

University of California - Cooperative Extension
final - 2015 data set evaluations

Updated: 2/2017 (rbh)

Fusarium Race 4 Screening - Averages and Standard Deviations

TIPTON field site - Tulare County (natural FOV-4 infestation) - severe

 Contact (for questions): Bob Hutmacher (cell: (559) 260-8957)
 e-mail: rbhutmacher@ucdavis.edu

for foliar and vascular staining ratings: 0 = no damage; 5 = most severe damage (often nearly-dead or dead plants)

 Individual plant foliar damage ratings scale: 0 and 5 as defined above; 1=yellow and necrotic areas on 1-2 plants (limited) and/or limited stunting;
 2=multiple plants with foliar yellowing/necrosis symptoms; 3=over half of plants in plot with moderate symptoms and stunting; 4 = severe
 foliar damage and stunting most plants

 Root vascular stain ratings scale: 0 and 5 as defined above; 1=limited tap root vascular staining (light); 2= moderately dark staining in mid-vascular core;
 3= darker staining with stains across 1/2-2/3 core cross-section; 4= darker stain across >2/3 core cross-section, lighter stain across most of core

Univ. California Cooperative Extension Commercial entry/RBTN program/Seed Company Experimentals Fusarium Race 4 Screenings - 2015 - Tipton area (Tulare County) - Contact: Hutmacher, R.B. (cell:559-260-8957)

ID		2015 Tipton Field Fov4 Disease										2015 Tipton Field Vigor		2015 Tipton Field Stand		
Cultivar / Entry name	Seed Company or Breeder (or entry in RBTN regional public breeder trial)	Entry number (UC trial)	TYPE OF COTTON (u=upland; p=pima)	TYPE OF COTTON	Whole Plot, full plant disease rating	Individual Plant Foliar Disease Rating (Std Error)		Root Vascular Stain Rating (Mean)	Root Vascular Stain Rating (Std Error)	Stem Cotyledon vascular stain rating	Plant Main stem height (in)	# Main Stem Nodes	1st Live Plant Stand Count per plot	% Survival (emerged)	Final Live Stand	FINAL Plant Survival (as percent of emerged)
						Mean	Std Error									
PHY-725RF	Phytogen	6001	u	u	2.33	1.07	0.294	2.47	0.17	1.47	20	15	28	73%	20	50.4
PHY-7064WRF	Phytogen	6002	u	u	2.00	1.13	0.301	2.47	0.17	1.20	22	15	34	96%	32	92.4
FM-1900GLT	Bayer	6003	u	u	2.33	1.33	0.345	2.47	0.20	0.73	19	16	31	74%	24	58.7
FM-1830GLT	Bayer	6004	u	u	2.00	0.80	0.252	2.00	0.23	0.47	25	16	28	82%	25	73.3
FM-2007GLT	Bayer	6005	u	u	1.67	1.07	0.276	2.47	0.22	0.87	24	16	38	91%	31	75.2
FM-2334GLT	Bayer	6006	u	u	2.00	1.67	0.360	1.67	0.24	0.60	24	15	37	90%	31	77.0
DAYTONA RF	Bayer	6007	u	u	2.00	0.80	0.289	2.40	0.14	0.73	24	16	31	89%	24	71.6
DP-1553B2XF	Monsanto	6008	u	u	2.00	1.67	0.360	1.87	0.17	0.47	25	13	29	78%	29	77.9
DP-1137B2RF	Monsanto	6009	u	u	2.00	2.00	0.267	2.27	0.16	0.80	26	14	37	91%	31	76.2
DP-744	Monsanto	6010	p	p	3.50	1.00	0.000	2.67	0.41	0.67	13	15	2	32%	1	15.0
PHY-805RF	Phytogen	6011	p	p	2.00	1.33	0.330	1.80	0.29	0.73	21	15	24	56%	19	45.3
PX-8431RF-CB	Phytogen	6012	p	p	1.00	0.33	0.218	1.13	0.20	0.07	22	15	38	92%	26	62.6
PX8188RF-HB	Phytogen	6013	p	p	0.67	0.40	0.169	1.27	0.19	0.20	26	16	36	83%	34	78.0
PHY-811RF	Phytogen	6014	p	p	0.00	0.27	0.213	1.40	0.20	0.33	26	16	33	79%	31	75.6
DP-348RF	Monsanto	6015	p	p	0.67	0.27	0.159	1.00	0.14	0.13	27	16	35	82%	30	71.1
DP-358RF	Monsanto	6016	p	p	0.67	0.67	0.261	0.73	0.12	0.07	26	16	35	88%	32	80.2
PHY-802RF	Phytogen	6017	p	p	1.33	0.73	0.294	1.20	0.15	0.00	25	16	35	83%	35	82.0
DP-340	Monsanto	6018	p	p	2.33	1.80	0.323	2.60	0.14	1.20	15	14	23	72%	17	53.6
BX 1532GLT	Bayer	6019	u	u	2.33	1.73	0.357	1.93	0.19	0.53	24	15	39	94%	33	78.4

