

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Morley

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
MILDEW %	04/05/99	27	T1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
MILDEW %	21/05/99	32	T1	0.0	0.0	9.0	7.7	11.7	0.6	0.0
MILDEW %	09/06/99	56	T1	0.1	0.2	15.3	6.8	10.0	0.2	0.1
MILDEW %	16/06/99	65	T1	0.0	0.0	3.3	0.1	1.0	0.0	0.0
MILDEW % (FLAG)	30/06/99	75	T1	0.0	0.0	0.0	0.0	0.7	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MILDEW % (LEAF 2)	30/06/99	75	T1	0.0	0.4	0.0	0.3	4.0	0.2	0.0
			T2	0.0	0.0	0.0	0.1	1.0	0.3	0.0
			T3	0.0	0.0	0.0	0.1	0.4	0.0	0.0
			T4	0.4	0.0	0.0	0.3	2.5	0.2	0.0
			T5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.2	0.0	0.0	0.1	0.5	0.0	0.0
MILDEW % (LEAF 3)	30/06/99	75	T1		0.0				0.0	0.0
			T2	0.5	0.0	0.0	0.3	2.5	0.2	0.0
			T3	0.4	0.0	0.0	0.4	2.5	0.0	0.2
			T4	3.5	0.3	0.0	0.7	5.3	2.5	0.0
			T5	0.2	0.0	0.0	0.2	1.2	0.0	0.0
			T6	0.4	0.0	0.0	0.5	1.2	0.0	0.0

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	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
BROWN RUST %	04/05/99	27	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST %	21/05/99	32	T1	0.2	0.0	0.0	0.0	0.0	0.1	0.0
BROWN RUST %	09/06/99	56	T1	3.7	0.9	0.0	0.1	0.7	0.6	0.1
BROWN RUST %	16/06/99	65	T1	6.0	4.3	0.0	0.3	3.3	0.7	0.1
BROWN RUST % (FLAG)	30/06/99	75	T1	2.7	1.0	0.8	1.0	6.7	2.0	0.5
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.2	0.0	0.0	0.0	0.0	0.0
			T4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (LEAF 2)	30/06/99	75	T1	7.3	2.7	2.1	13.0	13.3	2.0	1.0
			T2	1.2	0.2	0.0	0.0	0.4	0.1	0.1
			T3	0.0	0.2	0.0	0.0	0.0	0.0	0.0
			T4	0.7	1.3	0.1	1.0	1.7	0.1	0.2
			T5	0.1	0.4	0.1	0.0	0.0	0.1	0.2
			T6	0.1	0.2	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (LEAF 3)	30/06/99	75	T1		1.0				0.0	1.0
			T2	1.0	0.4	0.0	0.0	0.2	0.1	0.1
			T3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.6	1.1	0.1	0.4	1.5	1.9	0.2
			T5	0.4	0.2	0.1	0.1	0.0	0.1	0.1
			T6	0.1	0.1	0.1	0.1	0.0	0.1	0.1

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Site: Morley

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
RHYNCHOSPORIUM %	04/05/99	27	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHYNCHOSPORIUM %	21/05/99	32	T1	0.0	0.2	0.0	0.0	0.0	0.0	0.1
RHYNCHOSPORIUM %	09/06/99	56	T1	0.0	0.9	0.4	1.2	0.0	0.2	1.5
RHYNCHOSPORIUM %	16/06/99	65	T1	0.0	0.1	0.1	0.2	0.0	0.4	0.7
RHYNCHOSPORIUM % (FLAG)	30/06/99	75	T1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHYNCHOSPORIUM % (LEAF2)	30/06/99	75	T1	0.0	3.4	5.0	1.0	0.0	1.5	0.0
			T2	0.0	0.4	0.0	0.0	0.0	0.3	0.0
			T3	0.1	0.2	0.0	0.1	0.0	0.4	0.0
			T4	0.0	2.3	0.0	0.1	0.2	1.3	0.1
			T5	0.1	0.5	0.0	0.2	0.0	0.7	0.0
			T6	0.0	0.7	0.0	0.0	0.0	0.2	0.5
RHYNCHOSPORIUM % (LEAF 3)	30/06/99	75	T1		5.0				1.0	10.0
			T2	0.0	2.3	0.0	0.0	0.0	2.0	0.0
			T3	0.7	2.5	0.0	0.5	0.0	4.0	0.9
			T4	0.0	4.3	0.4	1.8	1.2	2.3	1.8
			T5	1.7	3.7	0.3	1.8	0.0	3.7	0.2
			T6	0.5	1.5	0.0	0.1	0.3	1.7	2.4

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Site: Morley

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
GREEN LEAF AREA % (FLAG)	30/06/99	75	T1	23.3	31.7	45.0	36.7	25.0	46.7	56.7
			T2	56.7	35.0	65.0	73.3	75.0	73.3	70.0
			T3	68.3	45.0	68.3	80.0	78.3	75.7	70.7
			T4	66.7	36.7	76.7	79.0	76.7	71.7	72.3
			T5	71.7	50.0	73.3	80.0	80.0	78.3	75.0
			T6	72.3	36.7	68.3	74.0	75.0	76.7	73.3
GREEN LEAF AREA % (LEAF 2)	30/06/99	75	T1	10.0	15.7	13.3	24.0	6.7	35.0	33.3
			T2	38.3	25.0	35.0	45.0	46.7	55.0	45.0
			T3	50.0	30.0	45.0	61.7	58.3	65.0	56.7
			T4	36.7	26.7	51.7	60.0	48.3	50.0	53.3
			T5	55.0	33.3	46.7	61.7	65.0	65.0	58.3
			T6	45.0	28.3	51.7	58.3	53.3	63.3	58.3
GREEN LEAF AREA % (LEAF 3)	30/06/99	75	T1	6.7	4.0	8.3	5.7	0.7	20.0	15.0
			T2	21.7	11.7	16.7	23.3	20.0	25.0	28.3
			T3	31.7	25.0	28.3	41.7	30.0	33.3	33.3
			T4	10.0	10.7	26.7	30.0	20.0	21.7	31.7
			T5	28.3	18.3	35.0	33.3	25.0	33.3	40.0
			T6	28.3	23.3	30.0	35.0	23.3	31.7	31.7
GREEN LEAF AREA % (LEAF 4)	30/06/99	75	T1	0.0	0.0	0.0	0.0	0.0	1.7	2.3
			T2	3.0	0.7	0.7	5.3	2.3	4.0	7.3
			T3	11.7	0.7	9.0	11.7	8.0	10.0	8.3
			T4	0.0	0.0	1.7	3.3	2.3	3.3	4.0
			T5	6.7	0.7	8.3	4.0	5.0	8.3	5.7
			T6	5.7	5.0	2.7	9.3	2.3	5.7	7.0

