

2014_Fusarium Race 4 Field Ratings

SUMMARY TABLE - means and std deviations only

COMMERCIALY-AVAILABLE VARIETIES AND SEED CO. EXPERIMENTALS submitted to us for testing are included in this summary

Primary Cooperators in Trials: Bob Hutmacher, Steve Wright and Mauricio Ulloa Univ. CA and USDA-ARS Grower Cooperators	if questions: contact Bob Hutmacher, Univ. CA contact cell: (559) 260-8957 contact e-mail: rbhutmacher@ucdavis.edu
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Primary Evaluation Dates for ratings: TULARE COUNTY SITE (July-August) and KERN COUNTY SITE (July-August)

SUGGESTIONS FOR INTERPRETING THIS DATA SUMMARY:

- 1) averages and standard deviations are shown for each cultivar and test plot location in 2012 trials (average and standard deviation were calculated based on 3 replicate plots)
- 2) individual plot sizes were single row by about 15 to 18 feet in length (depending on site), with about 65-70 seed planted per plot row
- 3) we suggest that the most useful ratings to first focus on in this summary are: (vascular stain is correlated with severity of infection, survival % is related to yield loss impacts) (a) ROOT VASCULAR STAIN RATING; and (b) PLANT SURVIVAL % AT 7-8 WEEKS
- 4) the rating "WHOLE PLOT FOLIAR RATINGS" tend to be highly variable and affected by overall plant stunting, survival % - a low WHOLE PLOT FOLIAR or PLANT FOLIAR RATING does not necessarily indicate that plants are not infected
- 5) the PLANT HEIGHT and MAIN STEM NODE COUNT ratings were done as a relative indicator of impacts of disease pressure on plant vigor and growth (compare with resistant varieties such as Phy-800, Phy-802RF to evaluate relative effects)

FOR FOLIAR AND ROOT VASCULAR RATINGS (meaning of index rating values shown):

rating = 0 means no visible symptoms (no foliar damage, no root staining) are evident
rating = 5 means visible symptoms are very severe (severe foliar damage, stunting, plants nearly dead)
intermediate rating #'s = relative indicators of severity of foliar or vascular staining (higher numbers indicate worse disease injury)

FOR COMPARISON PURPOSES: (you can look at data averages for the entries of particular interest to you, and compare the values with resistant or susceptible check varieties)

Examples of FOV-4 resistant/tolerant checks = Phy 802RF (# 612); Phy 811RF (# 614) or DP-358RF (# 615)

Examples of FOV-4 moderately susceptible Acala varieties = Phy 725RF (# 601); Daytona RF (# 611)

2014 commercial entries - FOV tests				WEST KERN SITE FIELD FOV 4 SCREENING - May to July 2014				page 1			
Race 4 infested field sites				TULARE COUNTY SITE FOV 4 SCREENING - May to August 2014							
University of California Cooperative Extension and USDA-ARS - Hutmacher, R.B., S.D. Wright, M. Ulloa (2/2015)											
ENTRY	EXPERIMENTAL CULTIVAR OR #	TYPE OF	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
601	PHY-725RF	Upland	West Kern County	average	2.67	0.80	2.53	24.33	15.33	25.67	58.64
				std deviation	0.58	1.08	0.52	4.37	1.40	4.73	8.70
			Tulare County	average	2.00	0.93	1.93	23.53	15.00		86.23
				std deviation	0.00	0.96	1.03	4.05	1.60		20.07
602	PHY-PX7064-05WRF	Upland	West Kern County	average	0.67	0.33	2.00	27.13	16.27	29.33	73.92
				std deviation	1.15	0.90	0.65	3.44	1.22	13.20	10.39
			Tulare County	average	0.00	0.13	2.00	25.86	15.36		85.00
				std deviation	0.00	0.35	0.76	3.48	1.24		6.19
603	PHY-499WRF	Upland	West Kern County	average	2.00	0.73	1.80	28.73	17.27	37.67	77.42
				std deviation	0.00	1.10	0.56	5.54	1.71	8.08	17.06
			Tulare County	average	2.00	0.93	1.47	25.53	14.80		78.03
				std deviation	0.00	0.96	0.83	3.89	1.43		23.53
604	FM-1830GLT	Upland	West Kern County	average	0.00	0.00	1.53	27.00	17.40	31.67	73.64
				std deviation	0.00	0.00	0.64	4.38	1.40	7.77	8.79
			Tulare County	average	0.67	0.33	1.33	26.33	15.33		86.43
				std deviation	1.15	0.62	0.62	2.38	1.23		10.69
605	FM-2334GLT	Upland	West Kern County	average	0.67	0.13	1.53	27.73	16.93	31.67	92.26
				std deviation	1.15	0.52	0.52	4.17	1.62	2.08	3.21
			Tulare County	average	0.67	0.13	0.73	25.47	16.00		72.30
				std deviation	1.10	0.52	0.59	2.56	1.00		16.19
606	FM-2322GLT	Upland	West Kern County	average	1.33	0.40	1.87	27.20	15.73	31.67	81.51
				std deviation	1.15	0.83	0.52	5.02	1.10	1.15	6.71
			Tulare County	average	0.33	0.00	1.33	26.33	15.27		69.13
				std deviation	0.58	0.00	0.49	2.23	0.96		13.92
607	DP-1252B2RF	Upland	West Kern County	average	2.00	1.00	2.00	27.00	14.73	36.67	82.69
				std deviation	0.00	1.07	0.65	3.76	1.28	4.51	8.63
			Tulare County	average	2.00	0.93	1.60	25.07	12.53		84.80
				std deviation	0.00	1.03	0.83	4.92	1.81		6.97
608	DP-1137B2RF	Upland	West Kern County	average	1.33	0.73	2.20	25.53	13.53	36.00	87.29
				std deviation	1.15	1.10	0.41	4.07	1.88	5.29	4.25
			Tulare County	average	2.00	0.87	1.47	27.20	12.60		98.13
				std deviation	0.00	0.92	0.64	3.53	1.36		1.67
609	DP-1050B2RF	Upland	West Kern County	average	2.00	0.53	1.60	29.07	15.73	30.00	86.63
				std deviation	0.00	0.92	0.63	3.06	1.16	7.94	7.01
			Tulare County	average	2.00	1.27	1.73	25.80	13.60		96.53
				std deviation	0.00	0.88	0.70	2.93	0.98		1.33
610	PHY-755RF	Upland	West Kern County	average	2.00	0.67	2.20	26.67	17.73	32.67	70.06
				std deviation	0.00	0.98	0.56	2.72	1.16	3.79	9.05
			Tulare County	average	2.00	0.93	2.13	23.40	15.07		82.47
				std deviation	0.00	0.88	0.99	3.50	0.96		0.75

