

TA TROUT LILY: MAPPING, CENSUSING AND MONITORING

Report compiled under contract for USFW Service Endangered Species Office

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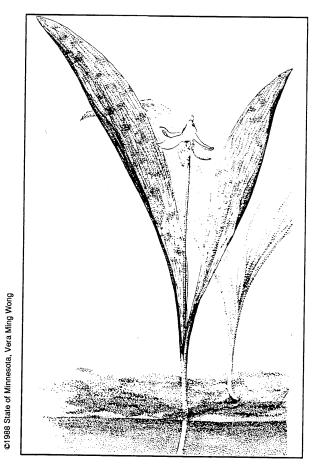
by

Nancy Sather Minnesota Department of Natural Resources Section of Wildlife – Natural Heritage Program

March, 1991

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Gerda Nordquist

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We wish to acknowledge the assistance of the following volunteers who devoted one or more days to searches, monitoring, or Spring Fling leadership.

Kandace Barrett Larry Bauer Char Bezanson Florence Brandt Norbert Brandt Barbara Coffin Julian Colescott Rolf Dahle Dawn Doering Carol Dorff Allie Enga Wanda Evans Julie Filapek Gary Fritz Patricia Glader R. Bruce Goodchild Paul Gruchow Bernice Hanson Andrew Healy Jennifer Hengelfelt Kristen Hildebrandt Marcia Holmberg Lois Hoseth Harlan Hostager Paul Jensen

Judy Kenney Patricia Kohlbeck Dean Krepela Mary Krepela Ronald Krepela Joyce Krupey Onea McPherson Marcie O'Connor Jeffrey Olson Wayne Ostlie Ted Raczek Julie Reeve Milt Reeve Jeanine Refsnider Ron Refsnider Marcia Richards Constance Sansome Afton Sather-Knutsen Peder Sather-Knutsen Thomas Schuster Rita Tonkinson Ted Tonkinson Donald Tregilgas

INTRODUCTION

Biology

The Minnesota dwarf trout lily (<u>Erythronium propullans</u>) is a member of the lily family endemic to Minnesota. Its presently known range is restricted to the valleys of the Cannon and Zumbro Rivers and their tributaries in Rice and Goodhue Counties. The species has a unique life cycle in which only a small proportion of individuals in a colony flower in any given year. Flowers rarely, if ever, set seed (Banks, 1980). Instead the species is proliferated by formation of a single offshoot bulb, formed only on flowering individuals (Morley, 1978). As a result of this vegetative mode of reproduction <u>Erythronium propullans</u> is usually found in circular colonies or clones, which may vary in size from a few square centimeters to tens of meters and in numbers of plants from a few individuals to hundreds of plants. The major means of dispersal is believed to be transport by flood waters. Plants in sterile condition are indistinguishable from the common sympatric white trout lily <u>(Erythronium albidum</u>), with which the species is often found.

Background of cooperative projects

As of 1990,11 of the 34 known Dwarf trout lily populations were protected within preserves, parks, and nature centers. In addition to this protection, the Minnesota Chapter of The Nature Conservancy has enrolled an additional 11 private landowners in their voluntary Registry Program (Table 1). From 1986 to 1990 the Minnesota Natural Heritage Program and the Minnesota Chapter of The Nature Conservancy jointly planned and implemented inventory and monitoring programs for the Dwarf trout lily.

In 1988 representatives of the Minnesota Department of Agriculture, the U.S. Fish and Wildlife Service, the Minnesota Chapter of The Nature Conservancy, and the Minnesota Natural Heritage Program met to develop a plan for state implementation of EPA pesticide control regulations for federally endangered species (FIFRA, 7 U.S.C.). As a result of this meeting the Minnesota Department of Agriculture and the U.S. Fish and Wildlife Service have initiated a voluntary pesticide agreement program. Private owners of federal endangered species are invited to enter into voluntary pesticide protection agreements and to adhere to the requirements of mutually acceptable pesticide practice plans prepared by the Minnesota Department of Agriculture. The Minnesota Natural Heritage Program's role in this project is to consult with Agriculture personnel and landowners regarding the specific location of plants and any biological issues that may arise with respect to the agreements.

Monitoring approaches

Three approaches to monitoring have been tested by the Minnesota Natural Heritage Program over the last five years in an effort to determine the degree of monitoring necessary to serve as an "early warning" system and to develop practical techniques of mapping and censusing. Efforts have been made to track the status of Minnesota dwarf trout lily populations at the population level, the colony level and the level of the individual plant. Each of these methods has its shortcomings but it appears that monitoring at the level of the colony is both the most feasible and the most useful (Smith, 1988).

INVENTORY

Complete knowledge of known sites is the essential basis for all other recovery efforts. The serendipitous discovery of 2 new populations in 1989 led the Minnesota Natural Heritage Program to reconsider our belief that most extant populations were known and to expand systematic search efforts in 1990. These efforts were coordinated with the newly initiated Rice and Goodhue County Biological Surveys and with the Minnesota Chapter of The Nature Conservancy.

Methods

Potential sites were identified on topographic maps by staff botanists and confirmed by County Biological Survey Ecologists from aerial photography. In preparation for the joint effort, one hundred and fifty one landowners were contacted by staff of the Minnesota Chapter of The Nature Conservancy for permission to search their lands. During the 3 1/2 week field season, 15 sites were searched by crews consisting of one or more natural resource professionals (DNR botanists, Biological Survey ecologists, or TNC staff) and up to 10 lay volunteers. Table 2 is a list of all sites visited during the 1990 season. Sites where Erythronium propullans was found are noted with an asterisk. Emphasis was placed on searching sites adjacent to known populations in order to provide the Minnesota Department of Agriculture the most complete possible information on privately-owned populations within the core of the species' range. For this reason, several high potential areas farther afield were deferred to the 1991 season. At each site where Dwarf trout lilies were found, the external boundaries of colonies were flagged and their location mapped on topographic maps. In each case, landowners were advised of the presence of plants by means of followup letters from The Nature Conservancy, accompanied by a nine page color booklet (Sather, 1990).

Results

As a result of these efforts the known distribution of <u>Erythronium</u> <u>propullans</u> was more accurately mapped at Rice County Wilderness Park and 12 new element occurrences were found. The most important of these occurrences is a new disjunct location on the North Fork of the Zumbro River, approximately 8 miles downstream from the occurrence at Grace Nature Preserve, and 7 miles upstream of the (believed extirpated) historical occurrence at Zumbrota. A population of over 3000 plants in 3 large aggregates of discontinuous colonies, was found growing with the state special concern species Snow Trillium (<u>Trillium</u> <u>nivale</u>) on floodplains and slopes south of the Zumbro River. <u>Napaea dioica</u> or glade mallow, a federal candidate species, and ginseng (<u>Panax quinquefolium</u>) are also present within the Biological Survey's site boundaries. Because of the importance of these four species and the high quality of its forest communities this site has been nominated and approved for acquisition as a State Scientific and Natural Area. Appendix 1 is the County Biological Survey's Project Evaluation package for this site.

Appendix 2 is a printout of <u>Erythronium propullans</u> element occurrence records in the Minnesota Natural Heritage Program database as of the end of the 1990 field season.

Monitoring at the population level simply means revisiting known sites from year to year to confirm that populations remain undisturbed. All sites owned by The Nature Conservancy have been monitored at this level by their rare plant intern for the past several years. However, on private lands where colonies could be destroyed, this level of monitoring can only provide a post mortem. In an area such as Rice and Goodhue Counties, where levels of residential development are rapidly increasing, any benefits that could ensue from this level of monitoring could better be obtained through active ongoing landowner contact, to assure advance knowledge of proposed changes in land use.

Monitoring of individual plants of any species requires a complete census of individuals to establish the baseline distribution of the population, followed by random selection of plots for permanent sampling. Repeated sampling of individual <u>Erythronium propullans</u> plants is constrained by the fact that the same plants can re-emerge in consecutive years at distances as far as 13.5 cm. from their previous point of emergence (Morley, 1982). Efforts to "match" individual plants from two consecutive years' sampling have generated a success rate of only about 3% (Smith, 1988).

Counts of flowering individuals at Nerstrand Woods State Park from 1986 to 1990 have shown that the number of flowering plants can vary enormously from year to year and does not appear to exhibit a pattern of short-term periodicity (Smith, 1989,1990). Despite the variation in numbers of plants, the general location and extent of observed colonies remained dependable from year to year.

In an effort more accurately to document colony locations, the Minnesota Natural Heritage Program began in 1987 to survey and map colonies within 10 or 20 meter grids. Grids were completed at Grace Nature Preserve in 1987 and 1988 and at Riverbend Nature Center in 1988, 1989 and 1990. The use of systematic grids has greatly facilitated accurate location of colonies, which may be especially useful at sites where trail development or other avoidable impacts could destroy colonies. This method of surveying and mapping lends itself well to the use of lay volunteers for searching. Crews of several volunteers walking at 2 meter intervals search each 20x20 meter block, leaving flags to delimit the external boundaries of colonies. Staff botanists follow the search crews accurately mapping the colonies on a base map. The shortcoming of this method is the effort required to survey the grids. Grid preparation requires a committment of long-term cooperation from the landowner, who must be willing to allow brush removal for transit lines and placement of permanent markers; the participation of a trained surveyor; and the commitment of approximately 2 field weeks of a 3 person survey crew each year before the flowering season.

STUDY OBJECTIVES

The objectives of Minnesota's 1990 recovery efforts for the Minnesota dwarf trout lily were fourfold: 1) To provide the colony count data necessary to measure progress toward the Recovery Plan (USFWS,1987) objective of protecting 500 colonies in at least 15 sites throughout the species'range; to provide the service of a botanist to assist 2) landowners and 3) the Minnesota Department of Agriculture in developing site specific landowner pesticide protection agreements, and 4) to produce a brochure that describes the significance, life history, habitat, and protection needs of <u>Erythronium</u> <u>propullans</u>.

