WOOD COUNTY FOREST COMPREHENSIVE LAND USE PLAN

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3000 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.

3100 ANNUAL ACCOMPLISHMENT REPORTS

A copy of an annual accomplishment 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 including recreation revenues and expenses.
4. Wildlife management accomplishments including revenues and expenses.
5. Fisheries management accomplishments including revenues and expenses.
6. Other accomplishments identified as “needs” in Chapter 1000.

3200 PAST ACCOMPLISHMENTS

This summary of the Forest activities provides a running history of accomplishments by activity. It is a quick and accessible reference for accomplishments on the County Forest. Records for planting and timber sale activity go back to 1935. Other activities shown include timber stand improvement, recreational developments and wildlife habitat accomplishments.

3210 FOREST PRODUCTS

3210.1 Timber

WOOD COUNTY FOREST TIMBER SALES HISTORY

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

WOOD COUNTY FOREST TIMBER SALES HISTORY

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
TOTAL	**544**	**3514.28**	**241,561**	**20,030**	**250,034**	**$3,130,365**
	NO. SALES	**MBF**	**CORDS**	**ACRES**	**CD. EQUIV.**	**VALUE**

3210.2 Non-timber forest products

Wood County has issued very few non-timber forest products over time. The only records available include two recent permits issued for collecting maple and birch saplings to be used for artwork.

3220 REFORESTATION

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

3230 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

3240 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 Tennis Courts	# of Fish Cleaning Stations	# of Handicapped Access Areas	# of Handicapped Hunting Blinds
1948	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	45	-	1	-	1	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
1970	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	30	-	-	-	-	-	28	-	2	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	23	-	1	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	5	5	-	-	-	-	-	-	-	-	2	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
1994	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-

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 Tennis Courts	# of Fish Cleaning Stations	# of Handicapped Access Areas	# of Handicapped Hunting Blinds
1995	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3250 WILDLIFE PROJECTS

3250 Wildlife Projects

Year	Flowages Developed/Acres	Roads (Miles)	# of Parking Areas	Jack Pine Seeding (Acres)	Tag Alder 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	-	**.6**	**1**	-	-	-	-	-	-
2002	-	-	-	-	-	-	**7**	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	**2**	**8**	**50**	-	-	**1**	**1**
2005	-	-	-	-	**23**	**1**	-	**1**	-
2006	-	-	-	-	-	-	-	**1**	-

3300 **MONITORING**

3310 FOREST TYPES

WOOD COUNTY FOREST COMPOSITION

Forest Type	**Original** Acres	Original %	**1995** Acres	1995%	**2005** Acres	2005%	**Proposed** Acres	Proposed %
Aspen	18,154	58.6%	18,218	49.2%	17,616	46.7%	17,417	46.2%
Bottld. Hdwd	787	2.5%	952	2.6%	1,155	3.1%	1,155	3.1%
W. Birch	28	0.1%	118	0.3%	61	0.2%	61	0.2%
Central hdwd.	0	0.0%	32	0.1%	15	0.0%	15	0.0%
Fir-Spruce	23	0.1%	53	0.1%	53	0.1%	56	0.1%
Red maple	0	0.0%	0	0.0%	296	0.8%	194	0.5%
N. Hdwd.	78	0.3%	257	0.7%	290	0.8%	258	0.7%
Oak	2,606	8.4%	2,205	6.0%	3,497	9.3%	3,221	8.5%
Scrub Oak	1,073	3.5%	1,775	4.8%	1,518	4.0%	1,304	3.5%
Jack pine	486	1.6%	506	1.4%	309	0.8%	309	0.8%
Red pine	3,029	9.8%	2,409	6.5%	2,319	6.2%	1,843	4.9%
White pine	0	0.0%	1,469	4.0%	1,684	4.5%	3,005	8.0%
Tamarack	33	0.1%	120	0.3%	255	0.7%	255	0.7%
Total Forested	26,297	84.9%	28,114	76.0%	29,068	77.1%	29,093	77.2%
Upl. Grass	792	2.6%	231	0.6%	146	0.4%	141	0.4%
Herb. Veg.	0	0.0%	17	0.0%	17	0.0%	4	0.0%
Muskeg bog	0	0.0%	63	0.2%	56	0.1%	56	0.1%
Emergent veg.	0	0.0%	179	0.5%	60	0.2%	60	0.2%
Nonc..Grass	0	0.0%	4,745	12.8%	4,591	12.2%	4,591	12.2%
Water	0	0.0%	248	0.7%	263	0.7%	263	0.7%
Low. brush	0	0.0%	111	0.3%	78	0.2%	78	0.2%
Alder	513	1.7%	778	2.1%	861	2.3%	861	2.3%
Red Dogwood	85	0.3%	85	0.2%	131	0.3%	131	0.3%
Willow	3,265	10.5%	2,001	5.4%	1,858	4.9%	1,858	4.9%
Minor Lake	0	0.0%	35	0.1%	39	0.1%	39	0.1%
Minor stream	0	0.0%	42	0.1%	265	0.7%	265	0.7%
R-O-W	0	0.0%	199	0.5%	153	0.4%	153	0.4%
Upland brush	21	0.1%	25	0.1%	7	0.0%	0	0.0%
Rock outcrop	0	0.0%	8	0.0%	7	0.0%	7	0.0%
Miscellaneous	0	0.0%	115	0.3%	101	0.3%	101	0.3%
Total non-forest	4,676	15.1%	8,882	24.0%	8,633	22.9%	8,608	22.8%
Total Property	30,973	100.0%	36,996	100.0%	37,701	100.0%	37,701	100.0%

*Misc. non-forest acreage includes parking areas, campgrounds, picnic areas, and trails (vehicle, snowmobile, ATV).