2014 commercial entries - FOV tests				WEST KERN SITE FIELD FOV 4 SCREENING - May to July 2014				page 2			
Race 4 infested field sites				TULARE COUNTY SITE FOV 4 SCREENING - May to August 2014							
University of California Cooperative Extension and USDA-ARS - Hutmacher, R.B., S.D. Wright, M. Ulloa (2/2015)											
ENTRY	EXPERIMENTAL CULTIVAR OR #	TYPE OF COTTON	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
611	DAYTONA	Upland	West Kern County	average 2.00	0.53	2.07	23.53	15.27	31.33	76.39	
				std deviation 0.00	0.92	0.46	5.05	1.28	5.69	10.49	
			Tulare County	average 1.33	0.33	2.27	21.93	14.60		72.20	
				std deviation 0.58	0.62	0.59	3.86	0.99		19.30	
612	PHY-802RF	Pima	West Kern County	average 1.33	0.33	0.86	25.87	15.60	38.00	83.86	
				std deviation 1.15	0.72	0.53	2.03	1.06	7.94	9.16	
			Tulare County	average 0.00	0.00	0.67	26.67	15.80		95.03	
				std deviation 0.00	0.00	0.49	1.63	0.86		4.70	
613	PHY-805RF	Pima	West Kern County	average 2.00	0.40	1.33	22.87	15.60	20.33	44.71	
				std deviation 1.00	0.91	0.72	4.70	1.92	3.06	4.52	
			Tulare County	average 1.33	0.47	1.33	23.33	15.27		65.23	
				std deviation 0.58	0.64	0.90	3.42	1.22		15.94	
614	PHY-811RF	Pima	West Kern County	average 0.00	0.07	0.93	27.07	15.93	32.00	73.61	
				std deviation 0.00	0.26	0.46	2.71	1.22	6.93	13.44	
			Tulare County	average 0.33	0.13	1.07	25.80	15.87		69.10	
				std deviation 0.57	0.35	0.70	2.34	0.74		3.68	
615	DP-358RF	Pima	West Kern County	average 1.33	0.60	1.13	25.87	15.87	34.33	85.12	
				std deviation 1.15	0.91	0.35	2.47	1.51	1.15	2.51	
			Tulare County	average 0.00	0.00	0.40	26.67	15.73		91.17	
				std deviation 0.00	0.00	0.51	2.09	1.03		9.82	
616	MON 13R348R2P	Pima	West Kern County	average 0.00	0.07	1.13	26.93	16.60	37.67	89.19	
				std deviation 0.00	0.26	0.35	2.43	1.40	1.53	12.34	
			Tulare County	average 0.00	0.00	0.67	26.47	15.60		93.17	
				std deviation 0.00	0.00	0.49	1.30	0.91		7.01	
617	MON 12R254R2P	Pima	West Kern County	average 3.33	1.92	2.83	15.42	14.08	6.67	17.18	
				std deviation 0.58	1.00	0.83	4.01	2.68	5.03	15.97	
			Tulare County	average 1.67	0.47	1.87	16.73	14.87		41.17	
				std deviation 0.58	0.92	0.74	3.08	1.81		18.49	
618	HA-211	hybrid	West Kern County	average 0.00	0.00	1.53	31.60	17.60	22.67	74.51	
				std deviation 0.00	0.00	0.64	3.81	1.35	4.04	8.38	
			Tulare County	average 1.00	0.20	1.27	27.87	16.05		80.83	
				std deviation 1.00	0.77	0.46	4.76	1.87		7.81	
619	HA-1432	hybrid	West Kern County	average 0.00	0.13	1.53	33.40	19.31	31.67	74.82	
				std deviation 0.00	0.35	0.52	5.33	1.18	4.04	9.81	
			Tulare County	average 0.00	0.00	0.67	30.13	16.67		91.00	
				std deviation 0.00	0.00	0.49	2.13	0.98		5.45	

2014 commercial entries - FOV tests				WEST KERN SITE FIELD FOV 4 SCREENING - May to July 2014				page 3			
Race 4 infested field sites				TULARE COUNTY SITE FOV 4 SCREENING - May to August 2014							
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ENTRY	EXPERIMENTAL CULTIVAR OR #	TYPE OF COTTON	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
620	DP-340	Pima	West Kern County	average	3.67	1.50	2.43	11.14	11.71	10.67	26.79
				std deviation	0.58	0.85	0.51	3.08	2.30	5.77	9.35
			Tulare County	average	1.33	0.50	2.43	14.21	14.14		31.37
				std deviation	0.58	0.65	0.76	5.15	2.82		18.94
621	BX-1530 GLT	Upland	West Kern County	average	2.67	1.07	2.00	26.93	15.00	29.67	83.79
				std deviation	0.58	1.22	0.85	6.17	2.10	1.15	7.08
			Tulare County	average	2.00	1.33	2.07	24.47	12.80		80.83
				std deviation	0.00	0.90	0.70	3.27	1.32		14.76
622	BX-1534 GLT	Upland	West Kern County	average	0.00	0.07	1.80	27.67	17.00	32.33	76.58
				std deviation	0.00	0.26	0.68	3.74	1.65	1.15	4.45
			Tulare County	average	0.67	0.13	2.27	26.80	15.87		81.10
				std deviation	0.58	0.35	0.70	2.15	0.74		6.85
623	BX-1535 GLT	Upland	West Kern County	average	1.33	0.40	1.80	27.53	17.80	35.00	84.94
				std deviation	1.15	0.83	0.41	4.37	1.78	3.46	7.80
			Tulare County	average	0.00	0.07	1.53	26.83	15.27		93.83
				std deviation	0.00	0.26	0.64	3.07	1.44		8.15
624	BX-1536 GLT	Upland	West Kern County	average	1.33	0.40	1.80	27.93	18.00	36.00	91.52
				std deviation	1.15	0.83	0.56	3.49	1.07	1.73	3.94
			Tulare County	average	1.33	0.40	1.53	24.60	15.67		77.30
				std deviation	1.15	0.91	0.64	4.44	2.09		15.78
625	BX-1538 GLT	Upland	West Kern County	average	1.00	0.60	2.27	24.40	17.07	35.00	83.52
				std deviation	1.00	0.83	0.59	5.51	1.69	3.00	10.32
			Tulare County	average	1.33	0.40	1.67	25.13	15.53		90.77
				std deviation	1.15	0.74	0.72	3.56	1.13		2.73
626	13R352 B2R2	Upland	West Kern County	average	1.33	0.33	2.00	24.13	15.53	24.67	77.46
				std deviation	1.15	0.72	0.65	3.54	1.41	9.07	7.01
			Tulare County	average	2.00	0.67	1.67	22.27	13.67		77.33
				std deviation	0.00	1.05	0.62	2.72	1.23		8.72
627	12R249 B2R2	Upland	West Kern County	average	2.00	0.53	2.40	25.00	16.07	34.67	82.46
				std deviation	0.00	1.13	0.51	6.00	2.52	1.53	10.31
			Tulare County	average	1.67	0.40	1.13	24.73	14.47		82.83
				std deviation	0.58	0.74	0.84	2.82	0.99		13.21
628	12R224 B2R2	Upland	West Kern County	average	2.00	0.60	1.80	26.13	17.27	29.67	69.61
				std deviation	0.00	1.06	0.68	3.68	1.16	1.15	2.61
			Tulare County	average	1.33	0.73	2.07	27.00	15.73		86.40
				std deviation	1.15	0.88	0.70	2.24	1.16		0.36
629	13R310 B2R2	Upland	West Kern County	average	2.00	0.40	2.00	25.60	17.73	32.33	81.14
				std deviation	0.00	0.74	0.00	3.29	1.67	3.79	4.39
			Tulare County	average	0.33	0.13	2.07	26.40	16.60		91.67
				std deviation	0.58	0.35	0.80	2.35	1.18		9.98

