

2018 untreated disease results

This trial data has been published to allow growers to see the 2018 disease results from the RL series of trials that were not treated with foliar fungicides. This work is in its first year and must be treated with caution.

The table below shows data from the two replicated 2018 trials (untreated with foliar fungicides) where foliar diseases were assessed and the crop taken to yield to show the varietal performance under the natural cocktail of diseases. Rust and powdery mildew were the main diseases but others were present at low levels in some plots. It should be born in mind that each season is different with perhaps 2018 more so than most.

Foliar diseases generally developed later than normal and on crops which had been through a period of considerable drought stress, which may or may not have influenced their susceptibility to diseases. Canopy growth patterns were certainly very unusual with considerable early leaf stress and senescence during the drought and then lots of regrowth in September. Canopy growth habits were also untypical and these may have influenced disease development.

These results should be treated with great reserve as they apply only to the one year in which the trials were grown (2018). Considerable fluctuation in performance from centre to centre and similar fluctuations from season to season severely limit the value of results from a single year.

Mean of control values includes the varieties indicated with (C) plus Salamanca KWS and Aurora which are no longer listed.

Location Harvest date Assessment date	Fritton				Cranwell			
	07-Dec-18				28-Nov-18			
			26-Oct-18	04-Sep-18			18-Oct-18	19-Sep-18
	% of control yield	Adj T/ha	RUST %	PM %	% of control yield	Adj T/ha	RUST %	PM %
BTS 860	92.8	68.4	8.0	0.0	104.5	92.7	23.9	4.3
SABATINA KWS (C)	97.9	72.2	11.3	0.8	99.5	88.3	18.3	4.4
CANTONA KWS	101.6	75.0	10.5	0.8	101.4	89.9	11.8	1.0
CAYMAN (C)	105.7	78.0	13.5	0.8	99.7	88.4	17.5	21.8
HORNET (C)	102.3	75.5	8.3	3.8	102.9	91.3	8.9	33.3
FIREFLY	96.7	71.3	8.0	0.6	98.7	87.6	9.4	22.1
HAYDN	105.2	77.6	11.3	0.8	97.3	86.3	37.5	22.3
DAPHNA	98.3	72.5	11.0	0.0	100.7	89.3	10.0	6.1
BTS1140	95.4	70.4	9.3	0.3	102.7	91.1	17.8	7.0
KORTESSA KWS	97.9	72.2	7.8	0.0	103.0	91.4	5.0	0.3
ADVENA KWS	100.3	74.0	11.0	7.6	101.6	90.1	22.8	1.5
LIGHTNING	104.5	77.1	10.7	0.0	102.4	90.8	16.4	11.8
BTS4100	103.8	76.6	11.0	13.0	99.5	88.2	14.4	19.1
VIXEN	108.3	79.9	8.0	12.5	106.5	94.4	15.3	17.9
BTS 3325	106.3	78.5	11.0	6.3	102.3	90.8	22.0	1.8
CONGER	102.0	75.2	14.0	0.0	99.2	88.0	24.8	5.4
PUFFIN	90.4	66.7	8.0	3.0	97.3	86.3	21.3	16.6
DEGAS	105.9	78.1	11.0	4.8	95.9	85.1	17.9	34.5
FLIXTER	99.0	73.0	11.8	3.0	92.6	82.1	19.1	26.6
GAUGUIN	103.7	76.5	12.3	12.9	93.8	83.3	27.3	45.4
PHILINA KWS	91.7	67.7	15.5	2.3	95.1	84.4	24.8	14.0
SMART JANNINKA KWS	84.5	62.4	9.3	10.5	87.2	77.4	17.4	26.1
Control mean =	100.0	73.8	10.7.	3.2	100.0	88.7	15.2	2.0
LSD =	10.1	7.4			6.0	5.4		