50 CFR Part 17

Endangered and Threatened Wildlife and Plants; Determination of Threatened Status for Hymenoxys acaulis var. glabra (Lakeside daisy)

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Final rule.

SUMMARY: The Service determines threatened status for Hymenoxys acaulis var. glabra (Lakeside daisy), under authority of the Endangered Species Act (Act) of 1973, as amended. This plant is known only from Manitoulin Island and the Bruce Peninsula in Ontario, Canada, where it is considered rare, and one fragmented population in Ottawa County, Ohio. It has apparently been extirpated from two counties in Illinois. The Ohio population occurs on private land, where its continued existence is threatened by habitat alteration caused by limestone quarrying activities and the unmanaged succession of woody overgrowth. This action will implement

Federal protection provided by the Act for Hymenoxys acaulis var. glabra.

EFFECTIVE DATE: July 28, 1988.

ADDRESSES: The complete file for this rule is available for inspection, by appointment, during normal business hours at the Service's Regional Office of Endangered Species, Federal Building, Fort Snelling, Twin Cities, Minnesota 55111.

FOR FURTHER INFORMATION CONTACT: James M. Engel, Endangered Species Coordinator (see ADDRESSES section) at 612/725-3276 or FTS 725-3276.

SUPPLEMENTARY INFORMATION:

Background

Hymenoxys acaulis var. glabra (Lakeside daisy) is a member of the family Asteraceae. It has previously been recognized as Actinea herbacea (Greene) Robins, and Actinea acaulis (Pursh) Spring var. glabra (Gray) Parker. While conducting taxonomic research on the western species of Actinea, Parker (1950) demonstrated that Hymenoxys acaulis var. glabra is the correct name for the plant.

A perennial with a teproot and branching caudex, Hymenoxys acaulis var. glabra is characterized by densely tufted, thick spatulate to nearly linear basal leaves 1-8 centimeters (0.4-3.1 inches) long and up to 1 centimeter (0.4 inches) wide, strongly punctuate with a

scape-like peduncle 5-25 centimeters (2-10 inches) high, which bears a solitary head with 10-30 radiating yellow rays. Most individuals in a population tend to bloom at the same time in late April to mid-May, producing radiant mass of yellow flowers. After flowering the plants become light gray in color and quite inconspicuous and easily overlooked; in a few weeks the rich green color returns (R.E. Moseley, Ohio Department of Natural Resources, pers. comm. September 1985). DeMauro (Will County Illinois, Forest Preserve District, pers. comm. 1987) reports observing a gray color and flattening of leaves of H. acqulis var. glabra when the plant is water stressed; the dark green color returns several hours after watering.

In the United States Hymenoxys acaulis var. glabra is currently known from one fragmented population on the Marblehead Peninsula in Ottawa County, Ohio, where it occurs on dry rocky prairie habitat, much of which has been altered by limestone quarrying activities (Weed 1890, Wunderlin 1971, Cusick and Burns 1984). The plant has also been recorded from Will and Tazewell Counties in Illinois (Wunderlin 1971, John Schwegman, Illinois Department of Conservation, pers. comm. April 1986). The Illinois populations, however, are considered to be extirpated (Schwegman, pers. comm. April 1986). In Canada, where the plant

is considered rare, it is known from two locations on the Bruce Peninsula with the largest population scattered in two 5-acre patches, and approximately 12 sites on Manitoulin Island (H.V. Elliot, Stokes Bay, Ontario, pers. comm. 1987, White and Maher 1983, DeMauro 1987). Available records do not indicate a serious recent decline in the Canadian populations, but uncontrolled woody overgrowth always poses a threat.

Moseley (1930) raised a question about whether this plant is indigenous to Ohio, although Weed [1890] had pointed out that it had been found on the Marble head Peninsula of Ottawa County as long as anyone then alive could remember. Cusick and Barns (1984) noted that the habitat in Ohio closely resembles the Canadian habitat, where the plant is considered indigenous. Allison Cusick (Ohio Department of Natural Resources, pers. comm. April 1986) considers the plant native to the Marble-head Peninsula. Some additional research is needed regarding population genetics of this species.

Federal actions on the Lakeside daisy began with Section 12 of the Endangered Species Act of 1973 (Act), which directed the Secretary of the Smithsonian Institution to prepare a report on those plants considered to be endangered, threatened, or extinct. This report, designated as House Document No. 94-51, was presented to Congress on January 9, 1975. On July 1, 1975, the Service published a notice in the Federal Register (40 FR 27823) of its acceptance of the Smithsonian Institution report as a petition within the context of section 4(c)(2), now section 4(b)(3)(A), of the Act and of its intention thereby to review the status of those plants. Hymenoxys acaulis var. glabra was included in the July 1, 1975, notice of review. On December 15, 1980 (45 FR 82479), and September 27, 1985 (50 FR 39525), the Service published revised notices of review for native plants in the Federal Register: Hymenoxys acaulis var. glabra was included in those notices as a category 1 species. Category 1 species are those for which data in the Service's possession indicate that proposing to list is warranted.