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ENTRY #	EXPERIMENTAL CULTIVAR OR COMMERCIAL VARIETY	TYPE OF COTTON	LOCATION		WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE
630	14R1455 B2R2	Upland	West Kern County	average	2.00	0.40	2.00	28.40	15.73	32.33	82.24
				std deviation	0.00	0.83	0.38	4.78	1.71	1.53	4.12
			Tulare County	average	2.00	1.20	2.33	24.00	13.73		89.50
				std deviation	0.00	1.01	0.72	3.55	1.83		2.91
631	14R1456 B2R2	Upland	West Kern County	average	1.00	0.27	1.87	31.67	18.62	35.33	85.55
				std deviation	1.00	0.59	0.35	2.58	4.75	3.06	7.21
			Tulare County	average	1.33	0.53	1.80	26.53	14.93		84.50
				std deviation	1.15	0.83	0.86	1.96	1.58		9.75
632	PHY-417WRF	Upland	West Kern County	average	2.00	0.60	2.07	24.87	16.33	27.33	69.12
				std deviation	1.00	1.06	0.26	4.49	1.84	8.14	12.99
			Tulare County	average	2.00	1.27	2.40	23.93	15.25		82.23
				std deviation	0.00	0.88	0.64	4.53	1.83		9.78
633	PHY-427WRF	Upland	West Kern County	average	1.67	0.73	2.20	27.00	17.07	30.33	67.93
				std deviation	1.53	0.96	0.56	3.07	1.10	3.06	7.02
			Tulare County	average	2.00	1.00	1.87	25.73	15.47		83.00
				std deviation	0.00	1.00	0.84	3.24	0.99		8.34
634	OA-1	Pima	West Kern County	average	1.67	0.27	1.53	25.07	16.53	24.67	53.98
				std deviation	0.58	0.70	0.52	4.53	1.51	4.04	7.58
			Tulare County	average	1.33	0.40	1.20	23.27	14.93		78.17
				std deviation	0.58	0.83	0.86	3.41	1.28		6.83
635	OA-2	Pima	West Kern County	average	0.67	0.27	1.53	27.47	15.80	41.00	86.27
				std deviation	1.15	0.70	0.52	2.70	1.37	4.58	12.23
			Tulare County	average	0.00	0.07	0.93	28.47	15.53		93.43
				std deviation	0.00	0.26	0.59	1.88	1.13		3.75
636	OA-3	Pima	West Kern County	average	0.67	0.13	1.13	26.67	16.60	39.33	85.19
				std deviation	1.15	0.52	0.35	1.59	0.99	8.50	15.61
			Tulare County	average	0.33	0.13	1.07	24.67	15.73		79.77
				std deviation	0.58	0.35	0.46	1.54	1.39		14.04
637	OA-4	Pima	West Kern County	average	0.67	0.20	0.93	27.60	16.92	35.67	80.38
				std deviation	1.15	0.56	0.26	3.38	2.40	5.03	7.22
			Tulare County	average	0.00	0.00	0.80	26.20	15.60		91.70
				std deviation	0.00	0.00	0.68	1.78	0.83		4.98
638	OA-5	Pima	West Kern County	average	0.00	0.00	1.07	25.20	15.20	29.33	68.62
				std deviation	0.00	0.00	0.46	3.91	1.66	9.29	13.49
			Tulare County	average	0.00	0.07	0.73	26.00	14.73		81.03
				std deviation	0.00	0.26	0.46	1.93	1.28		19.88
639	OA-6	Pima	West Kern County	average	1.33	0.33	1.27	25.00	16.73	24.33	51.17
				std deviation	1.15	0.90	0.59	4.71	2.05	2.52	6.55
			Tulare County	average	0.67	0.27	1.00	25.47	15.60		62.03
				std deviation	1.15	0.70	0.53	1.92	3.29		4.41
640	OA-7	Pima	West Kern County	average	0.67	0.27	1.47	26.00	16.47	37.00	78.34
				std deviation	1.15	0.70	0.64	3.25	1.36	3.46	9.47
			Tulare County	average	0.33	0.07	1.07	25.67	15.80		82.03
				std deviation	0.58	0.26	0.26	2.29	1.26		13.75

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641	OA-8	Pima	West Kern County	average 0.67	0.13	1.20	26.20	16.27	34.00	78.99	
				std deviation 1.15	0.52	0.41	2.01	1.16	13.89	19.94	
			Tulare County	average 0.33	0.07	0.73	28.20	16.33		90.10	
				std deviation 0.58	0.26	0.70	1.78	0.49		4.45	
642	OA-9	Pima	West Kern County	average 0.67	0.40	1.07	25.73	16.67	37.67	79.11	
				std deviation 1.15	0.83	0.46	3.61	1.18	1.15	3.38	
			Tulare County	average 0.33	0.20	0.80	24.13	15.27		80.87	
				std deviation 0.58	0.41	0.56	1.73	1.28		11.54	
643	OA-10	Pima	West Kern County	average 0.00	0.00	1.07	27.87	17.13	37.00	80.41	
				std deviation 0.00	0.00	0.46	2.77	1.64	1.73	2.45	
			Tulare County	average 0.00	0.00	0.60	24.20	14.87		91.27	
				std deviation 0.00	0.00	0.51	1.61	0.92		7.71	
644	OA-13	Upland	West Kern County	average 2.33	0.60	2.20	17.93	15.60	15.33	76.84	
				std deviation 1.15	0.83	0.41	2.22	1.40	2.08	0.56	
			Tulare County	average 1.67	0.67	2.53	22.40	15.67		81.37	
				std deviation 0.58	0.98	0.52	2.77	0.90		10.56	
645	OA-14	?	West Kern County	average 2.00	2.00	1.00	24.00	19.00	0.33	10.00	
				std deviation					0.58	0.00	
			Tulare County	average	no living plants					0.00	
				std deviation						0.00	
646	OA-15	Upland	West Kern County	average 0.67	0.07	1.47	34.47	18.87	24.33	79.72	
				std deviation 1.15	0.26	0.52	3.50	1.64	2.52	8.39	
			Tulare County	average 0.33	0.00	1.33	27.27	15.40		96.77	
				std deviation 0.58	0.00	0.82	4.03	2.16		2.99	
647	OA-16	Upland	West Kern County	average 0.67	0.67	2.00	26.67	16.33	0.67	66.67	
				std deviation 1.15	1.15	0.00	7.77	1.53	0.58	31.20	
			Tulare County	average 1.00	0.25	1.75	23.00	14.25		66.67	
				std deviation 0.00	0.50	0.96	4.16	2.75		57.74	
648	OA-17	Upland	West Kern County	average 1.00	0.27	1.67	31.27	18.33	24.33	82.05	
				std deviation 1.00	0.59	0.62	2.19	1.35	3.51	8.59	
			Tulare County	average 0.33	0.00	1.07	26.47	16.53		79.70	
				std deviation 0.58	0.00	0.56	5.26	1.19		10.80	
649	OA-18	Upland	West Kern County	average 0.33	0.07	1.87	24.73	16.47	6.00	78.25	
				std deviation 0.58	0.26	0.52	3.33	2.56	1.73	6.14	
			Tulare County	average 1.33	0.27	1.33	23.80	14.73		94.43	
				std deviation 0.58	0.70	0.72	5.82	1.87		9.64	