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	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
GREEN LEAF AREA%	16/07/99	83	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	2.0	0.0	3.3	5.7	0.3	0.3	2.7
			T3	23.3	2.0	16.7	14.0	3.7	3.7	20.0
			T4	6.3	1.0	13.3	12.3	2.0	2.3	9.3
			T5	23.3	10.0	28.3	31.7	6.7	2.7	11.3
			T6	9.3	1.0	5.0	6.7	2.0	1.3	6.7

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Site: Morley

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
LEANING%	06/08/99	92	T1	0.0	0.0	0.0	11.7	3.3	6.7	5.0
			T2	0.0	11.7	0.0	20.0	13.3	11.7	5.0
			T3	0.0	5.0	0.0	10.0	10.0	16.7	5.0
			T4	0.0	15.0	0.0	23.3	18.3	15.0	1.7
			T5	0.0	10.0	0.0	8.3	8.3	10.0	3.3
			T6	0.0	8.3	0.0	20.0	16.7	15.0	5.0
LODGING%	06/08/99	92	T1	0.0	0.0	0.0	5.0	0.0	8.3	1.7
			T2	0.0	25.0	0.0	40.0	31.7	31.7	0.0
			T3	0.0	5.0	0.0	10.0	20.0	25.0	6.7
			T4	0.0	25.0	0.0	26.7	31.7	31.7	0.0
			T5	0.0	1.7	0.0	25.0	3.3	5.0	0.0
			T6	0.0	1.7	0.0	21.7	21.7	16.7	5.0

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NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
BROWN RUST % (FLAG)	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
BROWN RUST % (LEAF 2)	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (LEAF 3)	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (LEAF 4)	19/07/99	75	T1		0.0			0.0		
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
RHYNCHOSPORIUM %	27/05/99	29	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHYNCHOSPORIUM %	21/06/99	45	T1	0.0	0.0	0.0	0.5	0.2	0.0	0.0
RHYNCHOSPORIUM % (FLAG)	19/07/99	75	T1	0.0	6.7	0.3	6.7	2.7	1.3	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	1.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.3	0.3
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	1.0	0.0	0.0	0.0
RHYNCHOSPORIUM % (LEAF 2)	19/07/99	75	T1	0.0	6.7	3.3	4.7	4.7	5.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	1.7	0.0	0.0	0.0	0.0
			T4	0.0	0.3	0.0	1.0	0.4	1.3	0.4
			T5	0.0	1.7	0.0	0.0	0.0	1.0	1.7
			T6	0.0	0.0	0.0	1.7	0.0	0.0	0.0
RHYNCHOSPORIUM % (LEAF3)	19/07/99	75	T1	0.0	25.0	1.0	5.0	2.7	5.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.3	0.0	1.7	0.3
			T5	0.0	1.3	0.7	0.3	0.0	0.3	2.7
			T6	0.0	0.0	0.0	2.7	0.0	0.0	0.0
RHYNCHOSPORIUM % (LEAF 4)	19/07/99	75	T1		0.0			0.0		
			T2	0.0	0.5	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.1	0.0	0.0
			T5	0.0	0.0	0.3	0.3	0.0	0.1	0.1
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
NET BLOTCH %	14/06/99	40	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NET BLOTCH %	21/06/99	45	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NET BLOTCH % (FLAG)	19/07/99	75	T1	1.7	1.0	1.7	7.7	6.0	1.4	0.1
			T2	0.0	0.0	0.3	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.4	0.1	0.7	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.7	2.0	0.0	1.0	0.0	0.1	0.1
NET BLOTCH % (LEAF 2)	19/07/99	75	T1	1.7	1.0	1.3	4.7	15.0	3.7	4.3
			T2	0.0	0.3	1.0	0.3	0.4	0.3	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.4	0.3	0.0	0.7	0.3	0.4	0.3
			T5	0.0	0.3	0.0	0.0	0.4	0.0	0.0
			T6	2.0	3.3	0.4	2.3	0.3	1.1	0.4
NET BLOTCH % (LEAF 3)	19/07/99	75	T1	1.0	0.0	0.0	1.0	25.0	6.0	9.3
			T2	0.0	0.0	0.3	0.0	0.0	1.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.3	0.0	0.3	0.0	0.0	0.0
			T5	0.0	0.0	0.3	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.3	2.3	0.0	0.3	0.4
NET BLOTCH % (LEAF 4)	19/07/99	75	T1							
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	4.0	0.0	0.0	0.0

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Site: Seale-Hayne

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
GREEN LEAF AREA % (FLAG)	19/07/99	75	T1	23.3	20.0	65.0	57.7	33.3	71.7	65.3
			T2	95.3	70.0	98.7	98.0	90.3	97.0	98.0
			T3	99.3	74.3	99.3	99.3	98.3	97.0	98.7
			T4	97.0	82.7	100.0	96.0	91.7	99.3	97.0
			T5	98.7	76.0	100.0	69.3	97.7	99.3	99.3
			T6	94.3	56.7	99.3	98.0	98.0	98.0	97.0
GREEN LEAF AREA % (LEAF 2)	19/07/99	75	T1	15.3	5.0	50.3	33.3	21.7	26.7	31.7
			T2	85.0	41.7	96.0	95.0	80.0	93.3	96.0
			T3	96.0	73.3	89.3	96.0	89.3	80.0	98.0
			T4	94.3	70.0	97.0	92.7	74.3	89.3	92.0
			T5	97.0	70.0	95.3	96.0	94.3	91.0	92.7
			T6	85.0	48.3	94.3	89.3	93.3	89.3	88.3
GREEN LEAF AREA % (LEAF 3)	19/07/99	75	T1	1.7	0.0	16.7	3.3	0.0	18.3	3.3
			T2	40.0	10.0	33.3	4.7	38.3	66.7	88.3
			T3	58.3	18.3	28.3	73.3	51.7	35.0	86.7
			T4	77.0	48.3	83.3	53.7	25.0	52.0	46.7
			T5	64.3	20.3	66.7	54.3	40.0	69.3	86.7
			T6	51.7	21.0	58.3	20.3	45.0	50.0	51.7
GREEN LEAF AREA % (LEAF 4)	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0	8.3	0.0
			T2	1.0	0.3	0.0	0.0	1.7	7.3	18.3
			T3	0.0	0.3	0.0	5.0	0.0	0.0	5.3
			T4	16.7	2.7	31.7	15.0	3.3	15.0	23.3
			T5	26.7	3.3	23.3	15.0	1.7	27.0	18.3
			T6	6.7	0.0	0.3	0.0	0.3	3.3	2.7

