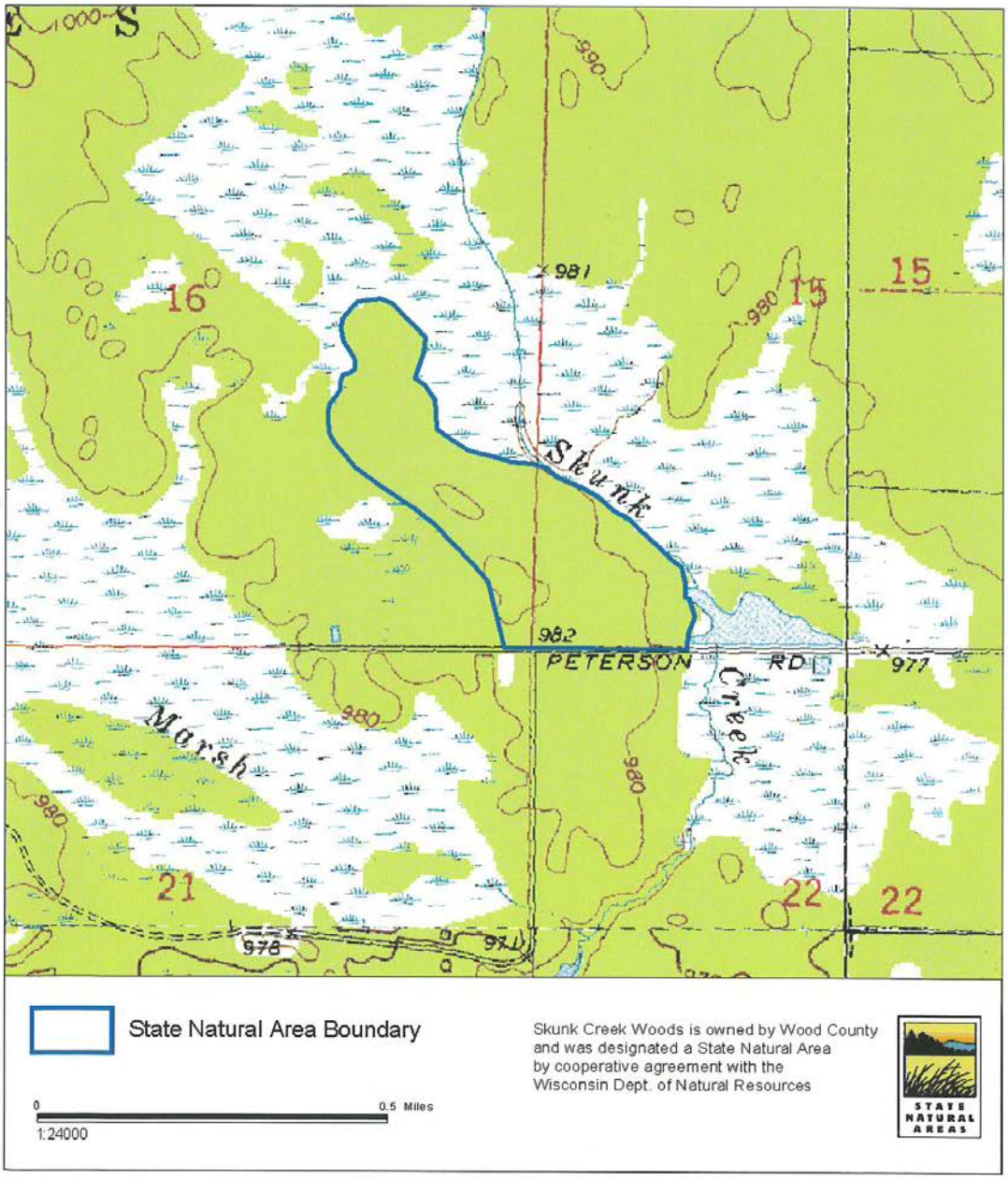
acorus calamus--0049	Dulichium arundinaceum--2535	Osmunda regalis--4783
agrostis alba--0145	Eleocharis smallii--2611	Parthenocissus inserta--4942
alisma plantago-aquatica--0175	Eleocharis sp.--2650	Phalaris arundinacea--5080
anemone canadensis--0361	Epilobium coloratum--2668	Phragmites australis--5050
anemone quinquefolia--0378	Epilobium glandulosum--2671	Pilea fontana--5101
angelica atropurpurea--0391	Epilobium leptophyllum--2677	Poa palustris--5185
apios americana--0436	Equisetum arvense--2695	Polygonum amphibium--5263
apocynum cannabinum--0451	Equisetum fluviatile--2701	Polygonum arifolium--5266
asclepias incarnata--0643	Equisetum sylvaticum--2725	Polygonum coccineum--5281
aster junciformis--0721	Erigeron philadelphicus--2791	Polygonum hydropiperoides--5296
aster lucidulus--0733	Eriophorum angustifolium--2809	Polygonum punctatum--5311
aster novae-angliae--0739	Eriophorum sp.--2803	Polygonum sagittatum--5317
aster praealtus--0751	Eupatorium maculatum--2869	Potentilla palustris--5476
aster puniceus--0760	Eupatorium perfoliatum--2872	Prosarpinaca palustris--5518
aster simplex--0775	Floerkea proserpinacoides--2986	Ranunculus flabellaris--5701
aster umbellatus--0778	Galium asprellum--3046	Rosa palustris--5931
bidens cernua--0916	Galium boreale--3049	Pycnanthemum virginianum--5550
bidens coronata--0925	Galium labradoricum--3058	Rubus pubescens--5999
boehmeria cylindrica--0943	Galium obtusum--3067	Rumex obtusifolius--6058
bromus ciliatus--1027	Galium tinctorium--3073	Rumex orbiculatus--6059
calamagrostis canadensis--1096	Galium trifidum--3076	Rumex verticillatus--6065
caltha palustris--1147	Gentiana andrewsii--3112	Sagittaria latifolia--6088
campanula aparinoides--1168	Gentiana rubricaulis--3133	Saxifraga pensylvanica--6235
cardamine bulbosa--1198	Geum aleppicum--3220	Scirpus acutus--6253
carex alopecoidea--1246	Geum laciniatum--3228	Scirpus americanus--6256
carex aquatilis--1261	Glyceria borealis--3253	Scirpus atrovirens--6259
carex atherodes--1276	Glyceria canadensis--3256	Scirpus cyperinus--6268
carex bebbii--1285	Glyceria grandis--3259	Scirpus fluviatilis6277
carex buxbaumii--1303	Glyceria septentrionalis--3265	Scirpus validus--6304
carex comosa--1306	Glyceria striata--3268	Scutellaria epilobiifolia--6337
carex cephalantha--1318	Habenaria psycodes--3370	Scutellaria lateriflora--6340
carex crinita--1333	Helenium autumnale--3394	Sium suave--6508
carex diandra--1354	Helianthus giganteus--3430	Solanum dulcamara--6547
carex emoryi--1378	Helianthus grosseserratus--3433	Solidago canadensis--6568
carex granularis--1393	Helianthus tuberosus--3457	Solidago gigantea--6574
carex haydenii--1423	Helopsis helianthoides--3460	Solidago graminifolia--6577
carex hystericina--1435	Hierochloe odorata--3550	Solidago patula--6578
carex interior--1450	Humulus lupulus--3577	Solidago riddellii--6601
carex lacustris--1453	Hydrocotyle americana--3586	Solidago uliginosa--6619
carex lanuginosa--1462	Hypericum pyramidatum--3631	Sparganium chlorocarpum--6661
carex lasiocarpa--1471	Impatiens capensis--3655	Sparganium eurycarpum--6667
carex leptalea--1474	Iris versicolor--3682	Spartina pectinata--6676
carex pellita--1489	Iris virginica--3685	Spirodella polyrhiza--6730
carex prairea--1573	Juncus effusus--3748	Stachys hispida--6756
carex retrorsa--1585	Juncus sp.--3718	Stachys palustris--6757
carex rostrata--1594	Lathyrus palustris--3883	Stellaria longifolia--6781
carex sartwellii--1600	Leersia oryzoides--3931	Symplocarpus foetidus--6841
carex scoparia--1609	Lemna minor--3937	Teucrium canadense--6871
carex stipata--1630	Lemna trisulca--3943	Thalictrum dasycarpum--6883
carex stricta--1636	Lilium michiganense--4036	Thalictrum revolutum--6889
carex tribuloides--1660	Ludwigia palustris--4207	Thelypteris palustris--6907
carex trichocarpa--1663	Lycopus americanus--4273	Triadenum fraseri--6973
carex vesicaria--1681	Lycopus uniflorus--4294	Typha angustifolia--7075
carex vulpinoidea--1690	Lysimachia ciliata--4306	Typha latifolia--7078
carex sp.--1228	Lysimachia lanceolata--4315	Urtica procera--7102
melone glabra--1822	Lysimachia terrestris--4327	Utricularia intermedia--7120
chrysosplenium americanum--1888	Lysimachia thyrsiflora--4330	Utricularia minor--7123
cicuta bulbifera--1897	Lythrum alatum--4336	Utricularia vulgaris--7132
cicuta maculata--1900	Mentha arvensis--4441	Verbena hastata--7198
circium muticum--1936	Mimulus ringens--4455	Vernonia fasciculata--7219
clematis virginiana--1963	Muhlenbergia glomerata--4534	Veronica sp.--7222
convolvulus sepium--2014	Muhlenbergia mexicana--4537	Veronicastrum virginicum--7276
cuscuta sp.--2162	Nasturtium officinale--4633	Viola cucullata--7363
cyperus sp.--2228	Oenothera sensibilis--4711	Vitis riparia--7441
Cystopteris fragilis--2482		Zizania aquatica--7507

