REGISTRATION OF CROP CULTIVARS

REGISTRATION OF RAMSEY ALFALFA

(Reg. No. 69)

L. J. Elling, F. I. Froshieser, D. K. Barnes, and R. D. Wilcoxson*

'RAMSEY' alfalfa (Medicago sativa L.) was developed by the Minnesota Agricultural Experiment Station and the Agricultural Research Service, USDA. It was released jointly with the Iowa, Michigan, and Missouri Agricultural Experiment Stations on March 15, 1978. It was tested experimentally as Minn. Syn. N. 105-

Ramsey is a four-clone synthetic. Two parental clones trace to 'Ladak.' One clone was selected from a cross between clones C-10 x Ind. 73 and one clone, C-318 (= Pa. 53-19), was selected at the U. S. Regional Pasture Research Laboratory, University Park, Pennsylvania.

Ramsey is a winter-hardy, multiple pest resistant cultivar. It is similar in adaptation to 'Vernal.' Ramsey has higher levels of resistance to common leafspot, spring blackstem, downy mildew, Leptosphaerulina leaf spot, Phylophthora root rot, potato leafhopper yellowing, and lodging than Vernal. The levels of bacterial wilt resistance are similar in Ramsey and Vernal. Based on 32 test years in Minnesota, yields of Ramsey were equal to those of Vernal, 'Iroquois,' and 'Saranac' during years when winter injury and diseases were not a problem. However, during periods of stress and in long-term stands, yields of Ramsey were superior to those of other cultivars.

Breeder seed (Syn. 2) was produced at Lamberton, Minnesota, from a field of 10,000 plants representing equal numbers of plants from the six possible single crosses made among the four parent clones. Reserve breeder seed will be maintained by the Minnesota Agricultural Experiment Station. The region of adaptation for seed production is the northern alfalfa region as defined by the national Alfalfa Improvement Conference. Seed classes will be breeder, foundation, and certified. Certified seed may be produced on fields established with breeder or foundation seed. Certified seed should be available for planting in 1976.

Ramsey was favorably reviewed by the National Certified Alfalfa Variety Review Board at its December 1972 meeting.

REGISTRATION OF TEAM ALFALFA

(Reg. No. 59)

L. J. Elling, F. I. Froshieser, D. K. Barnes, and R. D. Wilcoxson*

'TEAM,' alfalfa (Medicago sativa L.) was developed by the Agricultural Research Service, USDA, and the North Central Region, ARS, USDA, St. Paul, Minn. 55101 (formerly Beltsville, Md.).

Team was favorably reviewed by the National Certified Alfalfa Variety Review Board at its December 1972 meeting.

REGISTRATION OF RAPIDAN BARLEY

(Reg. No. 41)

T. M. Starling, C. W. Roane, and H. M. Camper, Jr.

RAPIDAN BARLEY (Hordeum vulgare L.) was developed cooperatively by the Agricultural Research Service, USDA, and the North Carolina Agricultural Experiment Stations at Raleigh, N. C. More than one-half of the 66 plants were from polycrosses of clones selected in North Carolina, which traced to polycrosses and synthetics obtained and Nebraska in 1946. The other plants trace to 'Atlantic,' 'Rhizoma,' and 'DuPuits.' The first cycles of selection were conducted in the field in North Carolina and Maryland. The fifth and sixth cycles of selection were conducted in the laboratory at Beltsville, Md. From 2,500 to 50,000 plants were evaluated each year. Comparisons with early generations and data from feeding trials indicated that increased weevil tolerance was primarily from field selection. Although laboratory tests may not appear to be effective in selection for weevil resistance, such tests were useful in characterizing the kind of resistance present.

Breeder seed was produced at Prosser, Wash., from a planting of 10,000 MSHp7 plants. The area of production for foundation seed is defined as that north of the 40° latitude at elevations below 760 m (2,500 ft) in the states of California, Oregon, Idaho, and Washington. Seed is limited to two generations of multiplication from one each of foundation and certified.

Reserve breeder seed is maintained by the National Alfalfa Genetics Laboratory, ARS, USDA, Agricultural Research Service, Beltsville, Md. 20705.

Team was favorably reviewed by the National Certified Alfalfa Variety Review Board at its December 1972 meeting.

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