

Experiment report

Crop Dry peas (Baroness)

Title Disease control

Summary

Although there was downy mildew present no control was achieved by a range of fungicide treatments. There was no other disease and there was no yield response from the use of fungicides.

Object To assess the influence of disease on dry pea yields and compare the efficacy and yield responses from a range of fungicide programmes.

Site Manor Farm, Morley

Method

Treatments

	Fungicide (rate of product/ha) Early flower	Pods filling
1	Untreated	Untreated
2	Bavistin FL(1.0 l)+wetter	Bavistin FL(1.0 l)+wetter
3	Bravo(3.0 l)	Bravo(3.0 l)
4	Ronilan(1.0 l)	Ronilan(1.0 l)
5	Rovral(2.0 l)	Rovral(2.0 l)
6	Compass(3.0 l)	Compass(3.0 l)
7	Bravocarb(2.0 l)	Bravocarb(2.0 l)
8	NAS F146	NAS F146
9	NAS F148	NAS F148
10	Ronilan(1.0 l)+Bravo(3.0 l)	-
11	-	Ronilan(1.0 l)+Bravo(3.0 l)
12	Ronilan(1.0 l)+Bravo(3.0 l)	Ronilan(1.0 l)+Bravo(3.0 l)
13	Ronilan(0.5 l)+Bravo(1.0 l)	Ronilan(0.5 l)+Bravo(1.0 l)
14	Compass(1.5 l)	Compass(1.5 l)

*Not for publication without the Director's consent. This report deals primarily with only one year's work, so any conclusions given are provisional.

Layout Randomised block with 4 replicates

Results and discussion

Table 1. Grain yields (t/ha at 85% dm)

Fungicide (rate of product/ha) Early flower (2 June)	Pods filling (15 June)	
Untreated	Untreated	3.27
Bavistin FL(1.0 l)+wetter	Bavistin FL(1.0 l)+wetter	3.27
Bravo(3.0 l)	Bravo(3.0 l)	3.24
Ronilan(1.0 l)	Ronilan(1.0 l)	3.13
Rovral(2.0 l)	Rovral(2.0 l)	3.14
Compass(3.0 l)	Compass(3.0 l)	3.32
Bravocarb(2.0 l)	Bravocarb(2.0 l)	3.29
NAS F146	NAS F146	3.58
NAS F148	NAS F148	2.94
Ronilan(1.0 l)+Bravo(3.0 l)	-	3.08
-	Ronilan(1.0 l)+Bravo(3.0 l)	3.13
Ronilan(1.0 l)+Bravo(3.0 l)	Ronilan(1.0 l)+Bravo(3.0 l)	3.16
Ronilan(0.5 l)+Bravo(1.0 l)	Ronilan(0.5 l)+Bravo(1.0 l)	3.45
Compass(1.5 l)	Compass(1.5 l)	3.44
LSD		0.330

SE per plot (39 df) = ± 0.231 or 7.1% of GM

Downy mildew was present from late June, affecting tendrils and pods but there were no differences between treatments. None of the treatments had any significant effect on yield by comparison with the untreated control. However, the difference between the programmes including NAS F146 and NAS F148 was significant ($P=0.05$).

Appendix

Details of the downy mildew assessments and experiment and field diary are available on request.