2/11/2011							page 1 of 9				
		G TRIAL RESULTS - 201	0 GREENHOUSE EVALU	ATIONS			P+0+ - +- +				
		OPERATIVE EXTENSION									
								<u> </u>			
GREENHO	USE FACILITIES UTIL	IZED AT: University of CA	kearney Research and Exte	nsion Center	_			<u>↓ </u>			
		ELD SCREENING TRIALS WERE	PROVIDED BY:		Results from cooperative research						
	PANIES and their repr	esentatives			University of CA Coop. Extension &						
PLEASE NO					Hutmacher, Wright, Ulloa, Keeley,						
		ecorded as provided by seed	companies		University of CA Kearney Research						
		rporated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tul	are and Kings Counties					
		ODUCTION or RELEASE WITH		F SOURCE							
QUESTIO	NS? Contact Bob F	lutmacher: rbhutmacher	@ucdavis.edu								
	first week of August, 201			(0=no symptoms, 5 = dead pla							
	t inoculation approximat			increasing index #'s (1 to 5) an							
time period	from inoculation to plar			of severity of plant foliar dama							
	was approximately 5	weeks		or root vascular staining - high		plant					
# plant cont	tainers evaluated :			suggests higher level of diseas	se symptoms & injury	height (cm)		<u>├ </u>			
		ners /plants evaluated	Crowning of	average		(measured	# main -t	<u>├ </u>			
	not inoculated = 4 col	ntainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem	<u> </u>			
			plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant	<u>├ </u>			
			inoculation with	also rated for	vascular stain rating	(if shorter for inoculated	(lower #	<u> </u>			
	-		RACE 4 Fusarium INOCULATED with	vascular symptoms	stain rating	plants than for non- inoculated plants,	may indicate more stunting	<u> </u>			
	-		Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)				-
			NOT INOCULATED	Symptoms	Vascular	indicates stanting/	source and discuse)				<u> </u>
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes				
. ,	,	1						f			
1	DP-360		Inoc	0.00	0.63	17.00	4.38 ←	this row = average (sho	wn in bold)		
-	2. 000			0.00	0.74	4.41	0.74 ←		(shown in italics) - indica	tor of variab	oility in data
1	DP-360		Non	0.00	0.00	17.25	4.75		std deviation means date		
				0.00	0.00	3.59	0.50	9.7			
2	Phy-802 RF		Inoc	0.00	1.00	14.38	3.75				
	· ·			0.00	0.76	3.78	0.89				
2	Phy-802 RF		Non	0.00	0.00	14.00	4.25				
				0.00	0.00	2.16	0.50				
3	Phy-804 RF		Inoc	0.63	1.50	12.94	3.75				
				1.41	1.31	2.48	0.71				
3	Phy-804 RF		Non	0.00	0.00	12.67	4.33				
				0.00	0.00	3.06	0.58				
				0.00							
4	Phy-805 RF		Inoc	0.50	1.75	16.19	4.25				
4				0.50 1.41	1.04	5.54	0.71				
4	Phy-805 RF Phy-805 RF		Inoc	0.50 1.41 0.00	1.04 0.25	5.54 19.50	0.71 5.00				
4				0.50 1.41	1.04	5.54	0.71				
4	Phy-805 RF		Non	0.50 1.41 0.00 0.00	1.04 0.25 0.50	5.54 19.50 7.14	0.71 5.00 0.82				
4 4 5				0.50 1.41 0.00 0.00	1.04 0.25 0.50 0.75	5.54 19.50 7.14 16.25	0.71 5.00 0.82 4.00				
4	Phy-805 RF Phy-800		Non	0.50 1.41 0.00 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46	5.54 19.50 7.14 16.25 3.11	0.71 5.00 0.82 4.00 0.53				
4 4 5 5	Phy-805 RF		Non	0.50 1.41 0.00 0.00 	1.04 0.25 0.50 0.75 0.46 0.25	5.54 19.50 7.14 16.25 3.11 14.00	0.71 5.00 0.82 4.00 0.53 3.75				
4 4 5 5	Phy-805 RF Phy-800		Non	0.50 1.41 0.00 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46	5.54 19.50 7.14 16.25 3.11	0.71 5.00 0.82 4.00 0.53				
4 4 5 5	Phy-805 RF Phy-800 Phy-800	- -	Non Inoc Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50	5.54 19.50 7.14 16.25 3.11 14.00 3.37	0.71 5.00 0.82 4.00 0.53 3.75 0.50				
4 4 5 5 6	Phy-805 RF Phy-800		Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50				
4 5 5 6	Phy-805 RF Phy-800 Phy-800 Cobalt		Non Inoc Non Inoc	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53				
4 4 5 5 6 6	Phy-805 RF Phy-800 Phy-800	Image: Constraint of the second sec	Non Inoc Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25				
4 4 5 5 6 6	Phy-805 RF Phy-800 Phy-800 Cobalt		Non Inoc Non Inoc	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53				
4 4 5 5 6 6	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt	Image: Constraint of the sector of	Non Inoc Non Inoc Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.27 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50		Image: Sector		
4 4 5 5 6 6 6 7	Phy-805 RF Phy-800 Phy-800 Cobalt	Image: Constraint of the sector of	Non Inoc Non Inoc	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.27 0.00 2.27 0.00 0.00 2.27 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.25 0.50 2.71	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00				
4 4 5 5 6 6 7 7	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt DP-357	Image: Constraint of the sector of	Non Inoc Non Inoc Non Inoc	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00 0.00 2.57 1.81	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00 0.58		Image: Section of the sectio		
4 4 5 5 6 6 7 7	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt	Image: Constraint of the sector of	Non Inoc Non Inoc Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00 0.00 0.00 2.57 1.81 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60 0.00	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30 17.00	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.25 0.50 4.25 0.50	- - - -	Image: Section of the sectio		
4 4 5 5 6 6 7 7	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt DP-357	Image: Constraint of the sector of	Non Inoc Non Inoc Non Inoc	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00 0.00 2.57 1.81	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00 0.58	Image: Section of the sectio	Image: Section of the sectio		
4 4 5 5 6 6 7 7 7 8	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt DP-357 DP-357	Image: Constraint of the sector of	Non Inoc Non Inoc Inoc Inoc Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00 0.00 0.00 2.57 1.81 0.00 0.00 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60 0.00 0.00	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30 17.00 9.90	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00 0.58 4.50 0.71		Image: Sector of the		
4 4 5 5 6 6 7 7 7 8	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt DP-357	Image: Control of the sector of the	Non Inoc Non Inoc Non Inoc	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00 0.00 2.27 1.81 0.00 0.00 1.57	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60 0.00 0.00 0.00	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30 17.00 9.90 11.14	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00 0.58 4.50 0.71 3.57	- - - -	Image: Section of the sectio		