The Endangered Species Act Amendments of 1982 required that all petitions pending as of October 13, 1982, be treated as having been submitted on that date. The deadline for a finding on those species, including Hymenoxys acaulis var. glabra, was October 13, 1983. In October 1983, 1984, 1985, and 1986, the petition finding was made that listing Hymenoxys acaulis var. glabra was warranted but precluded by other pending listing actions, in accordance

with section 4(b)(3)(E)(iii) of the Act. Such petitions are recycled under section 4(b)(3)(c)(i). The August 19, 1987, proposal (52 FR 31043) to determine threatened status for *H. acaulis* var. *glabra*, constituted the final required finding for this species, that the action requested by the petitioner was warranted.

Summary of Comments and Recommendations

In the August 19, 1987, proposed rule (52 FR 31048) and associated notifications, all interested parties were requested to submit factual reports or information that might contribute to the development of a final rule. Appropriate State agencies, county governments, Federal agencies, scientific organizations, and other interested parties were contacted and requested to comment. A newspaper notice inviting public comment was published in the Port Clinton News Herald on September 3, 1967.

Ten comments were received. Seven comments expressed support for the proposal, including the Ohio Department of Natural Resources, the Illinois Department of Conservation, the Royal Botanical Gardens of Canada, and four private parties. The letter from the Royal Botanical Gardens pointed out that a minor construction project, or well intentioned "weed killers" could exterminate the population on the Marblehead Peninsula. One person who submitted a comment believed that the mining (quarrying) activities posed a serious threat to this species. Another person provided additional status, biological, and monitoring information accumulated as a graduate student while working with this species. Another party who has observed H. acculis var. glabra for about 40 years, voiced concerns over increased quarrying activities that continue to adversely affect this species. The Ohio Department of Natural Resources advised of recent land acquisition attempts to bring one of the populations on the Marblehead Peninsula under public ownership, but negotiations so far have been unsuccessful. The Illinois Department of Conservation advised that, although extirpated from the State. the plant is on the official endangered species list, which prohibits the sale or offer of sale. The Illinois Department of Conservation now owns the site in Tazewell County, which formerly supported the Lakeside daisy, and believes that with proper management, a reintroduction effort would be in order. Three additional comments were received that offered no new information and did not take a position

on the proposal. One of these respondents, a botanist, suggested an additional synonym (*Tetraneuris scaposa* var. *scaposa*) for the taxon, but acknowledged that supporting evidence has not yet been published.

Summary of Factors Affecting the Species

After a thorough review and consideration of information available. the Service has determined that Hymenexys acaulis var. glabra should be classified as a threatened species. Procedures found at section 4(a)(1) of the Endangered Species Act (16 U.SC. 1531 et seq.) and regulations (50 CFR Part 424) promulgated to implement the listing provisions of the act were followed. A species may be determined to be endangered or threatened due to one or more of the five factors described in section 4(a)(1). These factors and their application to Hymenoxys acculis (Pursh) Parker var. glabra (Gray) Parker (Lakeside daisy) are as follows:

A. The present or threatened destruction, modification, or curtailment of its habitat or range. The most serious threat to the Lakeside daisy is habitat destruction. This plant is found in open. dry, rocky, prairie areas where active limestone quarrying occurs. The Marblehead Peninsula population consists of seven scattered sites within a 4 square mile area, all on privately owned land in an area where active limestone quarrying is being conducted now, and has been conducted for 150 years. Quarrying activity has destroyed most of the original prairie habitat. Where quarrying activities are conducted, any existing Lakeside daisy plants are completely destroyed. Once quarrying has ceased on an area, the plant occasionally reappears after a period of 15-20 years but not abundantly (Allison Cusick, Ohio Department of Natural Resources, pers. comm. 1986]. Because the quarrying activities have moved from area to area, the "cycle" from destroyed habitat to subsequent reappearance of the plant years later has been continuous for 70-80 years on this small area of the Marblehead Peninsula (Cusick pers. comm. 1986). Cusick points out that while the Lakeside daisy is easily grown when transplanted into gardens, it does not seem to expand its natural range. In addition, the succession of overgrowth by woody species reduces the open sunny habitat necessary for the plant's survival (Cusick and Burns 1984. DeMauro 1987). Cusick and Burns (1984) also noted that overcollecting for gardens is a hazard, because the plant is one of Ohio's more spectacular

wildflowers. DeMauro (pers. comm. 1987) reports that several nurseries in Illinois and Wisconsin provide Lakeside daisy seeds, but does not believe the trade is significant. Populations have been extirpated in Will and Tazewell Counties in Ohio due to quarrying, grazing, and industrial activies (Schwegman, pers. comm. 1986). Since all of the remaining Lakeside daisy plants are found on privately owned land, some form of land protection and management rights are needed in order to protect the existing population and manage the woody overstory. Provisions of the Endangered Species Act of 1973, as amended, will enhance and reinforce protection efforts.