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Race 4 infested field sites				TULARE COUNTY SITE FOV 4 SCREENING - May to August 2014							
University of California Cooperative Extension and USDA-ARS - Hutmacher, R.B., S.D. Wright, M. Ulloa (2/2015)											
ENTRY #	EXPERIMENTAL CULTIVAR OR COMMERCIAL VARIETY	TYPE OF COTTON	LOCATION		WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE
650	OA-19	Pim	West Kern County	average	1.67	0.67	1.60	29.73	16.67	11.33	94.12
				std deviation	0.58	0.98	0.51	4.45	1.40	3.06	10.19
			Tulare County	average	2.33	0.93	2.13	20.10	13.60		87.50
				std deviation	0.58	0.88	0.74	4.09	1.72		21.65
651	OA-20	Upland	West Kern County	average	0.67	0.13	1.67	22.60	15.27	22.00	93.96
				std deviation	0.58	0.35	0.49	4.15	1.33	8.89	7.39
			Tulare County	average	1.00	0.07	0.93	20.80	14.33		77.03
				std deviation	0.00	0.26	0.70	1.97	0.90		1.38
652	BX-1531 GLT	Upland	West Kern County	average	2.00	0.87	1.93	26.80	16.20	35.33	87.66
				std deviation	0.00	1.13	0.46	4.28	1.74	2.52	4.84
			Tulare County	average	2.00	1.13	2.00	25.47	14.73		87.80
				std deviation	0.00	0.92	0.76	2.03	1.44		5.64
653	BX-1532 GLT	Upland	West Kern County	average	2.00	0.53	1.73	27.07	15.00	19.00	70.87
				std deviation	0.00	0.92	0.59	3.01	1.20	8.89	25.76
			Tulare County	average	2.00	1.07	1.33	24.20	13.53		75.47
				std deviation	0.00	1.09	0.82	3.26	1.36		11.08
654	BX-1533 GLT	Upland	West Kern County	average	2.00	0.40	2.07	30.73	16.87	37.00	84.13
				std deviation	0.00	0.83	0.46	4.42	1.55	2.00	4.16
			Tulare County	average	1.33	0.40	1.87	26.20	14.87		90.93
				std deviation	1.15	0.74	0.64	4.74	1.35		12.32
655	BX-1537 GLT	Upland	West Kern County	average	1.33	0.40	1.47	26.47	17.87	22.33	92.91
				std deviation	1.15	0.83	0.52	4.07	1.60	11.68	2.10
			Tulare County	average	1.33	0.47	1.20	23.53	15.20		79.73
				std deviation	1.07	0.92	0.77	4.41	2.21		17.53
656	BX-1539 GLT	Upland	West Kern County	average	0.33	0.00	1.47	26.93	17.13	34.33	91.53
				std deviation	0.58	0.00	0.74	3.56	1.77	6.11	6.16
			Tulare County	average	0.67	0.20	2.00	24.80	16.07		87.53
				std deviation	0.58	0.41	0.76	5.07	0.70		2.39
657	FM-1320 GL	Upland	West Kern County	average	2.00	0.40	1.73	20.80	16.20	22.33	84.14
				std deviation	1.00	0.74	0.70	3.45	1.61	8.39	10.42
			Tulare County	average	0.67	0.13	1.67	26.33	16.33		91.93
				std deviation	1.15	0.52	0.98	2.66	1.05		11.79
658	FM-1944 GLB2	Upland	West Kern County	average	1.33	0.47	1.53	29.07	17.00	40.00	92.01
				std deviation	1.15	0.83	0.52	4.43	1.41	6.00	7.98
			Tulare County	average	0.67	0.33	1.33	27.47	15.47		90.03
				std deviation	1.15	0.62	0.72	2.35	1.30		7.71