CENSUS AT NERSTRAND WOODS STATE PARK

1990 was the fifth year of a meter-by-meter census of flowering plants at Nerstrand Woods State Park. The project was established in 1986 to determine the range of variability in numbers of flowering plants and reliability of colony locations from year to year, the recovery of plants impacted by trail development and the effectiveness of rip-rapping installed to halt erosional loss of plants into Prairie Creek.

Methods

In 1986 the major population within the park was surveyed and a map generated with a one foot contour interval. A permanent grid of 60 contiguous 100 square meter blocks was established in the population. Within this area a team of 1 or more DNR botanists and up to ten lay volunteers have annually searched each block, counting the number of flowering plants in each square meter and mapping the boundaries of colonies.

Results

Figure 4 summarizes annual fluctuations in the number of flowering plants within the 29 one hundred square meter plots that have been consistently monitored each year. Figure 2 shows the 1990 distribution and density of flowering plants within the Nerstrand Woods State Park population.

SURVEYING AND COLONY MAPPING

Surveying and mapping of the Riverbend Nature Center was begun in 1988, with the anticipation that information on colony location will serve as the basis for planning future trail improvements and physical alterations at this important site.

Methods

Standard survey methods were used to survey a baseline and grid of 30x30 meter blocks to be used as a refernce for mapping the location of all colonies. The study area lies within the loop of a large interpretative trail system which transects potential habitat at several places. A baseline and 28 30 x 30 meter blocks were established in 1988. By the end of the 1989 field season 123 colonies had been mapped within a 54,000 square meter area consisting of sixty 900 square meter blocks. During the 1990 season, 12 new 30x30 meter blocks were surveyed to extend the grid system across these trails to the Straight River. These new blocks and all remaining previously surveyed blocks were searched and mapped in 1990.

Results

Three new colonies were located as shown on Map 3, which supplements Appendix 2 of the 1989 report (Smith, 1989).

LANDOWNER CONTACT CONSULTATION WITH MINNESOTA DEPARTMENT OF AGRICULTURE AND OTHER COOPERATIVE PROJECTS

Because the Department of Agriculture did not have an employee actively working on endangered species landowner pesticide agreements during the <u>Erythronium</u> blooming period, little time was spent in consultation during the field season. However, outgoing Agriculture Department personnel met with Natural Heritage Program and The Nature Conservancy staff to establish priority search areas for the 1990 season. The needs of the MDA program were foremost in the decision to focus searches within the area of concentration of presently-known populations. Continuity of contact between cooperating agencies and institutions was enhanced by the fact that that The Nature Conservancy's Registry Intern, who was responsible the landowner contact and followup for the 1990 searches, joined the staff of the Department of Agriculture in June, 1990. The Department of Agriculture has been the main user of the full-color 9 page educational booklet on the Minnesota dwarf trout lily prepared by Natural Heritage Program staff (Sather, 1990).

The 1990 field season was inaugurated with an informational event, the Spring Fling, conductied to increase public awareness of the initiation of County Biological Inventory surveys in Rice and Goodhue Counties and the release of a 9 page, full color booklet on the Dwarf trout lily (Sather, 1990). Over 100 people attended this day-long series of brief presentations, field trips and organized trout-lily searches at Rice County Wilderness Park. This park was chosen for the event because its system of trails allowed for interpretative hikes for participants not able to join in the search effort and its large area of potential habitat was known to include a small population of <u>Erythronium</u> <u>propullans</u>, discovered at the end of the 1989 season.

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- Figure 2. Distribution and density of <u>Erythronium propullans</u> at Nerstrand Woods State Park, 1990.
- Figure 3. Location of <u>Erythronium propullans</u> colonies within 1990 survey blocks at the Riverbend Nature Center
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APPENDICES

- Appendix 1. Project evaluation for North Fork Zumbro Woods proposed Scientific and Natural Area
- Appendix 2. 1990 status of <u>Erythronium propullans</u> populations as documented by element occurrence records in the Minnesota Natural Heritage Program database.

TABLE 1. ERYTHRONIUM PROPULLANSELEMENT OCCURRENCE RECORDSENROLLED IN THE NATURE CONSERVANCY'S REGISTRY PROGRAM

Element occurrence	Owner
1	Busch
6	Haaland
12	Crane Creek Aggregates
13	Robinson
14	Martineau
15	Schroeder, Tostrude
16	Hollerud
25	Robinson
27	Bachrach
28	Holmblad
33	Osmundson

TABLE 2. AREAS SEARCHED FOR ERYTHRONIUM PROPULLANS IN 1990**

County	CBS site #	Legal description	Survey date
*Rice	32	N1/2 Sec.34,T111N,R20W	4/28/90, 4/30/90
*Rice	45	W1/2 Sec.33,T110N,R20W	4/27/90
Rice	45	SWSE Sec.33,T110N,R20W	4/27/90
*Rice	45	S1/2SW Sec.33,T110N,R20W & NW Sec.4,T109N,R20W	5/4/90
*Rice	44	E1/2 Sec.17 & NWSW Sec.16 & SWNW Sec.16,T110N,R20W	4/23/90,4/25/90
*Rice	44	E1/2 Sec.8, T110N,R20W	4/25/90
*Rice	32	NENE Sec.4 & NWNW Sec.3, T110N,R20W & SWSW Sec.34, T111N,R20W	4/27/90,4/28/90
*Rice	42	SESE Sec.8 & NENE Sec.17, T110N,R19W	4/26/90,4/30/90
*Rice	42	W1/2W1/2NW Sec.10 & S1/2SW Sec.3, T110N,R19W	4/30/90,5/3/90
Rice	no #	SWSW Sec.34,T111N,R19W	5/3/90
Rice	43	N1/2NW & SWNE & ESE Sec.l & N1/2NE & SENW Sec.12, T110N,R19W	4/26/90
Rice	39	W1/2 & NE1/4 Sec. 26, T111N,R19W	5/4/90
Goodhue	227	S1/2SW & SWSE, Sec.7, T109N,R18W & SE Sec.12, T109N,R19W	5/2/90
*Goodhue	177	N1/2NW & NWNWNE Sec.33 & SWSE Sec.28,T110N,R17W	5/1/90
*Goodhue	210	S1/2NW Sec.6,T111N,R17W	5/4/90

**Search areas were defined as areas of contiguous potential habitat, regardless of owner. More than one new population was found within some of these areas. If there was more than one landowner, each ownership was logged in the Heritage database as a separate element occurrence.