(over)

Hiles Wetlands
State Natural Area
Wood County
T22N-R2E, Sec. 8, 9, 15-17, 20-22
561 acres



Skunk Creek Woods
State Natural Area
Wood County
T22N-R2E, Sec. 15, 16
66 acres



RED OAK BOTTOMS

This is an analysis of a site named the Red Oak Bottoms located on Wood County Forest land along Hemlock Creek in southern Wood County. The site appears unusual in understory composition and it contains a high proportion of red oak (*Quercus rubra*) in the canopy. A comparison of plant species composition was completed to assess this perceived appearance.

The inventoried plant species composition was compared to a well developed floodplain forest found along the Yellow River in northern Juneau County. Another comparison was made between the composition of these sites and the composite floodplain ordination of John Curtis found in The Vegetation of Wisconsin.

In Curtis' work, he assigned modality labels to species indicating the plant community in which the species is found most frequently. An analysis of these plant modalities can give an indication of how representative a plant community is. It can also indicate how different stands of plant communities are from each other. The following table illustrates the composite modality of the species found on both sites. The total plant species for Red Oak bottoms was 72 species and Yellow River Bottoms had 76 species. They are nearly equal in inventoried plant species richness, although, the lists were not developed with comparison in mind. so standard methods were not used..

Community	Red Oak Bottoms	Yellow River
Floodplain Forest	22 species (30.5%)	23 species (30%)
So. Dry-mesic Forest	9 (12.5%)	13 (18%)
So. Mesic Forest	5 (7%)	4 (5.3%)
No. Dry-mesic Forest	6 (8.3%)	2 (2.5%)
N. Wet-mesic Forest	6 (8.3%)	3 (4%)
Boreal Forest	6 (8.3%)	3 (4%)
Alder Thicket	2 (3%)	4 (5.3%)
So. Dry Forest	3 (4%)	4 (5.3%)
No. Sedge Meadow	1 (1.3%)	4 (5.3%)
Fen	2 (3%)	3 (4%)
Wet Prairie	1 (1.3%)	1 (1.3%)
Wet-mesic Prairie	2 (2.7%)	2 (2.5%)
Bracken Grassland	1 (1.3%)	1 (1.3%)
Emergent Aquatics	1 (1.3%)	2 (2.5%)
So. Sedge Meadow	1 (1.3%)	1 (1.3%)
No. Dry Forest	0	2 (2.5%)
Oak Opening	2 (2.7%)	2 (2.5%)
Cedar Glade	0	1 (1.3%)
Lake Dune	0	1 (1.3%)
Shaded Cliff	1 (1.3%)	0
No. Mesic Forest	1 (1.3%)	0
Total 21 Communities	72 (99.4%)	76 (100.2%)

The comparison of the natural community modalities indicates both stands are strongly dominated by floodplain forest species. They are nearly equal in floodplain species representation and both should be considered floodplain forest plant communities. The species secondary with modalities in communities other than floodplain forest are much different. Red Oak Bottoms has a distinctive northern flavor to it with a good representation of northern dry-mesic, northern wet-mesic, and boreal forest species present. Yellow River Bottoms has a significant component of southern dry-mesic forest species and lower percentages with more even distribution of modality from other communities.

When comparing both sites against the composite list of the 39 characteristic floodplain forest plant species (Curtis 1959), Red Oak Bottoms had 59% in common and Yellow River Bottoms had 61.5% in common. This again indicates the strong match of the floodplain elements from both sites. There were 10 species from Curtis (25.6%) that were not found on either site. Both stands are dominated by floodplain forest species, but they show variability in composition.

To further investigate this variability, the differences between plant communities were compared. Focusing on the floodplain forest modals, a difference of 15 species was found. Seven species of floodplain modals were found at Red Oak Bottoms and not Yellow River. Conversely, eight floodplain forest modals were found at Yellow River and not Red Oak Bottoms. By comparing total species composition, a much greater difference was found. Thirty-three species were found at Red Oak Bottoms and not Yellow River, and forty-four species were at Yellow River and not Red Oak Bottoms.