The aspen forest type is the major type found on Wood County Forest. Acreage in aspen is expected to remain somewhat steady over the planning period. Preliminary data shows only a modest 0.5% decrease in acreage. In reality, it's expected that the aspen forest type will decline to around 44% of total acreage as some stands succeed to maple, oak, and white pine. Over the last planning period, Wood County emphasized aspen harvesting to regenerate much of the remaining over mature stands. Recon data still shows 2600+ acres of mature aspen stands to harvest, or approximately 15% of the aspen acreage. We anticipate aspen regeneration to occur on two-thirds of this acreage in sales established during the next planning cycle.

The other expected changes to note include a slight decrease in the oak and red pine types with a more substantial increase in the white pine type. Most of the increase in white pine acreage is coming from the "scrub" oak and aspen forests. Some of the mature red pine stands will also be converted to white pine. This conversion will occur on high water table sands where white pine is better suited than existing red pine.

3320 HARVESTING

The following tables compare harvest goals from the 1996-2005 Plan with the established, sold and closed data for major forest types and for all sales.

TIMBER SALE MONITORING - Actual sale activity in Acres compared to Needs in 1996-05 Plan

WOOD COUNTY FOREST

*Includes Major Forest types and Total

YEAR	Aspen				Oak				Red Pine				White Pine				**All Others			
	Need (from 96-05 Plan)	Estab	Sold	Closed	Need (from 96-05 Plan)	Estab	Sold	Closed	Need (from 96-05 Plan)	Estab	Sold	Closed	Need (from 96-05 Plan)	Estab	Sold	Closed	Need (from 96-05 Plan)	Estab	Sold	Closed
1996	785	385	385	825	167	0	0	172	155	103	103	88	73	98	98	50	105	0	0	17
1997	786	222	222	325	167	49	49	96	155	151	151	185	73	43	43	5	105	26	26	63
1998	785	301	301	563	167	111	111	45	155	55	55	143	74	135	135	113	104	111	111	8
1999	786	258	258	172	167	0	0	24	155	172	172	63	73	49	49	46	105	0	0	75
2000	785	500	500	0	167	135	135	0	155	0	0	0	73	4	4	0	105	43	43	0
2001	786	630	630	427	167	57	57	22	155	0	0	317	74	214	214	46	104	0	0	31
2002	785	212	212	529	167	150	150	97	155	191	191	162	73	26	26	307	105	0	0	64
2003	786	230	230	431	167	184	184	65	155	120	120	94	73	23	23	75	105	264	264	0
2004	786	226	226	98	167	164	164	29	155	464	464	7	74	32	32	30	104	6	6	0
2005	786	27	27	814	168	35	35	321	156	68	68	554	73	7	7	98	105	41	41	29
Total	7,856	2,991	2,991	4,184	1,671	885	885	871	1,551	1,324	1,324	1,613	733	631	631	770	1,047	491	491	287
Annual Average	786	299	299	418	167	89	89	87	155	132	132	161	73	63	63	77	105	49	49	29

ALL SALES

Year	Need (from 96-05 Plan)	Estab	Recon in lieu of sale (1)	Total Sale activity	Sold	Closed
1996	1,285	586	0	586	586	1,152
1997	1,286	491	0	491	491	674
1998	1,286	713	0	713	713	872
1999	1,286	479	118	597	479	380
2000	1,286	682	26	708	682	0
2001	1,286	901	0	901	901	843
2002	1,286	579	161	740	579	1,159
2003	1,286	821	427	1,248	821	665
2004	1,286	892	113	1,005	892	164
2005	1,285	178	23	201	178	1,816
	12,858	6,322	868	7,190	6,322	7,725
ANNUAL AVERAGE:	**1,286**	**632**	**87**	**719**	**632**	**773**

*Needs" are taken from 1996-2005 Plan, Chptr. 1000
**All Others includes jack pine, bottomland hardwoods, birch, northern hardwoods, fir-spruce and tamarack
(1) "Recon in lieu of sale is from Accomplishment rpts.

SUMMARY OF FINDINGS: Timber sale activity fell short of the "need" by an average of 567 acres per year. The shortfall is a result of the lack of county staff and limited DNR assistance hours that can be put solely into timber sale establishment. The county did hire an independent consulting forester in 2003 to assist in sale establishment in the bottomland hardwood forest type. The county has also hired interns who have assisted in sale establishment efforts.
The annual allowable cut for Wood County Forest is 527 acres/year.

3330 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. In addition, many red pine stands planted in the 1940's and 1950's are beginning to decline on the forest. Developing a regeneration plan for these stands will be another major management focus during this planning period.

Invasive species are beginning to show on Wood County. Buckthorn has been found in the Seneca Block. This species will be monitored and steps taken to control it's 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.

A number of new wildlife species are now using the county forest; wolves and black bear are relatively new to county forest lands. In cooperation with DNR wildlife staff, the county has completed track surveys designed to estimate the wolf presence on the county lands. Black bears are not uncommon any more in Central Wisconsin and are known to den on county forest lands over winter. 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 will be learning how to manage the forest with consideration for these birds of special interest in Wisconsin.

3340 RECREATIONAL USE

Recreational demand on the Wood County Forest continues to center around wildlife game species. ATV use and recreational demand has grown over the last ten years and is expected to continue into the next planning period. Requests for additional trails are brought to the Park and Forestry 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. Any amendment to the plan regarding

ATV use must be approved by the Park & Forestry Committee, county board and the DNR.

3350 HIGH CONSERVATION VALUE FOREST AREAS

Wood County Forest has three areas identified and recognized as high conservation value forests or wetland ecological reference areas. These sites include: Red Oak Bottoms, a forested site along the Hemlock Creek near Dexterville, WI; Owl Creek Fen Savanna, a large peatland area along near Dexterville; and Hiles Wetlands, a wet meadow area 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.

3360 ROADS & ACCESS

The previous long range plan identified the need to develop an access management plan for the forest. Additional demand, and sometimes abuse, on existing roads has increased over the last planning period. Many access roads are in poor condition due to overuse and seasonally wet conditions. Roads that are rutted and difficult to travel are a detriment to selling timber and to providing access for recreation for the public. In addition, many secondary roads are used as a means to dump garbage in the forest.