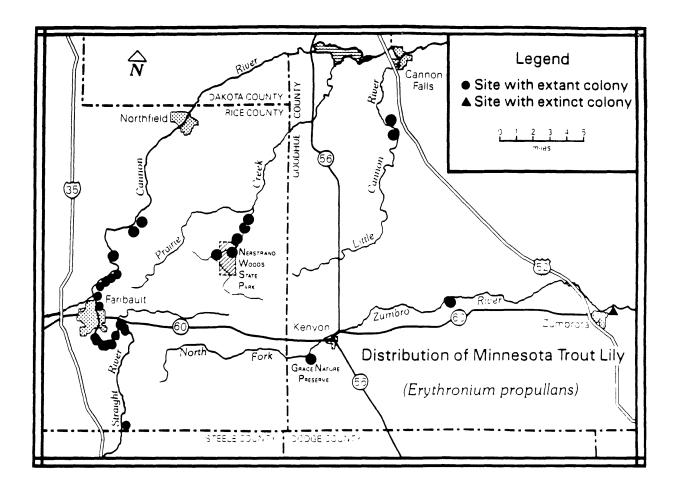
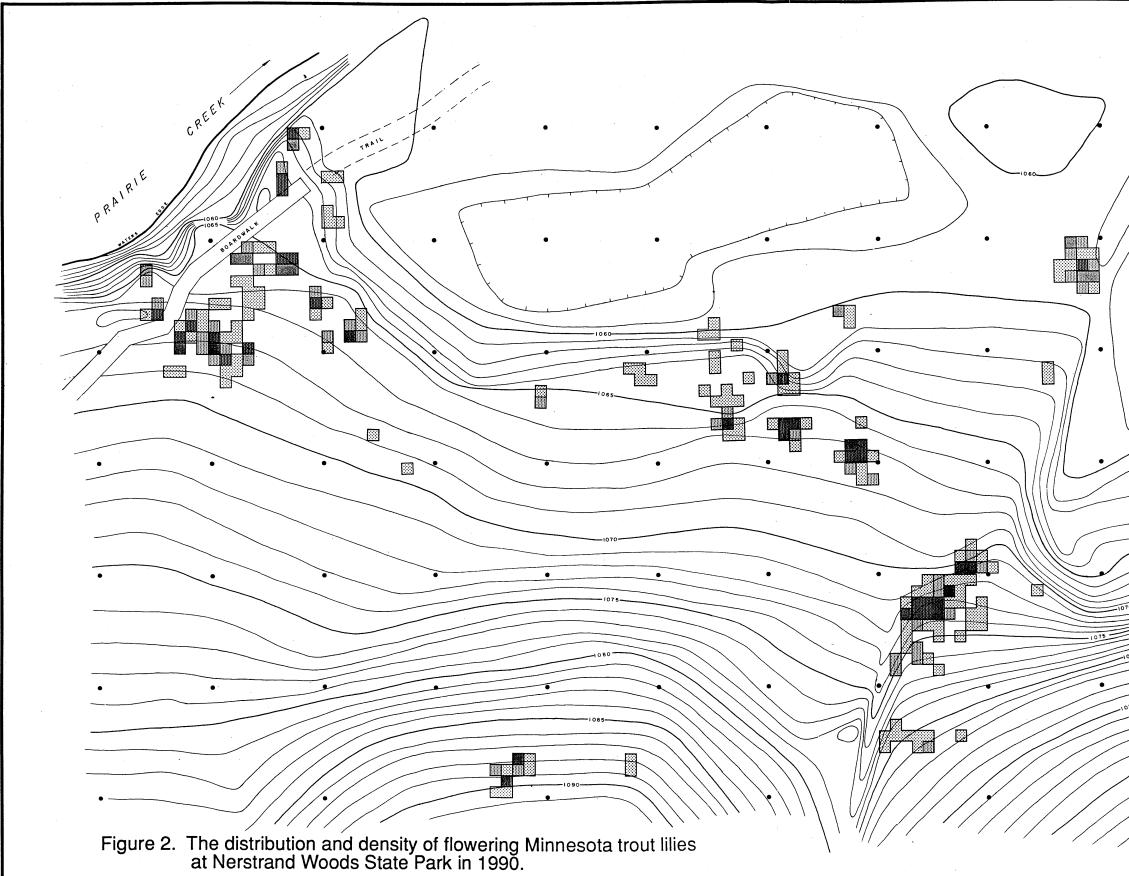
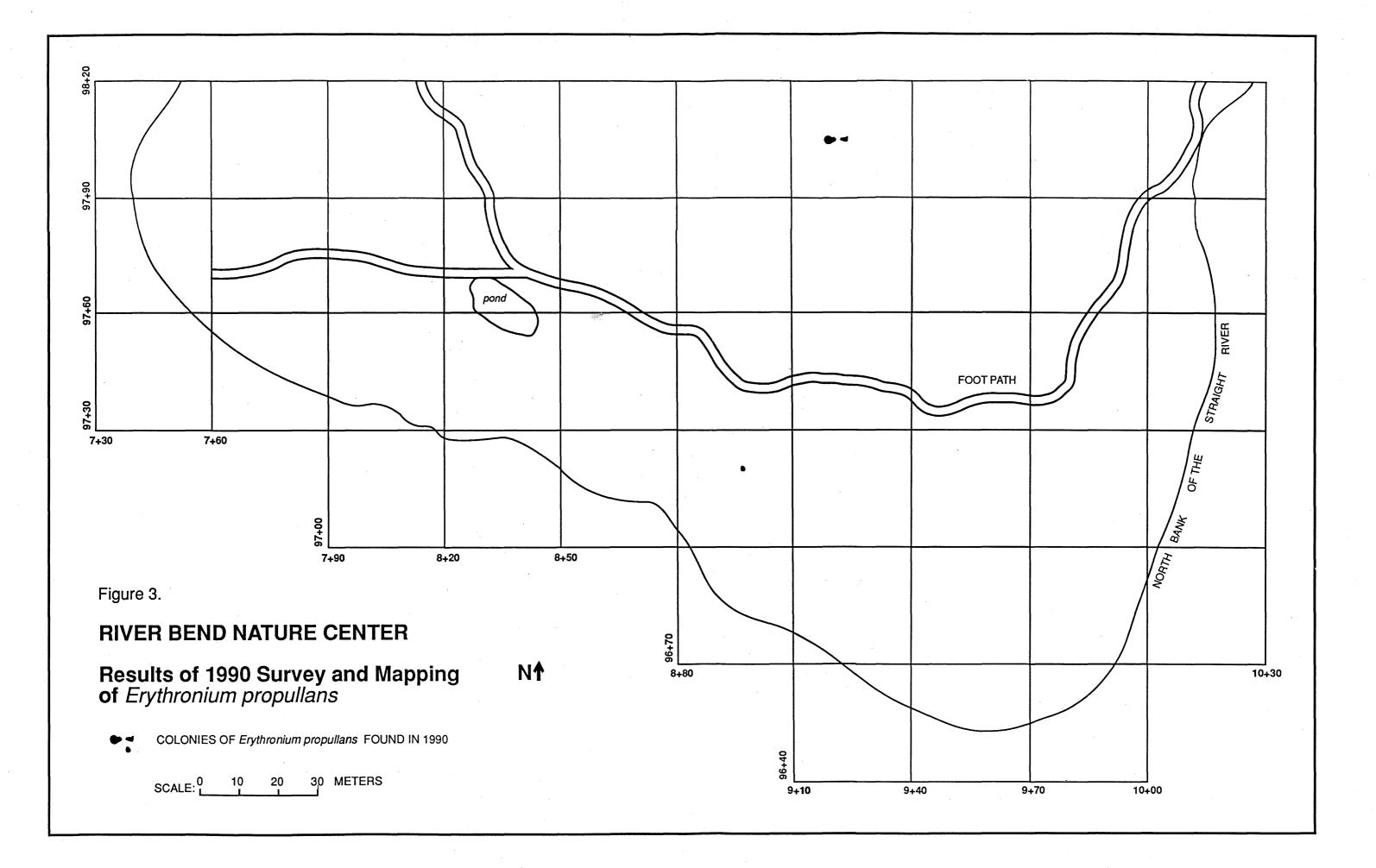


Figure 1. The distribution of the Minnesota trout lily (Erythronium propullans).



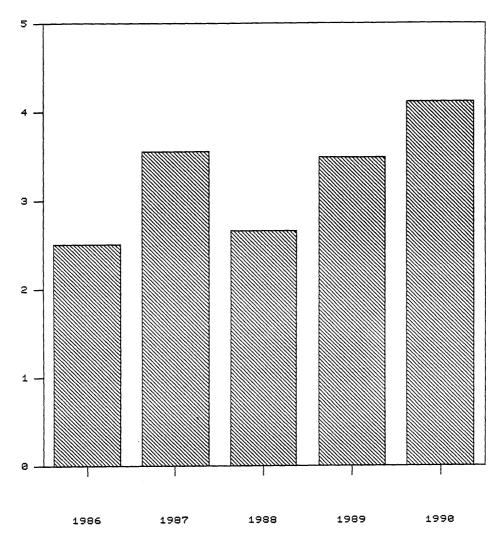
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	+
	Density of Flowering
	Erythronium propullans
•	per square meter
	🖾 1 - 5 plants
	🕅 6 - 12 plants
	🖾 13 - 20 plants
	21 or more plants
90	
•	
	5 0 5 10 2 SCALE N METERS
	• 3/4" x 24" IRON ROD SET
	NOTE CONTOUR ELEVATIONS ARE SHOWN IN FEET



ERYTHRONIUM PROPULLANS

NERSTRAND WOODS STATE PARK



NUMBER OF FLOWERING PLANTS (Thousands)

YEARS

NATURAL HERITAGE PROGRAM PROJECT EVALUATION

NAME OF PROJECT:	North Fork Zumbro Woods	_ COUNTY: Good	<u>hue</u>
LANDSCAPE REGION: _	Southern Oak Barrens	DNR QUAD CODE:	<u>9134</u>
LEGAL DESCRIPTION:	T110N, R17W, S27, E28, NW33		
CURRENT PROTECTION S	TATUS: Unprotected		
RECOMMENDED PROTECTI	ON STATUS:		
APPROXIMATE ACREAGE:	450 acres OWNERSHIP:	Private	
ADMINISTRATIVE ACTION	N :		

ECOLOGICAL SIGNIFICANCE OF PROJECT AREA

The following elements occur at the site: 3 natural communities - Maple-Basswood Forest (Driftless Section), Floodplain Forest, and Lowland Hardwood Forest; 4 rare plants: Erythronium propullans (Minnesota dwarf trout lily), Napaea dioica (glade mallow), Trillium nivale (snow trillium), and Panax quinquefolium (ginseng); and a nesting colony of great blue herons (present level of activity undetermined).

The site is in the Harmony-Plainview Uplands Geomorphic Region, which consists of a gently rolling loess-mantled plateau dissected by several rivers. It occupies silt loams on gentle to steep north to northwest facing slopes above the North Fork of the Zumbro River and a small area of the river's floodplain.

The Erythronium propullans population, discovered in 1990, is only the second known population in the Zumbro River watershed (the first is in the Grace Nature Conservancy Preserve). It is a large population consisting of 3 large aggregates of many smaller colonies, with a total of over 3,000 plants. The colonies occur in Lowland Hardwood Forest close to the river, and on steep, northwest slopes in Maple Basswood Forest.

Napaea dioica occurs in the Floodplain Forest on both banks of the Zumbro River. Known from only 13 other locations in Minnesota, this is a significant occurrence. Thirty-five plants were found during a brief search; it is likely there are others.

Trillium nivale occurs in Lowland Hardwood Forest with one of the E. propullans aggregates. Two small populations were found. This is one of the 3 known Goodhue county occurrences for this species; all 3 are on the banks of the Zumbro River.

One plant of *Panax quinquefolium* was seen in an upland forest location; it is likely that more occur in the site. Twelve other occurrences are known in Goodhue county, all small populations of one to 16 plants. The following valeroiri desting site was last icolmented to be active in 1969, and according to local residents, was active in 1968 as well. There were an estimated 10 great blue heron nests in the Maple-Basswood Forest in 1985; the colony was not located in a brief 1990 search, but may still be active. There is one other colonial waterbird nesting site in Goodhue county, in the Cannon River Bottoms.

The Maple-Basswood Forest is significant due to a) its size (approximately 380 acres), b) its diverse spring ephemeral herb layer, and c) the quality of a portion of the site that contains old second-growth B-rank forest showing few signs of disturbance. Some portions of the forest have been selectively cut 5 or more years ago; quality of these tracts varies.

The Floodplain Forest is a small tract, but exhibits little unnatural disturbance and a relatively diverse herb layer. It grades into the slightly drier Lowland Hardwood Forest, dominated by bur oak, basswood, black ash, and box elder. Both these communities are relatively rare in the county as well as in the state as a whole.

The protection of this site may be difficult due to its ownership by at least 25 different landowners. Though some of the upland forest has been recently selectively cut, those tracts should be included in the preserve design as buffer areas that can be expected to eventually recover to a native maple-basswood community.

The Natural Heritage Program recommends that this site be protected as a Scientific and Natural Area. Heavy logging pressure in the area may be an immediate threat to the integrity of the site; thus quick conservation action would preclude its destruction.

