

EEGISLATIVE REFERENCE LIPSARY 615 State Cance Coll 12 Spint Paul, Minnesola 55135



This document is made available electronically by the Minnesota Legislative Reference Library as part of an ongoing digital archiving project. http://www.leg.state.mn.us/lrl/lrl.asp (Funding for document digitization was provided, in part, by a grant from the Minnesota Historical & Cultural Heritage Program.)

copies

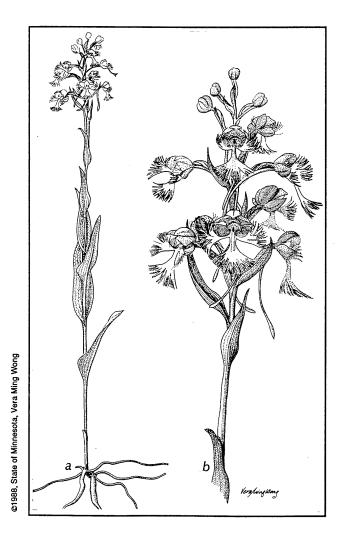
910377

Platanthera praeclara IN MINNESOTA AN UPDATE ON STATUS, INVENTORY AND MONITORING

Report compiled under contract for USFW Service Endangered Species Office

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

January, 1991



MINNESOTA DEPARTMENT OF NATURAL RESOURCES – BIOLOGICAL REPORT NO. 33 © 1991 State of Minnesota

COOPERATION WITH MINNESOTA DEPARTMENT OF AGRICULTURE

In 1988 the Minnesota Department of Agriculture and the U. S. Fish and Wildlife Service initiated a pilot Landowner Agreement program for the administration of federal pesticide control regulations (FIFRA, 7 U.S.C.). Under this program private individuals who own lands harboring federally listed species are invited to enter into voluntary agreements controlling pesticide use within endangered species habitat. As a cooperator with the U. S. Fish and Wildlife Service, the Minnesota Natural Heritage Program has agreed to provide data on the location of known populations of each of the listed species, assist the Department of Agriculture in locating these populations where necessary, and enter into consultation with the Department of Agriculture in the development of individualized plans for each population as is appropriate.

Because the Western white fringed prairie orchid has not undergone consultation with regard to pesticide jeopardy its protection from this jeopardy is not technically part of the EPA's pesticide labelling restrictions at present. However, in anticipation of the need to address pesticide jeopardy, the Minnesota Natural Heritage Program and the Minnesota Department of Agriculture initiated a program of cooperation as soon as the orchid was listed. The Heritage Program provided the Department of Agriculture with all <u>Platanthera</u> locations in its database. Of these only 3 were wholly within boundaries of private lands, with an additional 7 occurring in rights of way and ditches. The Minnesota Department of Natural Resources and Minnesota Department of Agriculture have entered into a Memorandum of Understanding that protects DNR-owned orchid populations through a departmental Pesticide Operational Order requiring review of proposed pesticide applications by the Natural Heritage Program.

Under the provisions of this departmental Pesticide Operational Order, Minnesota Natural Heritage Program staff reviewed one proposal for herbicide application at Blue Mounds State Park. Heritage staff attended a meeting with the Regional Parks Biologist, Park Manager, Department of Agriculture Endangered Species Pesticide Agreement Coordinator and county Agricultural Inspector in an attemp to resolve conflicts between enforcement of the state's noxious weed laws and potential jeopardy to the orchid population at Blue Mounds State Park.

Because the identity and habits of <u>Platanthera</u> pollinators remain unknown and their potential flight area is large, both the Heritage Program and Department of Agriculture have deferred attempting to design restrictions on insecticide use in the neighborhood of orchid populations. At the request of the federal recovery team the Minnesota Department of Agriculture has provided recommendations for necessary pesticide research to be incorporated into the draft Recovery Plan. TABLE 1.