4 4 5 5 6 6 7 7 8 8 8	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt DP-357 DP-357 HA-195	Image: Constraint of the sector of	Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60 0.00 0.00 2.00 1.41	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30 17.00 9.90 11.14 3.18	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00 0.58 4.50 0.71 3.57 0.79	Image: Constraint of the sector of	Image: Section of the sectio		
4 4 5 5 6 6 7 7 8 8 8	Phy-805 RF Phy-800 Phy-800 Cobalt Cobalt DP-357 DP-357	Image: Constraint of the sector of	Non Inoc Non Inoc Inoc Inoc Non	0.50 1.41 0.00 0.00 0.00 0.00 0.00 0.00 2.00 2.27 0.00 0.00 2.27 1.81 0.00 0.00 1.57	1.04 0.25 0.50 0.75 0.46 0.25 0.50 2.88 1.55 0.25 0.50 2.71 1.60 0.00 0.00 0.00	5.54 19.50 7.14 16.25 3.11 14.00 3.37 9.94 4.81 13.00 2.94 11.57 2.30 17.00 9.90 11.14	0.71 5.00 0.82 4.00 0.53 3.75 0.50 3.50 0.53 4.25 0.50 4.00 0.58 4.50 0.71 3.57	Image: Constraint of the sector of	Image: Section of the sectio		

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		TRIAL RESULTS - 2010										
		OPERATIVE EXTENSION										
GREENHOU	USE FACILITIES UTILIZ	ED AT: University of CA k	Cearney Research and Exte	nsion Center								
		LD SCREENING TRIALS WERE	PROVIDED BY:		Results from cooperative research w							
	ANIES and their repres	sentatives			University of CA Coop. Extension & U							
PLEASE NOT					Hutmacher, Wright, Ulloa, Keeley, B							
		corded as provided by seed c	ompanies		University of CA Kearney Research a							
		oorated, CA Cotton Alliance		SOURCE	UC Davis Plant Sci. Dept., UCCE Tula	re and kings Counties						
				SOURCE								
QUESTION	VS? CONTACT BOD HI	ıtmacher: rbhutmacher(wucuuvis.eau									
nlantina = fi	rst week of August, 2010	1		(0=no symptoms, 5 = dead plan	te							
	inoculation approximate			increasing index #'s (1 to 5) are								
	from inoculation to plant			of severity of plant foliar damage								
	was approximately 5 w			or root vascular staining - highe		plant						
# plant conto	ainers evaluated :			suggests higher level of disease		height (cm)						
	inoculated = 8 containe	ers /plants evaluated		average		(measured						
		ainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem					
			plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant					
			inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #					
			RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate					
			INOCULATED with Race 4 FOV = Inoc	Foliar	Root/Stom	inoculated plants,	more stunting					
			NOT INOCULATED	Symptoms	Root/Stem Vascular	indicates stunting)	assoc with disease)	<u>├</u>				
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes					
9	Phy-72		Inoc	0.14	1.14	14.64	4.29	this row = av	verage (show	n in bold)		
-				0.38	1.07	3.25					alics) - indica	tor of variability in data
9	Phy-72		Non	0.00	0.00	16.75	4.75	1	higher # for si	td deviation	n means dat	a is more variable
				0.00	0.00	3.30	0.50					
10	DP-09R555 B2R2		Inoc	0.00	1.00	10.88	3.25					
				0.00	0.76	2.75	0.46					
10	DP-09R555 B2R2		Non	0.50	0.00	9.75	3.00					
				0.58	0.00	3.86	0.82					<u> </u>
11	DP-09R619 B2R2		Inoc	1.00	2.00	8.13	2.75					
	2. 05h015 02h2		mot	0.93	0.76	2.03	0.71					
11	DP-09R619 B2R2		Non	0.00	0.00	11.25	3.00					
				0.00	0.00	2.22	0.00					
12	DP10-R030 B2R2		Inoc	0.50	1.63	8.13	3.13					
				1.07	0.74	2.47	0.83					
12	DP10-R030 B2R2		N	0.00	0.00							
			Non		0.00	12.75	3.50					
			NON	0.00	0.00	12.75 4.03	3.50 0.58					
12	DD 400051 2025			0.00	0.00	4.03	0.58					
13	DP-10R051 B2R2			0.00	0.00	4.03 10.25	0.58 3.38					
			Inoc	0.00 0.75 1.39	0.00 1.88 0.99	4.03 10.25 5.12	0.58 3.38 0.52					
13	DP-10R051 B2R2			0.00 0.75 1.39 0.00	0.00 1.88 0.99 0.00	4.03 10.25 5.12 10.00	0.58 3.38 0.52 2.75					
			Inoc	0.00 0.75 1.39	0.00 1.88 0.99	4.03 10.25 5.12	0.58 3.38 0.52					
			Inoc	0.00 0.75 1.39 0.00	0.00 1.88 0.99 0.00	4.03 10.25 5.12 10.00	0.58 3.38 0.52 2.75					
13	DP-10R051 B2R2		Inoc	0.00 0.75 1.39 0.00 0.00	0.00 1.88 0.99 0.00 0.00	4.03 10.25 5.12 10.00 2.71	0.58 3.38 0.52 2.75 0.50					
13 14	DP-10R051 B2R2		Inoc	0.00 0.75 1.39 0.00 0.00 0.38	0.00 1.88 0.99 0.00 0.00 1.00	4.03 10.25 5.12 10.00 2.71 10.25	0.58 3.38 0.52 2.75 0.50 3.13					
13	DP-10R051 B2R2		Inoc Non Inoc	0.00 0.75 1.39 0.00 0.00 0.00 0.38 0.74	0.00 1.88 0.99 0.00 0.00 1.00 0.76	4.03 10.25 5.12 10.00 2.71 10.25 3.88	0.58 3.38 0.52 2.75 0.50 3.13 0.64					
13 14 14	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2		Inoc Non Inoc Non	0.00 0.75 1.39 0.00 0.00 0.00 0.38 0.74 0.00 0.00	0.00 1.88 0.99 0.00 0.00 1.00 0.76 0.00 0.00 0.00	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45					
13 14	DP-10R051 B2R2		Inoc Non Inoc	0.00 0.75 1.39 0.00 0.00 0.00 0.38 0.74 0.00 0.00 0.00	0.00 1.88 0.99 0.00 0.00 1.00 0.76 0.00 0.00 1.00 1.00	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75					
13 14 14 15	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2 FM-1773 LLB2		Inoc Non Inoc Non Inoc	0.00 0.75 1.39 0.00 0.00 0.38 0.74 0.00 0.00 0.00 0.00 0.00	0.00 1.88 0.99 0.00 0.00 1.00 0.76 0.00 0.00 1.00 1.00 1.00 1.00	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46					
13 14 14	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2		Inoc Non Inoc Non	0.00 0.75 1.39 0.00 0.00 0.38 0.74 0.00 0.00 0.00 0.00 0.00 0.25	0.00 1.88 0.99 0.00 0.00 0.00 0.76 0.00 0.00 0.00 1.00 1.07 0.00	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30 9.75	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46 4.00					
13 14 14 15	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2 FM-1773 LLB2		Inoc Non Inoc Non Inoc	0.00 0.75 1.39 0.00 0.00 0.38 0.74 0.00 0.00 0.00 0.00 0.00	0.00 1.88 0.99 0.00 0.00 1.00 0.76 0.00 0.00 1.00 1.00 1.00 1.00	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46					
13 14 14 15 15	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2 FM-1773 LLB2 FM-1773 LLB2		Inoc Non Inoc Inoc Inoc Non	0.00 0.75 1.39 0.00 0.00 0.00 0.38 0.74 0.00 0.00 0.00 0.00 0.00 0.25 0.50	0.00 1.88 0.99 0.00 0.00 1.00 0.76 0.00 0.00 1.00 1.00 1.07 0.00 0.00	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30 9.75 2.06	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46 4.00 0.00					
13 14 14 15	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2 FM-1773 LLB2		Inoc Non Inoc Non Inoc	0.00 0.75 1.39 0.00 0.00 0.38 0.74 0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.50	0.00 1.88 0.99 0.00 0.00 0.00 0.76 0.00 0.00 1.00 1.00 1.07 0.00 0.00 0.00 1.25	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30 9.75 2.06 8.38	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46 4.00 0.00 3.63					