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EXPERIMENTAL				WHOLE PLOT	PLANT AVERAGE	ROOT VASCULAR	PLANT HEIGHT	MAIN STEM	AVERAGE	SURVIVAL PERCENT	
ENTRY	CULTIVAR OR			FOLIAR FOV	FOLIAR FOV	STAIN INDEX	(inches) AT 7-8 WKS	NUMBER OF	# OF PLANTS	AT 7 WEEKS	
#	COMMERCIAL VARIETY		LOCATION	INDEX RATING	INDEX RATING	RATING	POST PLANTING	NODES	PER PLOT	AFTER EMERGENCE	
659	FM-2484 B2F	Upland	West Kern County	average	2.00	0.53	1.67	26.93	17.13	34.33	72.57
				std deviation	0.00	0.92	0.49	3.92	1.64	15.04	33.88
			Tulare County	average	1.00	0.07	1.20	24.93	15.93		84.93
				std deviation	1.00	0.26	0.77	2.74	0.96		10.15
660	ST-4747 GLB2	Upland	West Kern County	average	1.67	0.40	1.80	23.33	16.33	39.67	89.25
				std deviation	0.58	0.83	0.41	1.76	0.82	4.04	4.97
			Tulare County	average	1.33	0.47	1.87	24.40	15.00		83.87
				std deviation	1.15	0.83	0.52	3.18	1.13		8.32
661	ST-4946 GLB2	Upland	West Kern County	average	0.67	0.13	1.93	26.80	16.40	29.33	84.18
				std deviation	1.15	0.52	0.46	2.01	1.40	10.79	6.00
			Tulare County	average	1.67	0.47	1.80	26.87	14.87		83.87
				std deviation	0.58	0.74	0.77	2.33	1.25		6.60
662	ST-5032 GLT	Upland	West Kern County	average	0.67	0.20	2.07	25.00	16.47	41.00	93.21
				std deviation	0.58	0.41	0.46	4.23	1.64	6.00	3.60
			Tulare County	average	2.00	0.40	1.73	26.93	15.53		89.17
				std deviation	0.00	0.83	0.70	2.37	0.83		6.40
663	ST-5289 GLT	Upland	West Kern County	average	2.00	0.87	2.33	24.33	16.33	29.00	86.10
				std deviation	0.00	1.13	0.82	3.29	1.80	12.49	1.14
			Tulare County	average	2.00	0.93	1.93	25.20	14.67		92.07
				std deviation	0.00	1.22	0.80	3.61	1.68		2.03
664	ST-6448 GLB2	Upland	West Kern County	average	2.00	0.40	1.80	26.40	16.73	30.00	75.96
				std deviation	0.00	0.83	0.56	5.42	2.19	7.55	17.35
			Tulare County	average	1.33	0.40	1.67	25.80	16.07		79.93
				std deviation	1.15	0.83	0.72	2.68	1.58		4.64
665	DP-348	Pima	West Kern County	average	1.33	1.07	1.27	23.73	15.40	26.33	67.44
				std deviation	1.15	1.03	0.46	4.06	1.59	12.66	30.24
			Tulare County	average	0.33	0.33	1.33	26.53	15.67		89.17
				std deviation	0.58	0.48	0.49	2.03	1.35		3.78
666	OA-EXP.5-08-1	Pima	West Kern County	average	1.33	0.47	1.13	26.13	15.60	39.33	81.00
		Uzbek		std deviation	0.58	0.74	0.35	1.51	1.30	4.73	11.45
			Tulare County	average	0.00	0.07	1.13	26.20	15.27		88.13
				std deviation	0.00	0.26	0.35	1.78	1.33		11.56
667	PHY-72	Upland	West Kern County	average	1.33	0.40	1.40	25.13	15.73	35.00	63.39
				std deviation	1.15	0.83	0.51	3.27	1.83	3.00	3.40
			Tulare County	average	2.00	0.53	1.60	23.47	14.93		70.20
				std deviation	0.00	0.92	0.63	3.93	1.71		19.32
668	OA-EXP.11.8	Pima	West Kern County	average	0.00	0.00	1.20	21.80	14.87	33.33	78.24
				std deviation	0.00	0.00	0.56	2.11	1.36	2.89	4.58
			Tulare County	average	0.00	0.00	0.40	26.13	15.67		85.20
				std deviation	0.00	0.00	0.51	3.18	1.23		10.41

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	EXPERIMENTAL			WHOLE PLOT	PLANT AVERAGE	ROOT VASCULAR	PLANT HEIGHT	MAIN STEM	AVERAGE	SURVIVAL PERCENT	
ENTRY	CULTIVAR OR			FOLIAR FOV	FOLIAR FOV	STAIN INDEX	(inches) AT 7-8 WKS	NUMBER OF	# OF PLANTS	AT 7 WEEKS	
#	COMMERCIAL VARIETY	LOCATION		INDEX RATING	INDEX RATING	RATING	POST PLANTING	NODES	PER PLOT	AFTER EMERGENCE	
669	OA-EXP.13.1	Pima	West Kern County	average	0.67	0.40	1.27	22.60	14.60	34.33	83.16
				std deviation	1.15	0.74	0.59	3.36	1.72	5.51	1.70
		Tulare County		average	0.33	0.20	1.13	25.73	14.07		89.57
				std deviation	0.58	0.41	0.64	2.49	1.91		5.50
670	OA-EXP.13-7	Pima	West Kern County	average	1.33	0.60	1.20	23.47	15.47	35.00	80.61
				std deviation	1.15	0.91	0.41	2.80	1.46	4.36	7.18
		Tulare County		average	0.33	0.13	0.93	25.47	15.60		86.40
				std deviation	0.58	0.35	0.80	2.75	1.68		12.64
671	OA-EXP.13-9	Pima	West Kern County	average	2.00	0.53	1.40	22.33	15.53	35.67	76.92
				std deviation	0.00	0.92	0.63	2.44	1.30	6.66	13.90
		Tulare County		average	0.00	0.07	1.33	25.20	15.20		95.80
				std deviation	0.00	0.26	0.49	3.09	1.90		4.15
672	OA-EXP.16-9	Pima	West Kern County	average	1.67	0.40	1.13	24.13	15.53	39.00	95.89
				std deviation	0.58	0.83	0.35	3.56	1.68	3.46	12.36
		Tulare County		average	0.33	0.20	1.27	25.67	16.27		78.43
				std deviation	0.50	0.41	0.46	1.54	0.96		1.65
673	OA-EXP.17-12	Pima	West Kern County	average	1.67	0.53	1.00	23.60	16.47	25.67	57.81
				std deviation	1.53	0.83	0.38	3.09	1.51	8.50	13.10
		Tulare County		average	0.67	0.07	0.80	23.20	13.80		72.27
				std deviation	0.58	0.26	0.68	3.10	4.18		7.05
674	OA-EXP.19-14	Pima	West Kern County	average	0.00	0.00	0.93	25.07	15.00	251.00	85.78
				std deviation	0.00	0.00	0.46	2.02	0.93	366.39	7.12
		Tulare County		average	0.67	0.00	0.60	27.33	15.67		92.50
				std deviation	1.15	0.00	0.51	1.59	0.82		7.05
675	OA-EXP.20-13	Pima	West Kern County	average	2.00	0.73	1.33	22.93	16.27	20.67	47.63
				std deviation	0.00	0.96	0.49	3.61	1.16	6.66	5.20
		Tulare County		average	0.67	0.13	1.27	23.67	16.27		73.23
				std deviation	0.58	0.35	0.70	2.69	1.03		12.57
676	OA-EXP.20-16	Pima	West Kern County	average	0.67	0.40	1.27	23.67	16.73	31.67	65.32
				std deviation	1.15	0.83	0.46	2.77	1.28	7.23	8.01
		Tulare County		average	0.00	0.07	0.80	23.07	16.13		68.63
				std deviation	0.00	0.26	0.41	2.34	1.46		11.55
677	OA-EXP.21-12	Pima	West Kern County	average	0.67	0.40	1.27	21.60	15.47	27.67	77.44
				std deviation	1.15	0.83	0.59	1.96	0.99	12.74	2.15
		Tulare County		average	0.00	0.13	1.13	23.67	14.53		87.17
				std deviation	0.00	0.35	0.74	2.92	2.17		1.04
678	OA-EXP.21-15	Upland	West Kern County	average	0.67	0.13	1.07	25.13	15.00	33.00	74.43
		?		std deviation	1.15	0.52	0.46	2.70	1.41	13.08	13.43
		Tulare County		average	1.67	1.00	2.07	21.80	15.00		80.13
				std deviation	0.58	0.93	0.70	3.21	1.81		9.64

