

PI 578860. X *Festulolium ascendens* (Retz.) Asch. & Graebn.
Cultivar. "KEMAL". PVP 8100124.

The following were donated by USDA-ARS, Northern Great Plains Research Lab.,
P.O. Box 459, Mandan, North Dakota 58554, United States. Received 1984.

PI 578861. X *Achnella caduca* (Beal) Barkworth
MANDAN D 1268; W6 7172.

The following were developed by Paul D. Legg, University of Kentucky, P.O.
Box 169, Princeton, Kentucky 42445, United States. Received 05/02/1994.

PI 578862. *Nicotiana tabacum* L.
Breeding. IG KY 160. GP-49. Pedigree - Mammoth C187/KY 160 followed by 5
backcrosses to KY 160 and 2 selfed generations. Growth habit
indeterminate, thus agronomic performance depends upon topping time and
height. Three-year performance trials conducted in which topped on same
date as KY 160 and at a similar point directly above the smallest leaf
exceeding 6 inches in length. KY 160 had 15 leaves per plant, 77cm tall,
and midstalk leaf length 76cm and width 37cm. IG KY 160 had 18 leaves
per plant, 102cm tall and midstalk length and width of 83 and 39cm.

PI 578863. *Nicotiana tabacum* L.
Breeding. IG KY 171. GP-48. Pedigree - Mammoth C187/KY 171 followed by 5
backcrosses to KY 171 and 2 selfed generations. Growth habit
indeterminate, thus agronomic performance depends upon topping time and
height. Three-year performance trials conducted in which topped on same
date as KY 171 and at a similar point directly above the smallest leaf
exceeding 6 inches in length. KY 171 had 17 leaves per plant, 72cm tall,
and midstalk leaf length 83cm and width 36cm. IG KY 171 had 23 leaves
per plant, 91cm tall and midstalk length and width of 36 and 39cm.

PI 578864. *Nicotiana tabacum* L.
Breeding. PY KY 160. GP-51. Pedigree - PY NC 95/KY 160 followed by 5
backcrosses to KY 160 and 2 selfed generations. Agronomically comparable
to KY 160. Based on three years of testing, has 15 leaves per plant,
plant height of 77cm, leaf length at midstalk of 76cm, leaf width at
midstalk of 37cm and a cured-leaf yield of 288 grams per plant. Leaves
turn yellow about 4 to 5 weeks after topping, whereas, KY 160 stays
green.

PI 578865. *Nicotiana tabacum* L.
Breeding. PY KY 171. GP-50. Pedigree - PY NC 95/KY 171 followed by 5
backcrosses to KY 171 and 2 selfed generations. Agronomically comparable
to KY 171. Based on three years of testing, has 17 leaves per plant,
plant height of 72cm, leaf length at midstalk of 83cm, leaf width at
midstalk of 36cm and a cured-leaf yield of 247 grams per plant. Leaves
turn yellow about 4 to 5 weeks after topping, whereas, KY 171 stays
green. Nicotine level in percent of dry weight 5.31 compared to 4.70 for
KY 171.

The following were developed by C. E. Townsend, USDA, ARS, Crops Research
Laboratory, 1701 Center Avenue, Fort Collins, Colorado 80526, United States.
Received 05/02/1994.

PI 578866. *Astragalus cicer* L.
Breeding. "C-32"; W6 15568. GP-141. Pedigree - Selected from cultivar
Monarch by 5 cycles of phenotypic recurrent selection for regrowth at
the apical meristem following treatment with 2,4-D. Composite of
polycross seed (by weight) from 98 plants selected from Cycle 5.
Selected for tolerance to 2,4-D (1.0 kg/ha rate). Approximate number of