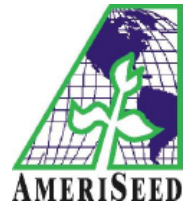


NEW!

# Pinto 'Lumen'

High-yielding, direct harvestable, slow-darkening pinto bean!

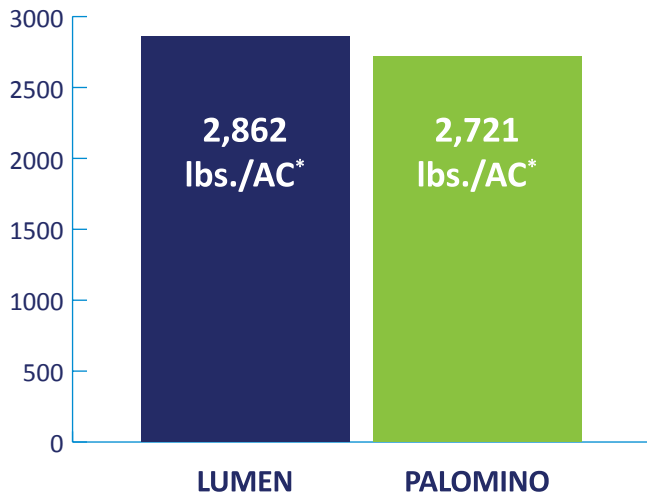


## PROFILE

Lumen has shown broad adaptability in trials throughout the High Plains, Idaho and in the MINDAK region. Lumen is indeterminate, upright in its architecture and provides great yield potential to the grower.

Lumen has a slow darkening gene which maintains its color through the natural aging process. The slow darkening gene also preserves the quality and value of Lumen through adverse weather conditions, that normally darken and degrade traditional pintos.

Assuming a 140 lbs./AC yield advantage compared to Palomino.\* Growing Lumen will potentially increase your profit by \$42/AC on \$30/cwt. beans. This amounts to \$4,200 on 100 acres.



\* Yield data based on 11 yr./locations of data.

\*\* Maturity data is based on 8 yr./locations of data.

\*\*\* Seed count data is based on 10 yr./locations of data.

Data from 2015 - 2018 trials in Buxton, Forest River, Hatton, Northwood, and St. Thomas, ND.



## TRIAL DATA

### LUMEN

- Excellent upright architecture for direct harvestability.
- Excellent seed color, color retention, appearance and shape.

**Approx. Maturity** 94-98 days or about 1 day earlier than Palomino\*\*

**Approx. Seed Count** 1,346 sds./lb. as compared to Palomino at 1,263 sds./lb.\*\*\*

**Disease Resistance** Resistant to Rust strains tested for at Colorado State University.

**TO PURCHASE SEED:  
CONTACT YOUR LOCAL DEALER**

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High-yielding, direct harvestable, slow-darkening pinto bean!



PT Lumen was developed through ProVita, Inc.'s pinto breeding program through a contract with AmeriSeed LLC and is the sole property of AmeriSeed LLC.

**Plant Variety Protection for PT Lumen is applied for. Unauthorized propagation of this variety is prohibited. Utility Patent for PT Lumen is pending. Unauthorized propagation of this variety is prohibited by law.**

**Lumen is the sole property of AmeriSeed LLC and is protected by U.S. Plant Variety protection and a U.S. Utility Patent. Any use of this variety for any purpose without express written consent of AmeriSeed LLC is prohibited under U.S. Patent law.**

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

<b>Plant Type 1A</b>	Bush determinate erect stem
<b>Plant Type 2A</b>	Erect growth indeterminate short runners
<b>Plant Type 2B</b>	Erect growth indeterminate with medium to long runners
<b>Plant Type 3B</b>	Prostrate vine indeterminate growth with long runners
<b>BCMV</b>	Bean common mosaic caused by the specified strains of Bean common mosaic virus
<b>BCTV</b>	Curly top caused by Beet curly top virus
<b>BGYMV</b>	Bean golden yellow mosaic caused by Bean golden yellow mosaic virus
<b>CI</b>	Anthraco nose caused by <i>Collectrichum lindemuthianum</i>
<b>Psp</b>	Halo blight caused by <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>
<b>Pss</b>	Bacterial brown spot caused by <i>Pseudomonas syringae</i> pv. <i>syringae</i>
<b>Ua</b>	Rust caused by the specified races of <i>Uromyces appendiculatus</i>
<b>HR</b>	<b>High Resistance:</b> 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.
<b>IR</b>	<b>Intermediate Resistance:</b> 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.

Rev. 01-01-2020

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