2013 OREGON HARD WINTER ELITE YIELD TRIALS
SOUTH WILLAMETTE VALLEY
IMPACT OF FOLIAR DISEASE ON GRAIN YIELD

OSU Extension Cereals

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Site Quality Index† = 3
1 = Poor 3 = Average 5 = Excellent

Site Description: Stripe rust and Septoria were the predominant foliar diseases at this site.
Protected plots received two fungicide applications to control foliar diseases.
Fungicide applications consisted of 14 oz of Quilt Xcel on 4/3 and 4/26.

Entry	Variety	Class	Yield - Protected‡	Yield - Unprotected‡	Yield Loss Due to Foliar Disease	
			bu/ac	bu/ac	bu/ac	%
1	SKILES*	SWW	127.0	133.3	-6.2	-4.9
2	NORWEST 553	HRW	125.7	124.7	1.0	0.8
3	UI SRG	HRW	93.6	100.4	-6.8	-7.3
4	IDO 1102	HRW	81.9	71.1	10.8	13.2
5	IDO 1103	HRW	103.3	78.7	24.6	23.8
6	IDO 816	HRW	107.3	88.7	18.6	17.3
7	AZIMUT	HRW	160.2	154.0	6.2	3.9
8	NSA 06-4663	HRW	156.0	155.3	0.7	0.4
9	DAS 001	HRW	126.2	111.8	14.4	11.4
10	DAS 002	HRW	109.1	111.8	-2.7	-2.5
11	GENESIS	HRW	139.3	116.3	23.0§	16.5
12	WB-RIMROCK	HRW	147.9	27.9	120.0§	81.2
13	WB-ARROWHEAD	HRW	136.2	132.3	3.9	2.9
14	KELDIN	HRW	140.3	107.4	32.9§	23.4
15	WHETSTONE	HRW	123.6	105.7	17.8	14.4
16	AP 503 CL2	HRW	114.1	85.9	28.3§	24.8
17	IDO 1101	HWW	141.8	92.6	49.3§	34.8
18	UI SILVER	HWW	101.4	98.4	3.0	3.0
19	OR 2080156H	HWW	134.5	123.2	11.3	8.4
20	OR 2080227H	HWW	142.9	124.9	18.0§	12.6
21	OR 2080229H	HWW	154.7	143.3	11.4	7.4
22	OR 2080236H	HWW	109.8	82.5	27.3§	24.9
23	OR 2090107H	HWW	128.6	94.0	34.6§	26.9
24	OR 2100061H	HWW	142.3	130.0	12.3	8.6
25	OR 2100081H	HWW	126.0	121.8	4.2	3.3
	Site Average		127.5	110.5	17.0	13.3
	LSD (0.05)		14.7	17.2		
	CV (%)		7.5	10.0		

† The Site Quality Index is based on the relative performance of check varieties to historical means and the degree of variability found within the trial.
Site Quality Index Descriptions:
1 = Poor; Site highly impacted by unusual environmental conditions making data unpublishable
2 = Below Average; Site was impacted by unusual environmental conditions. Variability was high.
3 = Average; Site was average with normal/acceptable environmental conditions. Variability was medium.
4 = Good; Site was representative of surrounding area with minimal environmental impact. Variability was low to medium.
5 = Excellent; Site was highly representative of surrounding area with no environmental impacts. Variability was very low.

‡ Yield data corrected to 12% moisture.

§ Indicates the difference between protected and unprotected yield means are statsically significant at the 0.10 level

* Indicates check variety.