

UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE  
ELSBERRY, MISSOURI

And

THE IOWA ECOTYPE PROJECT AT THE  
UNIVERSITY OF NORTHERN IOWA  
CEDAR FALLS, IOWA

NATIVE ROADSIDE VEGETATION CENTER  
CEDAR FALLS, IOWA

IOWA DEPARTMENT OF TRANSPORTATION  
AMES, IOWA

IOWA CROP IMPROVEMENT ASSOCIATION  
AMES, IOWA

**NOTICE OF RELEASE OF SOUTHERN IOWA GERMPLASM  
PALE PURPLE CONEFLOWER  
SOURCE IDENTIFIED CLASS OF NATURAL GERMPLASM**

The Natural Resources Conservation Service (NRCS), U.S. Department of Agriculture and the Iowa Ecotype Project at the University of Northern Iowa (UNI), the Native Roadside Vegetation Center (NRVC), the Iowa Department of Transportation (IDOT), and the Iowa Crop Improvement Association (ICIA) announce the release of a source identified ecotype of pale purple coneflower (*Echinacea pallida* Nutt.) for Southern Iowa counties.

As a source identified release, this plant will be referred to as Southern Iowa Germplasm pale purple coneflower to document its original collections. Southern Iowa Germplasm pale purple coneflower released as a source identified type of certified seed (natural track). It has been assigned the NRCS accession number 9068613.

This alternative release procedure is justified because there are no existing commercial sources of pale purple coneflower collected from numerous native sites throughout this specific region. Propagation material of specific ecotypes is needed for roadside plantings and prairie restoration and enhancement. The potential for immediate use is high.

**Collection Site Information:** Collections were taken from native prairie remnants within the three tiers of counties located in southern Iowa.

**Ecotype Description:** Pale purple coneflower is a perennial native prairie wildflower which grows 2 to 3 feet tall. The leaves are mostly basal; elongate-oval, blades 7 by  $\frac{3}{4}$  inches with leaf stalks from 6 inches for basal leaves to  $\frac{3}{4}$  inch for stem leaves; parallel veins in the blades; bulb-based hairs above and below. There is a single head at the top of a stalk having stiff hairs and a few small leaves. The heads are pale to deep rose-purple, drooping rays, 1  $\frac{1}{2}$  inches long, dark purple disk flowers on a conical base, the disk about 1 inch tall and 1 inch in diameter; flowering from May to July; rays often last until August. The fruits (seeds) are  $\frac{1}{8}$  inch long, squarish and

pointed at one end; no plume; fruiting begins in late June; often fruits persist in the head through the winter

**Environmental Impact Assessment:** Southern Iowa Germplasm pale purple coneflower is a collection of naturally occurring germplasm and has been unaltered. Southern Iowa Germplasm pale purple coneflower did not meet the assessment of a plant which could become invasive based on guidelines adopted by the NRCS Plant Materials Program.

**Anticipated Conservation Use:** The potential uses of Southern Iowa Germplasm pale purple coneflower include roadside plantings, prairie creations and restorations, landscaping, and for increasing plant diversity in prairie communities.

**Potential Area of Adaptation:** Pale purple coneflower occurs throughout the tallgrass prairie biome, and common on limestone glades, barrens, bald knobs, fields, along railroads, and prairies, rarely in dry rocky woods. The range is from Illinois and Michigan to Minnesota and Nebraska, south to Georgia, Alabama, Louisiana, and Texas.

**Availability of Plant Materials:** G1 material is being produced in limited supply by the Elsberry Plant Materials Center. For information contact USDA, NRCS, Plant Materials Center, 2803 N. Hwy 79, Elsberry, Missouri 63343 (573 898-2012).

**References:**

*Flora of Missouri*; pp. 1560-1562; Steyemark, J. A.; Iowa State University Press, Ames, IA 1968.

*An Illustrated Guide to Iowa Prairie Plants*; p. 43, Christiansen, P. and Muller, M.; University of Iowa Press, Iowa City, IA 1999.

**Prepared by:**

S.B. Bruckerhoff, USDA NRCS Plant Materials Center, 2903 North Hwy 79, Elsberry, Missouri, 63343.

**Signatures for release of:**

**Southern Iowa Germplasm pale purple coneflower (*Echinacia pallida Nutt.*)**

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Roger A. Hansen  
State Conservationist  
United States Department of Agriculture  
Natural Resources Conservation Service  
Columbia, Missouri

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Date

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Robert Koob  
President  
University of Northern Iowa  
Cedar Falls, Iowa

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Date

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Leroy Brown  
State Conservationist  
United States Department of Agriculture  
Natural Resources Conservation Service  
Des Moines, Iowa

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Date

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Steve Holland  
Iowa Department of Transportation  
Ames, Iowa

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Date

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Daryl D. Smith  
Director, NRVE  
University of Northern Iowa  
Cedar Falls, Iowa

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Date

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Robert E. Lawson  
Secretary/Treasurer  
Iowa Crop Improvement Association  
Ames, Iowa

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Date

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Richard S. White PM - NPL  
For Director, Ecological Sciences Division  
United States Department of Agriculture  
Natural Resources Conservation Service  
Washington, D.C.

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Date