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<b>SUMMARY OF SCREENING TRIAL RESULTS - 2010 FIELD TEST</b>										ENTRIES IN FUSARIUM RACE 4 FIELD SCREENING TRIALS WERE PROVIDED BY SEED COMPANIES and their representatives PLEASE NOTE: VARIETY NAMES / NUMBERS WERE RECORDED AS PROVIDED BY SEED COMPANIES NOT FOR REPRODUCTION OR RELEASE WITHOUT APPROVAL
<b>UNIV. OF CALIFORNIA COOPERATIVE EXTENSION, USDA-ARS, SEED COMPANIES</b>										
Kern County field screening trial - Fusarium race 4 severe infestation field										2/7/2011
2010 field trials - sandy loam soil - confirmed Fusarium race 4 infested site										
*evaluations typically done about 7-8 weeks after planting										
planting date (May 5, 2010)										(0=no symptoms,
final field evaluation date (7/12/2010)										5=dead, intermediate #'s are relative indicator of severity of damage (both foliar & vascular))
Entry #	Variety Name	Type of Cotton	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 (cm measured on final evaluation date)	average number of plants per field replication at 1st count date	% plant survival under disease pressure at site (calc as % of emergence 10-12 days after planting)	
101	DP-360	Pima (aka "OA-360")	<b>1.00</b>	<b>0.13</b>	<b>0.67</b>	<b>12.87</b>	<b>49.27</b>	<b>52.67</b>	<b>87.96</b>	= average (in bold text)
			0.00	0.35	0.72	1.06	4.51	1.15	8.69	= Std. Deviation (indication of variability in data)
102	Phy-802RF	Pima (aka "P07X-8212RF")	<b>0.00</b>	<b>0.13</b>	<b>0.73</b>	<b>12.33</b>	<b>52.73</b>	<b>55.33</b>	<b>95.72</b>	
			0.00	0.52	0.59	1.23	4.68	1.53	3.80	
103	Phy-804RF	Pima (aka "P07X-8244RF")	<b>2.00</b>	<b>0.33</b>	<b>1.40</b>	<b>12.07</b>	<b>47.73</b>	<b>55.67</b>	<b>85.00</b>	
			0.00	0.72	0.91	2.25	8.66	2.52	2.28	
104	Phy-805RF	Pima (aka "P07X-8213RF")	<b>2.00</b>	<b>0.60</b>	<b>1.60</b>	<b>11.93</b>	<b>42.93</b>	<b>51.33</b>	<b>79.95</b>	
			0.00	0.91	1.06	1.83	7.87	1.53	4.28	
105	Phy-800	Pima	<b>0.00</b>	<b>0.00</b>	<b>0.73</b>	<b>12.20</b>	<b>53.13</b>	<b>54.00</b>	<b>90.69</b>	
			0.00	0.00	0.59	1.52	3.31	3.00	2.23	
106	Cobalt	Pima	<b>3.67</b>	<b>2.27</b>	<b>3.20</b>	<b>10.80</b>	<b>30.07</b>	<b>48.00</b>	<b>64.22</b>	
			0.58	0.70	0.56	1.97	7.30	4.00	9.65	
107	DP-357	Pima	<b>3.00</b>	<b>1.53</b>	<b>2.60</b>	<b>11.00</b>	<b>33.07</b>	<b>54.00</b>	<b>68.04</b>	
			0.00	0.83	0.83	1.77	6.42	2.65	4.28	
108	HA-195	hybrid Pima/Upland	<b>1.67</b>	<b>0.87</b>	<b>1.87</b>	<b>12.87</b>	<b>57.33</b>	<b>55.33</b>	<b>91.69</b>	
			0.58	0.92	0.99	0.99	7.60	1.53	8.22	
109	Phy-72	Acala	<b>2.00</b>	<b>0.87</b>	<b>2.33</b>	<b>12.40</b>	<b>45.93</b>	<b>56.33</b>	<b>86.56</b>	
			1.00	0.74	1.18	1.64	6.17	2.08	9.29	
110	DP-09R555B2R2	CA Upland	<b>2.00</b>	<b>0.73</b>	<b>1.47</b>	<b>10.80</b>	<b>50.27</b>	<b>49.33</b>	<b>95.21</b>	
			1.00	1.03	0.83	1.26	4.82	2.89	4.20	







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2/7/2011  
 Bob Hutmacher  
 Univ. California  
 Cooperative  
 Extension

Kern County field screening trial - Fusarium race 4 severe infestation field  
 2010 field trials - sandy loam soil - confirmed Fusarium race 4 infested site

\*evaluations typically done about 7-8 weeks after planting

Results from cooperative research work done by:  
 University of CA Coop. Extension & USDA - ARS, WICS - Shafter  
 Hutmacher, Wright, Ulloa, Keeley, Banuelos, Delgado  
 \* with cooperation from participating seed companies  
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final field evaluation date (7/12/2010)  
 (0=no symptoms,  
 5=dead, intermediate #'s are  
 relative indicator of severity of  
 damage (both foliar & vascular)