13 14 14 15 15 16	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2 FM-1773 LLB2 FM-1773 LLB2 FM-1773 LLB2		Inoc Non Inoc Non Inoc Non Inoc	0.00 0.75 1.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.50 0.53	0.00 1.88 0.99 0.00 0.00 1.00 0.00 0.00 1.00 1.00 1.07 0.00 0.00 1.25 0.71	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30 9.75 2.06 8.38 3.66	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46 4.00 0.00 3.63 0.52					
13 14 14 15 15	DP-10R051 B2R2 DP-10R052 B2R2 DP-10R052 B2R2 FM-1773 LLB2 FM-1773 LLB2		Inoc Non Inoc Inoc Inoc	0.00 0.75 1.39 0.00 0.00 0.38 0.74 0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.50	0.00 1.88 0.99 0.00 0.00 0.00 0.76 0.00 0.00 1.00 1.00 1.07 0.00 0.00 0.00 1.25	4.03 10.25 5.12 10.00 2.71 10.25 3.88 12.00 2.55 9.63 1.30 9.75 2.06 8.38	0.58 3.38 0.52 2.75 0.50 3.13 0.64 3.20 0.45 3.75 0.46 4.00 0.00 3.63					

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SUMMA	ARY OF SCREENING	TRIAL RESULTS - 201	0 <mark>GREENHOUSE EVALU</mark>	ATIONS							
		OPERATIVE EXTENSION	N, USDA-ARS, SEED COI	MPANIES							
			Kearney Research and Exte								-
GREENHU	JUSE FACILITIES UTILI	LED AT. University of CAT	Reality Research and Exte	ision center							-
								┫────			+
		LD SCREENING TRIALS WERE	PROVIDED BY:		Results from cooperative research						-
	IPANIES and their repre	esentatives			University of CA Coop. Extension 8						
PLEASE NC					Hutmacher, Wright, Ulloa, Keeley,						
		corded as provided by seed	companies		University of CA Kearney Research						
		porated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tul	are and Kings Counties					
			OUT ACKNOWLEDGEMENT O	F SOURCE							
QUESTIO	NS? Contact Bob H	utmacher: rbhutmacher	@ucdavis.edu								
planting = j	first week of August, 201	0		(0=no symptoms, 5 = dead pla	ints,						
	t inoculation approximat			increasing index #'s (1 to 5) are	e a relative indicator						
time period	from inoculation to plan	t evaluations		of severity of plant foliar dama	age/symptoms						
	was approximately 5 v	veeks		or root vascular staining - high	ner index # for these ratings	plant					
# plant cont	tainers evaluated :			suggests higher level of diseas	se symptoms & injury	height (cm)					
	inoculated = 8 contain	ers /plants evaluated		average		(measured					
		tainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem				
			plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant				1
			inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #				1
			RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate				1
			INOCULATED with			inoculated plants,	more stunting				1
			Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)				1
			NOT INOCULATED	Symptoms	Vascular						1
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes				1
			1					1			<u> </u>
17	FM-1740 B2F		Inoc	0.13	1.00	10.00	3.63	this row = average (sho	wn in bold)		1
				0.35	0.76	1.77	0.52	this row = std deviation		tor of varial	hility in data
17	FM-1740 B2F		Non	0.25	0.00	10.25	3.75		std deviation means date		
				0.50	0.00	2.50	0.50	ingliel in joi	sta activation means add		
				0.50	0.00	2.50	0.50				-
18	FM-9160 B2F		Inoc	0.50	1.25	8.63	3.50				
10	111-5100 021		moc	0.53	0.71	2.67	0.53	<u> </u>			+
18	FM-9160 B2F		Non	0.00	0.00	12.00	4.00	<u> </u>			+
10	FINI-3100 B2F		Non	0.00	0.00	4.83	0.00				
				0.00	0.00	4.00	0.00	<u> </u>			+
19	FM-9170 B2F		Inoc	0.63	1.38	9.31	3.38				+
13	1101-3170 DZF		Inoc	0.52	0.74	2.02	0.52	<u> </u>			+
10	EN4 0170 D25		Non								+
19	FM-9170 B2F		Non	0.50	0.00	5.50	3.25	<u> </u>			+
			+	0.58	0.00	2.65	0.50	<u> </u>			+
20	CT 4300 535	1	1		1			1 1		1	+
20	ST-4288 B2F					c ==	2.00				
			Inoc	0.50	1.75	9.75	3.38				-
				0.53	0.46	2.92	0.74				
20	ST-4288 B2F		Inoc	0.53 0.25	0.46 0.25	2.92 8.00	0.74 3.75				-
20				0.53	0.46	2.92	0.74				
	ST-4288 B2F		Non	0.53 0.25 0.50	0.46 0.25 0.50	2.92 8.00 2.00	0.74 3.75 0.50				
20 21				0.53 0.25 0.50 0.50	0.46 0.25 0.50 1.38	2.92 8.00 2.00 9.25	0.74 3.75 0.50 3.38				
21	ST-4288 B2F		Non	0.53 0.25 0.50 0.50 0.76	0.46 0.25 0.50 1.38 0.52	2.92 8.00 2.00 9.25 3.37	0.74 3.75 0.50 3.38 0.74				
	ST-4288 B2F		Non	0.53 0.25 0.50 0.50 0.76 0.00	0.46 0.25 0.50 1.38 0.52 0.25	2.92 8.00 2.00 9.25 3.37 10.75	0.74 3.75 0.50 3.38 0.74 3.50				
21	ST-4288 B2F		Non	0.53 0.25 0.50 0.50 0.76	0.46 0.25 0.50 1.38 0.52	2.92 8.00 2.00 9.25 3.37	0.74 3.75 0.50 3.38 0.74				
21	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F		Non	0.53 0.25 0.50 0.50 0.76 0.00	0.46 0.25 0.50 1.38 0.52 0.25	2.92 8.00 2.00 9.25 3.37 10.75	0.74 3.75 0.50 3.38 0.74 3.50				
21	ST-4288 B2F		Non	0.53 0.25 0.50 0.50 0.76 0.00	0.46 0.25 0.50 1.38 0.52 0.25	2.92 8.00 2.00 9.25 3.37 10.75	0.74 3.75 0.50 3.38 0.74 3.50				
21 21	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F		Non Inoc Non	0.53 0.25 0.50 0.50 0.76 0.00 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.50	2.92 8.00 2.00 9.25 3.37 10.75 2.36	0.74 3.75 0.50 3.38 0.74 3.50 0.58				
21 21	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F		Non Inoc Non	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50				
21 21 22	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F		Non Inoc Non Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63 0.74	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53				
21 21 22	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F		Non Inoc Non Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.25 0.50 1.63 0.74 0.00	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25				
21 21 22	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F		Non Inoc Non Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.25 0.50 1.63 0.74 0.00	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25				
21 21 22 22 22	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F		Non Inoc Non Inoc Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63 0.74 0.00 0.00	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50				
21 21 22 22 22 23	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1030 B2F		Non Inoc Non Inoc Non Inoc Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.25 0.71 0.00 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.25 0.50 1.63 0.74 0.00 0.00 1.50 0.76	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52				
21 21 22 22 22	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F		Non Inoc Non Inoc Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.25 0.71 0.00 0.00 0.25 0.71 0.00 0.00 0.25	0.46 0.25 0.50 1.38 0.52 0.25 0.25 0.50 1.63 0.74 0.00 0.00 1.50 0.76 0.50	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69 11.00	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52 3.50				
21 21 22 22 22 23	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1030 B2F		Non Inoc Non Inoc Non Inoc Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.25 0.71 0.00 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.25 0.50 1.63 0.74 0.00 0.00 1.50 0.76	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52				