Because of these issues, Wood County developed a series of maps, found in chapter 900, which identify the primary and secondary roads on the forest. Road closings, using berms, boulders, and/or gates, are proposed and shown on the maps to help remedy these problems. A majority of the road closings are proposed in the Seneca Block of the forest, nearest to the population center of the Wisconsin Rapids area where most of the road damage is occurring.

The county plans to upgrade two roads during the next planning period to qualify for the County Forest Road Aids program. County Forest gates and parking areas

are inspected periodically and repairs and/or improvements will be completed when needed. Primary roads will also be graded and repaired as needed.

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 trancribed 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 poorfen tamarack poorfen, 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.).

Past 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 commericial 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 fen species

Lyman Hay Skunk Meadow
From January -

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

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

PLANT COMMUNITY SPECIES LIST

SEDGE MEADOW, TALL SHRUB, CATTAIL MARSH

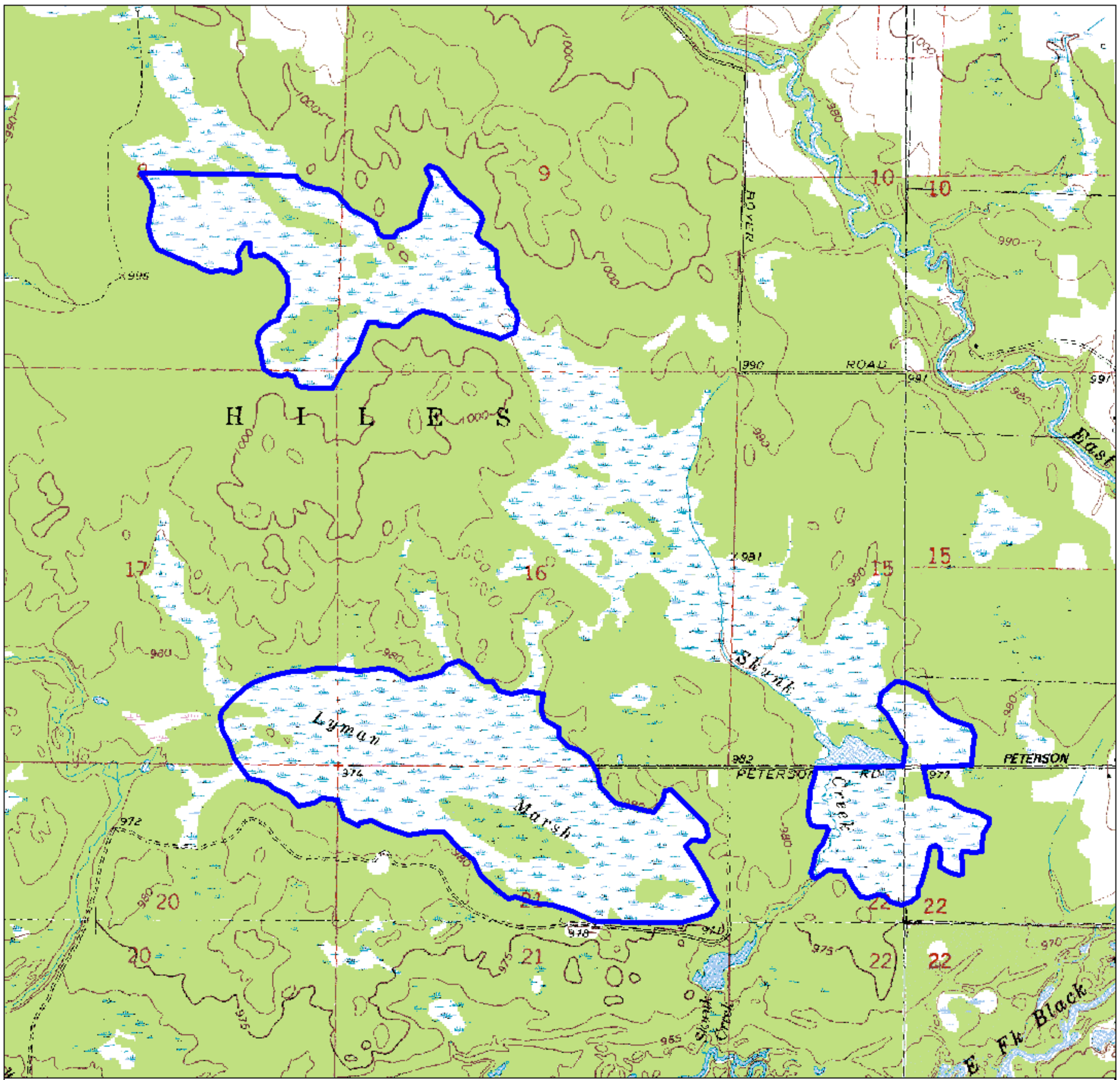
.corus calamus--0049	
.grostis alba--0145	
.lisma plantago-aquatica--0175	
.nemone canadensis--0361	
.nemone quinquefolia--0376	
.ngelica atropurpurea--0391	
.pios americana--0436	
.pocynum cannabinum--0451	
.sclepias incarnata--0643	*
.ster junciformis--0721	
.ster lucidulus--0733	
.ster novae-angliae--0739	
.ster praealtus--0751	
.ster puniceus--0760	
.ster simplex--0775	
.ster umbellatus--0778	*
.idens cernua--0916	
.idens coronata--0925	
.ehmeria cylindrica--0943	
.romus ciliatus--1027	
.alamagrostis canadensis--1096	*
.altha palustris--1147	
.mpanula aparinoides--1168	
.ardamine bulbosa--1198	
.arex alopecoides--1246	
.arex aquatilis--1261	*
.arex atherodes--1276	
.arex bebbii--1285	
.arex buxbaumii--1303	
.arex canescens--1306	
.arex cephalantha--1318	
.arex comosa--1333	
.arex crinita--1354	
.arex diandra--1378	
.arex emoryi--1393	
.arex granularis--1423	
.arex haydenii--1435	
.arex hystericina--1450	
.arex interior--1453	
.arex lacustris--1462	
.arex lanuginosa--1471	*
.arex lasiocarpa--1474	
.arex leptalea--1489	
.arex prairea--1573	
.arex retrorsa--1585	
.arex rostrata--1594	*
.arex sartwellii--1600	
.arex scoparia--1609	
.arex stipata--1630	
.arex stricta--1636	
.arex tribuloides--1660	
.arex trichocarpa--1663	
.arex vesicaria--1681	
.arex vulpinoides--1690	
.arex sp.--1228	
.helone glabra--1822	
.hrysosplenium americanum--1888	
.icuta bulbifera--1897	
.icuta maculata--1900	
.irsium muticum--1936	
.lematis virginiana--1963	
.onvolvulus sepium--2014	
.scuta sp.--2182	
.yperus sp.--2224	
.yopteris cristata--2482	