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Cultivar / Entry name	Seed Company or Breeder (or entry in RBTN regional public breeder trial)	Entry number (UC trial)	TYPE OF COTTON (u=upland; p=pima)	TYPE OF COTTON	Whole Plot, full plant disease rating	Individual Plant Foliar Disease Rating (Mean)	Individual Plant Foliar Disease Rating (Std Error)	Root Vascular Stain Rating (Mean)	Root Vascular Stain Rating (Std Error)	Stem Cotyledon site vascular stain rating	Plant Main stem height (in)	# Main Stem Nodes	1st Live Plant Stand Count per plot	% Survival (emerged)	Final Live Stand	FINAL Plant Survival (as percent of emerged)
					Mean	Mean	Std Error	Mean	Std Error	Mean	Mean	Mean	Mean	Mean	Mean	Mean
BX 1630GLT	Bayer	6020	u	u	2.00	1.33	0.314	2.53	0.14	1.20	23	15	40	90%	32	71.4
BX 1633GLT	Bayer	6021	u	u	2.00	1.47	0.348	2.73	0.12	1.33	22	14	32	80%	27	66.7
BX 1634GLT	Bayer	6022	u	u	2.00	1.67	0.297	2.40	0.14	1.20	23	16	31	80%	25	64.4
BX 1635GLT	Bayer	6023	u	u	1.33	0.53	0.223	1.27	0.21	0.13	22	15	32	86%	29	76.8
BX 1636GLT	Bayer	6024	u	u	1.00	0.73	0.276	1.53	0.17	0.60	22	16	37	90%	34	82.3
BX 1637GLT	Bayer	6025	u	u	2.33	1.27	0.311	2.27	0.19	0.13	20	15	27	74%	23	62.4
BX 1638GLT	Bayer	6026	u	u	2.00	2.73	0.122	2.27	0.19	1.00	21	14	32	74%	26	59.7
MON 15R551 B2XF	Monsanto	6027	u	u	1.33	1.27	0.327	2.07	0.07	1.00	26	15	37	89%	32	77.4
MON 14R934 B2XF	Monsanto	6028	u	u	2.00	1.33	0.261	1.93	0.24	1.00	25	14	36	96%	34	92.0
MON 15R513 B2XF	Monsanto	6029	u	u	2.00	2.13	0.317	2.33	0.13	1.07	26	15	40	95%	35	83.3
MON 15R515 B2XF	Monsanto	6030	u	u?	1.33	1.67	0.387	2.00	0.25	1.00	23	14	30	81%	29	80.0
DP 1553 B2XF	Monsanto	6031	u	u	2.00	1.67	0.297	2.67	0.13	0.60	25	16	38	88%	31	73.2
DP 1518 B2X	Monsanto	6032	u	u	2.00	1.67	0.345	2.47	0.20	1.00	24	15	45	98%	30	65.2
DP 1522 B2XF	Monsanto	6033	u	u	2.00	2.07	0.257	2.00	0.17	0.93	25	16	44	91%	35	72.9
DP 1538 B2XF	Monsanto	6034	u	u	2.00	2.07	0.257	2.13	0.14	0.80	26	14	34	89%	29	74.8
CT 14515 B2RF	Alltex	6035	u	u	2.00	1.47	0.245	1.93	0.19	0.87	24	14	30	80%	24	62.3
CT 15444 B2XF	Alltex	6036	u	u	2.00	1.27	0.357	2.47	0.14	0.80	22	15	26	73%	21	61.0
CT 15425 B2XF	Alltex	6037	u	u	1.67	0.47	0.223	2.13	0.14	0.73	24	16	34	84%	27	67.8
Phy-499 WRF ?	Phytogen	6038	u	u	2.00	2.47	0.138	2.47	0.14	1.00	25	16	44	90%	37	75.9
OA-EXP. 5-6	Olvey	6039	p	p	1.33	0.47	0.223	1.47	0.14	0.20	26	15	35	86%	30	75.2
OA-EXP. 6-4	Olvey	6040	p	p	0.00	0.07	0.069	1.13	0.14	0.07	25	16	32	74%	31	71.5
OA-EXP. 3-7	Olvey	6041	p	p	1.33	0.87	0.283	1.20	0.11	0.00	25	16	35	87%	30	73.6
OA-EXP. 3-5	Olvey	6042			1.33	0.87	0.283	1.20	0.15	0.13	26	16	34	82%	31	74.4
OA-EXP. 4-28	Olvey	6043	uzbek	uzbek	2.00	0.73	0.236	1.53	0.17	0.13	27	15	29	70%	25	60.7