21 21 22 22 23 23	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1030 B2F BCSX-1030 B2F		Non Inoc Non Inoc Inoc Inoc Non Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.00 0.38 0.74 0.25 0.50	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63 0.74 0.00 0.00 0.00 1.50 0.76 0.50 0.58	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69 11.00 2.16	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52 3.50 0.52 3.50 0.58				
21 21 22 22 22 23	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1030 B2F		Non Inoc Non Inoc Non Inoc Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.25 0.71 0.00 0.00 0.25 0.71 0.25 0.71 0.50	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63 0.74 0.00 0.00 1.50 0.76 0.50 0.58 0.88	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69 11.00 2.16 9.63	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52 3.50 0.52 3.50 0.58 3.38 0.52 3.38 0.52 3.13				
21 21 22 22 23 23 24	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1030 B2F BCSX-1030 B2F Phy-367 WRF		Non	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63 0.74 0.00 0.00 1.50 0.76 0.76 0.58 0.88 0.83	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69 11.00 2.16 9.63 2.39	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52 3.50 0.52 3.50 0.58 3.38 0.52 3.38 0.52 3.50 0.58				
21 21 22 22 23 23	ST-4288 B2F BCSX-1010 B2F BCSX-1010 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1020 B2F BCSX-1030 B2F BCSX-1030 B2F		Non Inoc Non Inoc Inoc Inoc Non Inoc	0.53 0.25 0.50 0.50 0.76 0.00 0.00 0.25 0.71 0.00 0.00 0.00 0.25 0.71 0.00 0.00 0.25 0.71 0.25 0.71 0.50	0.46 0.25 0.50 1.38 0.52 0.25 0.50 1.63 0.74 0.00 0.00 1.50 0.76 0.50 0.58 0.88	2.92 8.00 2.00 9.25 3.37 10.75 2.36 10.75 2.55 12.25 6.65 10.00 1.69 11.00 2.16 9.63	0.74 3.75 0.50 3.38 0.74 3.50 0.58 3.50 0.53 3.25 0.50 3.38 0.52 3.50 0.52 3.50 0.58 3.38 0.52 3.38 0.52 3.13				

UNIV. OF C		G TRIAL RESULTS - 2010									
UNIV. OF C			GREENHOUSE EVALU	ATIONS			page 4 of 9		Í Í		
								+ +	[!		+
JREENHOUS		OPERATIVE EXTENSION						├	├─── └	I	4
	SE FACILITIES UTILI	ZED AT: University of CA K	earney Research and Exte	nsion Center	_				 	<u> </u>	<u> </u>
									ļ	L	-
		ELD SCREENING TRIALS WERE I	PROVIDED BY:		Results from cooperative research					I	
	NIES and their repre	esentatives			University of CA Coop. Extension 8				ļ'	L	-
PLEASE NOTE:					Hutmacher, Wright, Ulloa, Keeley,				└─── └	I	4
		ecorded as provided by seed co	ompanies		University of CA Kearney Research				ļ'	L	
		porated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tu	lare and Kings Counties				L	
NFORMATION	N IS NOT FOR REPR	ODUCTION or RELEASE WITHO	UT ACKNOWLEDGEMENT O	F SOURCE						L	
QUESTIONS	5? Contact Bob H	utmacher: rbhutmacher@	Ducdavis.edu						1	1	
lanting = first	t week of August, 201	0		(0=no symptoms, 5 = dead plan	nts,					<u> </u>	
	oculation approximat			increasing index #'s (1 to 5) are						<u> </u>	
ime period fror	m inoculation to plan	t evaluations		of severity of plant foliar dama	ige/symptoms					1	
	was approximately 5			or root vascular staining - high		plant				1	1
# plant containe	ers evaluated :			suggests higher level of disease	e symptoms & injury	height (cm)				<u> </u>	
		ers /plants evaluated		average		(measured				<u> </u>	
n	not inoculated = 4 con	tainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem				
			plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant			1	1
			inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #			1	1
			RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate			1	1
			INOCULATED with			inoculated plants,	more stunting			1	1
			Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)			<u> </u>	
			NOT INOCULATED	Symptoms	Vascular					<u> </u>	
Entry # V	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes			1	
										1	
25 P	Phy-375 WRF		Inoc	0.25	1.00	10.19	3.75	this row = average (sho	wn in bold)	1	1
		1		0.46	0.76	1.93	0.46		(shown in italics) - indica	tor of variat	bility in data
25 P	Phy-375 WRF		Non	0.25	0.00	11.50	3.75		std deviation means date		
		1		0.50	0.00	5.26	0.50			1	
										í	T
26 P	Phy-499 WRF		Inoc	0.25	1.38	11.50	3.75			í	T
	,			0.46	1.06	2.98	0.46			1	1
26 P	Phy-499 WRF		Non	0.00	0.00	15.50	4.00			í	1
				0.00	0.00	2.08	0.00			1	1
		1						1 1		1	1
27 P	Phy-830	1	Inoc	3.13	3.38	11.00	2.63			1	1
				1.13	0.74	2.00	0.52		i	1	1
27 P	Phy-830	1	Non	0.00	0.50	13.00	4.00			1	1
— †	,	1		0.00	0.58	4.00	0.82	1 1			1
		1		5.00	0.50			1 1			1
28 H	HA-211		Inoc	0.13	0.75	13.88	3.63	<u> </u>			+
-			inoc	0.35	0.71	2.36	0.52	<u> </u>	[]		+
28 H	HA-211		Non	0.00	0.00	15.00	4.00	<u> </u>	· · · · · · · · · · · · · · · · · · ·		+
.u H	18-211		INOLI	0.00	0.00	2.16	0.00	<u> </u>			+
				0.00	0.00	2.10	0.00	<u> </u>			+
29 H	HA-222		Inoc	0.00	0.88	13.63	3.63	<u> </u>			+
.э H	NA-222		moc				0.52	<u> </u>			+
			Non	0.00	0.83	2.45		<u> </u>			+
29 H	HA-222		Non	0.00	0.00	14.50 3.79	3.75 0.50	<u> </u>			+
				0.00	0.00	3.79	0.50	<u> </u>			+
	DCC 1		Inco	2.29	3.50	14.25	4.12	<u> </u>			+
30 B	BCS-1		Inoc	2.38	2.50	14.25	4.13	<u>↓ </u>	⊢−−−− ′	<u> </u>	
				1.60	0.93	2.31	0.35	<u>↓ </u>	⊢−−−− ′	<u> </u>	
30 B	BCS-1		Non	0.00	0.00	19.00	4.75	<u>├</u> ───	└─── └	I	+
				0.00	0.00	4.55	0.50		└─── └	I	+
			-						└────	I	+
81 B	BCS-2		Inoc	3.75	4.00	9.75	3.13	<u> </u>	└─── └	 	4
				1.67	1.31	1.28	0.64	<u> </u>	 	I	+
31 B	BCS-2		Non	0.00	0.00	14.00	4.50		ļ'	L	-
				0.00	0.00	3.56	1.00		ļ'	L	-
		[ļ'	L	<u> </u>
				0.00	0.88	19.06	4.00		ı 1 '	1	1
32 B	BCS-3		Inoc								
				0.00	0.83	3.10	0.00				
	BCS-3 BCS-3		Non			3.10 18.75 2.63	0.00 4.00 1.41				

2/11/2011							page 5 of 9				
		G TRIAL RESULTS - 2010	GREENHOUSE EVALU	ATIONS			1.0				
		OPERATIVE EXTENSION									
					L			+			
GREENHO	USE FACILITIES UTIL	IZED AT: University of CA k	earney Research and Exte	nsion Center	_						
		ELD SCREENING TRIALS WERE	PROVIDED BY:		Results from cooperative research	work done by:					
SEED COMP	PANIES and their repr	esentatives			University of CA Coop. Extension &	USDA-ARS, WICS-Shafter					
PLEASE NO	DTE:				Hutmacher, Wright, Ulloa, Keeley,						
Variety nan	mes / numbers were r	ecorded as provided by seed o	ompanies		University of CA Kearney Research	and Extension Center					
* with supp	port from Cotton Inco	rporated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tu	lare and Kings Counties					
INFORMATI	ION IS NOT FOR REPR	ODUCTION or RELEASE WITHO	OUT ACKNOWLEDGEMENT O	F SOURCE							
QUESTIO	NS? Contact Bob F	lutmacher: rbhutmacher(@ucdavis.edu								
nlantina = fi	first week of August, 201	10		(0=no symptoms, 5 = dead pla	ints.						
