

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Washington, D.C.

and

AGRICULTURAL RESEARCH CENTER
Washington State University
Pullman, Washington

and

IDAHO AGRICULTURAL EXPERIMENT STATION
University of Idaho
Moscow, Idaho

and

NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION
North Dakota State University
Fargo, North Dakota

NOTICE OF RELEASE OF 'PENNELL' LENTIL

The Agricultural Research Service of the United States Department of Agriculture, the Washington Agricultural Research Center, the Idaho Agricultural Experiment Station and the North Dakota Agricultural Experiment Station announce the release and naming of a large yellow cotyledon lentil (*Lens culinaris* Medik.), 'Pennell.' Pennell was developed by the U.S. Department of Agriculture, Grain Legume Genetics and Physiology Research Unit at Pullman, Washington, in cooperation with the College of Agriculture, Agricultural Research Center of Washington State University. Pennell, selection LC460197, originated as an F₆ selection from the cross of LC660194/'Brewer' (cross number X90L010) made by F.J. Muehlbauer in 1990. LC660194 is a selection from P.I. 299321 made in 1985 for large seed size and upright plant habit. LC660194 was crossed with Brewer and LC460197 was selected from the resulting progeny.

Pennell was yield tested in eastern Washington, northern Idaho, Montana and North Dakota for a total of 15 site-years from 1997 to 2000. It outyielded 'Mason' in 8 of the tests and outyielded Brewer in 5 of the tests. Pennell outyielded 'Mason', the comparable variety for seed size, by an average of 9.1% when averaged over all site-years from 1997 to 2000 (1632 vs. 1335 kg/ha) or (1301 vs. 1192 pounds/acre). Seed size of Pennell is similar to Mason at 6.6 grams per 100 seeds and significantly larger than seeds of Brewer. Seeds of Pennell are light green with yellow cotyledons and lack seedcoat mottling.

Pennell flowers an average of 58 days after planting and matures in 105 days; approximately 1 day later than Brewer. It has an upright plant habit and averages 39 cm (16 inches) tall. It is branched at the base and remains somewhat upright at maturity. **Pennell** had lower scores for virus infection, mainly pea enation mosaic, when compared to Mason. Scores for resistance to aphanomyces root rot caused by *Aphanomyces eutiches* Trow. were similar to those for Mason and Brewer.

Pennell was named after Tom Pennell, a long time producer and supporter of the lentil industry in the Palouse region. Breeder seed will be maintained by the Washington State Crop Improvement Association. Foundation seed will be available from the Washington State Crop Improvement Association, Washington State University, Pullman, Washington, 99164.

Release date for publicity purposes shall be effective on the date of final signature of the release notice.

Genetic material of this release will be deposited in the National Plant Germplasm System where it will be available for research purposes, including development and commercialization of new varieties/cultivars. Plant variety protection will not be pursued for this variety.

It is requested that appropriate recognition be made if this germplasm contributes to the development of a new breeding line or cultivar.

Ralph P. Cavalieri

Director, Agricultural Research Center
Washington State University

11/26/02
Date

Richard C. Fennell

Director, Idaho Agricultural Experiment Station
University of Idaho

12/9/02
Date

Kenneth F. Giff

Director, North Dakota Agricultural Experiment Station
North Dakota State University

12/18/02
Date

Carol E. Peterson

Administrator, Agricultural Research Service
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1/7/03
Date