

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
PLANT SCIENCES DIVISION

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PLANT SCIENCE RESEARCH DIVISION

OREGON AGRICULTURAL EXPERIMENT STATION
CORVALLIS, OREGON

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NOTICE OF RELEASE OF MARSHFIELD BIG TREFOIL

The Plant Sciences Division, Soil Conservation Service, and the Plant Science Research Division, Agricultural Research Service, both of the United States Department of Agriculture, and the Agricultural Experiment Stations of Oregon and Washington, announce the release of 'Marshfield' big trefoil (Lotus pedunculatus Cav.). It was developed by Stanley L. Swanson and William H. Billings, Soil Conservation Service, Plant Materials Center, Corvallis, Oregon; and H. H. Rampton, Plant Science Research Division, Agricultural Research Service, U.S. Department of Agriculture, Corvallis, Oregon.

Marshfield, a semi-erect, comparatively glabrous big trefoil, was developed from PI 48636, introduced from New Zealand in 1919. It has distinctive reddish coloration on the stems and leaf margins, produces heavy seed crops, and is moderately resistant to seed shattering. Seedling vigor is good, and plants are very uniform as a result of mass selection and roguing.

In observational rows, Marshfield was more persistent than 'Columbia', 'Beaver', 'Border', and commercial big trefoil at the Corvallis Plant Materials Center. In a replicated strain trial, it was consistently **more** productive than the above accessions. Marshfield big trefoil has been tested in Field Plantings west of the Cascades, both for pasture use on poorly drained acid soils, and on upland sites where precipitation averages more than 60 inches annually. Under the foregoing conditions it has been equal or superior to the big trefoil seedlings with which it has **been** compared. Marshfield is best adapted to wet conditions of long duration, in association with meadow foxtail, timothy, or Reed canarygrass.