	t inoculation approxima			increasing index #'s (1 to 5) and							
	from inoculation to plan			of severity of plant foliar dama							
	was approximately 5			or root vascular staining - high		plant					
# plant conto	ainers evaluated :			suggests higher level of diseas		height (cm)					
		ners /plants evaluated		average	,,,,,,,,,,,	(measured					
		ntainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem				1
		plants craitated	plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant				
			inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #				
		1	RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate				-
		1	INOCULATED with	vascalar symptoms	stani rating	inoculated plants,	more stunting				-
	1	1	Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)				1
	1	1	NOT INOCULATED	Symptoms	Vascular	maleuces stanting,	sssee with discuse)				1
Entry #	Variety Name	1	= Non	Index	Staining Index	Plant Height (cm)	# of nodes				-
			-	index	Staning mack	i iane rieigne (eni)		┥───			
33	BCS-4		Inoc	1.13	1.38	13.69	3.50	this row - average (she	wn in hold)		
33	DC3-4		Inoc	1.13	1.51		0.53	this row = average (sho this row = std deviation		tor of varial	hilitu in data
22	DCC 4		New	0.00	0.00	4.06					
33	BCS-4		Non	0.00	0.00	15.80 4.21	4.20 0.45	nigner # for	std deviation means dat	a is more va	riable
				0.00	0.00	4.21	0.45				
34	BCS-5		Inoc	0.00	1.38	13.31	3.75				
-				0.00	0.92	3.22	0.46				
34	BCS-5		Non	0.00	0.00	19.75	4.75				
				0.00	0.00	4.99	0.96				
_											
35	BCS-6		Inoc	0.13	1.00	13.63	4.13				
				0.35	0.93	3.74	0.35				
35	BCS-6		Non	0.00	0.00	14.75	4.50				
				0.00	0.00	2.22	0.58				
36	BCS-7		Inoc	0.25	0.88	13.94	3.50				
				0.71	0.83	3.28	0.53				
36	BCS-7		Non	0.00	0.00	12.75	3.50				
				0.00	0.00	1.71	0.58				
37	BCS-8		Inoc	0.00	0.38	13.13	3.38				1
				0.00	0.52	3.09	0.52				
37	BCS-8		Non	0.00	0.00	15.50	4.25				
				0.00	0.00	4.36	0.50			1	1
										1	1
38	Phy-725 RF	1	Inoc	0.38	1.38	12.88	4.00				1
				0.52	1.06	2.75	0.00				1
38	Phy-725 RF		Non	0.00	0.00	16.50	4.25				1
				0.00	0.00	3.11	0.50				1
				0.00	0.00	5.11	0.50				
	1		Inoc	0.00	1.50	14.63	4.00				
39	Phy10-FOV01	+	mou	0.00	0.53	3.46	0.53	+			
39	Phy10-FOV01		1		0.00			+			
			N =		0.00	17.50	4.50				
39 39	Phy10-FOV01 Phy10-FOV01		Non	0.00		ممع					
			Non	0.00 0.00	0.00	1.00	0.58				
39	Phy10-FOV01			0.00	0.00						
		- - - - - - - - -	Non Inoc	0.00	0.00	15.50	4.25				
39 40	Phy10-FOV01 Phy10-FOV02		Inoc	0.00 0.63 1.41	0.00 1.13 1.25	15.50 3.59	4.25 0.46				
39	Phy10-FOV01			0.00	0.00	15.50	4.25				

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2/11/2011							page 6 of 9	<u> </u>			
		G TRIAL RESULTS - 2010						<u> </u>			
		OPERATIVE EXTENSION									
GREENHC	OUSE FACILITIES UTIL	ZED AT: University of CA	Kearney Research and Exte	nsion Center							
		ELD SCREENING TRIALS WERE	PROVIDED BY:		Results from cooperative research						
	IPANIES and their repr	esentatives			University of CA Coop. Extension 8						
PLEASE NC					Hutmacher, Wright, Ulloa, Keeley,						
		ecorded as provided by seed of	companies		University of CA Kearney Research						
		porated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tul	are and Kings Counties					
		DDUCTION or RELEASE WITH		F SOURCE							
QUESTIO	NS? Contact Bob H	utmacher: rbhutmacher	@ucdavis.edu								
				-							
	first week of August, 201			(0=no symptoms, 5 = dead pla							
	t inoculation approximat			increasing index #'s (1 to 5) ar							
time perioa	from inoculation to plan			of severity of plant foliar dama		plant					
# plant co	was approximately 5	VCCAJ		or root vascular staining - high				<u> </u>	<u> </u>		-
# pluit cont	tainers evaluated :	ers Inlants evaluated		suggests higher level of diseas average		height (cm) (measured		<u> </u>			+
	inoculated = 8 contair	tainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem	+ +			1
		camers / promis evolutieu	plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant				1
	1		inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #	<u> </u>			1
			RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate				
			INOCULATED with			inoculated plants,	more stunting				1
			Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)				
			NOT INOCULATED	Symptoms	Vascular						
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes				
41	Phy10-FOV03		Inoc	2.63	3.00	11.75	3.25	this row = average (sho			
				1.60	1.20	2.92	0.89	this row = std deviation			
41	Phy10-FOV03		Non	0.00	0.25	18.75	4.50	higher # for	std deviation means date	a is more va	riable
				0.00	0.50	2.06	0.58				
42	Phy10-FOV04		Inoc	2.25	2.88	10.50	3.63	<u> </u>			
				1.91	1.25	4.07	0.74				
42	Phy10-FOV04		Non	0.00	0.00	18.75	4.75	↓			
				0.00	0.00	3.59	0.96	L			
42	Physics Cover		les est	0.00	0.00	10.75	2.02	<u> </u>			
43	Phy10-FOV05		Inoc	0.00	0.88	13.75 1.83	3.63 0.52	<u> </u>			-
43	Phy10-FOV05	+	Non	0.00	0.99	24.00	5.00	<u> </u>			+
	PHY10-PUV05	+	Non	0.00	0.25	7.35	0.82	<u> </u>			+
	-			0.00	0.50	7.33	0.02	+ +			1
44	Phy10-FOV06		Inoc	0.00	0.75			1			
						17.25	4,00	1 1			
44						17.25 3.41	4.00 0.53				
	Phy10-FOV06			0.00	0.46	3.41	0.53				
	Phy10-FOV06		Non	0.00 0.00	0.46 0.00	3.41 23.75	0.53 5.00				
	Phy10-FOV06			0.00	0.46	3.41	0.53				
45	Phy10-FOV06 Phy10-FOV07			0.00 0.00	0.46 0.00	3.41 23.75	0.53 5.00				
			Non	0.00 0.00 0.00	0.46 0.00 0.00	3.41 23.75 4.27	0.53 5.00 0.00				
			Non	0.00 0.00 0.00 0.00	0.46 0.00 0.00 0.63	3.41 23.75 4.27 16.44	0.53 5.00 0.00 4.00				
45	Phy10-FOV07		Non	0.00 0.00 0.00 0.00 0.00	0.46 0.00 0.00 0.63 1.19	3.41 23.75 4.27 16.44 2.87	0.53 5.00 0.00 4.00 0.76				
45	Phy10-FOV07		Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.46 0.00 0.00 0.63 1.19 0.00	3.41 23.75 4.27 16.44 2.87 19.25	0.53 5.00 0.00 4.00 0.76 5.00				
45	Phy10-FOV07		Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.46 0.00 0.00 0.63 1.19 0.00	3.41 23.75 4.27 16.44 2.87 19.25	0.53 5.00 0.00 4.00 0.76 5.00				
45 45 46	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08		Non Inoc Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.63 1.19 0.00 0.00 0.38 0.52	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71				
45 45	Phy10-FOV07 Phy10-FOV07		Non Inoc Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.25	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75				
