

Type II (similar to Mayflower). Maturity rapid. Homozygous for the monogenically inherited dominant rust resistance to all 65 available races of bean rust fungus (*Uromyces appendiculatus*) from PI 181996. Also homozygous for the I gene for dominant resistance to most strains of bean common mosaic virus. Seeds have good white color and desired size for navy beans. Does not contain the Up-2 additional rust resistance gene. Due to some seed splitting in this line, selection should be practiced against this characteristic.

PI 584445. *Phaseolus vulgaris* L.

Breeding. "BELMIDAK-RUST RESISTANT-4". Pedigree - F5 from Mayflower*3//NX 040/PI 181996. Plant habit erect, Type II. Maturity early. Homozygous for the monogenically inherited, dominant rust resistance to all 65 available races of bean rust fungus (*Uromyces appendiculatus*) from PI 181996. Highly desirable combination of erect architecture, early maturity, and high yield. Seeds white. Does not contain the Up-2 rust resistance gene or resistance to bean common mosaic virus.

PI 584446. *Phaseolus vulgaris* L.

Breeding. "BELMIDAK-RUST RESISTANT-5". Pedigree - F5 from NX 040/4/4-5753/3/Mayflower//NX 040/PI 181996. Plant habit erect, Type II. Maturity rapid. Homozygous for the monogenically inherited, dominant resistance to all 65 available races of the bean rust fungus (*Uromyces appendiculatus*) from PI 181996. Also homozygous for the I gene for dominant resistance to most strains of bean common mosaic virus. Does not contain the Up-2 additional rust resistance gene. Seeds have white color and desirable size for navy beans.

PI 584447. *Phaseolus vulgaris* L.

Breeding. "BELMIDAK-RUST RESISTANT-6". Pedigree - F5 from NX 040/4/4-5753/3/Mayflower//NX040/PI 181996. Plant habit erect, Type II. Maturity rapid. Homozygous for the monogenically inherited, dominant resistance to all 65 available races of the bean rust fungus (*Uromyces appendiculatus*) from PI 181996. Also homozygous for the I gene for dominant resistance to most strains of bean common mosaic virus. Does not contain the Up-2 additional rust resistance gene. Seeds have excellent white color, appearance, and approach the upper size acceptable for navy beans (larger than Mayflower).

PI 584448. *Phaseolus vulgaris* L.

Breeding. "BELMIDAK-RUST RESISTANT-7". Pedigree - 4-5753*2/3/Mayflower//NX 040/PI 181996. Plant habit erect, Type II. Maturity rapid. Homozygous for the monogenically inherited, dominant resistance to all 65 available races of the bean rust fungus (*Uromyces appendiculatus*) from PI 181996. Also homozygous for the I gene for dominant resistance to most strains of bean common mosaic virus and segregating for the Up-2 dominant gene for additional resistance to about 1/3 of the rust races. Seeds have good white color and desired size for navy beans.

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PI 584449. *Bromus inermis* Leysser ssp. *inermis*

Cultivar. "ALPHA". CV-20. Pedigree - Closed-cycle recurrent selection from a broad-based, but undescribed, germplasm pool. Origin of germplasm is unknown. Ranks high in forage yield, forage digestibility, persistence in mixture with alfalfa, and resistance to phythium seedling blight and brown leafspot. No unusual morphological features.