These differences are significant, because they indicate the range of variability within an identified plant community. Yellow River was chosen for comparison because it is close to Red Oak Bottoms, but much more similar to floodplain forest to the south along the Wisconsin River. In a similar comparison with Mazomanie Bottoms Natural Area along the lower Wisconsin River, Yellow River had nearly equal total plant species composition, and very similar modality patterns. Mazomanie Bottoms had 30.5% floodplain modals. The total of southern forest modals is 22%. This is comparable to 28% at Yellow River and 22% at Red Oak Bottoms. The total of northern forest modals is 5%, and this compares to 10% at Yellow River and 26% at Red Oak Bottoms.

In conclusion, all natural communities have ranges of compositional variability. Red Oak Bottoms is definitely a floodplain forest. However, its composition is much different than other floodplain forests in the this part of the state. Red Oak Bottoms exhibits a much different compostional pattern than other floodplain forest. There is a strong secondary component of north species not found in other floodplain forest from southern Wisconsin. It is important to maintain stands demonstrating this variability to sustain ecological traits, provide controls assessing for the long-term sustainability of this part of the variability spectrum.

COMMUNITY SURVEY FORM

Site Name: Red Oak Bottoms　　Date: 94-07-22　　Source Code: F94ERS68WOI

Quad Name(s): Lake Dexter　　Date: ____　　Source Code: ____

Quad Code(s): H4909041　　Date: ____　　Source Code: ____

State: ____ County(ies): Wood　　Date: ____　　Source Code: ____

Field Quad Margin #: ____　　Date: ____　　Source Code: ____

Full extent of EO known and mapped? ___ yes ___ no

Precise location of community mapped on base map? ___ yes ___ no

BIOLOGICAL DESCRIPTION

Element Name: Floodplain Forest　　Element Code: CEFOR024WOcc#006

Included plant communities (name each PC using 1,2 or 3 dominant species):

(1) Acer saccharinum.

(2) ____

(3) ____

(list additional PC's on last page)

For each PC list the canopy dominants (tree-T, shrub-S, herb-H) and % cover.

(1) Name	T S H %cover	(2) Name	T S H %cover	(3) Name	T S H %cover

For each PC list the stratal dominants or codominants (tree-T, shrub-S, herb-H) and % cover.

Name	T S H %cover	Name	T S H %cover	Name	T S H %cover

Were cover values determined ___ visually?, ___ quantitatively?

% bare ground: ____　　Species list generated? ___ yes ___ no

Characteristic species: ____

Exotics: ____

Rare taxa: ____

General description and comments (word picture of the NC):
Forested floodplain of Hemlock Creek is dominated by large-medium size Silver Maple - Green Ash - Swamp White Oak and Red Oak. Among canopy associates were Basswood, Black Ash [?] and River Birch seen. Saplings mostly Green Ash, Yellowbud [?], with an occasional oak. Shrub layer generally sparse, w/ Xanthoxylum americanum, Carpinus caroliniana. Herb layer dense, lush, dominated by Laportea canadensis, Onoclea sensibilis, Lysimachia ciliata, Impatiens biflora, Carex crinita, C. lupulina. Cut-off meanders, oxbows present. Large Red Oak frequent in wet-mesic portions of floodplain. Little anthropogenic disturbance evident with main channel, north of N.O.W. to north boundary and drive. Animals noted w/in mature floodplain forest included Red-shouldered Hawk, Red-headed Woodpecker, Pileated Woodpecker. Bordered on west and east by sedge meadows and shrub swamp.

PHYSICAL DESCRIPTION

Size : ______________ Elevation: __________ ft to __________ ft

Aspect		Slope	Topographic position	Moisture
___ N	___ NE	✓ 0-3%	___ Crest	+ Inundated (Hydric)
___ E	___ NW	___ 3-8%	___ Upper slope	✓ Saturated (Wet-Mesic)
___ S	___ SE	___ 8-15%	___ Mid-slope	___ Moist (Mesic)
___ W	___ SW	___ 15-35%	___ Lower slope	___ Dry-Mesic
✓ Flat		___ 35%-Vertical	✓ Bottom	___ Dry (Xeric)

Cross section of natural community, showing topographic and aquatic features, vegetation structure, and location of various plant communities or species. Include scale and direction.

PHYSICAL DESCRIPTION (continued)

Substrate/soil:

Parent material ______

Soil name(s)/substrate ______

Litter depth(s) ______

Comments ______

CONSERVATION

Owner aware of EO? ___ yes ___ no ___ unknown Owner protecting EO? ___ yes ___ no ___ unknown

Evidence of disturbance: Best patches show little evidence of disturbance; to north and east, forests in various stages of recovery.

Threats to EO: Logging

Conservation/management needs: Special unit designation on county land, possibly conservation agreements or acquisition on private lands.

Data security? ___ Yes √ No Explain: ______

Photographs: (list and describe) interior structure, sloughs

SUMMARY

EO Quality: (ie, How does this occurrence compare with others you have seen? Consider such factors as acreage, maturity, "naturalness," and any unique or special biotic features.)

A-Excellent B-Good C-Marginal D Poor

Comments: Recent cutting east of main channel north of V.V.W.

EO Condition: (ie, in assessing condition, consider man-made (or natural) disturbances which may have had a negative impact on this occurrence. Have exotics invaded? Can the community occurrence recover from past disturbances?)

A-Excellent (circled) B-Good C-Marginal D Poor

Comments: Small but distinctive stand, mature-old growth, rare sp.

EO Viability: (ie, What are the long-term prospects for continued existence of this occurrence at the indicated level of quality?)

A-Excellent B-Good C-Marginal D Poor

Comments: Will need an agreement to protect it from logging.

EO Defensibility: (ie, Can this occurrence be protected from extrinsic human factors?)

A-Excellent B-Good C-Marginal D Poor

Comments: If agreements is signed to preclude logging

EO Rank: (ie, a summary of all factors listed above) A (B) C D

Comments: Small stand is mature floodplain forests shows little evidence of disturbance, has unusual composition, supports specialists. Partly county-owned.

PLANT LIST

List species observed and mark appropriate column(s). For unfamiliar species indicate, for example, "Carex sp.", or "grass sp.". If possible, maintain a separate species list for each plant community.

Species	Dom. tree	Other tree	Dom. sh-v	Other sh-v	Dom. herb	Other herb	Coll. #	Photo
Acer saccharinum								
Fraxinus pennsylvanica								
Quercus bicolor								
Q. rubra								
Tilia americana								
Carya cordiformis								
Laportea canadensis - A								
Onoclea sensibilis - C								
Athyrium Felix-Femina - C								
Toxalis virginiana - C								
Carex crinita								
Leptomachia iliata - C								
Viola pubescens								
Geum canadense								
Aster lateriflorus - C								
Circaea quadrisulcata - C								
Iris								
Parthenocissus								
Elymus								
Circia maculata								
Carpinus caroliniana - C								
Ilex verticillata								
Dryopteris sensibilifolia - C								
Thalictrum dasycarpum								
Impatiens biflora - C								
Lycopus								
Cirsium								
Teucrium								
Boehmeria								
Carex typhina								
Galium Tinctorium								

PLANT LIST

List species observed and mark appropriate column(s). For unfamiliar species indicate, for example, "Carex sp.", or "grass sp.". If possible, maintain a separate species list for each plant community.

