REGISTRATION OF CROP CULTIVARS

REGISTRATION OF MELROSE FIELD PEA
(Reg. No. 11)


'Melrose' field pea (Pisum sativum subsp. arvense) was released by the Univ. of Idaho in cooperation with the Washington State Univ., Washington State Univ., and Michigan State Univ. in December, 1977. It is an F₆ selection from 'Perfection' edible spring pea and a selection from a 'Perfection' x 'Winter' field pea. This cultivar has been under evaluation at the Univ. of Idaho since 1973 but originally was selected at Michigan State Univ. as an experimental line.

Melrose has a chocolate brown, speckled and mottled seed coat; smooth seed; and yellow cotyledons. When seeded early in the fall, this cultivar flowers in early June above the fifteenth node in an indeterminate manner. Two or three flowers are borne on each peduncle. Vines may exceed 2.5 m in maturity. It does not require vernalization to flower and may be seeded in the early spring.

Melrose has tolerance to Ascochyta foot rot of P. arvense Malbn. and R. solani (Jones) Gray, the pea leaf weevil (Sitona lineatus L.), and Fusarium wilt race 1 (F. oxysporum Schlecht f. sp. pisi L. and Hans.) and powdery mildew (Erysiphe pisi Schw.). Melrose has yielded 11, 15, and 19% more seed than 'Fenn,' 'Austrian Winter,' and 'Romack' field peas, respectively in spring in the grand prairie area of northern Idaho.

Melrose is adapted to a wide range of soils and is suited for use as a green manure crop in the producing regions of the United States. It has good survival in northern Idaho when seeded in the spring, but the cultivar cannot tolerate waterlogged soils or submerging water.

Seed production of Melrose will be limited to a foundation, registered, and certified seed supply of breeder seed will be maintained by the Idaho Pea and Lentil Commission and the Idaho Agric. Exp. Stn., Moscow, ID 83843. Commercial seed will be supervised by the North Idaho Foundation Seed Commission, Moscow, ID 83843, in cooperation with the Idaho Pea and Lentil Commission and the Idaho Agric. Exp. Stn.

REGISTRATION OF BOB OAT
(Reg. No. 290)

F. C. Collins and J. P. Jones

'Bob' oat (Avena sativa L.), CI 9261, Ark. 99-190, is a winter oat cultivar released by the Arkansas Agric. Exp. Stn. in 1977. It was derived from a cross of 'Nora' x 'Florida 501' made in 1970. Bob traces to an F₂ plant that exhibited crown rust resistance (Puccinia coronata Cda. F. sp. avenae Eriks & E. Henne.) at Stuttgart, Arkansas in 1972. It has been tested in Arkansas for 5 years and in the Uniform Central Winter Oat Nursery from 1975 to 1977. Prior to release, 13 F₄ sister lines of similar appearance were composited to form the breeder seed.

Bob should be well adapted to the oat growing areas of Arkansas and adjacent states with similar environments. Bob is particularly well adapted to the Grand Prairie area of Arkansas where most of the seed oats is grown. The 5-year yield averages for Bob, Nora, and Florida 501 at the Rice Branch Station near Stuttgart, Arkansas, were 3,888, 3,415, and 3,171 kg/ha, respectively. Bob also has had heavier test weight (48.3 kg/ha), better crown rust resistance, and higher protein level than Nora or Florida 501, and it is intermediate to Nora and Florida 501 for winterhardiness and maturity.

Bob has erect juvenile growth habit, and its adult plant height averages 5 and 7 cm shorter than Florida 501 and Nora, respectively.

REGISTRATION OF EARLY BUNCH PEANUT
(Reg No. 21)

A. J. Norden, R. O. Hammons, and D. J. Ryan

The 'Early Bunch' peanut, Arachis hypogaea var. hypogaea, was jointly released by the Univ. of Arkansas, Fayetteville, AR 72701. Variety protection will not be sought.

Robert J. O'C. Collins and J. P. Jones