

## Yellowstone Field Pea

### **Breeder/variety development:**

Yellowstone is brought to New Zealand through a joint breeding effort between Plant Research (NZ) Limited and our USA yellow pea breeding partner Progene Plant Research LLC.

Plant Research (NZ) Limited and Progene Plant Research LLC USA

### **Characteristics**

Semi-leafless

Medium – Tall plant

White flowered

Seed yellow cotyledon, seed size range 240-280g/1000 seeds

Visually Yellowstone is a strong plant with thicker stems, larger tendrils and more tillers than Alezan. Pod length is longer than Alezan with 2-3 more grains in each pod.

Yellowstone has consistently out-yielded Alezan in replicated plot trials in Canterbury. In its first seed multiplication area in Leeston in 2014/15 Yellowstone yielded 10.1 mt/ha from an irrigated 0.9 ha multiplication area.

The point of difference between Alezan and Yellowstone is consistently higher grain yield, a larger grain size and improved tolerance to powdery mildew

Protein: 22-24% (dry seed)

### **Disease reactions**

Powdery mildew – tolerant

Downy mildew – moderately tolerant

Ascochyta blight – moderately tolerant

Fusarium wilt Race 1 - resistant

**Lodging resistance:** High (better than Alezan)

**Yield potential (mt/ha)–irrigated sites, replicated plot trials conducted by Plant Research (NZ) Limited**

Variety	2015/16	2016/17
Yellowstone	7.12	8.18
Alezan	6.99	7.29
CV%	6.28	5.15
LSD 5%	0.68	0.58

**Verified grower field yields** from 2016/17 (first year of commercial production):

Both locations irrigated

Southbridge: 6.7 and 6.8 mt/ha

Leeston: 6.8 and 7.2 mt/ha

**Contacts:**

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