tate	County	Site Name	Ownership	Protection Status ¹	Number of Ramets ²	Date of First Observation	Date of Last Observation ³
MN	Clay	Bicentennial Prairie EO #15	Clay Co.	. 9	-	1 97 9-07-25	1975-07-25
	Clay	Bluestem Prairie EO #26	TNC	8	16	1987	1990-07-13
	Clay	Ulen WMA	Township/MN DNR				
	•	EO #29		0	3	1990-07-21	1990-07-21
		EO #20		1	38	1986-08-21	1990-07-21
	Dodge	Unnamed EO #18	Unknown	0	1	1982-07	1982-07
	Mower	Leroy-Rose CRK ROW NHR EO #16	MN DOT	6	38	1980-07	1983-07-26
	Norman	Agsco Dunes EO #21	Private	0	1	1985-07- 17	1985-07-17
	Norman	T146N R44W S21 EO #10	Unknown	0	1	1975-07	1975-07
	Norman	T145N R44W S17 EO #11	Unknown	0	3	1975-07	1975-07
	Pipestone	Pipestone Natl. Monument					
		EO #39	NPS	6	1	1984	1984
		EO #40	NPS	6	2	1980	1980
	Polk	Benoit Station EO #38	Unknown	0	34	1990-07	1990-07
	Polk	Burnham WMA	MN DNR	1		1971-07	1990-07-20
		EO #8			78		
		EO #28			15		
	Polk	Floan Prairie EO # 7	Private	1	370	1956	1987-07
	Polk	Onstad 3 EO #33	Unknown	0	3	1990-07	1990-07
	Polk	Pembina Trail	TNC/MN DNR/Private				
		EO #9	TNC	9	1	1979	1979
		EO #12	TNC	9	-	1975-07-08	1975-07-08
		EO #17	MN DNR	9	43	1982-07-22	1990-07
		EO #22	TNC	9	3500	1986-07-01	1990-07
		EO #24	Private	2	18	1984-07-10	1990-07-10
		EO #32	TNC	9	5	1990-07-11	1990-07-11
		EO # 34	MN DNR	9	35	1979-07-19	1990-07
		EO #35	MN DNR	9	300	1983	1990-07-18
		EO #36	MN DNR	9	135	1990-07-18	1990-07-18
		EO #37	MN DNR	9	1	1990-07-18	1990-07-18
	Polk	Pembina Trail Preserve/Foxboro Prairie SNA EO # 19	MN DNR	9	20	1983-08-09	1990
	Polk	Tilden 3 EO #31	Polk Co. Hwy Dept	0	1	1990-07-04	1990-07-08
	Polk	Tilden 20 EO #30	Polk Co. Hwy Dept	0	2	1990-07-08	1990-07-08
	Polk	Tympanuchus Prairie EO #41	TNC/Private	8	1	1979-07	1979-07
		EO #42		0	2	1979-07	1979-07
	Rock	Blue Mounds SP EO #27	MN DNR	1	275	1985-07	1990

NUMBER OF PLANTS

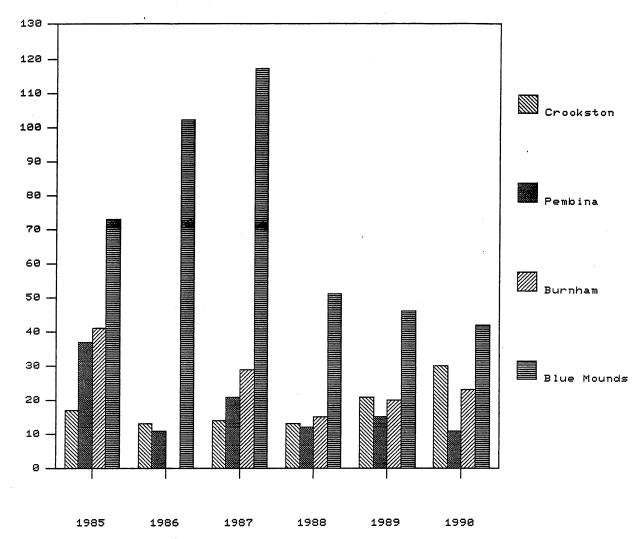


Figure 1.