Dulichium arundinaceum--2515	
Echinocystis lobata--2539	
Eleocharis smallii--2611	
Eleocharis sp.--2550	
Epilobium coloratum--2668	
Epilobium glandulosum--2671	
Epilobium leptophyllum--2677	
Equisetum arvense--2695	
Equisetum fluviatile--2701	
Equisetum sylvaticum--2725	
Erigeron philadelphicus--2791	
Eriophorum angustifolium--2809	
Eriophorum sp.--2803	*
Eupatorium maculatum--2869	*
Eupatorium perfoliatum--2872	*
Floerkea proserpinacoides--2986	
Galium asprellum--3046	
Galium boreale--3049	
Galium labradoricum--3058	
Galium obtusum--3067	
Galium tinctorium--3073	
Galium trifidum--3076	
Gentiana andrewsii--3112	
Gentiana rubricaulis--3133	
Geum aleppicum--3220	
Geum laciniatum--3226	
Glyceria borealis--3253	
Glyceria canadensis--3256	*
Glyceria grandis--3259	
Glyceria septentrionalis--3265	
Glyceria striata--3268	*
Habenaria psycodes--3370	
Helenium autumnale--3394	
Helianthus giganteus--3430	
Helianthus grosseserratus--3433	
Helianthus tuberosus--3457	
Heliopsis helianthoides--3460	
Hierochloe odorata--3550	
Humulus lupulus--3577	
Hydrocotyle americana--3586	
Hypericum pyramidatum--3631	
Impatiens capensis--3655	
Iris versicolor--3682	
Iris virginica--3685	
Juncus effusus--3748	
Juncus sp.--3718	
Lathyrus palustris--3883	
Leersia oryzoides--3931	
Lemna minor--3937	
Lemna trisulca--3943	
Lilium michiganense--4036	
Ludwigia palustris--4207	
Lycopus americanus--4273	
Lycopus uniflorus--4294	*
Lysimachia ciliata--4306	
Lysimachia lanceolata--4315	
Lysimachia terrestris--4327	
Lysimachia thyrsiflora--4330	
Lythrum alatum--4336	
Mentha arvensis--4441	
Mimulus ringens--4465	
Muhlenbergia glomerata--4534	
Muhlenbergia mexicana--4537	
Nasturtium officinale--4633	
Onoclea sensibilis--4711	*

Osmunda regalis--4783	
Parthenocissus insertа--4942	
Phalaris arundinacea--5020	
Phragmites australis--5050	
Pilea fontana--5101	
Poa palustris--5185	*
Polygonum amphibium--5263	
Polygonum arifolium--5266	
Polygonum coccineum--5281	
Polygonum hydropiperoides--5296	
Polygonum punctatum--5311	
Polygonum sagittatum--5317	
Potentilla palustris--5476	
Proserpinaca palustris--5518	
Ranunculus flabellaris--5701	
Rosa palustris--5911	
Pycnanthemum virginianum--5590	
Rubus pubescens--5999	
Rumex obtusifolius--6058	
Rumex orbiculatus--6059	
Rumex verticillatus--6064	
Sagittaria latifolia--6088	
Saxifraga pensylvanica--6235	
Scirpus acutus--6253	
Scirpus americanus--6256	
Scirpus atrovirens--6259	
Scirpus cyperinus--6268	*
Scirpus fluviatilis6277	
Scirpus validus--6304	
Scutellaria epilobiifolia--6337	
Scutellaria lateriflora--6340	
Sium suave--6508	
Solanum dulcamera--6547	
Solidago canadensis--6568	
Solidago gigantea--6574	
Solidago graminifolia--6577	*
Solidago patula--6598	
Solidago riddellii--6604	
Solidago uliginosa--6619	
Sparganium chlorocarpum--6664	
Sparganium eurycarpum--6667	
Spartina pectinata--6676	*
Spirodella polyrhiza--6730	
Stachys hispida--6756	
Stachys palustris--6757	
Stellaria longifolia--6781	
Symplocarpus foetidus--6841	
Teucrium canadense--6871	
Thalictrum dasycarpum--6883	
Thalictrum revolutum--6889	
Thelypteris palustris--6907	*
Triadenum fraseri--6973	
Typha angustifolia--7075	
Typha latifolia--7078	
Urtica procera--7102	
Utricularia intermedia--7120	
Utricularia minor--7123	
Utricularia vulgaris--7132	
Verbena hastata--7198	
Vernonia fasiculata--7219	
Veronica sp.--7222	
Veronicastrum virginicum--7276	
Viola cuculiata--7363	
Vitis riparia--7411	
Zizania aquatica--7507	

(over)