45 45 46	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08		Non Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.63 1.19 0.00 0.00 0.38 0.52	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71				
45 45 46 46	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08		Non Inoc Non Inoc Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.25 0.50	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96				
45 45 46	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08		Non Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.25 0.25 0.50	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75				
45 45 46 46 47	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08 Phy10-FOV08 Phy10-FOV09		Non Inoc Non Inoc Inoc Inoc Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.52 0.55 0.50 0.50 0.50 0.76	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46				
45 45 46 46	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08		Non Inoc Non Inoc Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.00 0.00 0.38 0.52 0.25 0.50 0.50 0.50 0.76 0.25	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38 18.75	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46 4.75				
45 45 46 46 47	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08 Phy10-FOV08 Phy10-FOV09		Non Inoc Non Inoc Inoc Inoc Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.52 0.55 0.50 0.50 0.50 0.76	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46				
45 45 46 46 47 47	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08 Phy10-FOV09 Phy10-FOV09		Non Inoc Non Inoc Inoc Inoc Inoc Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.38 0.52 0.25 0.50 0.50 0.50	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38 18.75 2.75	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46 4.75 0.50				
45 45 46 46 47	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08 Phy10-FOV08 Phy10-FOV09		Non Inoc Non Inoc Inoc Inoc Inoc	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.52 0.50 0.50 0.50 0.50 0.76 0.25 0.50 0.76 0.75	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38 18.75 2.75 12.88	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46 4.75 0.50 3.88				
45 45 46 46 47 47 47 48	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08 Phy10-FOV08 Phy10-FOV09 Phy10-FOV09 Phy10-FOV09 Phy10-FOV10		Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.38 0.52 0.52 0.50 0.50 0.50 0.75 0.75 0.46	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38 18.75 2.75 12.88 2.50	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46 4.75 0.50 3.88 0.35				
45 45 46 46 47 47	Phy10-FOV07 Phy10-FOV07 Phy10-FOV08 Phy10-FOV08 Phy10-FOV09 Phy10-FOV09		Non Inoc Non Inoc Inoc Inoc Inoc Non	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.46 0.00 0.00 0.63 1.19 0.00 0.00 0.00 0.38 0.52 0.52 0.50 0.50 0.50 0.50 0.76 0.25 0.50 0.76 0.75	3.41 23.75 4.27 16.44 2.87 19.25 3.95 16.00 4.96 19.25 6.70 14.25 3.38 18.75 2.75 12.88	0.53 5.00 0.00 4.00 0.76 5.00 0.82 3.75 0.71 4.75 0.96 3.75 0.46 4.75 0.50 3.88				

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		TRIAL RESULTS - 201	GREENHOUSE EVALU	ATIONS							
		OPERATIVE EXTENSION						1			1
GREENHO	USE FACILITIES UTIL	ZED AT: University of CA	ceurney Research and Exte	ision center							-
		ELD SCREENING TRIALS WERE	PROVIDED BY:		Results from cooperative research						
	PANIES and their repr	esentatives			University of CA Coop. Extension 8						
PLEASE NO					Hutmacher, Wright, Ulloa, Keeley,						
		ecorded as provided by seed of	companies		University of CA Kearney Research						
* with supp	port from Cotton Incor	porated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tul	lare and Kings Counties					
INFORMAT	TION IS NOT FOR REPR	ODUCTION or RELEASE WITH	OUT ACKNOWLEDGEMENT O	SOURCE							
QUESTIO	NS? Contact Bob H	utmacher: rbhutmacher	@ucdavis.edu								
plantina = f	first week of August, 201	0		(0=no symptoms, 5 = dead pla	ants.						
	t inoculation approximat			increasing index #'s (1 to 5) ar							
	from inoculation to plan			of severity of plant foliar dam							
	was approximately 5			or root vascular staining - high		plant					
# plant cont	tainers evaluated :			suggests higher level of diseas		height (cm)					
# plant com	inoculated = 8 contair	ers /plants evaluated		average	se symptoms a mjary	(measured					
		tainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem	<u> </u>			-
		camera y pranta evaluatea	plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant	+			1
	-		inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #	+ +			
								<u> </u>			+
			RACE 4 Fusarium INOCULATED with	vascular symptoms	stain rating	plants than for non- inoculated plants,	may indicate more stunting	<u> </u>			+
	-		Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)	+ +			
	-		NOT INOCULATED	Symptoms	Vascular	mulcales stuffing)	assoc with disease)	+ +			
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes	<u> </u>			
EIIU y #	variety Name		- 1011	lildex	Stairing index	Plaint Height (CIII)	# OF HOURS	<u> </u>			
			· .								
49	Phy10-FOV11		Inoc	0.00	0.63	15.06	4.13	this row = average (sho			
				0.00	0.52	5.38	0.35	this row = std deviation			
49	Phy10-FOV11		Non	0.00	0.00	12.75	4.25	higher # for	std deviation means date	a is more vai	riable
				0.00	0.00	2.50	0.50				
50	Phy10-FOV12		Inoc	0.25	1.00	14.52	3.75				
				0.71	0.76	3.07	0.46				
50	Phy10-FOV12		Non	0.00	0.00	18.50	4.75				
				0.00	0.00	4.80	0.96				
51	Phy10-FOV13		Inoc	0.00	0.86	13.64	3.57				1
				0.00	0.38	3.51	0.53				
51	Phy10-FOV13	1	Non	0.00	0.00	19.25	4.25				1
				0.00	0.00	7.68	0.96				1
											1
52	Phy10-FOV14	1	Inoc	0.00	0.75	13.19	3.63				1
		1		0.00	0.71	2.05	0.52				1
52	Phy10-FOV14	1	Non					+ + +			1
~					0.00	16.25	5,00				1
			NOT	0.00	0.00	16.25 2.63	5.00 0.82				
				0.00	0.00	16.25 2.63	5.00 0.82				
52	Phy10-EOV1E			0.00	0.00	2.63	0.82				
53	Phy10-FOV15		Inoc	0.00	0.00	2.63 15.44	0.82 4.25				
			Inoc	0.00 0.00 0.00	0.00 0.63 0.52	2.63 15.44 2.91	0.82 4.25 0.71				
53 53	Phy10-FOV15 Phy10-FOV15			0.00 0.00 0.00 0.00	0.00 0.63 0.52 0.50	2.63 15.44 2.91 21.50	0.82 4.25 0.71 4.50				
			Inoc	0.00 0.00 0.00	0.00 0.63 0.52	2.63 15.44 2.91	0.82 4.25 0.71				
