

Fungicides for powdery mildew control in field pea, Carrington, 2006. (Bob Henson and Greg Endres)

Fungicides were investigated to control powdery mildew in susceptible (Toledo) and tolerant (Stirling) field pea varieties. The trial had a randomized complete block design with four replicates. The trial was planted at 300,000 pls/A on May 23. Fungicides were applied on July 13 with a CO₂ pressurized hand-held plot sprayer delivering 14 gal/A at 35 psi through 8002 TJ60 nozzles with 79 F, 76% RH, and 10 mph wind to field pea in the flat pod to early-pod fill stages. The trial was harvested with a plot combine on August 10.

Visual evaluation of foliar disease was not taken due to absence of powdery mildew or other diseases. There was no response to fungicide treatments (Table). Stirling had greater yield and test weight than Toledo.

Table.

Treatment ¹	Rate	Seed yield	Test weight	250 Kernel weight
	product/A	bu/A	lb/bu	g
untreated	x	41.5	63.6	58.72
Quadris	6.2 fl oz	41.5	63.9	59.41
JAU6476	4 fl oz	42.0	63.8	57.85
Headline	6 fl oz	44.2	63.7	58.56
Endura	8 oz	38.4	63.7	58.95
Kumulus	8 lb	43.2	63.8	58.90
LSD (0.05)		NS	NS	NS
Stirling		43.4	64.8	53.23
Toledo		40.1	62.7	64.23
LSD (0.05)		1.7	0.2	0.9
CV		6.7	0.5	2.4
mean		41.8	63.7	58.73

¹All fungicides except Kumulus include Induce at 0.125% v/v.