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					Mean	Mean	Std Error	Mean	Std Error	Mean	Mean	Mean	Mean	Mean	Mean	Mean
OA-EXP. 4-29	Olvey	6044	p/uzbek leaf	p/uzbek le:	1.67	1.00	0.335	2.07	0.12	0.80	22	16	33	75%	29	66.2
OA-EXP. 2-12	Olvey	6045	p/hybrid?	p/hybrid?	0.67	0.27	0.159	1.07	0.24	0.13	24	15	40	92%	37	84.0
OA-EXP. 4-11	Olvey	6046	p	p	1.67	1.07	0.236	0.60	0.14	0.13	26	17	36	85%	31	73.8
OA-EXP. 4-13	Olvey	6047	p	p	2.00	1.20	0.323	1.07	0.16	0.27	27	17	39	88%	35	78.2
OA-EXP. 4-19	Olvey	6048	p	p	1.00	0.80	0.323	0.93	0.19	0.13	26	16	38	88%	33	76.7
OA-EXP. 4-23	Olvey	6049	p	p	1.33	0.60	0.197	1.07	0.12	0.07	25	16	36	78%	33	74.1
OA-EXP. 5-22	Olvey	6050	p	p	2.00	1.20	0.230	1.07	0.12	0.20	24	15	31	77%	28	69.7
OA-EXP. 6-22	Olvey	6051	p	p	1.33	0.80	0.306	1.13	0.14	0.13	26	17	36	87%	33	80.6
OA-EXP. 7-9	Olvey	6052	p	p	2.00	0.80	0.230	1.00	0.00	0.07	25	16	37	88%	33	78.6
OA-EXP. 8-14	Olvey	6053	p	p	1.33	0.60	0.263	1.20	0.21	0.07	25	15	46	94%	42	86.9
OA-EXP. 4-5	Olvey	6054	p	p	0.67	0.33	0.130	0.87	0.14	0.20	26	15	38	87%	34	79.8
OA-1	Olvey	6055	u	u	1.67	0.80	0.323	1.67	0.19	0.73	27	17	36	87%	30	73.6
OA-2	Olvey	6056	u	u	2.33	1.60	0.316	2.67	0.13	1.13	20	14	41	91%	30	66.9
OA-3	Olvey	6057	u	u	3.00	1.53	0.265	2.47	0.17	1.33	19	14	23	64%	15	42.6
OA-4	Olvey	6058	u	u	2.33	1.40	0.282	2.33	0.19	0.73	22	16	33	79%	22	52.8
OA-5	Olvey	6059	u	u	1.33	0.60	0.282	2.00	0.14	0.60	27	16	36	90%	31	76.0
OA-6	Olvey	6060	u	u	2.00	1.07	0.311	1.93	0.12	0.67	27	17	39	90%	36	83.1
OA-7	Olvey	6061	u	u/hybrid	2.00	1.20	0.367	2.13	0.17	0.73	25	16	31	77%	27	68.6
OA-8	Olvey	6062	u	u	2.00	1.80	0.289	1.93	0.16	1.00	22	15	35	84%	28	67.5
OA-9	Olvey	6063	u	u	2.00	1.07	0.342	2.00	0.17	0.73	24	15	34	87%	29	75.9
OA-10	Olvey	6064	u	u	2.00	1.07	0.294	2.00	0.17	0.47	26	16	30	76%	22	55.5
OA-11	Olvey	6065	u	u	2.00	1.87	0.333	2.40	0.17	1.60	24	16	36	84%	28	66.1
OA-12	Olvey	6066	u	u?	2.50	2.07	0.257	2.53	0.17	1.47	20	15	28	71%	20	53.0
OA-13	Olvey	6067	u	u	2.00	1.47	0.362	2.20	0.21	1.40	25	16	28	81%	24	67.0