Species	Dom. tree	Other tree	Dom. shrv	Other shrv	Dom. herb	Other herb	Coll. #	Photo
Phlox divaricata								
Ulmus americana (Saplings)								
Corylus americana - U								
Carpinus caroliniana								
Prunus virginiana								
Carex lupulina								
Helianthus sp.								
Xanthoxylum americanum - U								
Betula populifolia - R								
Prunus pensylvanica - R								
Fraxinus nigra - R								
Smilax hispida								
S. (acanthata)								
Cuscuta sp.								
Pilea pumila								
Polygonum virginianum								
Lobelia cardinalis								
Aralia nudicaulis								
Carex intumescens								
Galium triflorum								
Ranunculus sp.								
Teucrium virginica								
Rudbeckia laciniata								
Osmunda cinnamomea								
Solidago caesia								
Anemone quinquefolia								
Quercus macrocarpa								
Aster macrophyllus								
Polygonum sp.								
Brachyelytrum erectum (?)								
Spartina pectinata								
Carex lacustris								

ANIMAL LIST

List species observed and mark appropriate column. For unfamiliar species indicate, for example, "warbler sp.", or "Nothopis sp."

Species	Evid. of Presence	Evid. of Breeding	Number
Red-shouldered Hawk			
Red-headed Woodpecker (pr w. brood)			
Red-bellied Woodpecker			
Red-eyed Vireo			
Sandhill Crane			
Great Blue Heron			
Pileated Woodpecker			
Wood Duck			
Downy Woodpecker			
White-breasted Nuthatch			
Hairy Woodpecker			
Eastern Pewee			
Black-capped Chickadee			
Crow			
White-tailed Deer			
Ruby-throated Hummingbird			
Song Sparrow			
Common Yellowthroat			

SITE SURVEY SUMMARY

Name: Red Oak Bottoms

Quad Name(s): Lake Dexter

Quad Code(s): 44094H 10/10 locator: 5/10

State: ____ County(ies): Wood

Town(s):

Township/Range/Section: 22-4E-17 SW¼

Field Quad Margin #: 20 NW¼

Source of lead:

Statewide Natural Area Inventory.

Site Visit Chronology

Date: 94-07-22 Time: ____ to ____ Source Code: E94 EPS69WI

Surveyor(s): Eric Epstein

Date: ____ Time: ____ to ____ Source Code: ____

Surveyor(s):

Date: ____ Time: ____ to ____ Source Code: ____

Surveyor(s):

Date: ____ Time: ____ to ____ Source Code: ____

Surveyor(s):

Date: ____ Time: ____ to ____ Source Code: ____

Surveyor(s):

Other individuals knowledgeable about site and/or EO's:

Current use of site:

Tract ownership or managed area name (names, addresses, phone #). Continue on last page for others.

County } see plat

Private }

INDEX

Under "Element Name", list all heritage-listed species/communities sought, found or reported from site. Under "Code on Base Map", indicate a simple code number or letter to be used in identifying element locations on the base map. Indicate occurrence numbers, if known. Lastly, indicate whether the element was found (Y,N,N/A) on each particular date, whether the EOR was trancribed or updated and whether a return visit is needed.

			Date: 94-07-22										Revisit needed?
Element Name	Code on Base Map	Occ.#	Found?	Transcr/Updt?	Found?	Transcr/Updt?	Found?	Transcr/Updt?	Found?	Transcr/Updt?	Found?	Transcr/Updt?	When?
Floodplain Forest													
Butea lineata													

SITE DESCRIPTION /DISCUSSION

(use additional pages as necessary)

Written description - DESCRIBE the site in the space below. Try to convey a mental image of the site's features (including vegetation, significant species, aquatic features, notable landforms, natural disturbances, scenic qualities, natural hazards, etc.):

Floodplain of Hemlock Creek, a low gradient stream tributary to the Yellow River, contains mature wet-mesic Forest of Silver Maple - Green Ash - Swamp White Oak - Basswood - Red Oak. Common understory spp.: Laportea canadensis, Lysimachia ciliata, Onoclea sensibilis, Circaea quadrisulcata, Impatiens biflora, sedges. Animals noted in Floodplain: Red-shouldered Hawk, Sandhill Crane, Pileated Woodpecker. Floodplain Forest is bordered by sedge meadow, alder thicket.

Evidence of disturbance - DESCRIBE any unnatural on-site disturbances (e.g., livestock grazing, structures, past logging, mining, plantations/orchards, exotic flora, etc.).

Some areas east of main channel have been logged. R.O.W of Green Bay and Western Railroad crosses Floodplain E-W. North of r.o.w. 1/2 mile or more, Floodplain is drier, brushier, may have been grazed and/or selectively logged in distant past.

Surrounding land use - DESCRIBE physical structures and land use practices in the surrounding area (e.g., residential and commercial buildings; agricultural, recreational, residential, and commericial uses):

Major land uses in area are cranberry production, some agriculture.

Threats to site/Management needs - DISCUSS on-site and off-site threats to site and management implications; If applicable, discuss why sought species/communities may no longer exist here.

Uncut stands north of r-o.w., west of main channel are of good to excellent quality, merits State Natural Area status. Ownership of best areas uncertain. Portion of meadow and shrub swamp adjoining Forest should be included in project if possible.

Department of Natural Resources
Scientific Areas Section
Madison, Wisconsin 53707

PLANT COMMUNITY SPECIES LIST — FLOODPLAIN FOREST, LACUSTRINE FOREST
(Including marshy sloughs and muddy banks)

LEGEND — rating of approximate relative frequency

- A Abundant, the dominant vegetation
- C Common, locally abundant or frequently encountered
- U Uncommon, infrequently encountered
- R Rare, very few plants seen