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
BRACKLING%	19/07/99	75	T1	0	0	0	0	0	0	0
			T2	0	0	0	0	0	0	0
			T3	0	0	0	0	0	0	0
			T4	0	0	0	0	0	0	0
			T5	0	0	0	0	0	0	0
			T6	0	0	0	0	0	0	0
NECKING%	19/07/99	75	T1	0	0	0	0	0	0	0
			T2	0	0	0	0	0	0	0
			T3	0	0	0	0	0	0	0
			T4	0	0	0	0	0	0	0
			T5	0	0	0	0	0	0	0
			T6	0	0	0	0	0	0	0
LODGING%	19/07/99	75	T1	0	0	0	0	0	0	0
			T2	0	0	0	0	0	0	0
			T3	0	0	0	0	0	0	0
			T4	0	0	0	0	0	0	0
			T5	0	0	0	0	0	0	0
			T6	0	0	0	0	0	0	0

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Wye

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
MILDEW %	07/05/99	30	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MILDEW %	28/05/99	35	T1	0.0	0.0	1.7	4.0	2.7	0.0	0.0
MILDEW %	08/06/99	55	T1	0.0	0.0	0.0	0.4	1.3	0.0	0.0
MILDEW % (FLAG)	30/06/99	75	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MILDEW % (LEAF 2)	30/06/99	75	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MILDEW % (LEAF 3)	30/06/99	75	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Wye

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
BROWN RUST %	28/05/99	35	T1	1.0	0.1	0.0	0.0	0.0	0.0	0.0
BROWN RUST %	08/06/99	55	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (FLAG)	30/06/99	75	T1	2.4	1.7	0.0	0.7	3.0	0.1	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (LEAF 2)	30/06/99	75	T1	28.3	12.0	0.0	4.3	13.3	2.3	0.1
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.1	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROWN RUST % (LEAF 3)	30/06/99	75	T1	13.7	0.0	0.0	0.3	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Wye

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
GREEN LEAF AREA % (FLAG)	06/07/99	80	T1	17.3	20.3	50.0	41.7	37.3	41.7	31.7
			T2	68.3	36.7	76.7	65.0	51.7	66.7	43.3
			T3	81.7	46.7	76.7	75.0	80.0	76.7	65.0
			T4	86.7	53.3	70.0	78.3	66.7	78.3	78.3
			T5	86.0	45.0	76.7	74.3	69.3	73.3	56.7
			T6	85.0	56.7	71.7	85.0	71.7	65.0	50.0
GREEN LEAF AREA % (LEAF 2)	06/07/99	80	T1	16.7	20.0	45.0	38.3	26.7	33.3	51.7
			T2	66.7	55.0	70.0	80.0	66.7	75.0	60.0
			T3	90.0	63.3	75.0	96.0	85.0	90.0	75.0
			T4	93.3	68.3	80.0	95.0	91.7	86.7	88.3
			T5	91.0	63.3	83.3	93.3	78.3	86.7	76.7
			T6	88.3	65.0	81.7	96.7	76.7	73.3	80.0
GREEN LEAF AREA % (LEAF 3)	06/07/99	80	T1	1.3	4.0	4.0	3.0	0.0	3.0	3.0
			T2	30.7	2.0	7.3	18.0	19.0	8.3	5.7
			T3	35.0	26.7	9.0	29.0	25.0	31.7	8.0
			T4	23.3	5.0	12.3	40.0	8.3	19.3	21.7
			T5	11.7	14.3	31.7	61.7	14.0	17.7	8.3
			T6	25.0	10.7	7.3	58.3	7.3	23.3	12.3

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction Trials 1999.

Site: Wye

	Date	GS	Treat- ment	Century	Chariot	Delibes	Optic	Prisma	Riviera	Static
NECKING %	04/08/99	93	T1	0.0	0.0	0.0	0.0	2.3	0.0	0.0
			T2	0.0	3.3	0.0	0.0	1.7	0.0	0.0
			T3	0.0	3.3	0.0	0.0	3.3	3.3	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	5.0	0.0	0.0	2.3	0.7	1.7
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACKLING %	04/08/99	93	T1	37.3	37.3	36.7	70.0	43.3	27.3	26.7
			T2	1.7	4.0	0.0	61.7	20.0	2.3	10.0
			T3	5.0	13.3	5.0	60.0	28.3	8.3	6.7
			T4	10.0	15.0	1.7	78.3	35.0	6.7	6.7
			T5	6.7	5.0	8.3	33.3	26.7	3.3	6.7
			T6	21.7	25.0	8.3	81.7	38.3	23.3	13.3
LODGING %	04/08/99	93	T1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			T6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction (Delayed Harvest) Trials 1999.