**QUESTIONS? Contact Bob Hutmacher: rbhutmacher@ucdavis.edu**

Entry #	Variety Name	Type of Cotton	whole plot foliar fusarium damage rating (0=no visible damage, 5= dead, intermediate #'s relative indicator)	average fusarium damage	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 (cm measured on final evaluation date)	average number of plants per field replication at 1st count date	% plant survival under disease pressure at site (calc as % of emergence 10-12 days after planting)
141	Phy10-FOV03	not identified - Pima?	<b>3.00</b> 1.00	<b>1.20</b> 0.56	<b>2.60</b> 0.74	<b>10.87</b> 1.64	<b>34.73</b> 4.48	<b>54.00</b> 2.65	<b>70.29</b> 6.17	= average (in bold text) = Std. Deviation (indication of variability in data)
142	Phy10-FOV04	not identified - Pima?	<b>3.00</b> 1.00	<b>1.40</b> 0.74	<b>2.53</b> 0.52	<b>12.20</b> 1.15	<b>41.93</b> 8.56	<b>56.33</b> 3.21	<b>64.42</b> 18.63	
143	Phy10-FOV05	not identified - Pima?	<b>0.33</b> 0.58	<b>0.00</b> 0.00	<b>0.67</b> 0.62	<b>12.27</b> 1.49	<b>53.40</b> 2.92	<b>54.33</b> 2.31	<b>95.73</b> 2.07	
144	Phy10-FOV06	not identified - Pima?	<b>0.33</b> 0.58	<b>0.00</b> 0.00	<b>0.80</b> 0.68	<b>13.07</b> 1.03	<b>53.13</b> 4.21	<b>55.67</b> 2.31	<b>95.23</b> 5.33	
145	Phy10-FOV07	not identified - Pima?	<b>0.33</b> 0.58	<b>0.20</b> 0.41	<b>1.00</b> 0.85	<b>12.33</b> 1.50	<b>51.47</b> 4.00	<b>56.33</b> 1.15	<b>94.67</b> 3.51	
146	Phy10-FOV08	not identified - Pima?	<b>0.67</b> 0.58	<b>0.00</b> 0.00	<b>0.80</b> 0.41	<b>12.67</b> 0.82	<b>54.27</b> 3.73	<b>56.33</b> 2.89	<b>95.46</b> 7.04	
147	Phy10-FOV09	not identified - Pima?	<b>0.67</b> 0.58	<b>0.13</b> 0.35	<b>0.67</b> 0.62	<b>12.07</b> 1.39	<b>51.53</b> 3.81	<b>56.00</b> 2.65	<b>97.66</b> 2.03	
148	Phy10-FOV10	not identified - Pima?	<b>0.67</b> 0.58	<b>0.00</b> 0.00	<b>0.73</b> 0.59	<b>13.27</b> 1.16	<b>51.67</b> 4.67	<b>54.33</b> 2.52	<b>93.91</b> 1.95	
149	Phy10-FOV11	not identified - Pima?	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.60</b> 0.51	<b>13.00</b> 1.00	<b>55.80</b> 3.82	<b>54.33</b> 1.15	<b>96.92</b> 2.79	
150	Phy10-FOV12	not identified - Pima?	<b>1.33</b> 0.58	<b>0.47</b> 0.64	<b>1.47</b> 1.19	<b>11.80</b> 2.01	<b>47.67</b> 11.02	<b>57.00</b> 1.73	<b>84.17</b> 3.29	

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Entry #	Variety Name	Type of Cotton	whole plot foliar fusarium damage		average		# main stem nodes on plant (lower # may indicate more stunting assoc with disease)	plant height (cm measured on final evaluation date)	average number of plants per field replication at 1st count date	% plant survival under disease pressure at site (calc as % of emergence 10-12 days after planting)
			rating (0=no visible damage, 5= dead, intermediate #'s relative indicator)	symptoms on plants also rated for vascular symptoms	foliar	root				
151	Phy10-FOV13	not identified - Pima?	<b>0.33</b>	<b>0.00</b>	<b>0.73</b>	<b>12.13</b>	<b>56.53</b>	<b>57.00</b>	<b>96.43</b>	= average (in bold text)
			0.58	0.00	0.59	0.52	4.87	1.73	3.64	= Std. Deviation (indication of variability in data)
152	Phy10-FOV14	not identified - Pima?	<b>0.33</b>	<b>0.13</b>	<b>0.93</b>	<b>12.60</b>	<b>54.67</b>	<b>57.33</b>	<b>93.05</b>	
			0.58	0.35	0.46	0.99	2.53	0.58	6.24	
153	Phy10-FOV15	not identified - Pima?	<b>0.00</b>	<b>0.00</b>	<b>0.67</b>	<b>12.40</b>	<b>53.47</b>	<b>55.00</b>	<b>97.60</b>	
			0.00	0.00	0.62	0.91	3.74	3.61	0.91	
border	Phy-800	Pima	<b>0.00</b>	<b>0.00</b>	<b>0.80</b>	<b>11.60</b>	<b>19.40</b>	<b>59.00</b>	<b>96.07</b>	
			0.00	0.00	1.10	0.55	2.19	4.00	0.73	