Area Name: Red Oak Bottoms

T. ______ R. ______ County: Wood

Section ______

Acalypha rhomboidea--0010
Acnida altissima--0040
Alisma plantago-aquatica--0175
Allium canadense--0193
Ambrosia trifida--0286
Amorpha fruticosa--0322
Amphicarpa bracteata--0325 √C
Anemone quinquefolia--0376 √U
Apios americana--0436
Arabis laevigata--0481
Arabis shortii--0487
Aralia nudicaulis--0493 √U
Arenaria lateriflora--0511
Arisaema triphyllum--0532
Arisaema dracontium--0535
Artemisia serrata--0619
Asarum canadense--0625
Asclepias incarnata--0643
Aster lateriflorus--0727 √C
Aster lucidulus--0738
Aster ontarionis--0745
Aster puniceus--0760
Aster simplex--0775
Athyrium felix-femina--0805 √C
Bidens cernua--0916
Bidens connata--0922
Bidens coronata--0925
Bidens frondosa--0931
Boehmeria cylindrica--0943 √C
Boltonia asteroides--0946
Brachyelytrum erectum--0991
Bromus latiglumis--1045
Calamagrostis canadensis--1096 √U
Caltha palustris--1147
Campanula americana--1165
Cardamine bulbosa--1198
Carex amphibola--1249
Carex blanda--1291
Carex bromoides--1297
Carex crinita--1354 √C
Carex cristatella--1357
Carex davisii--1366
Carex gracillima--1420
Carex grayi--1429
Carex intumescens--1456 √U
Carex lacustris--1462 √U
Carex lupulina--1507 √U
Carex muskingumensis--1581
Carex normalis--1584
Carex rosea--1591
Carex sparganioides--1618
Carex sprengelii--1621
Carex stipata--1630
Carex tribuloides--1660
Carex tuckermanii--1669
Carex typhina--1672 √C
Carex vulpinoidea--1690
Carex sp.--1228 √
Carex spp.--1231
Cephalanthus occidentalis--1774

Cicuta bulbifera--1897
Cicuta maculata--1900 √U
Cinna arundinacea--1906 √
Cinna latifolia--1909
Circaea quadrisulcata--1918 √C
Claytonia virginica--1957
Clematis virginiana--1963
Cornus amomum--2068
Cornus racemosa--2077
Cornus rugosa--2080
Cornus stolonifera--2083
Crataegus sp.--2110 √U
Cryptotaenia canadensis--2176 √C
√Cuscuta sp.--2182 C. spp.--2185
Cyperus sp.--2224
Cyperus spp.--2227
Dioscorea villosa--2413
Dryopteris intermedia--2494
Dryopteris spinulosa--2509
Echinochloa crusgalli--2533
Echinochloa walteri--2536
Echinocystis lobata--2539
Eleocharis acicularis--2566
Eleocharis sp.--2560 E. spp.--2563
Elymus virginicus--2650 √C
Equisetum arvense--2695
Eragrostis hypnoides--2743
Erigeron annuus--2779
Euonymus atropurpureus--2854
Eupatorium maculatum--2869
Eupatorium perfoliatum--2872
Eupatorium rugosum--2878
Festuca obtusa--2953
Fragaria virginiana--2992
Galium aparine--3043
Galium asprellum--3046
Galium obtusum--3067
Galium trifidum--3076
Galium triflorum--3079 √U
Geum canadense--3228 √C
Glyceria canadensis--3256
Glyceria striata--3268
Habenaria flava--3349
Habenaria psycodes--3370
Helenium autumnale--3394
Helianthus strumosus--3454 √U
Helianthus tuberosus--3457
Hemicarpha micrantha--3472
Hibiscus militaris--3496
Hydrophyllum virginianum--3592
Ilex verticillata--3652 √U
Impatiens capensis--3655 √C
Impatiens pallida--3658
Iris virginica--3685 √C
Laportea canadensis--3853 √A
Leersia lenticularis--3928
Leersia oryzoides--3931
Leersia virginica--3934 √C
Lindernia dubia--4054
Lobelia cardinalis--4185 √U

Ludwigia palustris--4207
Ludwigia polycarpa--4210
Lycopus americanus--4273
Lycopus uniflorus--4294
Lycopus virginicus--4297 √C
Lysimachia ciliata--4306 √C
Lysimachia nummularia--4318
Matteuccia struthiopteris--4393
Menispermum canadense--4432
Mentha arvensis--4441
Mertensia virginica--4456
Mimulus ringens--4465
Muhlenbergia frondosa--4581
Myosotis scorpioides--4570
Nelumbo lutea--4636
Onoclea sensibilis--4711 √C
Osmorhiza claytoni--4765
Osmorhiza longistylis--4768
Parthenocissus quinquefolia--4945 √C
Penthorum sedoides--4999
Phalaris arundinacea--5020
Phlox divaricata--5038 √U
Phyla lanceolata--5059
Physostegia virginiana--5086
Pilea pumila--5104 √C
Polemonium reptans--5215
Polygonatum pubescens--5248 √U
Polygonum amphibium--5263
Polygonum coccineum--5281
Polygonum hydropiper--5293
Polygonum hydropiperoides--5296
Polygonum pensylvanicum--5305
Polygonum punctatum--5311 √U
Polygonum sagittatum--5317
Proserpinaca palustris--5518
Ptelea trifoliata--5566
Ranunculus abortivus--5688
Ranunculus septentrionalis--5734 √U
Rhus radicans--5785 √U
Ribes americanum--5815
Rorippa islandica--5869
Rubus ~~occidentalis~~--5983 sp. √U
Rudbeckia laciniata--6025 √U
Rumex altissimus--6046
Rumex obtusifolius--6058
Rumex orbiculatus--6059
Rumex verticillatus--6064
Sagittaria cuneata--6082
Sagittaria graminea--6085
Sagittaria latifolia--6088
Sagittaria rigida--6091
Salix discolor--6118
Salix interior--6133
Salix sp.--6094
Salix spp.--6097
Sambucus canadensis--6184
Sanicula gregaria--6205
Scirpus cyperinus--6268
Scirpus fluviatilis--6277
Scirpus sp.--6247

(continued on other side)

Additional species:

Prunella vulgaris - C BF
Oxalis sp. - U NWM
[illegible] - U SD
Pteridium aquilinum - U BG
Polygonum biflorum - FL, SC
Osmunda cinnamomea - U NWM
Aster macrophyllus - U (local) BF

Observer: Eric Epstein Date: 7/22/04

Department of Natural Resources
Scientific Areas Section
Madison, Wisconsin 53707

PLANT COMMUNITY SPECIES LIST — FLOODPLAIN FOREST, LACUSTRINE FOREST
(Including marshy sloughs and muddy banks)

LEGEND — rating of approximate relative frequency

- A Abundant, the dominant vegetation
- C Common, locally abundant or frequently encountered
- U Uncommon, infrequently encountered
- R Rare, very few plants seen

Area Name ______
T______ R______ County______
Section______

(continued)

Species	Rating
Scirpus spp.—6250	
Scrophularia lanceolata—6328	
Scrophularia marilandica—6331	
Scutellaria epilobiifolia—6337	
Scutellaria lateriflora—6340	
Senecio aureus—6379	
Sicyos angulatus—6430	
Silphium perfoliatum—6472	
Sium suave—6508	
Smilax ecirrhata—6528	√U
Smilax lasioneura—6532	
Smilax hispida—6538	√C
Solanum dulcamara—6547	
Solidago altissima—6562	
Solidago gigantea—6574	√U
Stachys hispida—6756	
Stachys palustris—6757	
Staphylea trifolia—6763	
Symplocarpus foetidus—6841	
Teucrium canadense—6871	√C
Thalictrum dasycarpum—6883	√U
Thelypteris palustris—6907	√U
Tovara virginiana—6943	√C
Trillium sp.—7021	
Typha latifolia—7078	
Urtica procera—7102	
Uvularia sessilifolia—7138	√U
Verbena hastata—7198	
Verbena urticifolia—7210	
Viburnum lentago—7297	
Viola conspersa—7360	
Viola cucullata—7363	
Viola papilionacea—7380	
Viola pubescens—7406	√C
√Viola sp.—7342 V. spp.—7345	
Vitis riparia—7441	
Xanthoxylum americanum—7480	√U
Zizia aurea—7513	

