

SUMMARY OF SCREENING TRIAL RESULTS - 2009 FIELD TEST

UNIV. OF CALIFORNIA COOPERATIVE EXTENSION, USDA-ARS, SEED COMPANIES

Kern County field screening trial - Fusarium race 4 severe infestation field
2009 field trials - sandy loam soil - confirmed Fusarium race 4 infested site

*evaluations typically done about 7-8 weeks after planting

final field evaluation date 6/19-25/2009

ENTRIES IN FUSARIUM RACE 4 FIELD SCREENING TRIALS WERE PROVIDED BY:

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PLEASE NOTE:

Variety names / numbers were recorded as provided by seed companies

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Results from cooperative research work done by:

University of CA Coop. Extension & USDA - ARS, WICS - Shafter

Hutmacher, Wright, Ulloa, Keeley, Banuelos, Delgado, UCCE and USDA staff

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QUESTIONS? Contact Bob Hutmacher: rbhutmacher@ucdavis.edu

(0=no symptoms,
5=dead, intermediate #'s are
relative indicator of severity of
damage (both foliar & vascular)

West Kern FOV Ratings 2009 Date 6/25/2009	whole plot foliar fusarium damage rating (0=no visible damage, 5= dead, intermediate #'s relative indicator)	average foliar symptoms on plants also rated for vascular symptoms	average root vascular stain rating	# main stem nodes on plant (lower # may indicate more stunting assoc with disease)	plant height (inches measured on final evaluation date)	average number of plants per field replication at 1st count date	6/19/2009 % plant survival under disease pressure at site (calc as % of emergence 10-12 days after planting)		
101	Phy-755 WRF	Phytogen	2.67	1.93	3.13	10.20	11.13	54.67	70.8
102	Phy-72	Phytogen	3.33	2.27	3.20	9.80	10.00	53.33	76.2
103	Phy-725 RF	Phytogen	3.00	1.33	2.93	10.67	11.27	55.33	79.4
104	Daytona RF	Bayer	3.00	2.13	3.20	9.27	8.40	53.00	84.1
105	OA-360	Olvey (aka "DP-360")	1.00	0.40	1.47	12.00	20.00	43.00	89.2
106	P07X-8212 RF	Phytogen (aka "Phy-802 RF")	1.00	0.40	1.27	10.80	19.67	69.67	93.9
107	P07X-8213 RF	Phytogen (aka "Phy-805 RF")	2.00	0.07	1.13	12.93	20.20	51.00	70.2
108	Phy-800	Phytogen	0.33	0.13	1.33	12.33	20.73	54.33	92.3
109	Phy-830	Phytogen	4.33	2.93	3.80	7.47	5.93	56.33	30.1
110	Cobalt	Bayer	4.67	3.53	4.20	5.87	3.93	51.33	23.5
111	DP-357	Monsanto	4.00	2.20	2.80	7.93	6.40	44.33	35.6
112	HA-195	Hazera	2.00	0.53	2.13	10.87	18.47	51.00	74.1
113	S-7	Public variety	4.67	2.47	3.07	8.73	5.00	53.00	24.1
114	P07X-8244 RF	Phytogen (aka "Phy-804 RF")	1.33	0.07	1.20	12.53	19.53	50.00	67.9
115	DP-0920 B2RF	Monsanto	3.00	1.33	2.80	11.00	11.80	55.00	85.6
116	ST-4498 B2RF	Bayer	2.67	2.07	2.87	10.80	15.13	54.67	93.2
117	ST-5458 B2R2	Bayer	2.67	1.33	2.73	11.60	13.73	55.33	85.5
118	ST-4288 B2F	Bayer	2.67	1.33	2.73	11.47	11.80	54.33	94.0
119	FM-1740 B2F	Bayer	2.33	1.47	2.73	10.07	11.27	52.67	89.2
120	FM-1880B2F	Bayer	1.67	1.33	2.07	10.80	15.00	52.33	88.2
121	FM-9170 B2F	Bayer	2.00	0.73	2.53	11.67	15.93	55.33	85.6
122	FM-9160 B2F	Bayer	2.67	1.40	2.60	11.27	12.00	52.00	83.4
123	FM-1845LLB2	Bayer	2.67	0.87	2.33	11.33	13.20	51.00	86.4
124	BCSX-1010 B2F	Bayer	2.67	1.93	2.67	11.07	15.07	51.67	89.3
125	Phy-375 WRF	Phytogen	3.00	2.33	3.00	9.87	9.93	52.33	89.6
126	Phy-565 WRF	Phytogen	3.00	1.47	2.80	10.87	10.60	34.00	68.9
127	Phy-367 WRF	Phytogen	2.67	1.93	2.47	9.47	11.47	56.67	84.2