Years





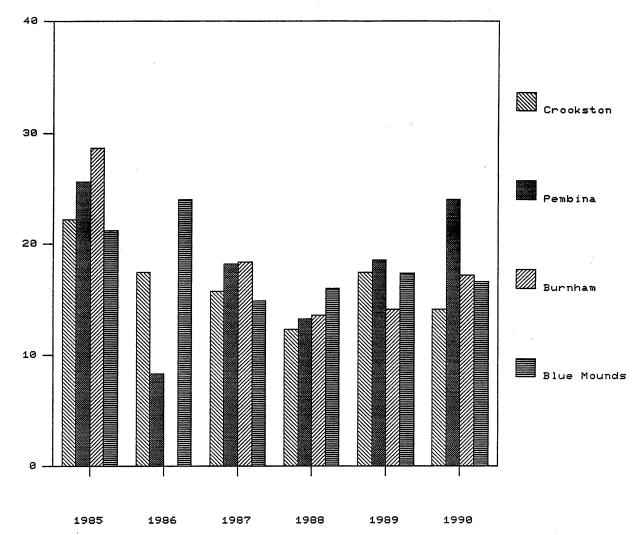


Figure 2.

Years

1

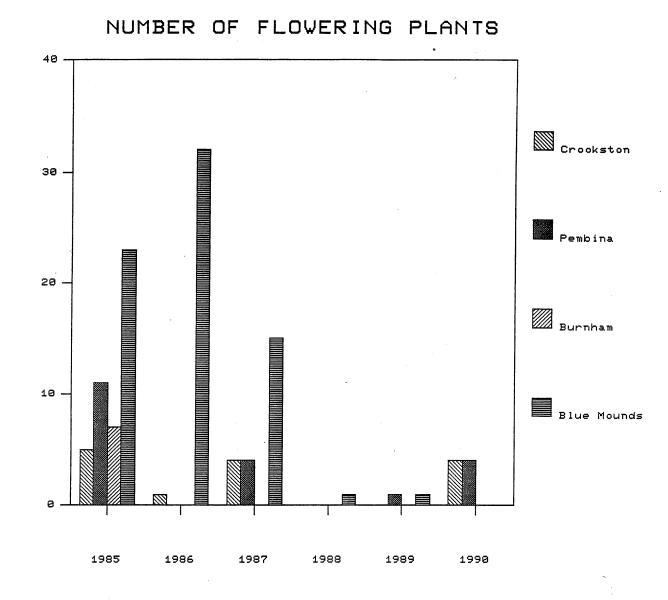
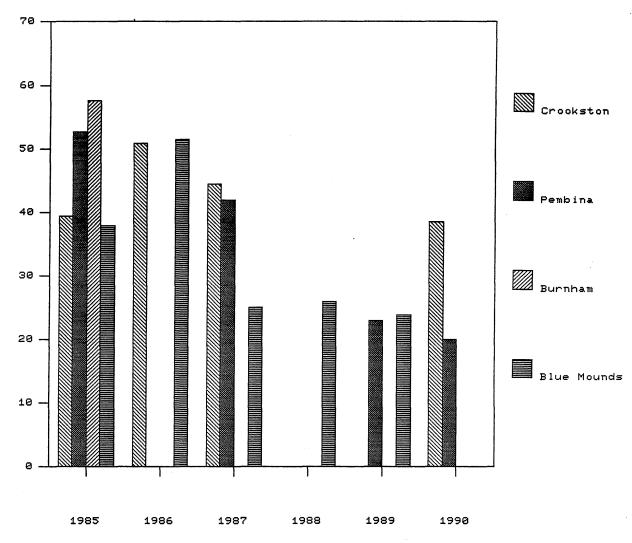


Figure 3.

Years



AVERAGE HEIGHT, FLOWERING PLANTS

Figure 4.