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



State Natural Area Boundary

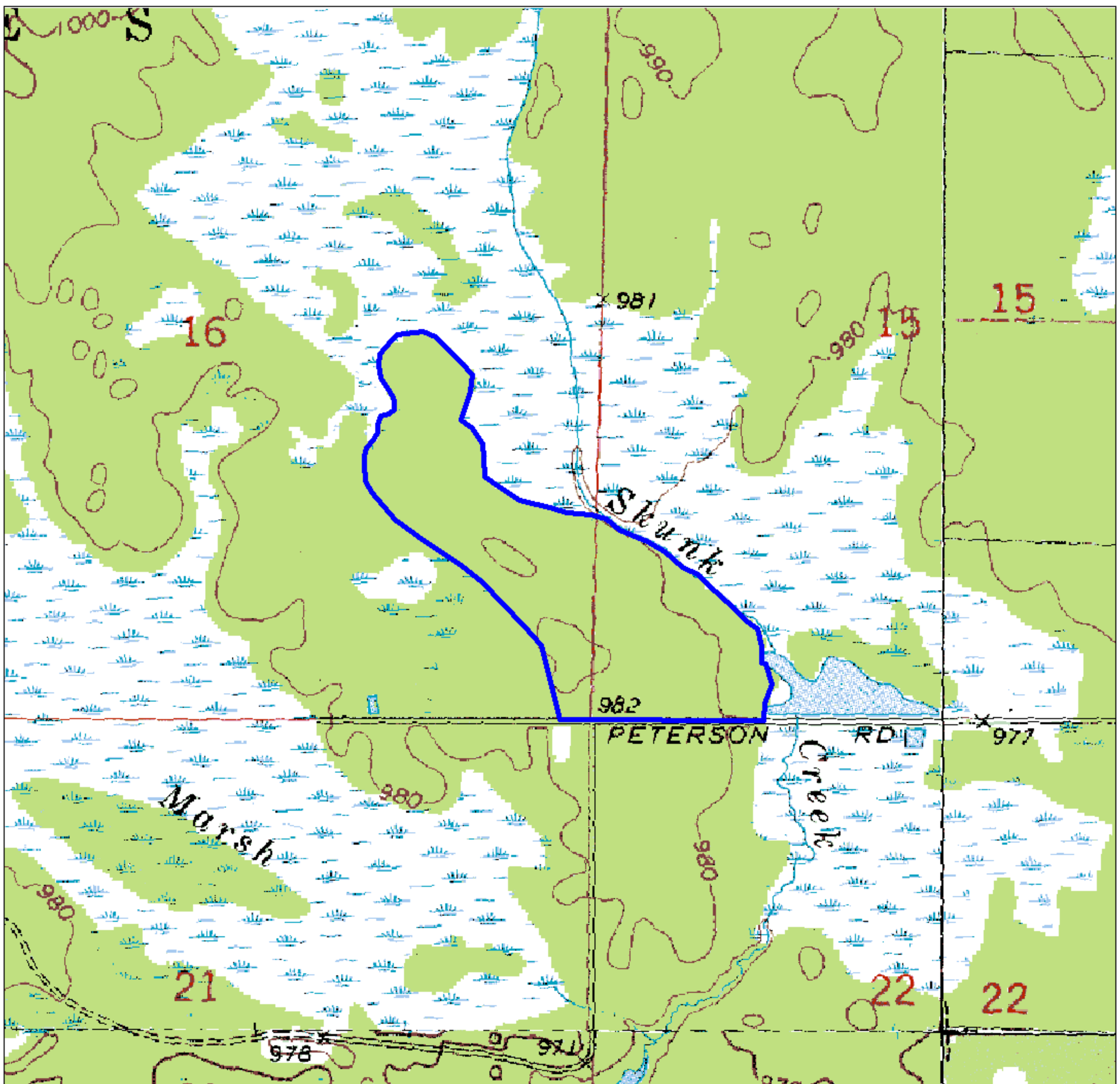
0 0.5 Miles

1:24000

Hiles Wetlands are owned by Wood County and were designated a State Natural Area by cooperative agreement with the Wisconsin Dept. of Natural Resources

STATE NATURAL AREAS

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



State Natural Area Boundary

0 0.5 Miles
1:24000

Skunk Creek Woods 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

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: F94EPS68WOI

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

Quad Code(s): HH89041 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: CPFOR024WDcc#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 (no 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, Hydrophyllum canadense, Impatiens fulva, Carex crinita, C. lupulina. Cut-off meanders, oxbows present. Large Red Oak frequent in wet-mesic portions of floodplain. Little anthropogenic disturbance evident west of main channel, north of V.O.W. to north bridge 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, forest is in various stages of recovery.

Threats to EO: Logging

Conservation/management needs: Special mgt. 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.o.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 B-Good C-Marginal D Poor

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

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 of mature floodplain forest 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								
Tovara virginiana - C								
Carex crinita								
Lysimachia ciliata - C								
Viola pubescens								
Geum canadense								
Aster lateriflorus - C								
Circaea quadrisulcata - C								
Iris								
Parthenocissus								
Elymus								
Cicuta maculata								
Carpinus caroliniana - C								
Ilex verticillata								
Uvularia sessilifolia - U								
Thalictrum dasycarpum								
Impatiens biflora - C								
Lycopus								
Cuscuta								
Teucrium								
Boehmeria								
Carex typhina								
Galium lanceolatum								

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
Phlox divaricata								
Ulmus americana (sapling)								
Corylus americana - U								
Cryptotaenia canadensis								
Pteridium aquilinum								
Carex lupulina								
Helianthus sp.								
Xanthoxylum americanum - U								
Betula papyrifera - R								
Pinus strobus - R								
Fraxinus nigra - R								
Smilax insignis								
S. (herbacea)								
Cuscuta sp.								
Pilea pumila								
Polygonum virginianum								
Lobelia cardinalis								
Aralia nudicaulis								
Carex intumescens								
Galium triflorum								
Ranunculus sp.								
Leersia virginica								
Rudbeckia laciniata								
Osmunda cinnamomea								
Solidago canadensis								
Anemone quinquefolia								
Quercus macrocarpa								
Aster macrophyllus								
Polygonum sp.								
Onoclea alba (1)								
Spartina pectinata								
Carex lacustris								

