Potato leafhopper yellowing visual scores for N.S. 76 P2PA1, N.S. 86, 'Ranger', and Weevlchek were 3.7, 3.3, 7.7, and 5.0, respectively, on a scale of 1-3 resistant, 4-6 intermediate, and 7-9 susceptible, on 21 July 1982, in a nursery seeded in April 1981 at the Nebraska Agricultural Experiment Station, Lincoln, NE. The nursery was cut July 26 and potato leafhopper yellowing visual scores for N.S. 76 P2PA1, N.S. 86, 'Ranger', and Weevlchek were 2.7, 3.3, 6.7, and 3.3, respectively, on 1 Sept. 1982. In Nebraska seedling tests, percentages of plants resistant to pea aphids in N.S. 76 P2PA1, 'Dawson', and 'Vernal' were 58, 55, and 0%, respectively; and percentages of plants resistant to spotted alfalfa aphids [Therioaphis maculata (Buckton)] biotypes collected in Nebraska were 14, 42, and 0%, respectively. Percentages of plants resistant to pea aphids in N.S. 86, Dawson, and Vernal were 54, 66, and 7%, respectively; and percentages of plants resistant to spotted alfalfa aphids were 10, 32, and 0%, respectively. Percentages of plants resistant to Phytophthora root rot for N.S. 76 P2PA1, 'Saranac', and 'Agate' were 20, 7, and 53%, respectively, in a Minnesota test.

The 2-year average forage yield of N.S. 76 P2PA1 was 108% of the average of four check cultivars, Baker, Dawson, 'Riley', and Vernal in a yield test at Mead, NE. The forage yield of N.S. 86 was 104% of the average of the same four check cultivars in 1982 in a yield test seeded in 1981 at Mead. Two-year average seed yields of N.S. 76 P2PA1 were 117% of those of Dawson and Saranac, and 130% of those of Vernal at Fresno, CA. At Caldwell, ID, 2-year average seed yields of N.S. 76 P2PA1 were in the same range as those of Dawson, Saranac, and Vernal. Two-year average seed yields of N.S. 86 were 115% of those of Dawson and Vernal, and 98% of those of Saranac at Caldwell.

Ten grams of seed of N.S. 76 P2PA1 and N.S. 86 are available to each applicant upon written request and agreement to appropriately recognize its source as a matter of open record when this germplasm contributes to the development of a new cultivar or hybrid. Submit seed requests to the Dep. of Agronomy, Univ. of Nebraska, Lincoln, NE 68583.

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References and Notes

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REGISTRATION OF N.S. 77 SN2AN2 AND N.S. 79 SN2AN2 ALFALFA GERMPLASMS DEVELOPED BY W. R. KEHR AND B. D. THYR (1)

References and Notes

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