Site: Cockle Park

	Date	GS	Treat- ment	Chariot	Cooper	Optic	Prisma	Static
MILDEW %	20/05/99	31	T1	0.0	1.2	1.2	6.7	0.2
MILDEW %	16/06/99	45	T1	0.3	15.0	8.3	33.3	0.0
MILDEW %	15/07/99	75	T1	0.3	10.3	1.7	41.7	0.3
			T2	0.0	0.3	0.3	0.7	0.0
			T3	0.0	0.0	0.0	0.3	0.0
			T4	0.0	0.7	0.0	1.0	0.0
RHYNCHOSPORIUM %	20/05/99	31	T1	0.0	0.0	0.0	0.0	0.1
RHYNCHOSPORIUM %	16/06/99	45	T1	6.0	3.0	5.7	3.0	2.0
RHYNCHOSPORIUM %	15/07/99	75	T1	45.0	23.3	53.3	8.3	35.0
			T2	0.8	0.5	0.7	2.3	0.4
			T3	1.0	0.5	5.0	1.8	0.7
			T4	1.7	0.8	1.7	2.8	0.9
GREEN LEAF AREA %	15/07/99	75	T1	15.0	18.3	25.0	16.7	33.3
			T2	70.0	61.7	71.7	43.3	48.3
			T3	53.3	68.3	73.3	56.7	65.0
			T4	46.7	63.3	51.7	63.3	66.7

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction (Delayed Harvest) Trials 1999.

Site: Cockle Park

	Date	GS	Treat- ment	Chariot	Cooper	Optic	Prisma	Static
BRACKLING %	06/08/99	87	T1	2.7	0.0	3.3	4.3	1.7
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0
LEANING %	06/08/99	87	T1	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0
LODGING %	06/08/99	87	T1	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0
STEM GREENESS %	15/07/99	75	T1	50.0	43.3	56.7	46.7	53.3
			T2	73.3	63.3	70.0	50.0	56.7
			T3	60.0	70.0	61.7	58.3	66.7
			T4	58.3	70.0	61.7	66.7	68.3
STEM GREENESS%	27/07/99	85	T1	13.3	10.0	11.7	16.7	11.7
			T2	16.7	8.3	16.7	6.7	6.7
			T3	28.3	21.7	20.0	11.7	18.3
			T4	21.7	25.0	31.7	20.0	26.7

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction (Delayed Harvest) Trials 1999.

Site: Cockle Park

	Date	GS	Treat- ment	Chariot	Cooper	Optic	Prisma	Static
EAR LOSS %	13/09/99	94	T1	1.7	0.7	1.0	3.8	1.3
			T2	2.4	0.0	0.0	2.2	0.7
			T3	2.2	0.0	0.8	0.0	1.6
			T4	0.0	0.0	2.3	3.8	1.2
EAR LOSS PER SQM	14/09/99	94	T1	6.7	2.7	9.7	14.7	4.7
			T2	5.3	3.7	5.0	11.0	3.7
			T3	6.7	3.0	6.7	7.0	3.7
			T4	3.3	2.7	3.0	9.3	3.7
BRACKLING%	13/09/99	94	T1	71.7	52.7	80.0	93.3	76.7
			T2	43.3	20.0	80.0	58.3	33.3
			T3	50.0	23.3	71.7	55.0	41.0
			T4	31.7	16.7	61.7	38.3	40.0

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction (Ear Loss) Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Chariot	Cooper	Optic	Prisma	Static
BROWN RUST %	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0
RHYNCHOSPORIUM %	01/06/99	31	T1	0.0	0.0	0.0	0.0	0.7
RHYNCHOSPORIUM %	14/06/99	40	T1	0.0	0.0	0.1	0.0	0.0
RHYNCHOSPORIUM %	21/06/99	45	T1	0.1	0.2	0.4	0.2	0.1
RHYNCHOSPORIUM%	19/07/99	75	T1	1.7	0.3	7.3	3.3	1.7
			T2	0.0	0.0	0.1	0.0	0.3
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.3	0.0	0.1	0.0	0.0
NET BLOTCH%	14/06/99	40	T1	0.0	0.0	0.0	0.0	0.0
NET BLOTCH %	21/06/99	45	T1	0.0	0.0	0.0	0.4	0.0
NET BLOTCH %	19/07/99	75	T1	2.3	4.3	3.7	6.7	1.7
			T2	1.0	1.1	0.0	0.0	0.0
			T3	0.1	0.0	0.0	0.0	0.0
			T4	2.3	0.0	0.0	0.0	0.4

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction (Ear Loss) Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Chariot	Cooper	Optic	Prisma	Static
GREEN LEAF AREA %	19/07/99	75	T1	45.0	48.3	38.3	40.0	55.0
			T2	91.0	96.3	97.7	96.0	97.0
			T3	91.7	96.0	98.0	95.0	97.3
			T4	93.3	93.3	94.3	95.3	95.0
BRACKLING %	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0
NECKING %	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0
LODGING %	19/07/99	75	T1	0.0	0.0	0.0	0.0	0.0
			T2	0.0	0.0	0.0	0.0	0.0
			T3	0.0	0.0	0.0	0.0	0.0
			T4	0.0	0.0	0.0	0.0	0.0

APPENDIX 2

NIAB Spring Barley Variety Fungicide Interaction (Ear Loss) Trials 1999.

Site: Seale-Hayne

	Date	GS	Treat- ment	Chariot	Cooper	Optic	Prisma	Static
STEM GREENESS %	19/07/99	75	T1	99.3	99.3	99.3	97.0	98.7
			T2	100.0	98.7	100.0	98.3	100.0
			T3	100.0	100.0	100.0	99.3	100.0
			T4	100.0	100.0	100.0	98.0	100.0
STEM GREENESS %	27/07/99	85	T1	25.0	24.3	23.3	22.3	30.0
			T2	58.3	54.3	59.3	51.0	66.0
			T3	65.0	63.3	71.0	60.7	71.0
			T4	56.7	53.3	69.0	52.7	62.3
EAR LOSS %	09/09/99	92	T1	1.6	3.5	6.2	3.5	2.0
			T2	1.9	2.0	2.9	3.7	0.8
			T3	1.8	0.6	2.4	2.8	0.8
			T4	2.4	1.1	2.0	2.2	1.1
EAR LOSS PER SQM	10/09/99	92	T1	30.8	8.7	27.7	31.6	40.3
			T2	30.8	14.3	65.0	39.0	54.6
			T3	55.9	8.7	32.1	70.2	19.1
			T4	55.5	5.2	23.0	31.6	18.2
BRACKLING%	10/09/99	92	T1	80.0	51.7	100.0	86.7	96.7
			T2	60.0	16.7	100.0	83.3	83.3
			T3	36.7	5.0	100.0	73.3	56.7
			T4	58.3	5.3	100.0	76.7	78.3

