

Seedling emergence moderate-good, early plant establishment. Plants erect, height moderate-tall, avg. 129 cm, stems hollow. Flowers open early. Maturity 96 days from planting. Seed weight moderate-high 5.5 g 1000 seeds⁻¹, color bright yellow, oil content avg. 251 g kg⁻¹. Total glucosinolate content avg. 244 $\mu\text{mol g}^{-1}$. Sinalbin (p-hydroxybenzyl glucosinolate) accounted for greatest proportion, 97%, of total glucosinolate.

The following were developed by Jeff Pedersen, USDA, ARS, University of Nebraska, Department of Agronomy, Lincoln, Nebraska 68583-0937, United States ; Timothy D. Phillips, University of Kentucky, Department of Agronomy, Agricultural Science Building-North, Lexington, Kentucky 40546-0091, United States; Georgia Eizenga, USDA-ARS, Rice Research Station, P.O. Box 287, Stuttgart, Arkansas 72160, United States; P. B. Burrus, Jr., USDA-ARS, Tobacco and Forage Research Unit, Lexington, Kentucky, United States. Received 03/24/1997.

PI 597357. *Phleum pratense* L.

Breeding. Population. KY-LEAFY. GP-1. Pedigree - Selection from Clair timothy, a 3-clone synthetic. Vigorous, early maturing, begins growth about one week earlier than Clair in Kentucky. Leaves broad, light green. Greater basal leaf production. Heading 3 days earlier than Clair. Adapted to southern range of timothy production and areas where Clair timothy has performed well.

PI 597358. *Dactylis glomerata* L.

Breeding. Population. KY 07G23-334; KYOGI; KYI; POP I. GP-3. Pedigree - Selection from Boone. Leafy, vigorous, more upright growth habit than Boone, matures several days earlier than Boone in Kentucky. Some resistance to scald (*Rhynchosporium secalis*) and leaf rust (*Puccinia graminis* ssp. *graminicola*).

PI 597359. *Dactylis glomerata* L.

Breeding. Population. KY 07G23-336; KY OG III; KY III; POP III. GP-4. Pedigree - Selected from an old stand of Boone. Vigorous, high yielding population. Leaves darker green than Boone, more basal leaf production. Produces fewer panicles than Boone and matures a few days earlier than Boone in Kentucky. Resistance to scald (*Rhynchosporium secalis*) and leaf rust (*Puccinia graminis* ssp. *graminicola*).

The following were developed by Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 03/28/1997.

PI 597360. *Helianthus annuus* L.

Genetic. cmsHA 89(PEF1). GS-6. Pedigree - cms PEF1/5* HA 89. Cytoplasmic male sterile genetic stock. Provides increased genetic diversity in the sunflower cytoplasmic male sterile-restorer system, and available for use in sunflower breeding and hybrid development programs.

PI 597361. *Helianthus annuus* L.

Genetic. RPEF1. GS-7. Pedigree - cms PEF1/Zaria//RHA 274. F4-derived F6 restorer line. Selected for complete pollen fertility. Upper stem