53	Phy10-FOV15		Inoc	0.00 0.00 0.00 0.00 0.00	0.00 0.63 0.52 0.50 0.58	2.63 15.44 2.91 21.50 6.61	0.82 4.25 0.71 4.50 0.58				
			Inoc	0.00 0.00 0.00 0.00 0.00 4.63	0.00 0.63 0.52 0.50 0.58 4.63	2.63 15.44 2.91 21.50 6.61 9.50	0.82 4.25 0.71 4.50 0.58 3.13				
53	Phy10-FOV15		Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52	0.00 0.63 0.52 0.50 0.58 	2.63 15.44 2.91 21.50 6.61 9.50 1.71	0.82 4.25 0.71 4.50 0.58 3.13 0.35				
53	Phy10-FOV15		Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00	0.00 0.63 0.52 0.50 0.58 	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25				
53	Phy10-FOV15		Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52	0.00 0.63 0.52 0.50 0.58 	2.63 15.44 2.91 21.50 6.61 9.50 1.71	0.82 4.25 0.71 4.50 0.58 3.13 0.35				
53 54 54	Phy10-FOV15 DP-744 DP-744		Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96				
53	Phy10-FOV15		Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 0.00 1.50	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 2.38	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25				
53 54 54	Phy10-FOV15 DP-744 DP-744		Inoc Non Inoc Non	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96				
53 54 54 55	Phy10-FOV15 DP-744 DP-744 DP-744 DP-340		Inoc Non Inoc Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 2.38	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32 10.94 1.32	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71				
53 54 54	Phy10-FOV15 DP-744 DP-744		Inoc Non Inoc Non	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07 0.00	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 2.38 0.00 2.38 0.74 0.00	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32 10.94 1.32 15.00	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71 4.50				
53 54 54 55	Phy10-FOV15 DP-744 DP-744 DP-744 DP-340		Inoc Non Inoc Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07	0.00 0.63 0.52 0.50 0.58 	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32 10.94 1.32	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71				
53 54 54 55 55 55	Phy10-FOV15 DP-744 DP-744 DP-340 DP-340		Inoc Non Inoc Inoc Inoc Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07 0.00 0.00	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 2.38 0.74 0.00 0.00	2.63 15.44 2.91 21.50 6.61 9.50 1.71 1.725 5.32 10.94 1.32 1.500 4.08	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71 4.50 0.58				
53 54 54 55	Phy10-FOV15 DP-744 DP-744 DP-744 DP-340		Inoc Non Inoc Inoc Non Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07 0.00 0.00 0.00 0.13	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 0.00 2.38 0.74 0.00 0.00 0.00 1.50	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32 10.94 1.32 15.00 4.08 9.38	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71 4.50 0.58 3.75 0.71 4.50 0.58				
53 54 55 55 55 56	Phy10-FOV15 DP-744 DP-744 DP-744 DP-340 DP-340 DP-340 DP-340		Inoc Non Inoc Inoc Inoc Inoc Inoc Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07 0.00 0.00 0.00 0.13 0.35	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 0.00 2.38 0.74 0.00 0.00 1.50 0.93	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32 10.94 1.32 1.32 15.00 4.08 9.38 1.06	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71 4.50 0.58 3.50 0.53				
53 54 54 55 55 55	Phy10-FOV15 DP-744 DP-744 DP-340 DP-340		Inoc Non Inoc Inoc Inoc Inoc	0.00 0.00 0.00 0.00 0.00 4.63 0.52 0.00 0.00 1.50 1.07 0.00 0.00 0.00 0.13	0.00 0.63 0.52 0.50 0.58 4.63 0.52 0.00 0.00 0.00 2.38 0.74 0.00 0.00 0.00 1.50	2.63 15.44 2.91 21.50 6.61 9.50 1.71 17.25 5.32 10.94 1.32 15.00 4.08 9.38	0.82 4.25 0.71 4.50 0.58 3.13 0.35 4.25 0.96 3.75 0.71 4.50 0.58 3.75 0.71 4.50 0.58				

2/11/2011	L						page 8 of 9			
SUMMA	ARY OF SCREENING	TRIAL RESULTS - 2010	GREENHOUSE EVALU	IATIONS						
-		PERATIVE EXTENSION								
GREENHC	JUSE FACILITIES UTILIZ	ED AT: University of CA K	euniey kesearch and Exte	ansion Center				-		
		LD SCREENING TRIALS WERE I	PROVIDED BY:		Results from cooperative research					
	IPANIES and their repres	sentatives			University of CA Coop. Extension 8					
PLEASE NC	DTE:				Hutmacher, Wright, Ulloa, Keeley,	Banuelos, Delgado				
Variety na	mes / numbers were rec	corded as provided by seed co	ompanies		University of CA Kearney Research	and Extension Center				
* with sup	port from Cotton Incorp	orated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tul	are and Kings Counties				
INFORMAT	TION IS NOT FOR REPRO	DUCTION or RELEASE WITHO	UT ACKNOWLEDGEMENT O	F SOURCE						
OUFSTIO	DNS? Contact Bob Hu	ıtmacher: rbhutmacher@	Ducdavis.edu							
alantina - I	first week of August, 2010			(0=no symptoms, 5 = dead pla	anto					
	it inoculation approximatel			increasing index #'s (1 to 5) ar				-		
time perioa	from inoculation to plant			of severity of plant foliar dam						
	was approximately 5 w	eeks		or root vascular staining - high		plant				
# plant cont	tainers evaluated :			suggests higher level of diseas	se symptoms & injury	height (cm)				
L	inoculated = 8 containe			average		(measured				
	not inoculated = 4 cont	ainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem			
			plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant			
			inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #			
			RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate			
			INOCULATED with			inoculated plants,	more stunting			
			Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)			
			NOT INOCULATED	Symptoms	Vascular					
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes			
57	P07X-8213 RF	(aka "Phy-805 RF")	Inoc	1.22	1.67	11.33	3.44	this row = a	average (shown in bold)	
57	1077 0215 10		inoc	1.72	1.33	2.29	0.53			alics) - indicator of variability in data
57	P07X-8213 RF		Non	0.00	0.00	15.75	4.00			n means data is more variable
57	FU/A-0213 KF		NOT						nigher # jor sta deviatio	in means data is more variable
L				0.00	0.00	6.18	0.00			
		() Hel								<u>├───</u>
58	P07X-8212 RF	(aka "Phy-802 RF")	Inoc	0.00	0.50	14.88	4.13			
-				0.00	0.53	4.19	0.83			
58	P07X-8212 RF		Non	0.00	0.25	16.25	4.75			
				0.00	0.50	4.72	0.96			
59	P07X-8244 RF	(aka "Phy-804 RF")	Inoc	1.13	1.38	11.69	3.88			
			· · · · · · · · · · · · · · · · · · ·	2.10	2.00	4.23	0.64			