ANIMAL LIST

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

Species	Evid. of Presence	Evid. of Breeding	Number
Red-shouldered Hawk			
Red-headed Woodpecker (juv 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

Site Name: Red Oak Bottoms

Quad Name(s): Lake Dexter

Quad Code(s): 4409041 10/10 locator: 5/10

State: _____ County(ies): Wood

Town(s): _____

Township/Range/Section: 22-4E-17 SW 1/4

Field Quad Margin #: 20 NW 1/4

Source of lead:

Statewide Natural Area Inventory

Site Visit Chronology

Date: 94-07-22 Time: ____ to ____ Source Code: E94EPS68WT

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													
Butes lineatus													

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.: Lobelia canadensis, Lysimachia ciliata, Onoclea sensibilis, Carex 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 stands sweeping 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 ___
Acnidia 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---0733 ___
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---1531 ___
Carex normalis---1534 ___
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 U
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---3223 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---4135 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---4531 ___
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---5683 ___
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. - O Nwm
- Corylus americana - U SD
- Pteridium aquilinum - U BG
- Polygonum virginianum - 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)

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---6526 √U
Smilax lasioneura---6532 ____
Smilax hispida---6538 √C
Solanum dulcamera---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---7390 ____
Viola pubescens---7405 √O
Viola sp.---7342 V. spp.---7345 ____
Vitis riparia---7441 ____
Xanthoxylum americanum---7480 √U
Zizia aurea---7513 ____

TREES

Acer negundo---0013 ____
Acer rubrum---0022 √U
Acer saccharinum---0025 √A
Betula alleghaniensis---0886 ____
Betula nigra---0895 ____
Carya cordiformis---1705 √U
Carya ovata---1708 ____

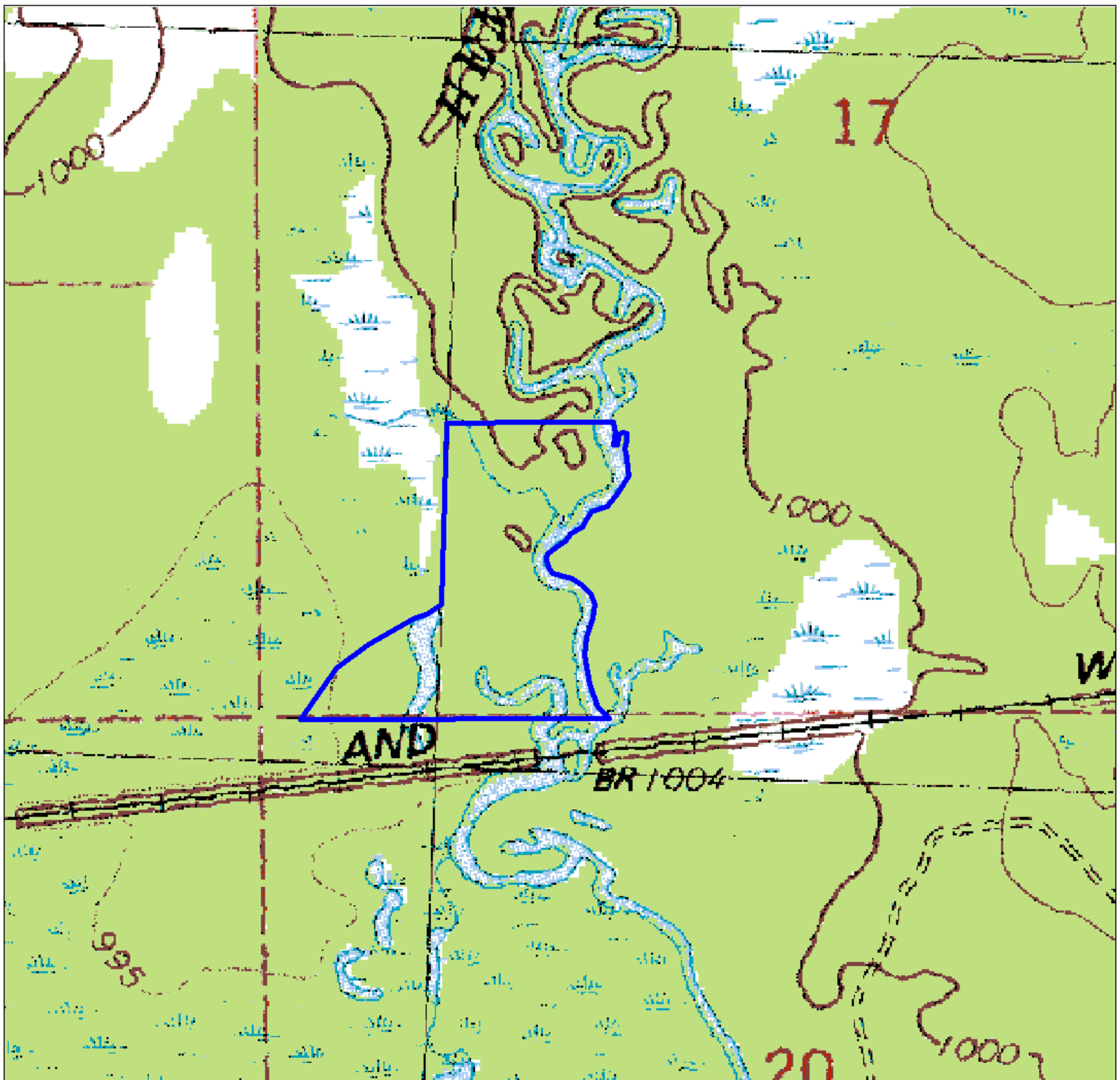
Celtis occidentalis---1750 ____
Fagus grandifolia---2938 ____
Fraxinus americana---3001 ____
Fraxinus nigra---3004 √U
Fraxinus pennsylvanica (red)---3007 ____
Fraxinus pennsylvanica (green)---3010 √C
Gleditsia triacanthos---3244 ____
Gymnocladus dioica---3325 ____
Juglans cinerea---3712 ____
Morus rubra---4516 ____
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---6925 √O
Ulmus americana---7087 √ Sapp U
Ulmus rubra---7093 ____
Ulmus thomasi---7096 ____

Additional species:

o Betula papyrifera - U NDM
o Carpinus caroliniana - C BF
o Spartina pectinata - U (edge sloughs) PW
o Carpinus caroliniana
o Galium boreale

Observer _____ Date _____

Red Oak Bottoms State Natural Area
Wood County
T22N-R4E, Section 17
25 acres



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 200pm 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 trancribed or updated and whether a return visit is needed.