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					Mean	Mean	Std Error	Mean	Std Error	Mean	Mean	Mean	Mean	Mean	Mean	Mean
OA-14	Olvey	6068	u	u	2.33	0.93	0.294	2.47	0.14	1.20	22	15	34	83%	25	59.7
OA-15	Olvey	6069	p	p	1.33	0.60	0.282	1.13	0.14	0.20	26	16	38	94%	35	86.9
OA-16	Olvey	6070	p	p	1.00	0.40	0.169	1.27	0.16	0.00	26	17	26	70%	25	68.8
OA-17	Olvey	6071	u	u	2.00	1.33	0.330	2.13	0.09	0.87	25	16	33	84%	29	73.5
OA-18	Olvey	6072	u	u	1.33	0.80	0.306	2.13	0.09	0.53	26	16	34	88%	31	81.0
OA-19	Olvey	6073	u	u	1.33	1.07	0.342	1.73	0.26	0.60	27	16	40	89%	35	77.8
OA-20	Olvey	6074	u	u	2.00	1.40	0.332	1.93	0.21	0.80	24	15	41	95%	36	82.3
0043-28 -1	RBTN	6075	u	u	2.00	1.80	0.323	1.80	0.15	0.60	24	15	36	86%	32	78.2
0045-14 -5	RBTN	6076	u	u	2.00	1.60	0.375	2.07	0.19	1.07	29	16	39	88%	33	75.0
PD 07092	RBTN	6077	u	u	2.00	1.73	0.357	2.33	0.16	1.07	22	15	35	86%	29	70.5
PD 07116	RBTN	6078	u	u	2.00	1.80	0.306	2.33	0.19	1.00	23	15	26	88%	22	76.1
PD 07105	RBTN	6079	u - mostly d	u - mostly i	3.33	1.80	0.306	2.53	0.14	1.27	23	16	13	59%	10	42.6
PD 07040	RBTN	6080	u	u	1.67	0.67	0.297	2.20	0.23	1.13	26	17	13	72%	13	70.4
Ark 0711-2	RBTN	6081	u	u	2.00	1.00	0.335	1.80	0.21	0.60	27	17	33	89%	28	76.6
Ark 0705-46	RBTN	6082	u	u	2.00	1.40	0.347	2.07	0.16	1.00	25	16	33	90%	25	68.2
Ark 0712-9	RBTN	6083	u	u/hybrid?	2.00	1.07	0.311	1.87	0.20	0.80	24	16	27	85%	24	76.8
Ark 0701-17	RBTN	6084	okra	okra	2.00	2.27	0.294	2.27	0.24	1.40	22	15	31	84%	25	67.3
Ark 0707-33	RBTN	6085	u	u	2.00	2.20	0.207	2.33	0.13	0.80	22	16	34	86%	24	61.9
NM 13P1088	RBTN	6086	u	u	2.00	1.80	0.230	2.40	0.14	1.00	21	15	28	72%	24	62.8
NM 13W3017	RBTN	6087	u	u	2.00	1.13	0.317	2.13	0.20	0.93	23	15	34	84%	30	74.4
NM 13W3007	RBTN	6088	u	u?	2.33	1.80	0.306	2.40	0.17	1.27	23	14	30	78%	24	60.7
Acala 1517-08	RBTN	6089	u-mostly de	u	2.33	2.13	0.265	2.73	0.12	0.87	23	15	30	83%	19	52.8
GA 2010102	RBTN	6090	u	u	2.00	1.53	0.317	2.27	0.21	0.80	27	16	37	83%	33	74.6
GA 2011124	RBTN	6091	u	u	1.67	0.93	0.311	1.93	0.19	0.80	25	16	35	91%	28	72.2