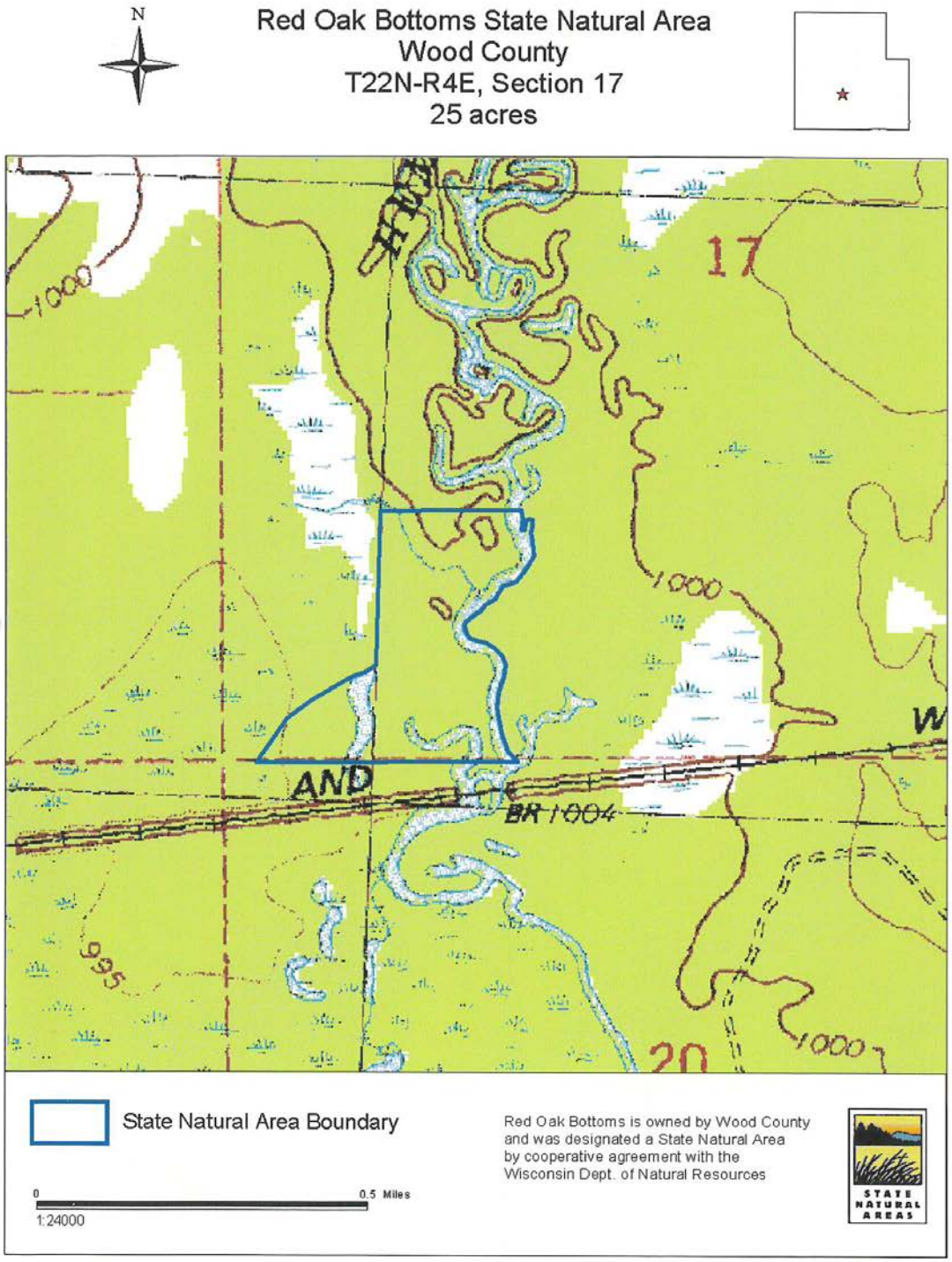
TREES

Species	Rating
Acer negundo—0013	
Acer rubrum—0022	√U
Acer saccharinum—0025	√A
Betula alleghaniensis—0886	
Betula nigra—0895	
Carya cordiformis—1705	√U
Carya ovata—1708	
Celtis occidentalis—1750	
Fagus grandifolia—2933	
Fraxinus americana—3001	
Fraxinus nigra—3004	√U
Fraxinus pennsylvanica (red)—3007	
Fraxinus pennsylvanica (green)—3010	√C
Gleditsia triacanthos—3244	
Gymnocladus dioica—3825	
Juglans cinerea—3712	
Morus rubra—4516	
Ostrya virginiana—4789	
Platanus occidentalis—5158	
Populus deltoides—5356	
Prunus serotina—5551	
Quercus alba—5650	√R
Quercus bicolor—5653	√A
Quercus borealis—5656	√A
Quercus macrocarpa—5662	√R
Quercus velutina—5674	
Salix nigra—6139	
Tilia americana—6926	√C
Ulmus americana—7087	√ Sapl. U
Ulmus rubra—7093	
Ulmus thomasi—7096	

Additional species:

Betula papyrifera - U NDM
o Carpinus caroliniana - C BF
o Spartina pectinata - U (calyptostegia) PW
o Carpinus caroliniana
o Galium lance

Observer ______ Date ______


N
Red Oak Bottoms State Natural Area
Wood County
T22N-R4E, Section 17
25 acres
17
1000
AND
BR 1004
995
20
State Natural Area Boundary
0
0.5 Miles
1:24000
Red Oak Bottoms is owned by Wood County and was designated a State Natural Area by cooperative agreement with the Wisconsin Dept. of Natural Resources
STATE NATURAL AREAS

SITE SURVEY SUMMARY

Site Name: Owl Creek Fen Savanna

Lead Name(s):

Quad Code(s): _____ 10/10 locator: _____

State: WI County(ies): Wood

Town(s):

Township/Range/Section:

Field Quad Margin #:

Source of lead: Air Photo

Site Visit Chronology

Date: Feb 6, 2005 Time: 900 to 2000 Source Code:

Surveyor(s): Randy Hoffman

Date: _____ Time: ____ to ____ Source Code:

Surveyor(s):

Date: _____ Time: ____ to ____ Source Code:

Surveyor(s):

Date: _____ Time: ____ to ____ Source Code:

Surveyor(s):

Date: _____ Time: ____ to ____ Source Code:

Surveyor(s):

Other individuals knowledgeable about site and/or EO's: ?