		Date:	Feb 6, 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 Poor Fen			Y										
Alder Thicket			Y										
Aspen 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 contains central poor fen, alder thickets, upland "islands" of pine and oak. Dominant 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, past logging, mining, plantations/orchards, exotic flora, etc.).

ATV Tracks to permanent deer hunting stands. Old snow mobile trail. - Two very old barely 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 commericial 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

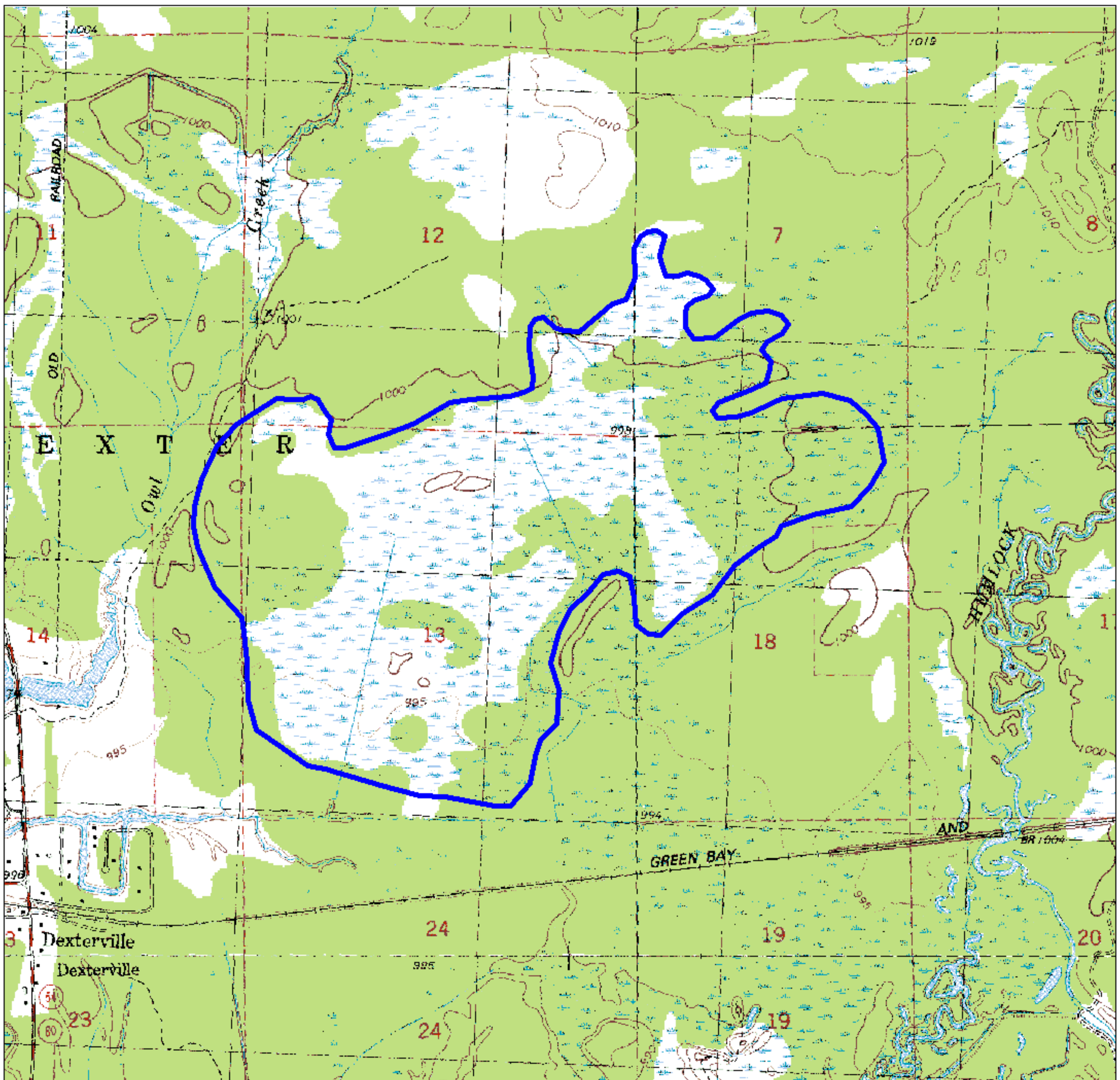
.acorus calamus--0049	
.grostis alba--0145	
.lisma plantago-aquatica--0175	
.nemone canadensis--0361	
.nemone quinquefolia--0376	
.ngelica atropurpurea--0391	
.pios americana--0436	
.pocynum cannabinum--0451	
.sclepias incarnata--0643	X
.ster junciformis--0721	
.ster lucidulus--0733	
.ster novae-angliae--0739	
.ster praealtus--0751	
.ster puniceus--0760	
.ster simplex--0775	
.ster umbellatus--0778	
Bidens cernua--0916	
Bidens coronata--0925	
Boehmeria cylindrica--0943	
Bromus ciliatus--1027	
Calamagrostis canadensis--1096	X ✓
Caltha palustris--1147	
Campanula aparinoides--1168	X
Cardamine bulbosa--1198	
Carex alopecoidea--1246	
Carex aquatilis--1261	
Carex atherodes--1276	
Carex bebbii--1285	
Carex buxbaumii--1303	
Carex canescens--1306	
Carex cephalantha--1318	
Carex comosa--1333	
Carex crinita--1354	
Carex diandra--1378	
Carex emoryi--1393	
Carex granularis--1423	
Carex haydenii--1435	
Carex hystericina--1450	
Carex interior--1453	
Carex lacustris--1462	
Carex lanuginosa--1471	X ✓
Carex lasiocarpa--1474	
Carex leptalea--1489	
Carex prairea--1573	✓
Carex retrorsa--1585	
Carex rostrata--1594	✓
Carex sartwellii--1600	
Carex scoparia--1609	
Carex stipata--1630	
Carex stricta--1636	
Carex tribuloides--1660	
Carex trichocarpa--1663	
Carex vesicaria--1681	
Carex vulpinoidea--1690	
Carex sp.--1228	
Chelone glabra--1822	X
Chrysosplenium americanum--1868	
Cicuta bulbifera--1897	X
Cicuta maculata--1900	
Cirsium muticum--1936	
Clematis virginiana--1963	
Convolvulus sepium--2014	
Cuscuta sp.--2182	
Cyperus sp.--2224	
Cyrtopteris cristata--2482	
Agalinis sp	X
Populus Tremuloides	X