B. Overutilization for commercial, recreational, scientific, or educational purpose. Commercial trade of this plant is not known to be extensive. Because it is easily transplanted and has very showy flowers, the possibility for increased commercial trade is present. Several nurseries in Illinois and Wisconsin provide Lakeside daisy seeds, but it does not appear the volume is significant (M. Demauro, pers. comm. 1987).

C. Disease or predation. None known. D. The inadequacy of existing regulatory mechanisms. Hymenoxys acaulis var. glabra is officially listed as endangered by the States of Ohio and Illinois. Ohio law prohibits commerical taking of any State-listed plant from its native habitat. The law also prohibits the taking of any listed species for any purpose without either the written permission of the landowner, or a collecting permit from the Department of Natural Resources and verbal permission of the landowner. Illinois law protects plants on State lands and prohibits the sale or offer of sale. These prohibitions on trade and collecting do not specifically provide for protection or management of the species habitat. These regulations will be further strengthened by prohibitions of the Endangered Species Act. The Ohio Department of Natural Resources is negotiating with a landowner for the purchase of a site where the Lakeside daisy occurs, but so far these negotiations have been unsuccessful. Hymenoxys acaulis var. glabra is not protected under the Ontario Endangered Species Law.

E. Other natural or manmade factors affecting its continued existence.
Results of a reproductive study by DeMauro (1982) indicates, and further substantiates that Hymenoxys acaulis var. glabra is self-incompatible. This may have been a factor leading to the natural disappearance of one of the last

Lakeside daisy populations in Illinois (DeMauro 1982).

The Service has carefully assessed the best scientific and commercial information available regarding the past, present, and future threats faced by the species in determining to make this rule final. Based upon this evaluation, the preferred action is to list Hymenoxys acaulis var. glabra as threatened. In the United States only one fragmented population of this species is known to survive. It is on privately owned property and receives no protection or management designed to enhance its likelihood of continued existence. Threatened status is appropriate for the species as a whole, because without protection and further research the present vulnerability of the species to become endangered will continue. For reasons detailed below, it is not considered prudent to designate critical habitat.

Critical Habitat

Section 4(a)(3) of the Act, as amended, requires that to the maximum extent prudent and determinable, the Secretary designate critical habitat at the time the species is determined to be endangered or threatened. The designation of critical habitat is not considered to be prudent when such designation would not be of net benefit to the species involved (50 CFR 424.12). The Service believes that designation of critical habitat for Hymenoxys acaulis var. glabra would not be prudent because no benefit to the species can be identified that would outweigh the potential threat of vandalism or collection, which might be exacerbated by the publication of a detailed critical habitat description and

Available Conservation Measures

Conservation measures provided to species listed as endangered or threatened under the Endangered Species Act include recognition. recovery actions, requirements for Federal protection, and prohibitions against certain practices. Recognition through listing encourages and results in conservation actions by Federal, State, and private agencies, groups, and individuals. The Endangered Species Act provides for possible land acquisition and cooperation with the States. It also requires that recovery actions be carried out for listed species. Such actions are initiated by the Service following the listing. Potential recovery ectivities include vegetation control of woody overstory and reintroduction into areas of the plant's historic range. The protection required of Federal agencies

and prohibitions against collecting are discussed, in part, below.

Section 7(a) of the Act, as amended, requires Federal agencies to evaluate their actions with respect to any species that is proposed or listed as endangered or threatened and with respect to its critical habitat, if any is being designated. Regulations implementing this interagency cooperation provision of the Act are codified at 50 CFR Part 402. Section 7(a)(2) requires Federal agencies to ensure that activities they authorize, fund, or carry out are not likely to jeopardize the continued existence of a listed species or to destroy or adversely modify its critical habitat. If a Federal action may adversely affect a listed species, or its critical habitat, the responsible Federal agency must enter into formal consultation with the Service. Since the Lakeside daisy is not known to grow on Federal lands, little if any Federal involvement is anticipated.