59	P07X-8244 RF		Non	0.25	0.00	14.75	4.00			
				0.50	0.00	6.08	0.82			
60	S-7		Inoc	2.13	2.88	11.81	4.25			
				1.64	0.99	2.58	0.46			
60	S-7		Non	0.00	0.00	18.50	4.75	1		
00	3-1		NUTI							
				0.00	0.00	7.59	0.96			
C 4	DD 444						2.00			
61	DP-444		Inoc	0.25	1.25	9.94	3.88			
-				0.46	0.71	1.47	0.35			
61	DP-444		Non	0.00	0.00	13.50	4.00			
				0.00	0.00	3.70	0.00			
62	E-108		Inoc	1.63	2.13	11.56	3.38			
			· · · · · · · · · · · · · · · · · · ·	1.92	1.89	1.12	0.74			
62	E-108		Non	0.00	0.00	13.20	3.80			
				0.00	0.00	2.95	0.45			
63	ST-4498 B2RF		Inoc	0.13	0.88	8.56	3.63			
1				0.35	1.13	1.35	0.52	1		
63	ST-4498 B2RF		Non	0.00	0.00	9.50	3.50			
55	31-4430 D2RF		NUII			2.89		+		
				0.00	0.00	2.89	0.58			
CA	DD 000000 0000						2.02			
64	DP-09R619 B2R2		Inoc	0.13	1.00	7.44	2.63			
				0.35	0.93	1.78	0.52			
64	DP-09R619 B2R2		Non	0.00	0.00	13.75	3.25			
1 -				0.00	0.00	1.50	0.50			

	I						page 9 of 9	+ + +			
SUMMAR	RY OF SCREENING	TRIAL RESULTS - 2010	0 GREENHOUSE EVALU	ATIONS							
UNIV. OF	CALIFORNIA COO	DERATIVE EXTENSION	, USDA-ARS, SEED CON	/IPANIES							1
			Kearney Research and Exter								1
											1
ENTRIES IN F	EUSARIUM RACE 4 FIF	LD SCREENING TRIALS WERE	PROVIDED BY:	1	Results from cooperative research	work done by:					
	ANIES and their repre				University of CA Coop. Extension &						
PLEASE NOT					Hutmacher, Wright, Ulloa, Keeley,				1		
		corded as provided by seed o	companies		University of CA Kearney Research			1 1	1		1
		orated, CA Cotton Alliance			UC Davis Plant Sci. Dept., UCCE Tu						
			OUT ACKNOWLEDGEMENT OF	SOURCE							
		ıtmacher: rbhutmacher									
402011011			eucuunsicuu								
planting - fir	st week of August, 2010			(0=no symptoms, 5 = dead pla	ints						
	noculation approximate			increasing index #'s (1 to 5) ar							
	rom inoculation to plant			of severity of plant foliar dama							
	was approximately 5 w		1	or root vascular staining - high		plant			1		
ļ	iners evaluated :			suggests higher level of diseas		height (cm)			1		
	inoculated = 8 containe	ers /plants evaluated		average		(measured					
		ainers / plants evaluated	Grouping of	average foliar	average	on final	# main stem				1
		••	plants in terms of	symptoms on plants	root /stem	evaluation date)	nodes on plant				1
[inoculation with	also rated for	vascular	(if shorter for inoculated	(lower #				1
			RACE 4 Fusarium	vascular symptoms	stain rating	plants than for non-	may indicate				1
			INOCULATED with			inoculated plants,	more stunting				
			Race 4 FOV = Inoc	Foliar	Root/Stem	indicates stunting)	assoc with disease)				
			NOT INOCULATED	Symptoms	Vascular						
Entry #	Variety Name		= Non	Index	Staining Index	Plant Height (cm)	# of nodes				
65	DP-09R549		Inoc	0.00	0.75	7.63	3.25	this row = average (show			
L				0.00	1.16	2.07	0.46	this row = std deviation (-	-
65	DP-09R549		Non	0.00	0.00	11.00	3.00	higher # for s	std deviation means dat	a is more va	riable
L				0.00	0.00	3.46	0.00				
L											
66	DP-09R615 B2R2		Inoc	0.13	0.50	8.00	2.88				
L				0.35	0.76	1.96	0.64				
66	DP-09R615 B2R2		Non	0.00	0.00	9.00	2.75				
L				0.00	0.00	2.94	0.96				
			· · · · · · · · · · · · · · · · · · ·								
67	DP-09555 B2R2		Inoc	0.25	0.75	8.13	2.88				l
				0.71	1.04	0.99	0.35	+ $+$ $+$			
67	DP-09555 B2R2		Non	0.33	0.00	9.33	3.33				
 	+		-	0.58	0.00	3.51	0.58	+ $+$ $+$			
<u></u>						0.50	2.00	+ $+$ $+$			
68	DP-09R999 B2R2		Inoc	0.50	1.13	8.56	3.00	+ $+$ $+$			
<u></u>	DD 000000 0000			1.07	1.25	1.55	0.53	+ + +			
68	DP-09R999 B2R2		Non	0.25	0.00	13.50	3.50	+ + +			
				0.50	0.00	7.55	0.58				
69	FM-9160 B2F		less	0.00	0.38	7.88	3.63				
09	LINI-2100 R5F		Inoc			7.88					
t					0.53	1 70				1	1
<u> </u>	FM 0160 P2F		Non	0.00	0.52	1.73	0.52				
69	FM-9160 B2F		Non	0.00	0.00	11.00	4.00				
69	FM-9160 B2F		Non								
				0.00 0.00	0.00	11.00 4.97	4.00 0.00				
	FM-9160 B2F		Non	0.00 0.00 0.88	0.00 0.00 1.38	11.00 4.97 8.44	4.00 0.00 2.88				
70	DP-09R605 B2R2		Inoc	0.00 0.00 0.88 1.36	0.00 0.00 1.38 1.69	11.00 4.97 8.44 3.04	4.00 0.00 2.88 0.83				
70				0.00 0.00 0.88 1.36 0.00	0.00 0.00 1.38 1.69 0.00	11.00 4.97 8.44 3.04 13.25	4.00 0.00 2.88 0.83 3.75				
70	DP-09R605 B2R2		Inoc	0.00 0.00 0.88 1.36	0.00 0.00 1.38 1.69	11.00 4.97 8.44 3.04	4.00 0.00 2.88 0.83				
70	DP-09R605 B2R2 DP-09R605 B2R2		Inoc Non	0.00 0.00 0.88 1.36 0.00 0.00	0.00 0.00 1.38 1.69 0.00 0.00	11.00 4.97 8.44 3.04 13.25 6.08	4.00 0.00 2.88 0.83 3.75 0.50				
70	DP-09R605 B2R2		Inoc	0.00 0.00 0.88 1.36 0.00 0.00 0.25	0.00 0.00 1.38 1.69 0.00 0.00 0.00	11.00 4.97 8.44 3.04 13.25 6.08 7.81	4.00 0.00 2.88 0.83 3.75 0.50 2.75				
70 70 71	DP-09R605 B2R2 DP-09R605 B2R2 DP-09R605 B2R2		Inoc Non Inoc	0.00 0.00 0.88 1.36 0.00 0.00 0.25 0.71	0.00 0.00 1.38 1.69 0.00 0.00 0.00 0.88 1.36	11.00 4.97 8.44 3.04 13.25 6.08 7.81 2.49	4.00 0.00 2.88 0.83 3.75 0.50 2.75 0.46				
70 70 71	DP-09R605 B2R2 DP-09R605 B2R2		Inoc Non	0.00 0.00 0.88 1.36 0.00 0.00 0.25 0.71 0.00	0.00 0.00 1.38 1.69 0.00 0.00 0.00 0.88 1.36 0.00	11.00 4.97 8.44 3.04 13.25 6.08 7.81 2.49 12.75	4.00 0.00 2.88 0.83 3.75 0.50 2.75 0.46 3.75				
70 70 71	DP-09R605 B2R2 DP-09R605 B2R2 DP-09R605 B2R2		Inoc Non Inoc	0.00 0.00 0.88 1.36 0.00 0.00 0.25 0.71	0.00 0.00 1.38 1.69 0.00 0.00 0.00 0.88 1.36	11.00 4.97 8.44 3.04 13.25 6.08 7.81 2.49	4.00 0.00 2.88 0.83 3.75 0.50 2.75 0.46				
70 70 71 71	DP-09R605 B2R2 DP-09R605 B2R2 DP-09R627 B2R2 DP-09R627 B2R2		Inoc Non Inoc Non	0.00 0.00 1.36 0.00 0.00 0.00 0.25 0.71 0.00 0.00	0.00 0.00 1.38 1.69 0.00 0.00 0.88 1.36 0.00 0.00	11.00 4.97 8.44 3.04 13.25 6.08 7.81 2.49 12.75 2.75	4.00 0.00 2.88 0.83 3.75 0.50 2.75 0.46 3.75 0.50				
70 70 71 71	DP-09R605 B2R2 DP-09R605 B2R2 DP-09R605 B2R2		Inoc Non Inoc	0.00 0.00 0.88 1.36 0.00 0.00 0.00 0.25 0.71 0.00 0.00 0.00	0.00 0.00 1.38 1.69 0.00 0.00 0.88 1.36 0.00 0.00 0.00 0.38	11.00 4.97 8.44 3.04 13.25 6.08 7.81 2.49 12.75 2.75 6.50	4.00 0.00 2.88 0.83 3.75 0.50 2.75 0.46 3.75 0.50 2.75				
70 70 71 71 72	DP-09R605 B2R2 DP-09R605 B2R2 DP-09R627 B2R2 DP-09R627 B2R2		Inoc Non Inoc Non	0.00 0.00 1.36 0.00 0.00 0.00 0.25 0.71 0.00 0.00	0.00 0.00 1.38 1.69 0.00 0.00 0.00 0.88 1.36 0.00 0.00	11.00 4.97 8.44 3.04 13.25 6.08 7.81 2.49 12.75 2.75	4.00 0.00 2.88 0.83 3.75 0.50 2.75 0.46 3.75 0.50				