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					Mean	Mean	Std Error	Mean	Std Error	Mean	Mean	Mean	Mean	Mean	Mean	Mean
GA 2011004	RBTN	6092	u	u	2.00	1.00	0.319	2.20	0.21	1.07	25	16	29	80%	24	66.4
LA12306010	RBTN	6093	u	u	2.00	2.33	0.218	2.47	0.20	0.47	25	16	29	77%	25	66.7
LA12306017	RBTN	6094	u	u	2.33	1.80	0.323	2.53	0.17	1.00	23	16	30	75%	22	56.3
LA12306028	RBTN	6095	u	u	2.00	1.33	0.314	2.13	0.20	1.07	24	15	34	85%	29	71.9
0042-3 -7	RBTN	6096	u	u	2.33	2.00	0.319	2.33	0.16	0.80	25	16	33	90%	27	72.1
0045-14 -8	RBTN	6097	u	u/hybrid?	2.00	2.20	0.271	2.27	0.12	1.33	22	14	35	86%	31	77.0
DP 393	RBTN	6098	u	u	2.00	0.93	0.294	2.07	0.16	0.53	25	15	35	83%	30	71.2
SG 105	RBTN	6099	u	u	2.00	1.20	0.306	2.20	0.15	0.53	24	15	36	86%	31	75.2
FM 958	RBTN	6100	u	u	2.00	1.93	0.294	2.33	0.13	0.60	20	17	35	87%	29	70.7
UA 222	RBTN	6101	u	u	2.00	1.20	0.338	2.13	0.17	0.80	23	15	27	76%	27	75.0
DP 491	RBTN	6102	u	u	2.33	1.47	0.362	2.67	0.13	1.67	23	16	33	82%	28	74.3
OA-1097C7 (Pima RF :Olvey		6103	p-mostly de	p-mostly d	3.33	2.07	0.311	2.53	0.14	0.67	13	13	20	45%	14	31.5
HA8704	Hazera	6104	hybrid?	hybrid?	2.00	1.27	0.311	1.93	0.12	0.47	27	15	42	85%	33	66.7
HA8749	Hazera	6105	p	hybrid	1.33	0.40	0.197	1.87	0.09	0.80	29	16	51	90%	38	68.0
HA4958	Hazera	6106	u	u	2.00	1.33	0.330	2.13	0.14	0.87	27	17	48	88%	39	71.6
HA4904	Hazera	6107	hybrid	p/hybrid	2.00	2.07	0.311	2.20	0.15	0.87	26	15	48	89%	37	67.9
HA4949	Hazera	6108	p	p/hybrid	2.00	1.20	0.323	1.87	0.17	0.73	28	17	47	88%	38	71.3
YD1162	Hazera	6109	u	u/hybrid	2.00	1.40	0.347	1.87	0.17	0.80	25	16	51	91%	41	72.9
YD641	Hazera	6110	p	p	2.00	1.33	0.330	1.80	0.15	0.93	27	15	38	78%	29	59.2
YD662	Hazera	6111	p/hybrid?	p/hybrid?	0.67	0.47	0.223	1.53	0.14	0.60	29	16	35	81%	31	72.3
YD1650	Hazera	6112	p hybrid	p/hybrid	1.67	0.73	0.276	1.80	0.18	0.87	27	16	22	78%	17	63.4
HA211	Hazera	6113	p	p/hybrid?	2.00	1.53	0.301	2.40	0.20	0.73	25	15	42	86%	33	67.6
HA690	Hazera	6114	u	u	2.00	1.33	0.314	1.80	0.23	0.60	28	16	41	87%	37	77.5
HA1437	Hazera	6115	p	p	1.33	1.13	0.317	1.27	0.19	0.47	29	17	38	82%	33	71.0

Univ. California Cooperative Extension Commercial entry/RBTN program/Seed Company Experimentals Fusarium Race 4 Screenings - 2015 - Tipton area (Tulare County) - Contact: Hutmacher, R.B. (cell:559-260-8957)