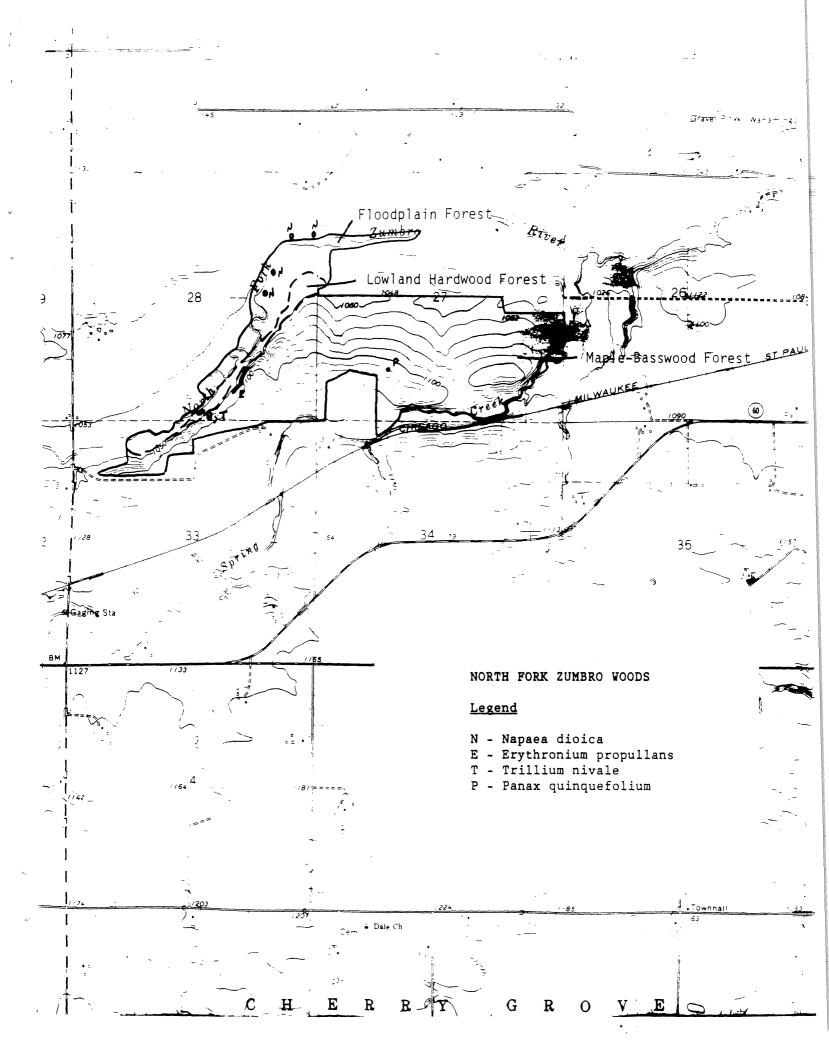
INFORMATION SOURCES

Hannah Dunevitz, MCBS Nancy Sather, Natural Heritage Program Barbara Delaney, MCBS Mary Miller, Nongame Wildlife Program

ELEMENT SUMMARY

Name	Rank	<u>Occurrence</u> <u>Rank</u>	<u>Number of</u> <u>statewide</u> <u>element</u> occurrences	eo's in Southern Oak Barrens landscape Region
Erythronium propullans	S1	AB	34	28
Napaea dioic a	S1	BC	14	14
Trillium nivale	S 3	С	20	8
Panax quinquefolium	S 3	CD	54	17
Maple Basswood Forest (Driftless Section)	S 3	BC	33	24
Floodplain Forest	S3S4	BC	42	16
Lowland Hardwood Forest		С	3	1
Colonial Waterbird Nesting Site			7 + 7	25

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Appendix 2.

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Minn. Dept. of Nat. Resources/Wildlife Section ERYTHRONIUM PROPULLANS IN MINNESOTA

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COUNTYNAME	TWP R	ING SECTION	SITENAME	OWNER	YEAR	OCCURNO
GOODHUE	T109N R	15W NWNW31			1892	20
GOODHUE	T109N R	R18W SWSW07	KENYON 7	TNC	1978	7
GOODHUE	T110N R	R17W SWSE28	NORTH FORK ZUMBRO WOODS	JOHN WESWIG, BOYUM FARMS	1990	26
GOODHUE	T111N R	R17W NWNW06			1978	13
GOODHUE	T111N R	R17W SENW06	ROBINSON WOODS	ROBINSON, G.	1990	25
RICE	T109N R	R2OW NESE06	STRAIGHT RIVER WILDFLOWER PRESERVE	BUSCH	1990	1
RICE	T109N R	20W SWSW05	STRAIGHT RIVER WILDFLOWER PRESERVE	TNC	1978	2
RICE	T109N R	20W SESE05	STRAIGHT RIVER WILDFLOWER PRESERVE	TNC	1983	11
RICE	T109N R	R20W SESW33	WALCOTT 33	MARTINEAU, P.	1964	14
RICE	T109N F	R20W NWSWSW	STRAIGHT RIVER WILDFLOWER PRESERVE	SCHROEDER; TOSTRUDE	1990	15
RICE	T109N F	R20W SWSE05	STRAIGHT RIVER WILDFLOWER PRESERVE	STATE OF MINNESOTA	1983	16
RICE	T109N F	R20W NWSW04	STRAIGHT RIVER WILDFLOWER PRESERVE	STATE OF MINNESOTA	1978	17
RICE	T109N F	R20W NENW08	STRAIGHT RIVER WILDFLOWER PRESERVE	STATE OF MINNESOTA	1978	18
RICE	T109N F	R2OW SENWO4	STRAIGHT RIVER WILDFLOWER PRESERVE	HOLMBLAD	1990	28
RICE		R19W NESE09		DNR PARKS	1978	8
RICE		R19W SESESE04	NERSTRAND WOODS	HOLLERUD, OVE N.	1986	19
RICE		R19W NWNW10		OSMUNDSON, M., BONDE, E.	1990	31
RICE		R19W SESWSW03	NERSTRAND WOODS		1990	32
RICE	T110N H	R19W SWNW10	NERSTRAND WOODS	OSMUNDSON, MILDRED	1990	33
RICE		R19W NESESEO8		NEWPORT, T; SCHWARTZ; FJELSTAD	1990	34
RICE		R2OW NENE31		ST MARY'S-SHATTUCK SCHOOL	1978	3
RICE		R2OW SWNW29		ST MARY'S-SHATTUCK SCHOOL	1978	4
RICE		R2OW NESE19		TNC	1978	5
RICE		R20W SWNW20		HAALAND, P.	1961	6
RICE		R20W SWSW16		BORGSTAHL,D.	1978	9
RICE		R2OW SESE17		BORGSTAHL,D.	1978	10
RICE		R2OW SESW33		HAMMEL, D; CRANE CREEK ASPHLT		12
RICE		R2OW SESE08		DNR SNA	1989	24
RICE		R20W NWSESW16	TROUT LILY PRESERVE	DNR SNA	1989	23
RICE		R20W NWSW16	TROUT LILY PRESERVE	DNR SNA	1990	22
RICE		R2OW SWSW33	STRAIGHT RIVER WILDFLOWER PRESERVE	JAMES BACHRACH	1990	27
RICE		R2OW NENE17	TROUT LILY PRESERVE	TERSTEEG, DANIEL	1990	29
RICE			CANNON RIVER WILDERNESS AREA	RICE COUNTY PARKS; L. HOBAN	1989	21
RICE	T111N 1	R20W OWSW34	CANNON RIVER WILDERNESS AREA	RICE COUNTY, W. PLESCHOURT	1990	30

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #1 Federal Status: ENDANGERED State State Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record	us: ENDANGERED CBS Site #: 45	LOCATION: RICE County, MN Legal : T109N R20W NESE06 Region: 5 Quad Map: FARIBAULT (U16D) Latitude: 44 16' 26" Long: 93 15' 53" Precision: within 0.25 mile, confirmed
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 1 sight rec. Date of Information: 27 April 1990 Record Updated: 12/26/1990 Map Margin #: 22 EO Rank: Voucher: Source: ANDERSON,C.(SIGHT RECORD) REMARKS: APPROXIMATELY 73 COLONIES ON PORTIONS OF BUSCH AND TOSTRUDE SEARCH COVERED NORTH-FACING SLOPE ALONG BUSCH TRACT'S SOUTH BELOW BUSCH HOUSE AND CONTINUING EAST TO BOUNDARY WITH TOST : MORLEY,T.(1978) 2 COLONIES AT FOOT OF A STEEP NORTH-FACIN PART OF A SUBDIVISION NESE6 T109N R20W NO SPECIMEN.	BOUNDARY BEGINNING RUDE. PREVIOUS RECORD	TNC RECORD: Code: PMLILOUODO Global Rank: Gl State Rank: Sl Current Status: 2 Intended Status: 8
	us: ENDANGERED	LOCATION: RICE County, MN Legal : T109N R20W SWSW05 Region: 5
Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE OWNERSHIP : The Nature Conservancy MANAGED AREA(s): RIVER BEND NATURE CENTER	CBS Site #: 45	Quad Map: FARIBAULT (U16D) Latitude: 44 16' 23" Long: 93 15' 42" Precision: within 0.25 mile, confirmed
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 2 verified Date of Information: May 1978 Record Updated: 12/26/1990 Map Margin #: 0 EO Rank: B Voucher: Source: MORLEY,T. REMARKS: 3 COLONIES AT FOOT OF STEEP N-FACING SLOPE. OWNED BY TNC (W	Collection #:	TNC RECORD: Code: PMLILOUODO Global Rank: G1 State Rank: S1 Current Status: 8 Intended Status: 9
LEASED TO THE CITY OF FARIBAULT. COLONIES NOT RELOCATED IN ALONG WITH COLONIES IN NESE SECTION 6, (OCCURRENCE #1), A HAVE BEEN REPORTED FOR THIS CONTINUOUS SLOPE. SWSW 05 T109N	1984 AND 1985. TOTAL OF 18 COLONIES	
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #3		LOCATION: RICE County, MN
	cus: ENDANGERED	Legal : T110N R20W NENE31 Region: 5
Landscape Region: BIG WOODS SITE : TROUT LILY PRESERVE OWNERSHIP : Private Ownership	CBS Site #: 44	Quad Map: FARIBAULT (U16D) Latitude: 44 17' 48" Long: 93 15' 46" Precision: within 0.25 mile, confirmed
MANAGED AREA(s): not managed or no recordOCCURRENCE RECORD:Code: GT.BC5Occurrence #:3 verifiedDate of Information:May 1978Map Margin #:0EO Rank:Voucher:	EO Size: 0 # of Archived Records: 1 Collection #:	TNC RECORD:Code: PMLILOU0D0Global Rank: G1State Rank: S1Current Status: 1Intended Status: 7
Source: MORLEY,T. REMARKS: 2 COLONIES HERE. TYPE LOCALITY, PREV COLL: ROSENDAHL, MOYLE ORWIG, 1944. BEANE (NO DATE, PRE-1900). T110N R20W, NENENE		