Current use of site: Deer Hunting

Tract ownership or managed area name (names, addresses, phone #). Continue on last page for others.

Wood County

INDEX

Under "Element Name", list all heritage-listed species/communities sought, found or reported from site. Under "Code on Base Map", indicate a simple code number or letter to be used in identifying element locations on the base map. Indicate occurrence numbers, if known. Lastly, indicate whether the element was found (Y,N,N/A) on each particular date, whether the EOR was transcribed or updated and whether a return visit is needed.

Element Name	Code on Base Map	Occ.#	Date: Feb 6, 2005 Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Found?	Transcr/ Updt?	Revisit needed When?
Central Poor Fen			Y										
Alder Thicket			Y										
Aapen Wet Savanna?			Y										

SITE DESCRIPTION /DISCUSSION

(use additional pages as necessary)

Written description - DESCRIBE the site in the space below. Try to convey a mental image of the site's features (including vegetation, significant species, aquatic features, notable landforms, natural disturbances, scenic qualities, natural hazards, etc.):

A large peatland of approximately 900 acres containing scrub, poor fen, alder thickets, upland "islands" of pine and oak. Dominate feature is a grass dominated wet meadow with scattered open grown aspen. Project bird use should harbor several species of great conservation needs.

Evidence of disturbance - DESCRIBE any unnatural on-site disturbances (e.g., livestock grazing, structures, pest, logging, mining, plantations/orchards, exotic flora, etc.).

ATV Tracks to permanent deer hunting stands. Old snow mobile trail. - Two very old hand dug noticeable ditches

Surrounding land use - DESCRIBE physical structures and land use practices in the surrounding area (e.g., residential and commercial buildings; agricultural, recreational, residential, and commercial uses):

Wood County - production forest

Threats to site/Management needs - DISCUSS on-site and off-site threats to site and management implications; if applicable, discuss why sought species/communities may no longer exist here.

Introduction of exotic species most likely brought in on the tires or under carriage of ATV's is the biggest threat. Sale of the land for commercial agricultural purposes would ruin the site.

Department of Natural Resources
Scientific Areas Section
Box 7921 Madison, Wis. 53707

