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Fungicidal control of wheat leaf diseases

A G P Brown

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EXPERIMENT SUMMARY - A.G.P. BROWN

In a further experiment on fungicides to protect wheat during flowering and grain fill from Septoria nodorum at Badgingarra Research Station, rates below 1 litre and lower carrier volumes were compared for the fungicide Tilt applied at Zadoks stage 50. A few other fungicides were also included.

At spraying there was a moderate infection by Septoria nodorum (85% of leaf damage), Septoria tritici (10%) and Pyrenophora tritici-repentis (5%).

Good control was obtained with most treatments (Table 1) with only Benlate at 1 kg/ha appearing ineffective when percentage disease was rated on October 10, 1985. At October 17 disease scores differed little.

There were no effects on yield or grain weight - a rare situation at Badgingarra where yield reduction has been associated with the Septoria diseases for many years.

85BA50

Treatments	% Leaf Disease			Yield t/Ha	Seed wt. mg
	at Z50 18/9/85	at Z73 10/10/85	at Z77 17/10/85		
1. Tilt 1L @ 365 L Ha	-	20.1	20.9	3.15	3.94
2. Tilt 0.50L @ 375L Ha	-	32.8	33.6	3.24	3.74
3. Tilt 0.75L @ 375L Ha	-	32.1	33.7	3.25	3.94
4. Tilt 1L @ 125L Ha	-	25.7	26.8	3.26	3.97
5. Tilt 0.66L @ 250L Ha	-	21.9	22.8	3.24	3.87
7. Sportak 1L @ 375L Ha	-	37.0	37.9	3.02	3.69
8. DPX ^{H6573} 0.5L @ 375L Ha	-	42.0	48.8	3.16	3.92
9. PP450 1L @ 375L Ha	-	29.1	31.9	3.36	3.76
10. Benlate 1 Kg @ 375L Ha	-	56.5	57.8	3.32	3.86
11. Tilt 1L @ 250L Ha	-	26.0	27.6	3.35	3.91
12. Nil	29.0	76.6	81.0	3.09	3.77