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ENTRY	EXPERIMENTAL CULTIVAR OR #	TYPE OF COTTON	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
679	OA-EXP.23-11	Pima	West Kern County	average 1.00	0.47	1.40	19.13	15.20	19.00	45.45	
				std deviation 1.73	0.74	0.51	4.31	2.01	7.55	12.73	
			Tulare County	average 0.33	0.00	1.20	21.53	15.53		74.17	
				std deviation 0.51	0.00	0.41	2.50	1.19		8.97	
680	OA-EXP.23-14	Pima	West Kern County	average 1.33	0.27	1.00	24.20	15.80	33.00	73.68	
				std deviation 1.15	0.70	0.38	1.93	1.32	9.64	17.65	
			Tulare County	average 0.00	0.13	0.73	25.13	14.80		93.20	
				std deviation 0.00	0.35	0.59	2.36	1.21		7.99	
681	OA-EXP.24-14	Pima	West Kern County	average 0.67	0.20	1.13	21.67	15.07	30.33	80.94	
				std deviation 1.15	0.56	0.35	3.44	1.28	5.86	11.28	
			Tulare County	average 0.00	0.00	0.47	23.33	15.20		77.23	
				std deviation 0.00	0.00	0.64	2.79	1.27		19.73	
682	DP-360	Pima	West Kern County	average 0.67	0.33	1.13	23.87	16.80	31.33	78.99	
				std deviation 1.15	0.72	0.35	2.97	1.32	7.23	10.22	
			Tulare County	average 0.33	0.20	0.87	23.07	15.80		83.40	
				std deviation 0.58	0.41	0.64	3.28	2.01		13.24	
683	DP-744	Pima	West Kern County	average 3.33	1.93	2.33	10.47	14.00	15.00	28.06	
				std deviation 1.15	0.59	0.62	2.97	3.02	11.36	11.31	
			Tulare County	average 1.67	0.82	2.45	12.18	13.55		32.37	
				std deviation 0.58	0.98	0.69	4.35	2.84		17.45	
684	PHY-830	Pima	West Kern County	average 3.00	1.50	2.10	17.50	16.80	16.00	18.18	
				std deviation 0.00	0.85	0.74	5.58	2.10	18.33	25.71	
			Tulare County	average 2.33	1.46	2.62	15.69	14.46		38.13	
				std deviation 0.57	1.05	1.12	5.89	2.30		24.91	
685	FM-2989 GLB2	Upland	West Kern County	average 0.00	0.00	1.87	24.33	16.53	28.67	76.96	
				std deviation 0.00	0.00	0.52	2.97	1.68	8.39	11.83	
			Tulare County	average 1.00	0.20	1.53	27.20	15.93		94.33	
				std deviation 1.00	0.56	0.74	2.88	1.33		3.67	
686	OA-EXP-15-3	Pima	West Kern County	average 0.00	0.00	1.20	25.67	16.53	34.67	76.85	
				std deviation 0.00	0.00	0.56	2.55	2.36	5.51	12.53	
			Tulare County	average 0.33	0.20	0.87	26.87	15.20		97.03	
				std deviation 0.58	0.41	0.64	1.96	0.94		3.42	
687	OA-EXP-20-9	Pima	West Kern County	average 0.00	0.00	1.27	23.27	15.00	35.00	80.27	
				std deviation 0.00	0.00	0.46	2.96	1.51	1.00	5.12	
			Tulare County	average 0.33	0.20	1.20	24.80	14.73		87.77	
				std deviation 0.57	0.41	0.56	2.51	1.22		9.18	
688	SPR-856/1	Pima	West Kern County	average 1.00	0.27	0.53	23.93	16.00	34.67	92.88	
		Uzbek		std deviation 1.00	0.59	0.64	2.28	1.41	0.58	1.35	
			Tulare County	average 0.00	0.00	0.07	23.00	15.87		83.37	
				std deviation 0.00	0.00	0.26	2.87	1.25		13.91	

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ENTRY	EXPERIMENTAL CULTIVAR OR #	TYPE OF COTTON	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
689	SPR-1000	Pima	West Kern County	average	1.67	0.27	1.40	19.87	14.73	29.00	86.09
		Uzbek		std deviation	1.15	0.70	0.51	2.20	1.22	7.00	16.43
			Tulare County	average	0.33	0.00	0.87	19.67	14.60		54.17
				std deviation	0.58	0.00	0.64	3.11	1.12		23.46
690	SPR-9009-6	Pima	West Kern County	average	0.00	0.00	0.47	29.20	16.07	37.00	79.07
		Uzbek		std deviation	0.00	0.00	0.52	4.09	2.05	7.55	14.52
			Tulare County	average	0.00	0.07	0.33	25.67	14.87		83.33
				std deviation	0.00	0.26	0.49	1.18	1.06		9.87
691	GW-06-3233	Upland	West Kern County	average	1.00	0.20	1.60	19.10	14.40	14.33	94.44
				std deviation	0.00	0.42	0.52	5.36	2.84	18.82	9.62
			Tulare County	average	1.00	0.00	2.00	16.00	15.00		16.67
				std deviation							28.87
692	GW-07-269	Upland	West Kern County	average	0.00	0.00	1.73	27.00	15.80	21.00	68.50
				std deviation	0.00	0.00	0.70	3.78	1.15	16.70	19.14
			Tulare County	average	2.00	0.47	1.33	26.73	14.47		90.30
				std deviation	0.00	0.84	0.72	2.74	1.30		8.94
693	GW-07-373	Upland	West Kern County	average	0.67	0.13	2.20	19.73	14.40	29.33	80.94
				std deviation	0.58	0.35	0.56	2.99	1.18	7.51	14.11
			Tulare County	average	2.00	0.87	2.40	22.53	13.93		91.37
				std deviation	0.00	0.99	0.51	2.48	1.49		9.14
694	Ark 0614-49	Upland	West Kern County	average	1.33	0.47	1.73	24.47	15.53	44.33	89.24
	<i>entry from Regional Breeder</i>			std deviation	1.15	0.99	0.59	5.57	1.92	5.13	8.01
	<i>Trial - RBTN trial</i>		Tulare County	average	1.33	0.40	1.93	25.60	15.33		89.53
				std deviation	1.15	0.74	0.70	2.64	0.82		5.80
695	Ark 0615-38	Upland	West Kern County	average	1.67	0.80	2.40	23.80	15.40	38.00	82.52
	<i>entry from Regional Breeder</i>			std deviation	0.58	1.08	0.74	4.35	2.47	6.24	11.91
	<i>Trial - RBTN trial</i>		Tulare County	average	1.00	0.40	1.93	26.07	14.33		85.90
				std deviation	1.00	0.63	0.80	2.58	3.85		11.06
696	Ark 0614-34	Upland	West Kern County	average	2.00	0.67	1.80	27.60	16.23	41.67	84.16
	<i>entry from Regional Breeder</i>			std deviation	0.00	0.98	0.41	4.87	1.24	7.09	12.25
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	0.73	2.53	21.20	13.80		83.43
				std deviation	0.00	0.88	0.52	6.30	3.09		7.19
697	PD 07066	Upland	West Kern County	average	1.67	0.40	2.00	29.33	17.14	35.00	84.90
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.83	0.38	3.62	2.18	1.73	6.78
	<i>Trial - RBTN trial</i>		Tulare County	average	0.67	0.47	2.00	29.07	16.33		82.53
				std deviation	1.15	0.99	0.93	4.79	2.16		12.26