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 1 20/May/99 (GS30)

	Mildew	Rhynchosporium	Net Blotch	Brown Rust
Prisma (U)	2.50	0.08	0.42	0.00
Prisma (Punch + Opus)	3.17	0.42	0.58	0.00
Prisma (Amistar)	2.33	0.17	0.33	0.00
Optic (U)	1.17	0.00	0.17	0.00
Optic (Punch + Opus)	1.25	0.00	0.75	0.00
Optic (Amistar)	1.17	0.00	0.42	0.00
Chariot (U)	0.33	0.00	0.17	0.00
Chariot (Punch + Opus)	0.50	0.00	0.25	0.00
Chariot (Amistar)	0.42	0.75	0.08	0.00
Cooper (U)	0.75	0.25	0.08	0.00
Cooper (Punch + Opus)	1.00	0.00	0.17	0.00
Cooper (Amistar)	0.92	0.17	0.17	0.00
Century (U)	0.33	0.00	0.00	0.00
Century (Punch + Opus)	0.42	0.00	0.00	0.00
Century (Amistar)	0.08	0.00	0.00	0.00
Newgrange (U)	0.17	0.00	0.17	0.00
Newgrange (Punch + Opus)	0.42	0.00	0.08	0.00
Newgrange (Amistar)	0.33	0.00	0.25	0.00
Delibes (U)	1.67	0.00	0.50	0.00
Delibes (Punch + Opus)	1.42	0.17	0.92	0.00
Delibes (Amistar)	1.58	0.67	1.08	0.00
Henni (U)	0.42	0.00	0.00	0.00
Henni (Punch + Opus)	0.08	0.00	0.08	0.00
Henni (Amistar)	0.17	0.08	0.17	0.00
Mean U	0.92	0.04	0.19	0.00
Mean (Punch + Opus)	1.03	0.07	0.35	0.00
Mean (Amistar)	0.88	0.23	0.31	0.00

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 2 11/June/99 (GS32-39)

	Mildew	Rhynchosporium	Net Blotch	Brown Rust
Prisma (U)	10.83	0.25	0.00	0.00
Prisma (Punch + Opus)	2.67	0.50	0.00	0.00
Prisma (Amistar)	0.00	0.33	0.00	0.00
Optic (U)	4.33	1.83	0.00	0.00
Optic (Punch + Opus)	0.58	0.92	0.00	0.00
Optic (Amistar)	0.08	0.50	0.00	0.00
Chariot (U)	0.08	1.33	0.00	0.00
Chariot (Punch + Opus)	0.00	0.67	0.00	0.00
Chariot (Amistar)	0.00	0.67	0.00	0.00
Cooper (U)	2.17	0.33	0.00	0.00
Cooper (Punch + Opus)	0.00	0.17	0.00	0.00
Cooper (Amistar)	0.00	0.58	0.08	0.00
Century (U)	0.00	0.42	0.00	0.00
Century (Punch + Opus)	0.08	0.17	0.00	0.00
Century (Amistar)	0.17	0.42	0.17	0.00
Newgrange (U)	0.08	0.08	0.00	0.00
Newgrange (Punch + Opus)	0.00	0.08	0.00	0.00
Newgrange (Amistar)	0.00	0.08	0.00	0.00
Delibes (U)	4.33	1.00	0.00	0.00
Delibes (Punch + Opus)	0.08	1.42	0.00	0.00
Delibes (Amistar)	0.17	0.25	0.08	0.00
Henni (U)	0.17	1.50	0.00	0.00
Henni (Punch + Opus)	0.00	0.42	0.00	0.00
Henni (Amistar)	0.00	0.08	0.00	0.00
Mean U	2.75	0.84	0.00	0.00
Mean (Punch + Opus)	0.43	0.54	0.00	0.00
Mean (Amistar)	0.05	0.36	0.04	0.00

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 3 28/June/99 GS 61-64

	Mildew	Rhynchosporium	Net Blotch	Brown Rust
Prisma (U)	8.83	4.50	0.00	0.00
Prisma (Punch + Opus)	2.00	1.33	0.08	0.00
Prisma (Amistar)	1.00	1.33	0.00	0.00
Optic (U)	0.33	20.17	0.00	0.00
Optic (Punch + Opus)	0.42	1.17	0.17	0.00
Optic (Amistar)	0.67	2.25	0.00	0.00
Chariot (U)	0.33	15.33	0.00	0.00
Chariot (Punch + Opus)	0.42	1.58	0.00	0.00
Chariot (Amistar)	0.83	2.50	0.08	0.00
Cooper (U)	2.08	8.67	0.00	0.00
Cooper (Punch + Opus)	1.08	1.25	0.00	0.00
Cooper (Amistar)	1.00	1.25	0.00	0.00
Century (U)	1.58	1.17	0.00	0.00
Century (Punch + Opus)	0.50	1.08	0.08	0.00
Century (Amistar)	0.50	0.67	0.17	0.00
Newgrange (U)	0.25	5.67	0.33	0.00
Newgrange (Punch + Opus)	0.00	0.50	0.00	0.00
Newgrange (Amistar)	0.17	0.92	0.00	0.00
Delibes (U)	1.92	3.58	0.17	0.00
Delibes (Punch + Opus)	4.50	1.08	0.00	0.00
Delibes (Amistar)	1.92	2.50	0.00	0.00
Henni (U)	0.42	12.25	0.00	0.00
Henni (Punch + Opus)	0.17	0.58	0.00	0.00
Henni (Amistar)	0.08	1.50	0.00	0.00
Mean U	1.97	8.92	0.06	0.00
Mean (Punch + Opus)	1.14	1.07	0.04	0.00
Mean (Amistar)	0.77	1.61	0.03	0.00