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #4		LOCATION: RICE Coun	ty, MN
Federal Status: ENDANGERED State State	us: ENDANGERED	Legal : T110N R20	W SWNW29 Region: 5
Landscape Region: BIG WOODS		Quad Map: FARIBAULT	(U16D)
SITE : TROUT LILY PRESERVE	CBS Site #: 44	Latitude: 44 18' 25	" Long: 93 15' 34"
OWNERSHIP : Private Ownership		Precision: within 0	.25 mile, confirmed
MANAGED AREA(s): not managed or no record			
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 4 verified	EO Size: O	TNC RECORD:	Code: PMLILOUODO
Date of Information: May 1978 Record Updated: 12/26/1990	# of Archived Records: 1	Global Rank: Gl	State Rank: S1
Map Margin #: 0 EO Rank: Voucher:	Collection #:	Current Status: 1	Intended Status: 7
Source: MORLEY, T.			
REMARKS: 15 COLONIES HERE. NO SPECIMEN. T110N R20W, SWNW SEC 29.			

LOCATION: RICE County, MN ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #5 Legal : T110N R20W NESE19 Federal Status: ENDANGERED State Status: ENDANGERED Region: 5 Quad Map: FARIBAULT (U16D) Landscape Region: BIG WOODS Latitude: 44 19' 2" Long: 93 15' 50" : TROUT LILY PRESERVE SITE CBS Site #: 44 OWNERSHIP : The Nature Conservancy Precision: within 0.25 mile, confirmed MANAGED AREA(s): TROUT LILY PRESERVE OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 5 verified EO Size: 0 TNC RECORD: Code: PMLILOUODO Date of Information: May 1978 Record Updated: 12/26/1990 # of Archived Records: 1 Global Rank: G1 State Rank: S1 Map Margin #: 0 EO Rank: A Voucher: Collection #: Current Status: 9? Intended Status: 9 Source: MORLEY, T. REMARKS: 110 COLONIES HERE. T110N R20W, NESE SEC 19. NO SPECIMEN.

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #6		LOCATION: RICE Coun	ty, MN
Federal Status: ENDANGERED State Stat	us: ENDANGERED	Legal : T110N R20	W SWNW20 Region: 5
Landscape Region: BIG WOODS		Quad Map: FARIBAULT	(U16D)
SITE : TROUT LILY PRESERVE	CBS Site #: 44	Latitude: 44 19' 17	" Long: 93 15' 39"
OWNERSHIP : Private Ownership		Precision: within 0	.25 mile, confirmed
MANAGED AREA(s): not managed or no record			
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 6 verified	EO Size: O	TNC RECORD:	Code: PMLIL0U0D0
Date of Information: 14 May 1961 Record Updated: 12/26/1990	# of Archived Records: 1	Global Rank: Gl	State Rank: Sl
Map Margin #: 0 EO Rank: Voucher: 570350 MIN	Collection #: 960	Current Status: 2	Intended Status: 89
Source: MORLEY, T. (960)			
REMARKS: 3 COLONIES ON GENTLE N-FACING SLOPE IN FOREST WITH E. ALBII	DUM; T110N R2OW, SWNW		
SEC 20. 3 COLONIES IN NENE SEC 20. CONFIRMED BY MORLEY 5-79) .		

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #7 Federal Status: ENDANGERED State Sta	tus: ENDANGERED	LOCATION: GOODHUE Cou Legal : T109N R18W Quad Map: NERSTRAND (SWSW07 Region: 5
SITE : KENYON 7	CBS Site #: 227	Latitude: 44 15' 28"	Ş
OWNERSHIP : The Nature Conservancy MANAGED AREA(s): GRACE NATURE PRESERVE		Precision: within 0.2	25 mile, confirmed
	EO Size: O	TNC RECORD:	Code: PMLILOUODO
Date of Information: May 1978 Record Updated: 02/22/1991			State Rank: S1
Map Margin #: 4 EO Rank: B Voucher: Source: MORLEY, T.	Collection #:	Current Status: 8	Intended Status: 9
REMARKS: 54 COLONIES IN ALLUVIAL FOREST ALONG NORTH BRANCH ZUMBRO R	IVER. PREV COLL:		
BORCHARD, 1941, "KENYON"; ROSENDAHL(7722), 1945, "IN PASTURE			
1.5 MI W OF KENYON, SE SEC 7, KENYON TWP."; MOORE & HUFF(1 COLONIES CONFIRMED BY M. LOESCHKE MAY 14, 1984. COLONIES R			
MINED TO BE DOING WELL BY C. ANDERSON MAY 3, 1990.	ELOCATED AND DETER-		
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #8		LOCATION: RICE County	7. MN
Federal Status: ENDANGERED State Sta	tus: ENDANGERED	Legal : TilON R19W	NESE09 Region: 5
Landscape Region: SOUTHERN OAK BARRENS		Quad Map: NERSTRAND	
SITE : NERSTRAND WOODS	CBS Site #: 42	Latitude: 44 20' 45"	Ū.
OWNERSHIP : MN DNR Parks and Recreation		Precision: within 0.2	25 mile, confirmed
MANAGED AREA(s): NERSTRAND WOODS STATE PARK			

MANAGED ARE	A(s): NER	STRAND WOODS S	STATE PARK					
OCCURRENCE	RECORD :	Code: GT.BC5	Occurrence #:	7 8	verified	EO Size: O		
Date of Inf	ormation:	May 1978	Record U	pdated:	12/26/1990	# of Archive	ed Records:	1
Map Margin	!: 0	EO Rank:	Voucher:	NONE		Collection 🕯	¥:	
Source: SM	LTH,W.R.							
REMARKS: SE	VERAL COL	ONIES COMPRIS	ING 1684 PLANTS	IN ALLU	JVIAL FOREST	ON S BANK OF	PRAIRIE	
CR	EEK. NESE	09 T110N R19W	(SIGHT RECORD,	POPULA	FION MONITORE	D BY MDNR)		

TNC RECORD:	Code: PMLILOUODO
Global Rank: Gl	State Rank: Sl
Current Status: 1	Intended Status: 69

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BY TNC FOR ACQUISITION FOR LEASE TO SNA, SPRING 1986.

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #10 Federal Status: ENDANGERED State Status: ENDANGERED Landscape Region: BIG WOODS SITE : TROUT LILY PRESERVE CBS Site #: 44 OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 10 verified EO Size: 0 Date of Information: May 1978 Record Updated: 12/26/1990 # of Archived Records: Map Margin #: 0 EO Rank: Voucher: Collection #: Source: MORLEY,T. REMARKS: 79 COLONIES IN SESE SEC 17, STEEP NORTHWEST-FACING SLOPE AND ON THE NWESTERN- MOST SLOPE OF THE PROMONTORY FACING THE CANNON RIVER IN THE SE 1/4 OF THIS QUARTER SECTION. UNDER NEGOTIATION FOR ACQUISITION BY TNC SPRING 1986 WITH FOTENTIAL DESIGNATION AS AN SNA.	Le Qu La Pr Ti 1 G	OCATION: RICE County egal : T110N R2OW uad Map: CANNON CITY atitude: 44 19' 42" recision: within 0.2 NC RECORD: lobal Rank: Gl urrent Status: 1	SESE17 Region: 5 (U17C) Long: 93 14' 32"
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #11 Federal Status: ENDANGERED State Status: ENDANGERED Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE CBS Site #: 45 OWNERSHIP : The Nature Conservancy MANAGED AREA(s): RIVER BEND NATURE CENTER OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 11 verified EO Size: 0 Date of Information: May 1983 Record Updated: 12/26/1990 # of Archived Records: Map Margin #: 0 EO Rank: B Voucher: Collection #: Source: SMITH,W.R. REMARKS: 116 COLONIES SCATTERED ALONG BASE OF N-FACING BLUFF IN SSE SEC 5, T109N R20W. (COUNT WAS MADE BY T.MORLEY IN 1979,AND MAY ALSO INCLUDE PLANTS IN TRACT OWNED BY STATE OF MINNESOTA.) THIS LOCATION IS KNOWN AS THE VAN ESCH TRACT AND IS LEASED BY THE NATURE CONSERVANCY TO RIVER BEND NATURE CENTER.	L Q L P T 1 G	OCATION: RICE County egal : T109N R2OW uad Map: CANNON CITT atitude: 44 16' 16" recision: within 0.2 NC RECORD: lobal Rank: G1 urrent Status: 8	SESE05 Region: 5 (U17C) Long: 93 14' 43"
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #12 Federal Status: ENDANGERED State Status: ENDANGERED Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE CBS Site #: 45 OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 12 sight rec. EO Size: 0 Date of Information: 4 May 1990 Record Updated: 08/13/1990 # of Archived Records: Map Margin #: 12 EO Rank: Voucher: Collection #: Source: SMITH,W.R. AND ANDERSON,C.(SIGHT RECORD) REMARKS: 1990 FIELD CHECK BY SMITH AND ANDERSON LOCATED 20 COLONIES BETWEEN QUARRY AND SO. BOUNDARY OF CRANE CREEK ASPHALT CO. PREVIOUS COLLECTION: MORLEY,T.(1978), 3 COLONIES SEEN ON THE FLOODPLAIN IN SHADE OF TREES AND SHRUBS. A COLONY JUST EAST OF THIS SITE WAS DESTROYED BY ROAD CONSTRUCTION. T110 R20W SESW33. NO SPECIMEN. THIS LOCATION IS KNOWN AS THE "ROAD CONSTRUCTION SITE". T110 R20W SESW33.	L Q L P T 1 G	OCATION: RICE County egal : T110N R20W had Map: CANNON CIT atitude: 44 17' 2" recision: within 0. NC RECORD: bobal Rank: G1 hurrent Status: 2	SESW33 Region: 5 Y (U17C) Long: 93 13' 55"