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ENTRY #	EXPERIMENTAL CULTIVAR OR COMMERCIAL VARIETY	TYPE OF COTTON	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
698	PD 07116	Upland	West Kern County	average	1.00	0.13	1.87	25.00	16.80	35.67	90.59
	<i>entry from Regional Breeder</i>			std deviation	1.00	0.52	0.52	4.46	1.90	3.79	3.29
	<i>Trial - RBTN trial</i>		Tulare County	average	1.33	0.80	1.80	24.60	15.40		88.90
				std deviation	1.15	0.86	0.68	3.72	1.76		11.10
699	PD 08039	Upland	West Kern County	average	1.33	0.20	2.00	24.07	16.53	29.00	82.54
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.56	0.53	3.67	1.64	5.29	7.18
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	0.53	1.33	27.80	14.93		82.23
				std deviation	0.00	0.91	0.90	2.68	1.28		5.82
700	GA 2009100	Upland	West Kern County	average	1.67	0.27	1.87	27.13	17.40	34.00	86.22
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.70	0.35	3.96	1.80	6.56	13.16
	<i>Trial - RBTN trial</i>		Tulare County	average	1.33	0.40	2.13	27.80	15.60		86.73
				std deviation	1.15	0.74	0.92	2.46	1.55		7.28
701	GA 2009037	Upland	West Kern County	average	0.67	0.27	2.13	28.53	17.40	32.33	75.37
	<i>entry from Regional Breeder</i>			std deviation	1.15	0.70	0.52	4.03	1.40	6.03	5.98
	<i>Trial - RBTN trial</i>		Tulare County	average	0.67	0.20	1.47	27.07	15.60		82.83
				std deviation	1.15	0.56	0.52	2.22	1.24		8.04
702	GA 2010074	Upland	West Kern County	average	2.00	1.00	1.87	26.87	15.67	35.33	84.30
	<i>entry from Regional Breeder</i>			std deviation	0.00	1.13	0.74	6.82	2.38	6.66	9.31
	<i>Trial - RBTN trial</i>		Tulare County	average	1.33	0.60	2.33	25.40	15.33		89.17
				std deviation	1.15	0.83	0.90	5.78	1.68		4.64
703	MD10-6	Upland	West Kern County	average	1.33	0.27	1.87	29.00	17.23	32.00	75.13
	<i>entry from Regional Breeder</i>			std deviation	1.15	0.59	0.52	4.04	1.36	3.61	7.99
	<i>Trial - RBTN trial</i>		Tulare County	average	1.67	0.73	1.13	25.47	13.80		89.03
				std deviation	0.58	0.88	0.83	4.93	2.34		4.33
704	LA11309062	Upland	West Kern County	average	1.33	0.40	1.93	23.33	16.20	21.67	69.13
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.74	0.46	4.27	1.90	4.62	20.77
	<i>Trial - RBTN trial</i>		Tulare County	average	1.67	0.53	1.81	22.33	14.33		81.77
				std deviation	0.58	0.92	1.01	4.79	4.19		10.45
705	LA11309040	Upland	West Kern County	average	1.67	0.40	1.60	25.87	14.87	28.67	93.37
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.83	0.51	4.90	1.46	9.24	1.73
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	0.87	2.27	25.60	14.13		85.83
				std deviation	0.00	0.83	0.80	2.35	1.06		5.57
706	LA11309005	Upland	West Kern County	average	1.00	0.13	1.87	29.47	17.33	34.00	84.78
	<i>entry from Regional Breeder</i>			std deviation	1.00	0.52	0.35	3.34	1.35	4.36	5.99
	<i>Trial - RBTN trial</i>		Tulare County	average	1.67	0.73	1.93	27.67	15.93		86.23
				std deviation	0.58	0.88	0.80	3.89	1.49		13.49
707	OA-185	Upland	West Kern County	average	1.67	0.47	2.13	25.40	15.73	28.00	72.16
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.99	0.52	5.32	1.49	9.64	11.71
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	0.73	2.00	26.73	15.13		90.30
				std deviation	0.00	0.96	0.66	3.69	1.60		3.10

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	EXPERIMENTAL				WHOLE PLOT	PLANT AVERAGE	ROOT VASCULAR	PLANT HEIGHT	MAIN STEM	AVERAGE	SURVIVAL PERCENT
ENTRY	CULTIVAR OR				FOLIAR FOV	FOLIAR FOV	STAIN INDEX	(inches) AT 7-8 WKS	NUMBER OF	# OF PLANTS	AT 7 WEEKS
#	COMMERCIAL VARIETY	LOCATION			INDEX RATING	INDEX RATING	RATING	POST PLANTING	NODES	PER PLOT	AFTER EMERGENCE
708	OA-173	Upland	West Kern County	average	1.33	0.33	1.87	30.20	15.73	34.67	82.88
	<i>entry from Regional Breeder</i>			std deviation	1.15	0.72	0.35	3.61	4.23	6.81	13.33
	<i>Trial - RBTN trial</i>		Tulare County	average	1.00	0.40	2.13	28.87	15.67		90.13
				std deviation	1.00	0.74	0.74	3.20	1.63		7.63
709	PX06520-42-2-1	Upland	West Kern County	average	2.33	0.73	2.33	21.53	16.92	25.33	65.97
	<i>entry from Regional Breeder</i>			std deviation	0.58	1.10	0.49	2.67	1.38	5.03	14.06
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	1.13	2.40	22.73	14.73		75.23
				std deviation	0.00	0.99	0.63	3.15	1.98		6.45
710	AU51038	Upland	West Kern County	average	0.67	0.13	1.93	28.87	16.67	32.67	88.34
	<i>entry from Regional Breeder</i>			std deviation	1.15	0.52	0.26	3.72	1.54	5.69	11.18
	<i>Trial - RBTN trial</i>		Tulare County	average	1.33	0.47	1.53	24.93	14.40		93.30
				std deviation	1.15	0.92	0.52	4.43	1.64		6.93
711	AU91411	Upland	West Kern County	average	1.67	0.40	1.93	28.93	16.87	26.33	81.28
	<i>entry from Regional Breeder</i>			std deviation	0.58	0.91	0.59	5.42	1.55	14.01	10.55
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	0.53	2.13	24.47	14.80		74.03
				std deviation	0.00	0.99	0.74	4.10	2.34		7.45
712	AU52034	Upland	West Kern County	average	1.67	0.67	2.00	25.53	16.93	32.33	76.02
	<i>entry from Regional Breeder</i>			std deviation	0.58	1.05	0.53	5.73	1.44	6.66	10.62
	<i>Trial - RBTN trial</i>		Tulare County	average	0.67	0.20	1.73	25.20	14.67		93.77
				std deviation	1.15	0.56	0.88	5.49	1.23		5.40
713	NM12Y1002	Upland	West Kern County	average	2.00	0.33	1.40	28.80	15.73	25.33	58.41
	<i>entry from Regional Breeder</i>			std deviation	1.00	0.90	0.91	3.78	1.75	12.42	26.79
	<i>Trial - RBTN trial</i>		Tulare County	average	1.00	0.53	2.07	24.87	14.53		82.90
				std deviation	1.00	0.64	0.96	6.05	1.64		9.01
714	NM12Y1004	Upland	West Kern County	average	1.33	0.27	0.80	34.00	16.60	35.67	79.50
	<i>entry from Regional Breeder</i>			std deviation	1.15	0.70	0.68	3.57	1.24	2.08	8.15
	<i>Trial - RBTN trial</i>		Tulare County	average	0.00	0.07	0.80	32.33	14.73		93.53
				std deviation	0.00	0.26	0.56	3.79	1.10		5.73
715	NM12Y1005	Upland	West Kern County	average	0.00	0.07	0.80	34.87	16.85	42.67	90.86
	<i>entry from Regional Breeder</i>			std deviation	0.00	0.26	0.77	5.71	1.77	4.51	8.87
	<i>Trial - RBTN trial</i>		Tulare County	average	0.00	0.00	0.20	33.60	15.20		92.50
				std deviation	0.00	0.00	0.41	2.82	1.38		6.50
716	MS 0043-28-1	Upland	West Kern County	average	2.00	0.67	1.60	26.00	16.13	32.00	84.32
	<i>entry from Regional Breeder</i>			std deviation	0.00	0.90	0.51	6.12	2.07	7.81	15.29
	<i>Trial - RBTN trial</i>		Tulare County	average	2.00	0.73	1.53	28.27	14.87		87.77
				std deviation	0.00	1.03	0.99	3.73	1.46		5.94