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 4 5/July/99 GS 61 - 68

	Mildew (1)	Mildew (2)	Mildew (3)	Rhynchosporium (1)	Rhynchosporium (2)	Rhynchosporium (3)
Prisma (U)	0.67	2.75	3.75	2.50	3.42	2.00
Prisma (Punch + Opus)	0.00	0.00	0.83	0.00	0.08	0.50
Prisma (Amistar)	0.00	0.08	0.00	0.00	0.83	0.42
Optic (U)	0.00	0.08	0.00	10.92	12.83	12.83
Optic (Prisma + Opus)	0.00	0.00	0.08	0.92	0.25	0.42
Optic (Amistar)	0.00	0.00	0.00	0.33	0.50	1.25
Chariot (U)	0.00	0.00	0.00	9.33	9.08	8.50
Chariot (Punch + Opus)	0.00	0.00	0.00	0.25	0.83	0.17
Chariot (Amistar)	0.00	0.00	0.00	0.42	0.58	0.83
Cooper (U)	0.00	0.08	0.33	2.00	3.08	2.50
Cooper (Punch + Opus)	0.00	0.00	0.00	0.00	0.00	0.67
Cooper (Amistar)	0.00	0.00	0.00	0.08	0.25	0.08
Century (U)	0.00	0.00	0.00	0.17	0.17	0.50
Century (Punch + Opus)	0.00	0.08	0.00	0.00	0.00	0.17
Century (Amistar)	0.00	0.00	0.00	0.00	0.25	0.25
Newgrange (U)	0.00	0.00	0.00	1.17	1.33	2.08
Newgrange (Punch + Opus)	0.00	0.00	0.00	0.00	0.00	0.00
Newgrange (Amistar)	0.00	0.00	0.00	0.00	0.50	1.42
Delibes (U)	0.00	0.00	0.33	0.08	1.50	1.00
Delibes (Punch + Opus)	0.00	0.00	0.00	0.00	0.08	0.25
Delibes (Amistar)	0.00	0.08	0.08	0.08	0.42	0.17
Henni (U)	0.00	0.17	0.00	6.92	9.92	10.58
Henni (Punch + Opus)	0.00	0.00	0.08	0.00	0.00	0.17
Henni (Amistar)	0.00	0.00	0.00	0.08	0.42	1.08
Mean U	0.08	0.39	0.55	4.14	5.17	5.00
Mean (Punch + Opus)	0.00	0.01	0.13	0.15	0.16	0.29
Mean (Amistar)	0.00	0.02	0.01	0.13	0.47	0.69

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 5 12/July/99 GS 67-75

	Mildew (1)	Mildew (2)	Mildew (3)	Rhynchosporium (1)	Rhynchosporium (2)	Rhynchosporium (3)
Prisma (U)	0.00	0.00	0.00	1.00	2.25	2.08
Prisma (Punch + Opus)	0.00	0.00	0.00	0.17	0.75	3.58
Prisma (Amistar)	0.00	0.17	0.17	0.25	0.92	1.25
Optic (U)	0.00	0.00	0.00	36.00	27.42	8.08
Optic (Prisma + Opus)	0.00	0.00	0.00	0.58	1.25	1.83
Optic (Amistar)	0.00	0.00	0.00	0.08	1.33	0.50
Chariot (U)	0.00	0.00	0.00	27.25	30.00	0.00
Chariot (Punch + Opus)	0.00	0.00	0.00	0.00	0.00	0.50
Chariot (Amistar)	0.00	0.00	0.00	0.42	0.67	0.92
Cooper (U)	0.00	0.00	0.00	7.50	3.33	0.00
Cooper (Punch + Opus)	0.00	0.00	0.00	0.58	0.00	0.33
Cooper (Amistar)	0.17	0.00	0.00	0.25	0.92	1.17
Century (U)	0.00	0.00	0.00	0.00	0.83	0.42
Century (Punch + Opus)	0.00	0.00	0.08	0.17	0.17	0.42
Century (Amistar)	0.00	0.00	0.00	0.00	0.00	0.00
Newgrange (U)	0.00	1.58	0.00	2.25	3.08	2.92
Newgrange (Punch + Opus)	0.00	0.00	0.00	0.00	0.42	0.25
Newgrange (Amistar)	0.00	0.00	0.00	0.00	0.17	1.17
Delibes (U)	0.00	0.00	0.00	1.83	0.67	0.42
Delibes (Punch + Opus)	0.00	0.25	0.00	0.00	0.17	0.17
Delibes (Amistar)	0.00	0.25	0.08	0.17	0.17	0.17
Henni (U)	0.00	0.00	0.00	25.00	24.58	4.58
Henni (Punch + Opus)	0.08	0.00	0.00	0.00	0.25	0.50
Henni (Amistar)	0.00	0.00	0.00	0.00	0.58	0.67
Mean U	0.00	0.20	0.00	12.60	11.52	2.31
Mean (Punch + Opus)	0.01	0.03	0.01	0.19	0.38	0.95
Mean (Amistar)	0.02	0.05	0.03	0.15	0.59	0.73

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 6 19/July/99 GS 77-80

	Mildew (1)	Mildew (2)	Mildew (3)	Rhynchosporium (1)	Rhynchosporium (2)	Rhynchosporium (3)
Prisma (U)	0.00	0.00	0.00	6.25	0.83	0.00
Prisma (Punch + Opus)	0.00	0.00	0.00	0.42	0.42	0.83
Prisma (Amistar)	0.00	0.00	0.00	3.17	0.92	0.00
Optic (U)	0.00	0.00	0.00	35.00	20.00	0.00
Optic (Prisma + Opus)	0.00	0.00	0.00	0.00	0.00	0.00
Optic (Amistar)	0.00	0.00	0.00	0.83	0.92	1.67
Chariot (U)	0.00	0.00	0.00	20.42	4.17	0.00
Chariot (Punch + Opus)	0.00	0.00	0.00	0.00	0.00	0.00
Chariot (Amistar)	0.00	0.00	0.00	0.83	1.08	0.83
Cooper (U)	0.00	0.00	0.00	1.25	0.00	0.00
Cooper (Punch + Opus)	0.00	0.00	0.00	0.00	1.83	0.00
Cooper (Amistar)	0.00	0.00	0.00	0.17	0.00	0.00
Century (U)	0.00	0.00	0.00	0.00	0.17	0.00
Century (Punch + Opus)	0.00	0.00	0.00	0.00	0.00	0.00
Century (Amistar)	0.00	0.00	0.00	0.00	0.00	0.00
Newgrange (U)	0.00	1.50	0.00	0.00	1.25	0.00
Newgrange (Punch + Opus)	0.00	10.42	0.00	0.00	0.00	0.00
Newgrange (Amistar)	0.00	0.00	0.00	0.00	1.17	0.00
Delibes (U)	0.00	0.00	0.00	0.83	0.42	0.00
Delibes (Punch + Opus)	0.00	0.00	0.00	0.00	0.50	0.50
Delibes (Amistar)	0.00	0.00	0.00	0.33	1.00	1.17
Henni (U)	0.00	0.00	0.00	15.42	2.08	0.00
Henni (Punch + Opus)	0.00	0.00	0.00	0.00	0.42	0.00
Henni (Amistar)	0.00	0.00	0.00	0.00	1.67	1.08
Mean U	0.00	0.19	0.00	9.90	3.61	0.00
Mean (Punch + Opus)	0.00	1.30	0.00	0.05	0.40	0.17
Mean (Amistar)	0.00	0.00	0.00	0.67	0.84	0.59