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #13		LOCATION: GOODHUE C	ounty, MN
Federal Status: ENDANGERED State State	cus: ENDANGERED	Legal : TillN R17	W NWNW06 Region: 5
Landscape Region: SOUTHERN OAK BARRENS		Quad Map: SOGN (U18	B)
SITE : ROBINSON WOODS	CBS Site #: 210	Latitude: 44 27' 9	" Long: 92 55' 0"
OWNERSHIP : Private Ownership		Precision: within 0	.25 mile, confirmed
MANAGED AREA(s): not managed or no record			
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 13 verified	EO Size: 0	TNC RECORD:	Code: PMLIL0U0D0
Date of Information: May 1978 Record Updated: 02/22/1991	<pre># of Archived Records: 1</pre>	Global Rank: Gl	State Rank: Sl
Map Margin #: 0 EO Rank: C Voucher:	Collection #:	Current Status: 2	Intended Status: 79
Source: MORLEY, T.			
REMARKS: 4 COLONIES IN FLOODPLAIN OF LITTLE CANNON RIVER. (PREV COLL: AITON 1895, "CANNON			
FALLS-LITTLE CANNON VALLEY-ALLUVIAL". BUTTERS & ROSENDAHL #3451, 1918, "RICH SOIL			
WOODED BOTTOMLAND". ROSENDAHL ET AL (2954) 1935, "SEC 6, 5 1	MI S OF CANNON FALLS")		

ELEMENT: ERYTHRONTUM PROPULLANS (DWARF TROUT LILY) #14 LOCATION: RICE County, MN Federal Status: ENDANGERED State Status: ENDANGERED Legal : T109N R20W SESW33 Landscape Region: BIG WOODS Quad Map: MEDFORD EAST (V17B) : WALCOTT 33 Latitude: 44 11' 50" Long: 93 14' 1" SITE CBS Site #: 85 : Private Ownership Precision: within 0.25 mile, confirmed OWNERSHIP MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 14 verified EO Size: 0 TNC RECORD: Code: PMLILOUODO Date of Information: May 1964 Record Updated: 12/26/1990 # of Archived Records: 1 State Rank: S1 Global Rank: G1 Voucher: 588239 MIN Map Margin #: 0 EO Rank: C Collection #: 1041 Current Status: 2 Intended Status: 29 Source: MORLEY, T. (1041) REMARKS: SMALL COLONY (2 COLONIES), MOSTLY ON N-FACING SIDE OF SHALLOW GULLY WHERE IT ENTERS THE FLOOD PLAIN ON THE E SIDE OF THE STRAIGHT RIVER, 100 YARDS N OF THE

EO Size: 0

Collection #:

of Archived Records: 2

STEELE CO. LINE. T109N R20W, SESW SEC 33. (SITE CONFIRMED BY T.M. 5-78.)

Voucher:

REMARKS: SEVERAL COLONIES LOCATED ON THE SLOPE AND INTO THE FLOODPLAIN ABOUT 40 METERS AT THE SOUTH END OF THE TOSTRUDE TRACT. PREVIOUS RECORD: LOESCHKE, M. (1984) SEVERAL COLONIES ON HILLSIDE JUST BELOW GARAGE OF SCHROEDER RESIDENCE, SW LOTS

Record Updated: 12/26/1990

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #15

: STRAIGHT RIVER WILDFLOWER PRESERVE

OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 15 sight rec.

6 AND 7, COUNTRYSIDE THIRD ADDITION, CITY OF FARIBAULT.

Federal Status: ENDANGERED

MANAGED AREA(s): not managed or no record

Date of Information: 5 May 1990

Source: ANDERSON, C. (SIGHT RECORD)

SITE

OWNERSHIP

Map Margin #: 24

Landscape Region: BIG WOODS

: Private Ownership

EO Rank: B

Region: 5

LOCATION: RICE County, MN State Status: ENDANGERED Legal : T109N R20W NWSWSW Region: 5 Quad Map: FARIBAULT (U16D) Latitude: 44 16' 19" Long: 93 15' 42" CBS Site #: 45 Precision: within 0.25 mile, confirmed

> TNC RECORD: Code: PMLIL0U0D0 Global Rank: Gl State Rank: S1 Current Status: 2 Intended Status: 8

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Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE OWNERSHIP : MN Department of Welfare MANAGED AREA(s): RIVER BEND NATURE CENTER OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 16 verified Date of Information: May 1983 Record Updated: 12/26/1990	ILT. PLANTS AT THIS	LOCATION: RICE County Legal : T109N R20W Quad Map: CANNON CITT Latitude: 44 16' 17" Precision: within 0.2 TNC RECORD: Global Rank: G1 Current Status: 1	SWSE05 Region: 5 (U17C) Long: 93 14' 57"
Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE OWNERSHIP : MN Department of Welfare MANAGED AREA(s): RIVER BEND NATURE CENTER OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 17 verified Date of Information: May 1978 Record Updated: 12/26/1990	Collection #: VER AT BEND 6 CLONES E CENTER AND HAVE ED BY STATE	LOCATION: RICE County Legal : T109N R20W Quad Map: CANNON CIT Latitude: 44 16' 27" Precision: within 0. TNC RECORD: Global Rank: G1 Current Status: 1	NWSW04 Region: 5 Y (U17C) Long: 93 14' 24"
Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE OWNERSHIP : MN Department of Welfare MANAGED AREA(s): RIVER BEND NATURE CENTER	Collection #: E,JUST WEST OF WHERE EEN DESTROYED BY	LOCATION: RICE Count Legal : T109N R20W Quad Map: FARIBAULT Latitude: 44 16' 7" Precision: within 0. TNC RECORD: Global Rank: G1 Current Status: 1	NENW08 Region: 5 (U16D) Long: 93 15' 16"

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #19		LOCATION: RICE Count	y, MN
Federal Status: ENDANGERED State Sta	tus: ENDANGERED	Legal : T110N R19W	SESESE04 Region: 5
Landscape Region: SOUTHERN OAK BARRENS		Quad Map: NERSTRAND	(U17D)
SITE : NERSTRAND WOODS	CBS Site #: 42	Latitude: 44 21' 26"	Long: 93 6' 7"
OWNERSHIP : Private Ownership		Precision: within 0.	25 mile, confirmed
MANAGED AREA(s): not managed or no record			
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 19 verified	EO Size: O	TNC RECORD:	Code: PMLILOUODO
Date of Information: 29 May 1986 Record Updated: 12/26/1990		Global Rank: Gl	State Rank: S1
Map Margin #: 0 EO Rank: Voucher: SIGHT	Collection #:	Current Status: 2	Intended Status: 89
Source: SMITH, W.R., SATHER, N. AND DUNEVITZ, V.			
REMARKS: AT LEAST 14 COLONIES IN FLOODPLAIN OF EAST-FLOWING TRIBUTA	RY TO PRAIRIE CREEK,		
NORTH OF BOUNDARY OF NERSTRAND WOODS STATE PARK.			
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #20		LOCATION: GOODHUE Co	ounty, MN
	tus: ENDANGERED	Legal : T109N R15	• •
Landscape Region: SOUTHERN OAK BARRENS		Quad Map: ZUMBROTA	0
SITE : site not named or no record	CBS Site #: 0	Latitude: 44 17' 37'	
OWNERSHIP : Private Ownership		Precision: within qu	0
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MANAGED AREA(s): not managed or no record

Date of Information: May 1892

Map Margin #: 0 EO Rank:

Source: BALLARD, A.L.

OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 20 unverified EO Size: 0 Record Updated: 12/10/1986 # of Archived Records: 0 Voucher: 88494 MIN Collection #:

REMARKS: ZUMBROTA, MINN. (HABITATS AROUND ZUMBROTA HAVE BEEN SEARCHED UNSUCCESSFULLY BY T.MORLEY WHO BELIEVES POPULATION IS EXTIRPATED)

TNC RECORD: Code: PMLIL0U0D0 Global Rank: G1 State Rank: Sl Current Status: 0 Intended Status: 0

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #21 Federal Status: ENDANGERED State State Landscape Region: SOUTHERN OAK BARRENS	tus: ENDANGERED	LOCATION: RICE Coun Legal : T111N R20 Quad Map: NORTHFIEL	W NESESENW34 Region: 5
SITE : CANNON RIVER WILDERNESS AREA	CBS Site #: 32	Latitude: 44 22' 45	
OWNERSHIP : County Park	(Precision: within 0	.25 mile, confirmed
MANAGED AREA(s): RICE COUNTY WILDERNESS AREA			
OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 21 verified	EO Size: O	TNC RECORD:	Code: PMLILOUODO
Date of Information: 12 May 1989 Record Updated: 12/26/1990	# of Archived Records: 2	Global Rank: Gl	State Rank: Sl
Map Margin #: 22 EO Rank: Voucher: MIN	Collection #:	Current Status: 0	Intended Status: 6
Source: BAILEY, JEFF			
REMARKS: 23 COLONIES AT TOE OF NORTH-FACING SLOPE JUST WEST OF INTER	RMITTENT STREAM WITH		
SCOURED ROCK BED. RED OAK, WHITE OAK, BASSWOOD, SUGAR MAPLI	E WOODS WITH SPARSE		
SHDIR LAVER AND UNDERSTORY ON SLOPES MORE LUSH ON FLOODEL	ATN DIVERSE BOREST		

SHRUB LAYER AND UNDERSTORY ON SLOPES, MORE LUSH ON FLOODPLAIN. DIVERSE FOREST FLOOR WITH HYDROPHYLLUM, ISOPYRUM, DENTARIA, ERYTHRONIUM ALBIDUM, ADIANTUM, SOL-IDAGO FLEXICAULIS CYSTOPTERIS, VIOLA SORORIA. SEVERAL COLONIES E. PROPULLANS ARE ALONG FENCELINE. ON BOTH COUNTY AND PRIVATE LAND. REVISIT BY B. DELANEY 4-30-90.

