

D. D. DOLAN, S. W. BRAVERMAN and W. R. SHERRING

Evaluation of trefoil introductions at the Northeast Regional Plant Introduction Station, Geneva, New York, 1973-1975.

Trefoil introductions are grown and evaluated in spaced plantings with two replicates of each introduction. Each row is 20' long containing 20 plants. The rows are spaced 4' apart and the individual plants in the row 1' apart. During each growing season, beginning in mid-July and continuing to mid-August, a tabular form is prepared with the plant introduction number in the left-hand column and the various plant characteristics in the remaining 17 columns. This tabulated information is then punched on IBM cards. The IBM cards are used to prepare a printout which is then reproduced and this information distributed to trefoil workers.

The various plant characteristics listed are: country of origin, uniformity from plant to plant, habit of growth, vigor, plant size, number of stems, size of stems, number of leaves, size of leaves, color of leaves, flower color, time of bloom, set of pods, recovery after cutting, winter hardiness, spring recovery the following year, susceptibility to diseases and insects.

#### Lotus corniculatus

From the preliminary evaluations conducted during this three-year period, the following introductions appear promising, particularly from the point of view of winter hardiness, persistence, spring recovery, plant vigor, plant leafiness and time of bloom:- P.I. 234810 Switz., 235110 Den., 260692 Italy, 319823 Nor., G-22517 USA, G-22520 USA, 380896 Iran, 383685 Tur., 383687 Tur., 383689 Tur., 180171 Czech., 196539 Italy, 319823 Nor., 384882 Iran and G-23197 Czech.

#### Lotus caucasicus

The following introductions of Lotus caucasicus appear promising for the same characteristics as listed above:- P.I. 314090 USSR, 314535 USSR, 314930 USSR, 315449 USSR, 325365 USSR, 325366 USSR, 325367 USSR, 325369 USSR, 325370 USSR, 325371 USSR, 325372 USSR, 325373 USSR, 325374 USSR, 325375 USSR, 325376 USSR, 325377 USSR. and 325378 USSR.

#### Lotus pedunculatus

Preliminary evaluation during the three-year duration indicated that the following introductions of L. pedunculatus are promising for the plant characteristics mentioned above:- P.I. 180172 Czech., G-3578 USA, 235102 Swe., 235528 Ger., 235530 Eng., 239939 Eng., 376219 N. Zea., 234812 Switz., 239938 Fr., 189113 N. Zea., 235114 Den., 235115 Den., and 376219 N. Zea.

Seed packets of any of the trefoil introductions listed above are available on request from the Regional Plant Introduction Station, Sturtevant Hall, Rm 201, P. O. Box 480, N. Y. State Agricultural Experiment Station, Geneva, N. Y. 14456