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Disease Assessments

Assessment 7 17/July/99 GS 80-85

	Mildew (1)	Mildew (2)	Mildew (3)	Rhynchosporium (1)	Rhynchosporium (2)	Rhynchosporium (3)
Prisma (U)	0.00	0.00	0.00	10.00	9.58	4.17
Prisma (Punch + Opus)	0.00	0.00	0.00	0.83	0.42	0.83
Prisma (Amistar)	0.00	0.00	0.00	0.83	1.67	0.83
Optic (U)	0.00	0.00	0.00	39.17	28.33	6.67
Optic (Punch + Opus)	0.00	0.00	0.00	3.75	0.00	3.33
Optic (Amistar)	0.00	0.00	0.00	5.42	3.75	2.08
Chariot (U)	0.00	0.00	0.00	43.75	27.08	7.50
Chariot (Punch + Opus)	0.00	0.00	0.00	0.00	1.25	2.50
Chariot (Amistar)	0.00	0.00	0.00	2.92	0.00	2.08
Cooper (U)	0.00	0.00	0.00	24.58	8.75	1.25
Cooper (Punch + Opus)	0.00	0.00	0.00	0.00	2.08	0.42
Cooper (Amistar)	0.00	0.00	0.00	2.08	0.42	3.75
Century (U)	0.00	0.00	0.00	0.00	0.00	0.42
Century (Punch + Opus)	0.00	0.00	0.00	0.42	0.00	1.25
Century (Amistar)	0.00	0.00	0.00	0.67	0.00	0.00
Newgrange (U)	0.00	0.00	0.00	6.25	9.58	2.92
Newgrange (Punch + Opus)	0.00	0.00	0.00	0.00	0.83	0.42
Newgrange (Amistar)	0.00	0.00	0.00	0.00	0.42	0.00
Delibes (U)	0.00	0.00	0.00	0.00	8.75	4.58
Delibes (Punch + Opus)	0.00	0.00	0.00	1.67	0.42	0.75
Delibes (Amistar)	0.00	0.00	0.00	0.17	0.33	0.83
Henni (U)	0.00	0.00	0.00	25.42	26.25	3.33
Henni (Punch + Opus)	0.00	0.00	0.00	0.00	0.42	1.25
Henni (Amistar)	0.00	0.00	0.00	2.50	0.42	0.00
Mean U	0.00	0.00	0.00	18.65	14.79	3.85
Mean (Punch + Opus)	0.00	0.00	0.00	0.83	0.68	1.34
Mean (Amistar)	0.00	0.00	0.00	1.82	0.88	1.20

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Green Leaf Area Assessments

	20/May/99 (GS30)	11/June/99 (GS32-39)	28/June/99 GS 61-64
Prisma (U)	95.00	80.42	41.92
Prisma (Punch + Opus)	93.58	88.58	84.58
Prisma (Amistar)	94.67	90.92	87.17
Optic (U)	96.42	88.83	31.25
Optic (Prisma + Opus)	95.50	94.75	85.50
Optic (Amistar)	96.42	95.92	81.58
Chariot (U)	97.25	94.58	42.08
Chariot (Punch + Opus)	97.25	94.83	78.50
Chariot (Amistar)	96.00	96.08	81.33
Cooper (U)	96.67	91.25	45.25
Cooper (Punch + Opus)	96.83	93.08	75.17
Cooper (Amistar)	96.67	92.83	72.00
Century (U)	97.67	93.83	75.25
Century (Punch + Opus)	97.08	92.25	84.83
Century (Amistar)	97.42	94.75	85.17
Newgrange (U)	97.92	93.42	58.75
Newgrange (Punch + Opus)	97.00	95.42	72.00
Newgrange (Amistar)	96.42	95.67	73.42
Delibes (U)	95.33	89.92	65.08
Delibes (Punch + Opus)	95.00	94.25	80.42
Delibes (Amistar)	94.17	94.75	82.33
Henni (U)	97.58	94.33	50.83
Henni (Punch + Opus)	97.83	96.33	91.25
Henni (Amistar)	97.08	96.17	90.17
Mean U	96.73	90.82	51.30
Mean (Punch + Opus)	96.26	93.69	81.53
Mean (Amistar)	96.10	94.64	81.65

