



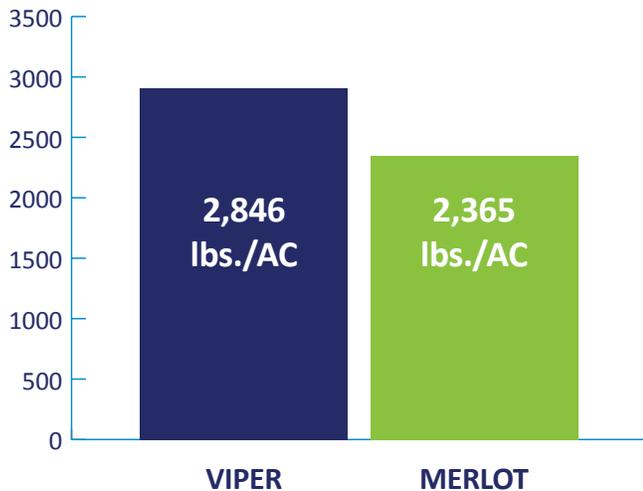
'Viper' Small Red

Great Lakes Region High Yielding Small Red Bean

PROFILE

Viper has shown broad adaptability in trials throughout the U.S. growing regions as well as the Manitoba and Ontario growing regions in Canada. Viper is indeterminant, upright in its architecture and provides great yield potential to the grower. Viper has desirable seed traits sought after in the small red market class. Good seed color, appearance and shape. Viper has demonstrated average canning characteristics. Preliminary testing shows resistance to BCMV.

Preliminary data shows Viper with a yield advantage of 481 lbs./AC. Assuming a 481 lbs./AC yield increase over Merlot, profit would increase \$192/AC on \$40/cwt. beans. This would amount to \$19,200 for 100 AC of production.



* Yield data based on 41 yr./locations of data.
 ** Maturity data is based on 26 yr./locations of data.
 *** Seed count based on 14 yr./locations of data.
 Data from 2009 - 2016 trials in Huron, Sanilac, Tuscola, Pigeon and Ruth, MI; Blythe and Kippen Ontario Canada.

TRIAL DATA

VIPER

Approx. Maturity	95-99 days or 1 day earlier than Merlot**
Approx. Seed Count	1,546 seeds/lb.***
Disease Resistance	Resistant to Rust strains tested for at Colorado State University

TO PURCHASE SEED: CONTACT YOUR LOCAL DEALER

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SR Viper was developed by ProVita, Inc.'s small red breeding program and is solely owned by ProVita, Inc., and is being marketed and sold by ADM Seedwest.

**Plant Variety Protection for SR Viper is applied for.
Unauthorized propagation of this variety is prohibited.**

All variety information presented herein is based on field and laboratory observations. Actual crop yield and quality are dependent upon many factors beyond our control. Since environmental conditions and local practices may affect variety characteristics and performance, we disclaim legal responsibility therefore. Read all tags and labels. They contain important conditions of sale, including limitations of warranties and remedies.

KEY TO RESISTANCE ABBREVIATIONS FOR BEANS

Plant Type 1A	Bush determinate erect stem
Plant Type 2A	Erect growth indeterminate short runners
Plant Type 2B	Erect growth indeterminate with medium to long runners
Plant Type 3B	Prostrate vine indeterminate growth with long runners
BCMV	Bean common mosaic caused by the specified strains of Bean common mosaic virus
BCTV	Curly top caused by Beet curly top virus
BGYMV	Bean golden yellow mosaic caused by Bean golden yellow mosaic virus
CI	Anthraco nose caused by <i>Collectrichum lindemuthianum</i>
Psp	Halo blight caused by <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>
Pss	Bacterial brown spot caused by <i>Pseudomonas syringae</i> pv. <i>syringae</i>
Ua	Rust caused by the specified races of <i>Uromyces appendiculatus</i>
HR	High Resistance: describes plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. Highly resistant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.
IR	Intermediate Resistance: describes plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to highly resistant varieties. Intermediately resistant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.

In cases where specific races or strains are not noted the variety is resistant to some, but not necessarily all known races or strains of the pathogen.

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