

Breeding. BELDAKMI-RUST RESISTANT-6. Pedigree - F5 from 87-039-34*2/Bel 2-2193. In Michigan produced plants with erect, Type II, plant habit and nearly as tall as Sierra, but earlier maturity and higher yield than Sierra. Homozygous for monogenia, dominant resistance to all 65 available races of rust fungus from PI 181996 and for a second independent, dominant gene, effective-against many races, from Olathe, through 87-039-34 parental line. Homozygous for the I gene and a partially effective recessive gene for bean common mosaic virus resistance. Seeds slightly larger than Sierra, similar in size to Pinto 114, and of good pinto quality.

PI 584520. Phaseolus vulgaris L.

Breeding. BELDAKMI-RUST RESISTANT-7. Pedigree - F5 from 87-039-34*2/Bel 2-2193. In Michigan, erect Type II plant habit and moderately early maturity similar to line 87-039-34 and superior to Sierra. Slightly later in maturity than BDM-RR-5, but resembled BDM-RR-5 in intermediate plant height. Homozygous for monogenic, dominant resistance to all 65 available races of the rust fungus from PI 181996 and for a second independent, dominant gene, effective against many races, from Olathe, through its 87-039-34 parent. Homozygous for the I gene and a partially effective recessive gene for bean common mosaic virus resistance. Seeds 7% larger than those of largest seeded check, line 87-039-34.

PI 584521. Phaseolus vulgaris L.

Breeding. BELDAKMI-RUST RESISTANT-8. Pedigree - F5 from 87-039-34/4/Sierra/3/PX004//Sierra/PI 190078. Erect, Type II, attractive plant habit. Earlier maturity than Sierra, similar to earliness of BDM-RR-5 and -6. Homozygous for monogenic, dominant resistance to all 65 available races of rust fungus from PI 190078, and for a second independent dominant gene, effective against many races, from Olathe through 87-039-34 parent. The bean common mosaic virus resistance appeared to be different from other BDM-RR lines and is effective against most strains (all tested strains) of this virus. Seeds slightly larger than Sierra and of good pinto bean quality.

PI 584522. Phaseolus vulgaris L.

Breeding. BELDAKMI-RUST RESISTANT-9. Pedigree - F5 from 87-039-34/4/Sierra/3/PX004//Sierra/PI 190078. Erect, Type II, excellent plant habit and moderately early maturity like lines 87-039-34 and BDM-RR-7, but earlier than Sierra. Homozygous for monogenic, dominant resistance to all 65 available races of the rust fungus from PI 190078 and for a second, independent dominant gene effective against many races, from Olathe, through the 87-039-34 parent. Homozygous for the I gene and for a partially effective recessive gene for bean common mosaic virus resistance. Seeds of very good pinto quality and similar in color, shape and almost in size to the desirable seeds of Pinto 114.