Aspen Wet Meadow *

PLANT COMMUNITY SPECIES LIST

SEDGE MEADOW, TALL SHRUB, CATTAIL MARSH

Central Poor Fen ✓

LEGEND: A - Abundant
C - Common
U - Uncommon
R - Rare

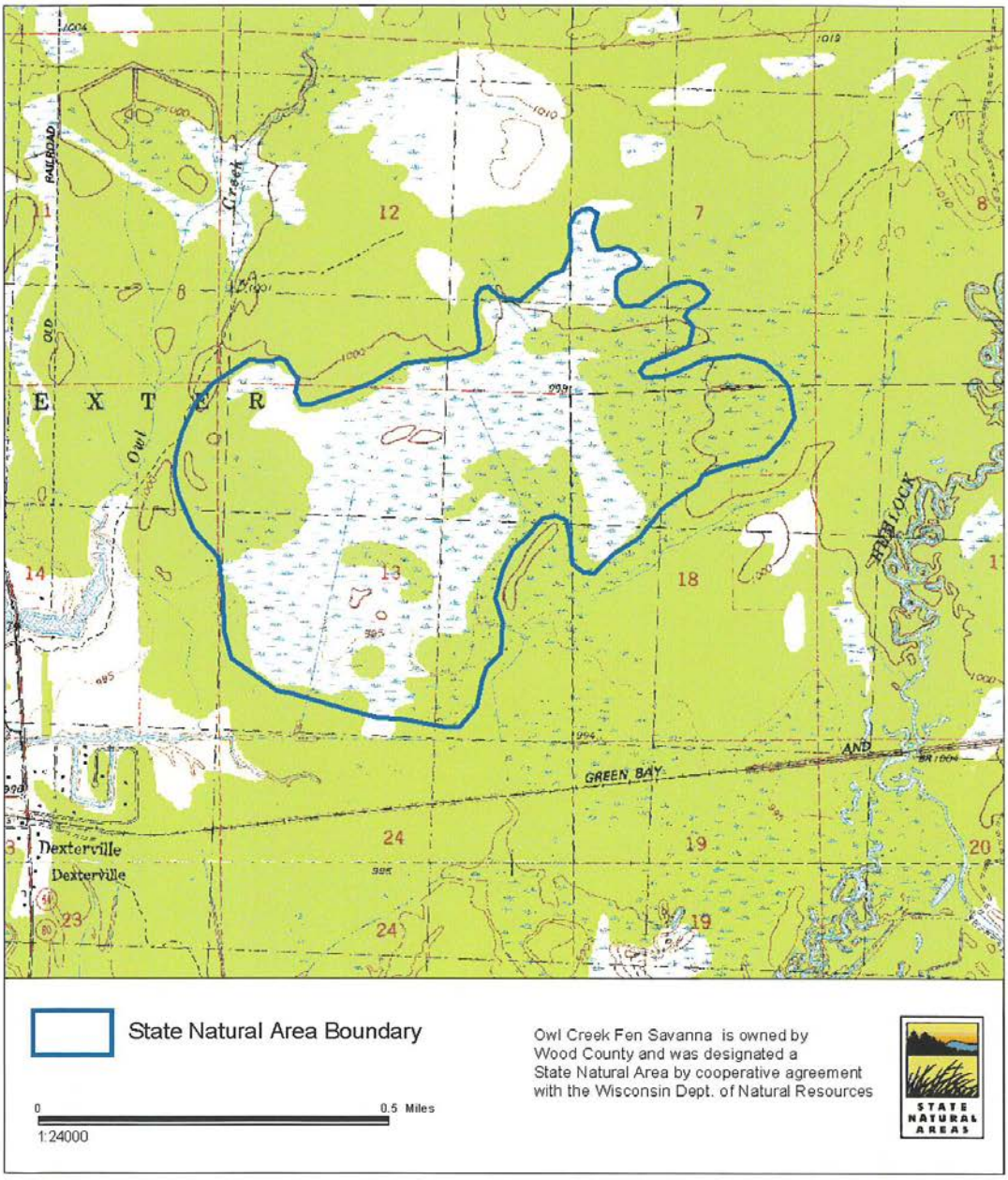
acorus calamus--0049	Dulichium arundinaceum--2515	Osmunda regalis--4783
agrostis alba--0145	Echinocystis lobata--2539	Parthenocissus inserta--4942
alisma plantago-aquatica--0175	Eleocharis smallii--2611	Phalaris arundinacea--5020
anemone canadensis--0361	Eleocharis sp.--2560	Phragmites australis--5050
anemone quinquefolia--0376	Epilobium coloratum--2658	Pilea fontana--5101
angelica atropurpurea--0391	Epilobium glandulosum--2671	Poa palustris--5185
apios americana--0436	Epilobium leptophyllum--2677	Polygonum amphibium--5263
apocynum cannabinum--0451	Equisetum arvense--2695	Polygonum arifolium--5266
asclepias incarnata--0643	Equisetum fluviatile--2701	Polygonum coccineum--5281
aster junciformis--0721	Equisetum sylvaticum--2725	Polygonum hydropiperoides--5296
aster lucidulus--0733	Erigeron philadelphicus--2791	Polygonum punctatum--5311
aster novae-angliae--0739	Eriophorum angustifolium--2809	Polygonum sagittatum--5317
aster praealtus--0751	Eriophorum sp.--2803	Potentilla palustris--5476
aster puniceus--0760	Eupatorium maculatum--2869	Proserpinaca palustris--5518
aster simplex--0775	Eupatorium perfoliatum--2878	Ranunculus flabellaris--5701
aster umbellatus--0778	Floerkea proserpinacoides--2986	Rosa palustris--5911
bidens cernua--0916	Galium asprellum--3046	Pycnanthemum virginianum--5590
bidens coronata--0925	Galium boreale--3049	Rubus pubescens--5999
boehmeria cylindrica--0943	Galium labradoricum--3058	Rumex obtusifolius--6058
bromus ciliatus--1027	Galium obtusum--3067	Rumex orbiculatus--6059
calamagrostis canadensis--1096	Galium tinctorium--3073	Rumex verticillatus--6064
caltha palustris--1117	Galium trifidum--3076	Sagittaria latifolia--6088
campanula aparinoides--1168	Gentiana andrewsii--3112	Saxifraga pensylvanica--6235
cardamine bulbosa--1198	Gentiana rubricaulis--3133	Scirpus acutus--6253
carex alopecoidea--1246	Geum aleppicum--3220	Scirpus americanus--6256
carex aquatilis--1261	Geum laciniatum--3226	Scirpus atrovirens--6259
carex atherodes--1276	Glyceria borealis--3253	Scirpus cyperinus--6268
carex bebbii--1285	Glyceria canadensis--3256	Scirpus fluviatilis6277
carex buxbaumii--1303	Glyceria grandis--3259	Scirpus validus--6301
carex canescens--1306	Glyceria septentrionalis--3265	Scutellaria epilobiifolia--6337
carex cephalantha--1318	Glyceria striata--3268	Scutellaria lateriflora--6340
carex comosa--1333	Hasteneria pycnodes--3370	Sium suave--6508
carex crinita--1351	Helenium autumnale--3394	Solanum dulcamara--6547
carex diandra--1378	Helianthus giganteus--3430	Solidago canadensis--6568
carex emoryi--1393	Helianthus grosseserratus--3433	Solidago gigantea--6574
carex granularis--1423	Helianthus tuberosus--3437	Solidago graminifolia--6577
carex haydenii--1435	Heliopsis helianthoides--3440	Solidago pezula--6598
carex hystericina--1450	Hierochloe odorata--3550	Solidago riddellii--6604
carex interior--1453	Humulus lupulus--3577	Solidago uliginosa--6619
carex lacustris--1468	Hydrocotyle americana--3586	Sparganium chlorocarpum--6654
carex lanuginosa--1471	Hypericum pyramidatum--3631	Sparganium eurycarpum--6667
carex lasiocarpa--1474	Impatiens capensis--3655	Spartina pectinata--6676
carex leptalea--1489	Iris versicolor--3682	Spiraea alba--6730
carex prairea--1573	Iris virginica--3685	Stachys hispida--6756
carex retrorsa--1585	Juncus effusus--3718	Stachys palustris--6757
carex rostrata--1594	Juncus sp.--3718.2	Stellaria longifolia--6781
carex sartwellii--1600	Lathyrus palustris--3883	Symplocarpus foetidus--6841
carex scoparia--1609	Leersia oryzoides--3931	Teucrium canadense--6871
carex stipata--1630	Lemna minor--3937	Thalictrum dasycarpum--6883
carex stricta--1636	Lemna trisulca--3943	Thalictrum revolutum--6889
carex tribuloides--1660	Lilium michiganense--4096	Thelypteris palustris--6907
carex trichocarpa--1663	Ludwigia palustris--4207	Triadenum fraseri--6973
carex vesicaria--1682	Lycopus americanus--4273	Typha angustifolia--7075
carex vulpinoidea--1690	Lycopus uniflorus--4294	Typha latifolia--7078
carex sp.--1228	Lysimachia ciliata--4306	Urtica procera--7102
bulone glabra--1822	Lysimachia lanceolata--4315	Utricularia intermedia--7120
chrysosplenium americanum--1868	Lysimachia terrestris--4327	Utricularia minor--7123
cicuta bulbifera--1897	Lysimachia thyrsiflora--4330	Utricularia vulgaris--7132
cicuta maculata--1900	Lythrum alatum--4336	Verbena hastata--7198
circaea quadrisulcata--1936	Mentha arvensis--4441	Veronica fasciculata--7219
clematis virginiana--1963	Mimulus ringens--4465	Veronica sp.--7222
convolvulus sepium--2014	Muhlenbergia glomerata--4534	Veronicastrum virginicum--7276
cuscuta sp.--2162	Muhlenbergia mexicana--4537	Viola cucullata--7363
cyperus sp.--2224	Nasturtium officinale--4633	Vitis riparia--7441
dryopteris cristata--2482	Onoclea sensibilis--4711	Zizania aquatica--7507

Agastache sp ✓
Populus Tremuloides ✓

Hypericum Kalmianum ✓

(over)

Owl Creek Fen Savanna State Natural Area
Wood County
T22N-R3E, Sec. 12, 13, 14
T22N-R4E, Section 7, 18
814 acres



2040.6 Roads and Access

The previous long-range plan identified the need to develop an access management plan for the forest. Extreme abuse of Wood County Forest lands was occurring in the form of dumping, rutting, and other environmental degradation. Much of the abuse was occurring on/because roads intended for winter, frozen ground access were left open year-round. Roads that are rutted are difficult to travel, costly to repair, a detriment to selling timber, and to providing access for recreation for the public. Furthermore, cleanup of dumped debris is an expense to taxpayers, an eyesore, and possible hazard to forest users. Subsequently, efforts were made to "close" (to motorized vehicular traffic) a majority of these old logging roads through various means including earthen berms, stump piles, boulders, and gates.

While many roads were closed, others have remained open and are maintained to a much higher level. Refer to Chapter 700-Roads and Access, also Chapter 1000.8 for Permanent Primary and Secondary Road Maps.

Currently, the majority of road closures are complete and previously mentioned problems have been reduced greatly. Wood County Forest roads are inspected at least annually and are graded and repaired as needed and as workloads and budgets permit. It is expected that most roads currently open will remain open. Furthermore, it is likely some will see future modest improvements with the addition of gravel, installation of culverts, brush mowing, and creation of small parking areas.