Years

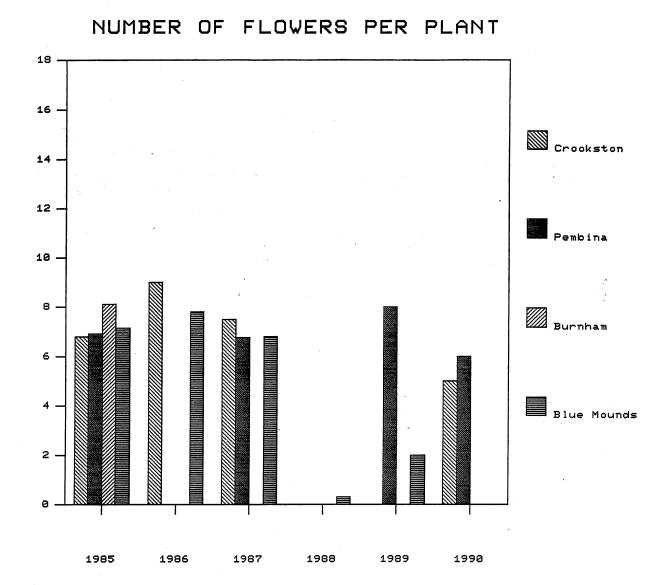
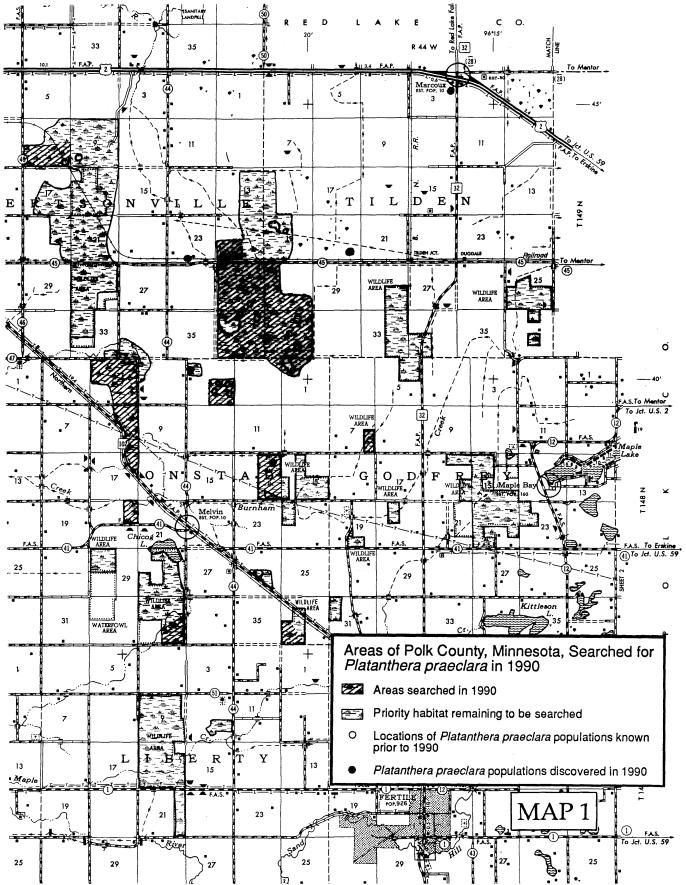
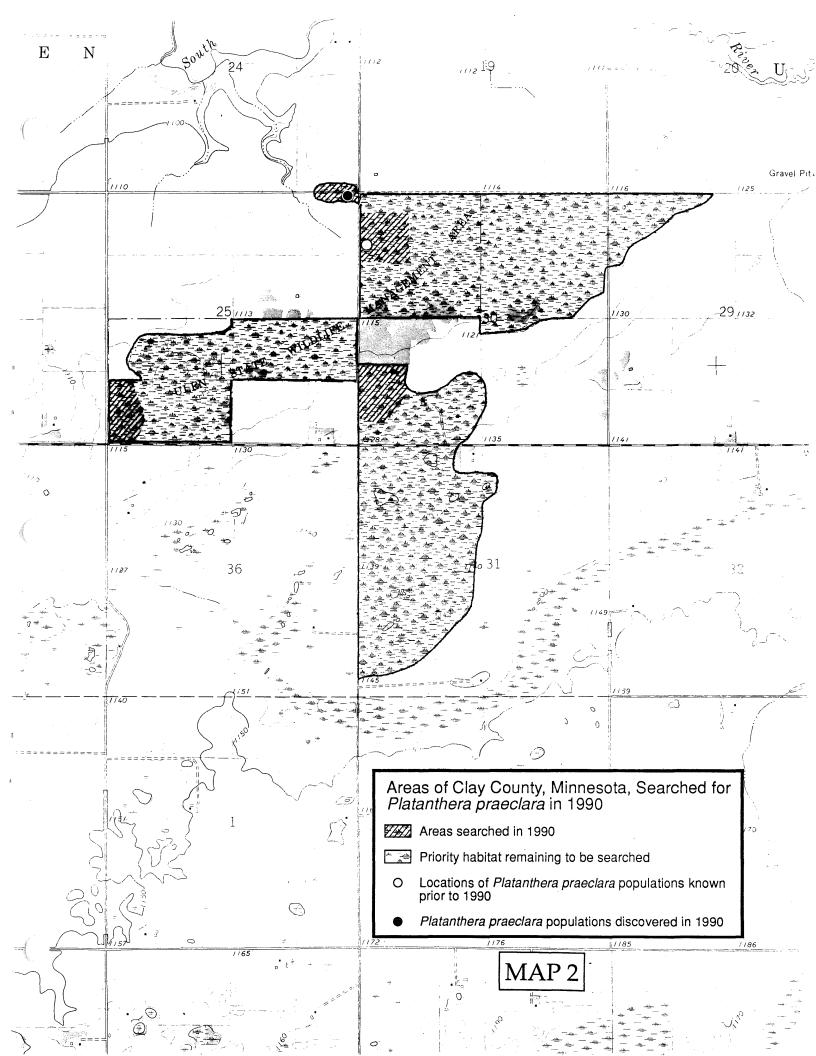