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ENTRY	EXPERIMENTAL CULTIVAR OR COMMERCIAL VARIETY	TYPE OF COTTON	LOCATION	WHOLE PLOT FOLIAR FOV INDEX RATING	PLANT AVERAGE FOLIAR FOV INDEX RATING	ROOT VASCULAR STAIN INDEX RATING	PLANT HEIGHT (inches) AT 7-8 WKS POST PLANTING	MAIN STEM NUMBER OF NODES	AVERAGE # OF PLANTS PER PLOT	SURVIVAL PERCENT AT 7 WEEKS AFTER EMERGENCE	
717	MS 0045-14-5	Upland	West Kern County	average 1.67	0.53	2.07	30.07	16.53	34.00	81.08	
	<i>entry from Regional Breeder</i>			std deviation 0.58	0.92	0.46	4.96	1.30	3.61	9.89	
	<i>Trial - RBTN trial</i>		Tulare County	average 2.00	1.07	1.67	26.73	13.93		92.90	
				std deviation 0.00	1.10	0.49	4.20	1.49		3.98	
718	MS 0040-19-4	Upland	West Kern County	average 2.00	0.73	1.73	26.40	16.60	29.67	74.81	
	<i>entry from Regional Breeder</i>			std deviation 0.00	1.10	0.70	4.31	1.76	1.53	1.83	
	<i>Trial - RBTN trial</i>		Tulare County	average 1.33	0.73	2.13	24.07	14.40		85.37	
				std deviation 1.15	0.88	0.84	3.95	1.68		6.31	
719	DP-393	Upland	West Kern County	average 1.67	0.40	1.93	24.40	15.00	36.33	87.64	
	<i>entry from Regional Breeder</i>			std deviation 0.58	0.83	0.46	4.48	2.14	6.03	11.56	
	<i>Trial - RBTN trial</i>		Tulare County	average 1.67	0.73	2.20	26.13	14.07		85.97	
				std deviation 0.58	0.80	0.86	3.91	1.49		10.77	
720	SG 105	Upland	West Kern County	average 2.00	1.13	2.00	25.67	16.13	32.00	77.74	
	<i>entry from Regional Breeder</i>			std deviation 0.00	1.13	0.85	3.58	1.85	6.24	11.15	
	<i>Trial - RBTN trial</i>		Tulare County	average 2.00	1.00	1.80	25.60	15.33		85.67	
				std deviation 0.00	0.84	0.94	2.97	1.45		10.94	
721	FM 958	Upland	West Kern County	average 0.33	0.13	1.93	23.60	18.00	30.67	68.18	
	<i>entry from Regional Breeder</i>			std deviation 0.58	0.35	0.26	4.12	1.47	6.35	15.91	
	<i>Trial - RBTN trial</i>		Tulare County	average 1.00	0.46	0.77	17.61	15.46		81.30	
				std deviation 0.00	0.52	0.60	3.86	2.40		7.04	
722	UA 222	Upl:Pima	West Kern County	average 0.67	0.27	1.67	26.67	17.73	28.67	92.32	
	<i>entry from Regional Breeder</i>	hybrid?		std deviation 1.15	0.70	0.72	3.60	1.39	4.51	7.37	
	<i>Trial - RBTN trial</i>		Tulare County	average 1.00	0.27	1.40	23.67	16.13		85.90	
				std deviation 1.00	0.70	0.63	3.87	1.19		6.94	
723	DP 491	Upland	West Kern County	average 1.00	0.27	2.00	23.20	16.13	26.67	73.05	
	<i>entry from Regional Breeder</i>			std deviation 1.00	0.59	0.53	5.77	2.45	6.81	19.51	
	<i>Trial - RBTN trial</i>		Tulare County	average 2.00	0.87	1.87	21.67	14.00		89.87	
				std deviation 0.00	1.13	0.64	6.62	1.89		4.92	
	DP-340	Pima	West Kern County	average 2.60	1.57	2.43	15.52	15.26	13.40	34.76	
	(duplicate of #620)			std deviation 1.14	1.16	0.51	3.07	1.91	5.31	8.40	
			Tulare County	average 1.89	2.03	2.57	18.08	14.87		22.69	
				std deviation 0.85	0.81	0.39	4.65	1.60		4.75	
	DP-744	Pima	West Kern County	average 3.60	1.96	2.16	10.24	14.00	4.69	10.62	
	(duplicate of #683)			std deviation 0.55	1.02	0.55	2.88	2.78	3.08	3.58	
			Tulare County	average 3.13	2.34	3.35	8.91	11.71		15.90	
				std deviation 1.07	1.16	1.08	3.34	3.79		2.72	
	Phy-802 RF	Pima	West Kern County	average 0.29	0.17	1.06	29.83	17.23	37.00	90.74	
	(duplicate of #612)			std deviation 0.76	0.57	0.54	2.73	1.35	4.32	5.31	
			Tulare County	average 0.19	0.09	0.88	27.15	16.80		86.53	
				std deviation 0.24	0.05	0.47	3.46	1.55		5.16	