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128	DP-0924 B2RF	Monsanto	2.33	1.47	2.73	9.07	12.07	53.33	91.7
129	DP-0935 B2RF	Monsanto	2.67	2.20	2.87	10.40	13.13	51.00	87.3
130	DP-0949 B2RF	Monsanto	2.67	0.60	2.80	10.47	14.60	50.33	93.8
131	DP-09R468 B2R2	Monsanto	2.67	1.13	2.80	10.27	12.80	53.33	88.6
132	DP-0912 B2R2	Monsanto	2.67	1.40	2.73	10.47	16.00	54.00	98.2
133	DP-09R303 B2R2	Monsanto	3.00	1.60	2.93	10.53	9.07	56.33	74.6
134	DP-09R549 B2R2	Monsanto	3.00	1.93	2.93	10.20	11.33	47.67	84.3
135	DP-09R550 B2R2	Monsanto	2.67	1.60	2.73	10.00	11.87	46.00	91.7
136	DP-09R555 B2R2	Monsanto	2.67	0.93	2.40	10.40	15.13	50.33	90.0
137	DP-09R573 B2R2	Monsanto	3.00	2.27	2.67	9.20	11.40	51.33	86.1
138	DP-09R605 B2R2	Monsanto	2.67	1.73	2.53	9.33	14.80	51.00	93.8
139	DP-09R615 B2R2	Monsanto	2.67	2.00	2.67	9.27	12.00	54.00	91.1
140	DP-09R619 B2R2	Monsanto	3.00	2.33	2.73	8.33	11.00	52.67	85.1
141	DP-09R621 B2R2	Monsanto	3.00	2.67	3.33	9.13	9.60	53.33	83.2
142	DP-09R623 B2R2	Monsanto	3.00	2.20	3.00	10.27	10.60	50.33	91.4
143	DP-09R627 B2R2	Monsanto	2.00	2.00	2.80	9.67	12.73	51.67	89.0
144	DP-09R643 B2R2	Monsanto	3.00	1.87	3.07	10.33	10.80	52.33	89.0
145	DP-09R796 B2R2	Monsanto	2.33	1.20	2.67	9.73	12.80	55.00	88.3
146	DP-09R999 B2R2	Monsanto	3.00	2.13	2.87	9.13	11.80	53.00	83.0
147	ST-4554 B2RF	Bayer	2.67	1.87	2.73	10.33	10.73	48.33	93.4
148	HA-01	Hazera	1.33	0.67	2.60	11.13	20.33	45.33	95.1
149	HA-02	Hazera	1.67	0.67	2.40	10.27	18.87	49.67	92.5
150	HA-03	Hazera	1.00	0.53	2.20	12.73	19.67	55.00	97.1
151	HA-04	Hazera	2.33	0.53	2.07	13.40	25.40	44.33	83.2
152	HA-05	Hazera	1.67	0.93	2.33	12.67	18.07	54.33	92.0
153	HA-211	Hazera	1.00	0.87	1.93	10.93	20.60	55.00	84.2

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154 BC-580 Bayer	2.50	0.33	1.53	12.13	16.87	50.67	57.8	
155 BC-581 Bayer	2.33	0.93	2.53	10.33	11.87	50.33	78.3	
156 BC-582 Bayer	0.33	0.33	1.33	12.47	21.27	54.67	95.3	
157 BC-583 Bayer	1.00	0.20	1.27	11.47	19.40	52.00	91.5	
158 BC-584 Bayer	2.33	0.27	1.60	11.07	17.20	49.67	82.8	
159 PHY09.FOV1 Phytogen	2.33	1.13	2.07	10.80	14.80	47.67	43.6	
160 PHY09.FOV2 Phytogen	2.00	0.60	1.60	10.87	16.27	50.67	54.1	
161 PHY09.FOV3 Phytogen	1.00	0.60	1.60	11.60	18.87	50.00	88.9	
162 PHY09.FOV4 Phytogen	1.67	0.27	1.47	12.53	17.27	50.33	82.7	
163 PHY09.FOV5 Phytogen	1.33	0.33	1.53	11.47	18.00	48.33	49.0	
164 PHY09.FOV6 Phytogen	2.00	0.67	1.87	12.00	15.47	53.67	56.5	
165 PHY09.FOV7 Phytogen	4.00	2.40	3.13	9.40	8.73	55.33	14.9	
166 PHY09.FOV8 Phytogen	4.00	2.87	3.53	8.07	7.40	49.67	14.1	
167 PHY09.FOV9 Phytogen	4.67	3.00	3.73	7.20	5.60	50.33	25.6	
168 PHY09.FOV10 Phytogen	4.33	3.33	4.00	7.00	4.53	50.33	23.7	
169 PHY09.FOV11 Phytogen	0.67	0.20	1.27	11.27	19.07	54.00	95.2	
170 PHY09.FOV12 Phytogen	1.00	0.33	1.40	11.33	19.20	51.33	91.9	
171 PHY09.FOV13 Phytogen	4.67	3.27	3.87	7.67	5.80	55.00	16.6	
172 PHY09.FOV14 Phytogen	4.33	3.20	3.80	7.93	4.40	46.67	17.8	
173 PHY09.FOV15 Phytogen	4.67	3.07	3.40	6.40	4.60	51.00	19.2	
174 PHY09.FOV16 Phytogen	4.33	2.53	3.53	8.60	10.87	52.00	18.4	
175 PHY09.FOV17 Phytogen	4.00	2.13	3.33	8.53	8.27	51.00	24.4	
176 PHY09.FOV18 Phytogen	1.33	0.67	2.07	9.80	16.13	54.33	92.8	
177 PHY09.FOV19 Phytogen	4.33	3.27	4.00	6.00	3.87	53.00	19.5	
178 PHY09.FOV20 Phytogen	1.00	0.40	1.47	11.07	20.67	56.33	91.3	
179 PHY09.FOV21 Phytogen	1.00	0.27	1.67	10.93	16.07	49.00	87.4	
180 DP-744 Monsanto	susceptible check	5.00	4.07	4.27	4.27	2.40	52.67	7.5
800 Phy-800 Phytogen	resistant check	0.00	0.00	1.40	11.60	19.40	59.00	94.0