Map Margin #: 0 EO Rank: Source: SMITH,W.R. (SIGHT RECORD)

REMARKS :

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Current Status: 9

Intended Status: 9

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #22 Federal Status: ENDANGERED State Stat Landscape Region: BIG WOODS SITE : TROUT LILY PRESERVE OWNERSHIP : MN DNR Wildlife (Scientific and Natural Areas) MANAGED AREA(s): CANNON RIVER TROUT LILY SNA OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 22 sight rec. Date of Information: 25 April 1990 Record Updated: 12/14/1990 Map Margin #: 30 EO Rank: Voucher: Source: DUNEVITZ,H.(SIGHT RECORD) REMARKS: 2 COLONIES WEST OF RIVER, TOTAL OVER 800 PLANTS ABOUT 3M AB CANOPY 2ND GROWTH CELTIS AND OSTRYA. SHRUBS PATCHY WITH DEN MISSOURIENSIS, ZANTHOXYLUM. ERYTHRONIUM PROPULLANS UNDER RI ALBIDUM, ISOPYRUM, CAREX PENSYLVANICA, HYDROPHYLLUM VIRGINI TION OBSERVED BY W. SMITH AND B. DJUPSTROM.	Collection #: OVE RIVER. PATCHY ISE AREAS RIBES BES. WITH ERYTHRONIUM	LOCATION: RICE County, MN Legal : T110N R20W NWSW16 Region: 5 Quad Map: CANNON CITY (U17C) Latitude: 44 20' 1" Long: 93 14' 22" Precision: within 0.25 mile, confirmed TNC RECORD: Code: PMLILOUODO Global Rank: G1 State Rank: S1 Current Status: 9 Intended Status: 9
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #23 Federal Status: ENDANGERED State State Landscape Region: BIG WOODS SITE : TROUT LILY PRESERVE OWNERSHIP : MN DNR Wildlife (Scientific and Natural Areas) MANAGED AREA(s): CANNON RIVER TROUT LILY SNA OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 23 sight rec. Date of Information: May 1989 Record Updated: 12/26/1990 Map Margin #: 0 EO Rank: Voucher: Source: SMITH,W.R. (SIGHT RECORD) REMARKS: ONE COLONY IN MATURE OLD GROWTH MAPLE BASSWOOD FOREST (NOTH	Collection #:	LOCATION: RICE County, MN Legal : T110N R2OW NWSESW16 Region: 5 Quad Map: CANNON CITY (U17C) Latitude: 44 20' 46" Long: 93 14' 17" Precision: within 0.25 mile, confirmed TNC RECORD: Code: PMLILOUODO Global Rank: G1 State Rank: S1 Current Status: 9 Intended Status: 9
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #24 Federal Status: ENDANGERED State State Landscape Region: BIG WOODS SITE : TROUT LILY PRESERVE OWNERSHIP : MN DNR Wildlife (Scientific and Natural Areas) MANAGED AREA(s): CANNON RIVER TROUT LILY SNA OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 24 sight rec. Date of Information: May 1989 Record Updated: 12/26/1990		LOCATION: RICE County, MN Legal : T110N R20W SESE08 Region: 5 Quad Map: CANNON CITY (U17C) Latitude: 44 20' 34" Long: 93 14' 43" Precision: within 0.25 mile, confirmed TNC RECORD: Code: PMLILOUDOD Global Rank: G1 State Rank: S1 Current Statue: 9 Intended Statue: 9

Collection #:

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #25 Federal Status: ENDANGERED State Stat Landscape Region: SOUTHERN OAK BARRENS SITE : ROBINSON WOODS (90 acres approx.) OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 25 verified Date of Information: 4 May 1990 Record Updated: 08/13/1990 Map Margin #: 17 EO Rank: C Voucher: MIN Source: SATHER,N. REMARKS: 7 COLONIES TOTALLING 517 PLANTS ON RISE IN FLOODPLAIN JUST ENCE OF LITTLE CANNON RIVER AND BUTLER CREEK. UNDER PRICKLY TURBED PASTURED FLOODPLAIN FOREST, NO CANOPY IN AREA WITH I FLOOR SPP INCLUDE CAREX SP., ERYTHRONIUM ALBIDUM, ISOPYRUM LLUM VIRGINIANUM, GLECHOMA HEDERACEA. NO DWARF TROUT LILIES AREA DOMINATED BY BOXELDER SHRUB LAYER AND FLOOR DOMINATED	ASH IN HIGHLY DIS- ILLIES. OTHER FOREST BITERNATUM, HYDROPHY- W. OF HERE IN LOWER	LOCATION: GOODHUE County, MN Legal : T111N R17W SENWO6 Region: 5 Quad Map: SOGN (U18B) Latitude: 44 27' 3" Long: 92 54' 35" Precision: within 0.25 mile, confirmed TNC RECORD: Code: PMLILOUODO Global Rank: G1 State Rank: S1 Current Status: 2 Intended Status:
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #26 Federal Status: ENDANCERED State State Landscape Region: SOUTHERN OAK BARRENS SITE : NORTH FORK ZUMBRO WOODS OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 26 verified Date of Information: 1 May 1990 Record Updated: 02/22/1991 Map Margin #: 2 EO Rank: A Voucher: MIN Source: DUNEVITZ,H. REMARKS: 3 LARGE AGGREGATES OF MANY SMALLER COLONIES. WESTERN SUPERO EST. UP TO 40 PLANTS/M2 IN SOME AREAS, 2ND SUPERCOLONY NEAH 3RD, ON BOTH SIDES OF RAVINE, 25 SUBCOLONIES TOTAL OVER 199 RED OAK, BASSWOOD STAND W/BLACK ASH, YELLOWBUD HICKORY, SPA	Collection #: 303 COLONY 70M X 15M WITH RLY CONTINUOUS WITH DO PLANTS. ON SLOPE IN	LOCATION: GOODHUE County, MN Legal : T110N R17W SWSE28 Region: 5 Quad Map: WANAMINGO (U18D) Latitude: 44 17' 53" Long: 92 51' 37" Precision: within 0.25 mile, confirmed TNC RECORD: Code: PMLIL0U0DO Global Rank: G1 State Rank: S1 Current Status: 0 Intended Status: 29
GROUNDLAYER DOM. E. ALBIDÚM, ISOPYRÚM, HYDROPHYLLUM WITH AS ANEMONE QUIN, ALLIUM TRIC., UVULARIA, DENTARIA, MAIANTHEMUR	SARUM, DICENTRA CUC.,	
ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #27 Federal Status: ENDANGERED State State Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 27 sight rec. Date of Information: 27 April 1990 Record Updated: 08/13/1990 Map Margin #: 35 EO Rank: B Voucher: Source: DELANEY,B. REMARKS: 12 TO 20 COLONIES WITH OVER 1800 BLOOMING PLANTS ON NE FACT MAPLE FOREST WITH RED OAK AND ASPEN. FEW SHRUBS, SOME ASPEN WITH OCCASIONAL IRONWOOD. POOR DIVERSITY IN GROUNDLAYER DOU IUM ALBIDUM. MANY TOTALLY ISOLATED COLONIES E. PROPULLANS.	N, MAPLE REPRODUCTION MINATED BY ERYTHRON-	LOCATION: RICE County, MN Legal : T110N R20W SWSW33 Region: 5 Quad Map: CANNON CITY (U17C) Latitude: 44 17' 10" Long: 93 11' 55" Precision: within 0.25 mile, confirmed TNC RECORD: Code: PMLILOUODO Global Rank: G1 State Rank: S1 Current Status: 2 Intended Status: 8

PULLANS JUST S. OF OLD BRIDGE FOUNDATION. ALSO EAST OF FALLS CREEK ON COLLIN GLARNER PROPERTY NEAR HOUSE. PLANTS W OF FALLS CK. BOTH N & S OF THE OLD BRIDGE. 13:42 Monday, MARCH 18, 1991

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ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #28 Federal Status: ENDANGERED State Status: ENDANGERED Landscape Region: BIG WOODS SITE : STRAIGHT RIVER WILDFLOWER PRESERVE CBS Site #: 45 : Private Ownership OWNERSHIP MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 28 sight rec. EO Size: 0 Date of Information: 4 May 1990 Record Updated: 08/13/1990 # of Archived Records: 0 Map Margin #: 36 EO Rank: B Voucher: Collection #: Source: ANDERSON, C. AND SMITH, W.R. (SIGHT RECORD) REMARKS: 4 COLONIES ON LOWER SLOPE AND POOR QUALITY FLOODPLAIN FOREST. FLOODPLAIN WAS

SEARCHED ONLY BRIEFLY, COULD BE SEARCHED BETTER. NO INFO ON ASSOCIATED SPP. BETWEEN 200 AND 400 PLANTS TOTAL.