Figure 5.

Years

Number of flowers





• · · · ·

Natural Heritage and Nongame Wildlife Programs Biological Report Series

- 1. Natural Vegetation of Minnesota at the Time of the Public Land Survey: 1847-1907
- 2. Results of a Survey of Sparganium glomeratum (Clustered Bur Reed) in the Chippewa National Forest
- 3. Status Report on *Poa paludigena* (Bog Bluegrass) in Minnesota
- 4. Status Report on Polemonium occidentale (Western Jacob's Ladder) in Minnesota
- 5. Old-Growth Forests in Minnesota: a Preliminary Report
- 6. Status Report on Napaea dioica (Glade Mallow) in Minnesota
- 7. Status Report on Chrysosplenium iowense (Golden Saxifrage) in Minnesota
- 8. Minnesota County Biological Survey: 1988 Bird Surveys
- 9. Minnesota County Biological Survey: 1988 Herpetological Surveys
- 10. Minnesota County Biological Survey: 1988 Butterfly Surveys
- 11. Minnesota County Biological Survey: 1988 Small Mammal Surveys
- 12. Prairie Bush Clover Inventory and Preserve Design
- 13. Minnesota Trout Lily: Inventory, Mapping, Census and Monitoring
- 14. The Uncommon Ones: Minnesota's Endangered Plants and Animals
- 15. Platanthera praeclara in Minnesota: a 1990 Update on Status, Inventory and Monitoring
- 16. Snakes & Lizards of Minnesota
- 17. Prairie Bush Clover: A Threatened Midwestern Prairie Plant
- 18. Minnesota Dwarf Trout Lily

ĥ

- 19. Status Report on Cirsium hillii (Hill's Thistle) in Minnesota
- 20. A Preliminary Key to Natural Communities in Minnesota
- 21. Status Report of *Polemonium occidental* var. *lacustre* (Western Jacob's Ladder) at Polemonium Bog, St. Louis County, Minnesota
- 22. Nongame Wildlife Program Biennial Report: July 1, 1987-June 30, 1989
- 23. Minnesota Trout Lily: Mapping, Censusing and Monitoring
- 24. Lespedeza leptostachya in Minnesota: a 1990 Update on Status, Inventory and Monitoring
- 25. Minnesota trout lily Population Monitoring
- 26. Field Survey and Distribution of *Botrychium campestre* in Lac Qui Parle, Big Stone, Traverse, Wilkin, Clay and Norman Counties
- 27. Status Survey and Taxonomic Study of Viola novae-angliae (violaceae)
- 28. Interim Report 1988: Minnesota County Biological Survey
- 29. Earth Day: Past, Present & Future
- 30. Protecting Minnesota's Biological Diversity: The Minnesota Natural Heritage Program 1979-1989
- 31. Interim Report 1990: Minnesota County Biological Survey
- 32. Results of a Survey for *Polemonium occidentale* var. *lucustre* (Western Jacob's Ladder) in the Chippewa National Forest
- 33. Platanthera praeclara in Minnesota: An Update on Status, Inventory and Monitoring
- 34. Lespedeza leptostachya in Minnesota: A 1991 Update on Status, Inventory and Monitoring

Minnesota Department of Natural Resources, Section of Wildlife Natural Heritage and Nongame Wildlife Programs Box 7, 500 Lafayette Road St. Paul, MN 55155

(612) 296-3344