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Cereal foliage disease survey

T N. Khan

A. G. P. Brown

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DEPARTMENT OF AGRICULTURE

Western Australia

EXPERIMENTAL SUMMARY 1977

Cereal Foliage Disease Survey

T.N. Khan & A.G.P. Brown
Plant Pathology Branch
Plant Research Division

Cereal Foliage Disease Survey

A dry season reduced disease to insignificant levels (as measured by this survey) in all areas except the south west. Late rains may have produced some damage to wheat by *S. nodorum* however but this was probably confined to southern areas.

In barley net blotch which has been declining re appeared a major disease in 1977 excepting high rainfall areas, where scald continued to be severe. The level of scald infection was considerably lower which may be associated with relatively higher temperatures and low rainfall. Variety Clipper continued to show high degree of tolerance to net blotch and a useful measure of resistance to powdery mildew.

Mean Percentage loss of Flag and Second Leaf area by rainfall areas & zones.

	RAINFALL AREA			- GROWING ZONE				
	A	B	C	1	2	3	4	5
	450 mm	325-450 mm	325 mm	North	N. Central	Central	Central	South
Wheat (Gamenya)	(25)	(75)	(35)	(6)*	(42)	(39)	(35)	(13)
Septoria spp.	7.6	1.1	0.5	2.9	0.4	0.4	2.7	11.2
Water stress, N. deficiency, Minor disease Etc.	35.3†	28.3	42.8	92.9	32.5	39.9	11.5	8.5
Total	42.9	29.4	43.3	95.8	32.9	40.3	14.2	19.7
Oats (West)	(11)	(7)	(4)	(3)	(3)	(5)	(8)	(3)
Septoria avenae	1.6	1.8	1.4	0	0	0.3	3.2	3.0
Water stress etc	61.6	26.6	30.9	100.0	100.0	60.6	3.8	11.3
Total	63.2	28.4	32.3	100.0	100.0	60.9	7.0	14.3
Barley	(25)	(20)	(19)	(0)	(6)	(4)	(29)	(25)
Scald	8.970	0.406	0	-	0	0.23	0.234	1.053
Net Blotch	2.880	3.120	1.520	-	1.260	2.66	2.480	3.400
Powdery mildew	4.665	0.962	1.114	-	0.279	0.00025	2.909	2.914

* Area A1 only

† Very much increased by A1 area rating