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #29

13:42 Monday, MARCH 18, 1991

LOCATION: RICE County, MN Legal : T109N R20W SENW04 Region: 5 Quad Map: CANNON CITY (U17C) Latitude: 44 21' 38" Long: 93 9' 10" Precision: within 0.25 mile, confirmed

TNC RECORD: Code: PMLIL0U0D0 Global Rank: Gl State Rank: Sl Current Status: 2 Intended Status:

LOCATION: RICE County, MN

Federal Status: ENDANGERED Legal : T110N R20W NENE17 State Status: ENDANGERED Region: 5 Landscape Region: BIG WOODS Quad Map: CANNON CITY (U17C) SITE : TROUT LILY PRESERVE Latitude: 44 20' 24" Long: 93 14' 38" CBS Site #: 44 : Private Ownership Precision: within 0.25 mile, confirmed OWNERSHIP MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 29 sight rec. TNC RECORD: EO Size: 0 Code: PMLILOUODO Date of Information: 23 May 1990 Record Updated: 12/26/1990 # of Archived Records: 1 Global Rank: G1 State Rank: S1 Map Margin #: 37 EO Rank: C Voucher: Collection #: Current Status: 0 Intended Status: 29 Source: DUNEVITZ.H. AND DELANEY.B. (SIGHT RECORD) REMARKS: 3 COLONIES FOUND IN CLOSE PROXIMITY TO EACH OTHER, TOTAL AROUND 175 PLANTS. ON UPPER N-FACING SLOPE OF FLOODPLAIN, DOMINATED BY BOXELDER, GREEN ASH, HACK-BERRY, BASSWOOD, SILVER MAPLE: SHRUBLAYER DOMINATED BY RIBES MISSOURIENSIS, SOME VIBURNUM LENTAGO. GROUNDLAYER ERYTHRONIUM ALBIDUM, LYSIMACHIA NUMMULARIA, ANEMONE OUINOUEFOLIA, HYDROPHYLLUM VIRGINIANUM, CAREX SPP., VIOLA SORORIA. COMMUNITY IS D RANK. ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #30 LOCATION: RICE County, MN Federal Status: ENDANGERED State Status: ENDANGERED Legal : T111N R20W OWSW34 Region: 5 Landscape Region: BIG WOODS Quad Map: CANNON CITY (U17C) : CANNON RIVER WILDERNESS AREA Latitude: 44 22' 20" Long: 93 13' 0" SITE CBS Site #: 32 : County Park Precision: within 0.25 mile, confirmed OWNERSHIP MANAGED AREA(s): RICE COUNTY WILDERNESS AREA OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 30 verified EO Size: 14 TNC RECORD: Code: PMLILOUODO Record Updated: 12/26/1990 Date of Information: 28 April 1990 # of Archived Records: 2 Global Rank: G1 State Rank: Sl Map Margin #: 23 EO Rank: B Voucher: Collection #: 302 Current Status: 0 Intended Status: 6 Source: DUNEVITZ,H. REMARKS: AROUND 100 COLONIES EXTENDING PARTWAY UP HILLS FROM FOOTTRAIL AREA ON BOTH SIDES OF POWERLINE IN W1/2 SW1/4 SEC. 34. SOME PLANTS IN FOOTTRAIL. RED OAK, BASSWOOD,

SUGAR MAPLE, GREEN ASH, W/FAIRLY OPEN SHRUBLAYER OF CHOKECHERRY, ELDERBERRY AND GOOSEBERRY. GROUNDLAYER INCL. MITELLA DIPHYLLA, UVULARIA GRANDIFLORA, HEPATICA ACUTILOBA, ALLIUM TRICOCCUM, PHLOX DIVARICATA, VIOLA SORORIA, TRILLIUM GRANDIFL-ORA. DICENTRA CUCULLARIA, HYDROPHYLLUM, SANGUINARIA, ASARUM, ERYTHRONIUM ALBIDUM

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #32

Federal Status: ENDANGERED

SITE

OWNERSHIP

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #31 Federal Status: ENDANGERED State Status: ENDANGERED Landscape Region: SOUTHERN OAK BARRENS : NERSTRAND WOODS CBS Site #: 42 : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 31 sight rec. EO Size: 2 Т

Date of Information: 3 May 1990 Record Updated: 08/16/1990 # of Archived Records: 0 Map Margin #: 18 EO Rank: Voucher: Collection #: Source: SMITH, W., DUNEVITZ, H., SATHER AND FARLEY (SIGHT RECORD) REMARKS: 3 COLONIES ON FLOODPLAIN, LEVEL GROUND BOTH SIDES OF FENCELINE, TOTAL OF 8 PLANTS. MEDIUM AGED BASSWOOD WITH SHRUBS, HYDROPHYLLUM, ISOPYRUM, SANGUINARIA, ASARUM, TRILLIUM CERNUUM. ONE COLONY AT BASE OF SLOPE, 1 COLONY 2 M NORTH OF FENCE, 8 M EAST OF CREEK, ONE IS 16 M NORTH OF FENCE, 10 M EAST OF CREEK.

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LOCATION:	RICE County, MN	
Legal :	T110N R19W NWNW10 Region: 5	
Quad Map:	NERSTRAND (U17D)	
Latitude:	44 21' 22" Long: 93 5' 55"	
Precision:	within 0.25 mile, confirmed	

TNC RECORD:	Code: PMLILOUODO
Global Rank: Gl	State Rank: S1
Current Status: 2	Intended Status:

Landscape Region: SOUTHERN OAK BARRENS STTE : NERSTRAND WOODS CBS Site #: 42 OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 32 sight rec. EO Size: 1 Date of Information: 3 May 1990 Record Updated: 08/16/1990 # of Archived Records: 0 Map Margin #: 19 EO Rank: C Voucher: Collection #: Source: SMITH, W., DUNEVITZ, H., SATHER AND FARLEY (SIGHT RECORD) REMARKS: 63 FLOWERING PLANTS IN 4 COLONIES APPROXIMATELY 120 SQ M ON LOWER N-FACING SLOPE OF MAPLE BASSWOOD FOREST. FOREST DOMINATED BY TILIA, QUERCUS RUBRA, AND ACER SACCHARUM. PRUNUS VIRGINIANA IS COMMON NEAR THIS POPULATION. HERBACEOUS ASSOCI-ATES: ISOPYRUM BITERNATUM, ASARUM CANADENSE, HYDROPHYLLUM VIRGINIANA, UVULARIA GRANDIFLORA, TRILLIUM CERNUUM, T. FLEXIPES, CAULOPHYLLUM THALICTROIDES. GRAVELLING OPERATION JUST UPSLOPE PUSHING TREES, SOIL, DEBRIS ONTO SLOPE.

LOCATION: RICE County, MN Legal : T110N R19W SESWSW03 Region: 5 Quad Map: NERSTRAND (U17D) Latitude: 44 21' 27" Long: 93 5' 50" Precision: within 0.25 mile, confirmed

TNC RECORD:	Code: PMLILOU0D0
Global Rank: Gl	State Rank: Sl
Current Status:	Intended Status:

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #33 LOCATION: RICE County, MN Federal Status: ENDANGERED State Status: ENDANGERED Legal : T110N R19W SWNW10 Region: 5 Landscape Region: SOUTHERN OAK BARRENS Quad Map: NERSTRAND (U17D) : NERSTRAND WOODS SITE Latitude: 44 20' 58" Long: 93 6' 0" CBS Site #: 42 OWNERSHIP : Private Ownership Precision: within 0.25 mile, confirmed MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 33 sight rec. EO Size: 1 TNC RECORD: Code: PMLILOUODO Date of Information: 3 May 1990 Record Updated: 10/26/1990 # of Archived Records: 1 Global Rank: G1 State Rank: S1 Map Margin #: 20 EO Rank: CD Voucher: Collection #: Current Status: 2 Intended Status: 8 Source: SMITH, W., DUNEVITZ, H., SATHER AND FARLEY (SIGHT RECORD) REMARKS: 12 FLOWERING PLANTS IN ONE COLONY TOWARD TOE ON NW FACING SLOPE IN MAPLE-BASSWOOD FOREST. PLANTS UNDER TILIA AND WITH SPARSE HERBACEOUS COVER. ASSOCIATES ARE HYDROPHYLLUM VIRGINIANA AND THALICTRUM DIOICUM. ON LOOSE, HIGHLY ERODIBLE

State Status: ENDANGERED

SOIL. LOCATED 5 M EAST OF PRAIRIE CREEK, ABOUT 100 M NORTH OF PARK BOUNDARY SIGN AND SURVEY MONUMENT NO. 131.

ELEMENT: ERYTHRONIUM PROPULLANS (DWARF TROUT LILY) #34 Federal Status: ENDANGERED State Status: ENDANGERED Landscape Region: SOUTHERN OAK BARRENS : NERSTRAND WOODS SITE CBS Site #: 42 OWNERSHIP : Private Ownership MANAGED AREA(s): not managed or no record OCCURRENCE RECORD: Code: GT.BC5 Occurrence #: 34 sight rec. EO Size: 0 Date of Information: 30 April 1990 Record Updated: 12/26/1990 # of Archived Records: 1 EO Rank: BC Voucher: Map Margin #: 21 Collection #: Source: ANDERSON, C. (SIGHT RECORD) REMARKS: APPROXIMATELY 100 COLONIES IN FLOODPLAIN FOREST AND ON LOWER NW FACING SLOPE IN

MAPLE BASSWOOD FOREST. DOMINATED BY ACER SACCHARUM, TILIA, AND QUERCUS RUBRA. SOME COLONIES ASSOCIATED WITH ERYTHRONIUM ALBIDUM. SMALL PORTION OF SITE GRAZED. LOCATION: RICE County, MN Legal : T110N R19W NESESE08 Region: 5 Quad Map: NERSTRAND (U17D) Latitude: 44 20' 40" Long: 93 7' 22" Precision: within 0.25 mile, confirmed

TNC RECORD:Code: PMLIL0U0D0Global Rank: GlState Rank: S1Current Status:Intended Status:

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