Dulichium arundinaceum--2515	X
Echinocystis lobata--2539	
Eleocharis smallii--2611	
Eleocharis sp.--2560	X
Epilobium coloratum--2668	X
Epilobium glandulosum--2671	
Epilobium leptophyllum--2677	
Equisetum arvense--2695	
Equisetum fluviatile--2701	
Equisetum sylvaticum--2725	
Erigeron philadelphicus--2791	
Eriophorum angustifolium--2809	
Eriophorum sp.--2803	✓
Eupatorium maculatum--2869	
Eupatorium perfoliatum--2872	
Floerkea proserpinacoides--2986	
Galium asprellum--3046	
Galium boreale--3049	
Galium labradoricum--3058	
Galium obtusum--3067	
Galium tinctorium--3073	
Galium trifidum--3076	
Gentiana andrewsii--3112	
Gentiana rubricaulis--3133	
Geum aleppicum--3220	
Geum laciniatum--3226	
Glyceria borealis--3253	
Glyceria canadensis--3256	
Glyceria grandis--3259	
Glyceria septentrionalis--3265	
Glyceria striata--3268	X ✓
Habenaria psycodes--3370	
Helenium autumnale--3394	
Helianthus giganteus--3430	
Helianthus grosseserratus--3433	
Helianthus tuberosus--3457	
Heliopsis helianthoides--3460	
Hierochloe odorata--3550	
Humulus lupulus--3577	
Hydrocotyle americana--3586	
Hypericum pyramidatum--3631	X
Impatiens capensis--3655	
Iris versicolor--3682	X
Iris virginica--3685	
Juncus effusus--3748	X
Juncus sp.--3718	X
Lathyrus palustris--3883	X
Leersia oryzoides--3931	
Lemna minor--3937	
Lemna trisulca--3943	
Lilium michiganense--4036	
Ludwigia palustris--4207	
Lycopus americanus--4273	
Lycopus uniflorus--4294	X
Lysimachia ciliata--4306	
Lysimachia lanceolata--4315	
Lysimachia terrestris--4327	X ✓
Lysimachia thyrsiflora--4330	
Lythrum alatum--4336	
Mentha arvensis--4441	
Mimulus ringens--4465	
Muhlenbergia glomerata--4534	X
Muhlenbergia mexicana--4537	X
Nasturtium officinale--4633	
Onoclea sensibilis--4711	
Hypericum Kalmianum	X

Osmunda regalis--4783	
Parthenocissus inserta--4942	
Phalaris arundinacea--5020	
Phragmites australis--5050	
Pilea fontana--5101	
Poa palustris--5185	?
Polygonum amphibium--5263	
Polygonum arifolium--5266	
Polygonum coccineum--5281	
Polygonum hydropiperoides--5296	
Polygonum punctatum--5311	
Polygonum sagittatum--5317	
Potentilla palustris--5476	
Proserpinaca palustris--5518	
Ranunculus flabellaris--5701	
Rosa palustris--5911	X
Pycnanthemum virginianum--5590	
Rubus pubescens--5999	✓
Rumex obtusifolius--6058	
Rumex orbiculatus--6059	X ✓
Rumex verticillatus--6064	
Sagittaria latifolia--6088	
Saxifraga pensylvanica--6235	
Scirpus acutus--6253	
Scirpus americanus--6256	
Scirpus atrovirens--6259	
Scirpus cyperinus--6268	X
Scirpus fluviatilis6277	
Scirpus validus--6304	
Scutellaria epilobiifolia--6337	
Scutellaria lateriflora--6340	
Sium suave--6508	
Solanum dulcamara--6547	
Solidago canadensis--6568	X
Solidago gigantea--6574	
Solidago graminifolia--6577	X
Solidago patula--6598	
Solidago riddellii--6604	
Solidago uliginosa--6619	X ✓
Sparganium chlorocarpum--6664	
Sparganium eurycarpum--6667	
Spartina pectinata--6676	
Spirea alba var. latifolia--6730	X ✓
Stachys hispida--6756	
Stachys palustris--6757	
Stellaria longifolia--6781	
Symplocarpus foetidus--6841	
Teucrium canadense--6871	
Thalictrum dasycarpum--6883	
Thalictrum revolutum--6889	
Thelypteris palustris--6907	X
Triadenum fraseri--6973	
Typha angustifolia--7075	
Typha latifolia--7078	
Urtica procera--7102	
Utricularia intermedia--7120	
Utricularia minor--7123	
Utricularia vulgaris--7132	
Verbena hastata--7198	
Vernonia fasiculata--7219	
Veronica sp.--7222	
Veronicastrum virginicum--7276	
Viola cucullata--7363	
Vitis riparia--7441	
Zizania aquatica--7507	

(over)

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



State Natural Area Boundary

0 0.5 Miles
1:24000

Owl Creek Fen Savanna 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