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Green Leaf Area Assessments

	5/July/9 GS 61 - 68			12/July/99 GS 67-75		
	Leaf 1	Leaf 2	Leaf 3	Leaf 1	Leaf 2	Leaf 3
Prisma (U)	93.00	83.67	73.92	80.67	30.83	5.58
Prisma (Punch + Opus)	98.75	98.25	93.33	91.17	88.42	84.33
Prisma (Amistar)	99.00	96.33	94.50	97.00	95.92	90.67
Optic (U)	83.75	77.50	55.17	37.50	21.42	5.00
Optic (Prisma + Opus)	97.42	97.00	95.58	92.67	87.42	86.25
Optic (Amistar)	99.17	97.67	91.83	98.42	95.08	90.58
Chariot (U)	82.67	74.17	53.67	24.08	10.00	0.50
Chariot (Punch + Opus)	87.50	89.17	94.50	76.00	71.83	91.08
Chariot (Amistar)	91.75	92.25	90.00	82.75	79.50	85.83
Cooper (U)	93.17	83.25	65.58	53.50	38.42	3.17
Cooper (Punch + Opus)	97.83	97.08	85.67	90.25	89.33	80.25
Cooper (Amistar)	98.50	97.00	89.25	95.75	91.83	80.17
Century (U)	93.50	84.83	70.83	71.67	36.50	19.75
Century (Punch + Opus)	96.58	95.92	94.08	90.08	86.08	91.42
Century (Amistar)	97.83	96.67	92.42	95.33	94.75	90.33
Newgrange (U)	95.83	93.58	84.92	77.92	50.75	38.67
Newgrange (Punch + Opus)	98.75	98.58	97.17	91.00	88.33	89.50
Newgrange (Amistar)	98.25	96.83	92.67	95.25	94.58	90.17
Delibes (U)	95.83	88.33	81.75	84.00	44.00	35.00
Delibes (Punch + Opus)	96.83	92.25	91.75	92.92	85.17	88.08
Delibes (Amistar)	96.83	92.00	91.25	96.25	91.50	90.42
Henni (U)	88.75	75.17	57.58	36.17	18.00	1.67
Henni (Punch + Opus)	98.75	98.92	96.67	94.67	94.67	94.33
Henni (Amistar)	98.83	98.17	94.17	98.00	96.83	88.33
Mean U	90.81	82.56	67.93	58.19	31.24	13.67
Mean (Punch + Opus)	96.55	95.90	93.59	89.84	86.41	88.16
Mean (Amistar)	97.52	95.86	92.01	94.84	92.50	88.31

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

Trial: Earlston Green Leaf Area Assessments

	19/July/99 GS 77-80			27/July/99 GS 80-85		
	Leaf 1	Leaf 2	Leaf 3	Leaf 1	Leaf 2	Leaf 3
Prisma (U)	12.08	0.00	0.00	0.42	0.00	0.00
Prisma (Punch + Opus)	51.92	44.75	19.33	16.67	22.08	7.50
Prisma (Amistar)	82.00	54.50	21.25	53.25	34.17	2.08
Optic (U)	7.92	0.00	0.00	0.00	0.00	0.00
Optic (Prisma + Opus)	57.17	66.25	32.67	21.67	42.75	17.25
Optic (Amistar)	90.08	77.50	29.83	65.75	57.83	8.75
Chariot (U)	1.25	0.00	0.00	8.33	7.50	0.00
Chariot (Punch + Opus)	26.33	39.08	37.25	8.58	9.17	18.75
Chariot (Amistar)	73.67	54.50	31.75	27.50	15.83	9.58
Cooper (U)	3.17	0.00	0.00	0.83	5.00	0.00
Cooper (Punch + Opus)	52.67	60.92	18.75	19.17	29.17	10.00
Cooper (Amistar)	83.75	50.75	25.00	38.92	32.83	15.00
Century (U)	11.00	2.75	2.50	0.42	0.00	0.00
Century (Punch + Opus)	63.08	62.50	46.33	30.58	46.50	35.42
Century (Amistar)	90.25	77.58	34.67	79.58	56.92	47.92
Newgrange (U)	2.67	0.50	1.67	0.42	0.00	0.00
Newgrange (Punch + Opus)	8.33	37.92	33.33	1.25	36.42	31.25
Newgrange (Amistar)	88.33	72.33	42.67	55.17	36.67	20.42
Delibes (U)	42.58	15.50	0.83	8.50	0.83	0.00
Delibes (Punch + Opus)	74.67	60.42	50.75	41.08	52.67	44.42
Delibes (Amistar)	91.00	76.42	41.50	66.17	65.67	24.17
Henni (U)	0.67	0.00	0.00	0.42	0.00	0.00
Henni (Punch + Opus)	62.50	70.08	32.75	20.00	37.08	18.33
Henni (Amistar)	88.83	69.50	32.08	59.58	43.33	11.33
Mean U	10.17	2.34	0.62	2.42	1.67	0.00
Mean (Punch + Opus)	49.58	55.24	33.90	19.88	34.48	22.86
Mean (Amistar)	85.99	66.64	32.34	55.74	42.91	17.41

APPENDIX 2

Spring Barley Variety Fungicide 1999. Site: Earlston, Scotland

	Trial: Earlston				Straw characters	
					23/07/99 GS 75-80	05/08/99 GS85
	Leaning (1-9)	Lodging (1-9)	Brackling (1-9)	Necking (1-9)	Greeness (1-9)	Stem Greeness(%)
Prisma (U)	9	9	9	9	3.25	2.17
Prisma (Punch + Opus)	9	9	9	9	4.25	6.92
Prisma (Amistar)	9	9	9	9	4.5	14.92
Optic (U)	9	9	9	9	3.25	4.83
Optic (Prisma + Opus)	9	9	9	9	4.25	12.92
Optic (Amistar)	9	9	9	9	4.75	23.17
Chariot (U)	9	9	9	9	4.25	1.17
Chariot (Punch + Opus)	9	9	9	9	4.75	16.08
Chariot (Amistar)	9	9	9	9	4.5	14.67
Cooper (U)	9	9	9	9	3	5.42
Cooper (Punch + Opus)	9	9	9	9	4.75	8.33
Cooper (Amistar)	9	9	9	9	3.75	12.08
Century (U)	9	9	9	9	4.5	11.67
Century (Punch + Opus)	9	9	9	9	4.75	24.33
Century (Amistar)	9	9	9	9	5	36.67
Newgrange (U)	9	9	9	9	4	9.83
Newgrange (Punch + Opus)	9	9	9	9	4.5	16.17
Newgrange (Amistar)	9	9	9	9	4.25	17.50
Delibes (U)	9	9	9	9	4.5	10.58
Delibes (Punch + Opus)	9	9	9	9	4.5	16.58
Delibes (Amistar)	9	9	9	9	4.5	28.00
Henni (U)	9	9	9	9	3.25	1.08
Henni (Punch + Opus)	9	9	9	9	3.75	12.50
Henni (Amistar)	9	9	9	9	4.25	29.25
Mean U	9	9	9	9	3.75	5.84
Mean (Punch + Opus)	9	9	9	9	4.44	14.23
Mean (Amistar)	9	9	9	9	4.44	22.03

On 1-9 scale 1= severely affected