The Act and its implementing regulations found at 50 CFR 17.71 and 17.72 set forth a series of general trade prohibitions and exceptions that apply to all endangered plant species. With respect to Hymenoxys acaulis var. glabra, all trade prohibitions of section 9(a)(2) of the Act, implemented by 50 CFR 17.71 apply. These prohibitions, in part, make it illegal for any person subject to the jurisdiction of the United States to import or export, transport in interstate or foreign commerce in the course of a commercial activity, sell or offer for sale this species in interstate or foreign commerce, or remove it from areas under Federal jurisdiction and reduce it to possession. Seeds from cultivated specimens of threatened plant species are exempt from these prohibitions provided that a statement of "cultivated origin" appears on their containers. Certain exceptions can apply to agents of the Service and State conservation agencies. The Act and 50 CFR and 17.72 also provide for the issuance of permits to carry out otherwise prohibited activities involving endangered species under certain circumstances. It is anticipated that few trade permits would ever be sought or issued, since this plant is not common in cultivation or in the wild. Requests for copies of the regulations on plants and inquiries regarding them may be addressed to the Office of Management Authority, U.S. Fish and Wildlife Service, P.O. Box 27329, Central Station, Washington, DC 20038 (703/343-4955).

National Environmental Policy Act

The Fish and Wildlife Service has determined that an Environmental

Assessment, as defined under the authority of the National Environmental Policy Act of 1969, need not be prepared in connection with regulations adopted pursuant to section 4(a) of the Endangered Species Act of 1973, as amended. A notice outlining the Service's reasons for this determination was published in the Federal Register on October 25, 1983 (48 FR 49244).

References Cited

Cusick, A.W. and J.F. Burns. 1984. Hymenoxys acaulis (Pursh) Parker var. glabra (Gray) Parker. 2 pages in R.M. McCance, Jr. and J.F. Burns, eds. Ohio **Endangered and Threatened Vascular** Plants. Department of Natural Resources, Author Columbus, Ohio. n.p.

DeMauro, M.M. 1987. A permanent monitoring program for the Lakeside Daisy (Hymenoxys acaulis) var. glabra) at the Marblehead Quarry, Marblehead,

Ottawa County, Ohio. unpubl. rep. 48 pp. DeMauro, M.M. 1982. Aspects of the reproductive biology of the endangered H. acaulis var. glabra: Implications for conservation. M.S. Thesis. U. of IL at Chicago, Chicago, IL. 64 pp.

Moseley, E.L. 1930. Some plants that were probably brought to northern Ohio from the west by Indians. Papers of the Mich. Acad. of Sci., Arts, and Letters 13:169-172.

Parker, K.F. 1950. New combinations in Hymenoxys. Madrono 10:159.

Weed, C.M. 1890. The Lakeside daisy. Journal Columbus. Horticultural Soc. 5:72-73.

White, D.J. and R.V. Maher. 1983. Hymenoxys acaulis (Pursh) Parker var. glabra (Gray) Parker, 1 page In: G.W. Argus and D.I. White, Eds. Atlas of the Rare Vascular plants of Ontario. National Museum of Natural Sciences, Ottawa. n.p.

Wunderlin, R.P. 1971. Contributions to an Illinois Flora No. 4. Trans. Illinois Acad. Sci. 64:317-327.

The primary author of this proposed rule is William F. Harrison (see ADDRESSES section) (612/725-3276 or FTS 725-3276).

List of Subjects in 50 CFR Part 17

Endangered and threatened wildlife, Fish, Marine mammals, Plants (agriculture).

PART 17-[AMENDED]

Accordingly, Part 17, Subchapter B of chapter I, Title 50 of the Code of Federal Regulations, is amended as set forth below:

1. The authority citation for Part 17 continues to read as follows:

Authority: Pub. L. 93-205, 87 Stat. 884; Pub. L. 94-359, 90 Stat. 911; Pub. L. 95-632, 92 Stat. 3751; Pub. L. 96-159; 93 Stat. 1225; Pub. L. 97-304, 96 Stat. 1411 (16 U.S.C. 1531 et seq.); Pub. L. 99-625, 100 Stat. 3500 (1986), unless otherwise noted.

2. Amend § 17.12(h) by adding the following, in alphabetic order under the family Asteraceae, to the List of **Endangered and Threatened Plants:**

§ 17.12 Endangered and threatended plants.

(h) *

Species			t states in second		Clat in	lath on Fahad	Critical	Special
Scientific name		Common name	Historic range		Status	When listed	habitat	rules
Asteraceae—Aster family:	•	•	•	•.	•	•		
Hymenoxys acaulis glabra.	var.	Lakeside daisy	U.S.A	A. (OH,IL) Canada (ON)	. т	310	NA	P-1
•	•	•	•	+ •	•	•		

Dated: June 3, 1988.

Susan Recce.

Acting Assistant Secretary for Fish and Wildlife and Parks.

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