ID		2015 Tipton Field Fov4 Disease							2015 Tipton Field Vigor			2015 Tipton Field Stand			FINAL Plant Survival (as percent of emerged)	
Cultivar / Entry name	Seed Company or Breeder (or entry in RBTN regional public breeder trial)	Entry number (UC trial)	TYPE OF COTTON (u=upland; p=pima)	TYPE OF COTTON	Whole Plot, full plant disease rating	Individual Plant Foliar Disease Rating (Mean)	Individual Plant Foliar Disease Rating (Std Error)	Root Vascular Stain Rating (Mean)	Root Vascular Stain Rating (Std Error)	Stem Cotyledon site vascular stain rating	Plant Main stem height (in)	# Main Stem Nodes	1st Live Plant Stand Count per plot	% Survival (emerged)	Final Live Stand	FINAL Plant Survival (as percent of emerged)
					Mean	Mean	Std Error	Mean	Std Error	Mean	Mean	Mean	Mean	Mean	Mean	Mean
BX 1	Bayer	6116	u	u	2.00	2.47	0.223	2.73	0.12	0.93	24	16	37	83%	33	75.8
BX 2	Bayer	6117	u	u	2.00	1.33	0.261	2.27	0.16	1.40	22	15	39	87%	34	76.3
BX 3	Bayer	6118	u	u	2.00	2.20	0.252	2.67	0.16	1.20	19	14	34	82%	32	76.0
BX 4	Bayer	6119	u	u	2.33	1.67	0.360	2.47	0.17	1.07	21	15	30	77%	26	68.1
BX 5	Bayer	6120	u	u	2.00	2.13	0.199	2.33	0.13	1.20	23	15	41	94%	36	81.1
BX 6	Bayer	6121	u	u	2.00	1.93	0.294	2.33	0.22	0.80	24	15	40	89%	36	79.4
BX 7	Bayer	6122	u	p	2.00	1.47	0.333	1.73	0.21	0.53	26	16	35	87%	27	68.1
BX 8	Bayer	6123	u	u	2.00	1.47	0.301	2.27	0.12	1.07	22	15	34	91%	32	84.1
BX 9	Bayer	6124	u	u	2.00	1.33	0.330	2.13	0.14	0.73	28	16	31	85%	26	70.3
BX 10	Bayer	6125	u	u	2.67	2.00	0.303	2.53	0.14	1.20	22	15	19	58%	14	43.2
BX 11	Bayer	6126	u	u	2.00	1.13	0.333	2.20	0.15	1.13	25	15	37	89%	30	73.2
BX 12	Bayer	6127	u	u	2.00	2.27	0.213	2.40	0.14	0.93	25	16	37	86%	31	70.2
BX 13	Bayer	6128	u	u	2.00	2.47	0.171	2.27	0.16	1.00	22	15	34	83%	28	69.1
BX 14	Bayer	6129	u	u	2.00	2.07	0.294	2.07	0.16	1.07	24	15	37	88%	33	77.2
BX 15	Bayer	6130	u	u	2.00	1.93	0.257	2.13	0.14	1.13	24	15	34	80%	26	63.2
BX 16	Bayer	6131	u	u	2.00	1.07	0.311	1.87	0.17	0.67	27	14	41	95%	34	79.7
BX 17	Bayer	6132	u	u/hybrid	2.00	1.00	0.267	1.53	0.20	0.47	27	14	34	92%	30	82.6
BX 18	Bayer	6133	u	u	2.00	0.93	0.327	1.73	0.12	0.93	26	15	38	96%	33	83.1
BX 19	Bayer	6134	u	u	2.00	0.67	0.240	1.87	0.20	0.40	26	15	28	90%	28	88.3
BX 20	Bayer	6135	u	u	1.33	1.00	0.350	1.67	0.13	0.73	25	15	34	95%	30	81.7
BX 21	Bayer	6136	u	u	2.00	0.87	0.317	1.93	0.16	1.20	24	16	24	81%	22	73.9
BX 22	Bayer	6137	u	u	2.00	1.33	0.330	2.00	0.23	0.87	24	14	29	88%	23	72.2
BX 23	Bayer	6138	u	u	2.00	1.93	0.257	2.33	0.19	0.67	21	14	33	87%	29	76.1
BX 24	Bayer	6139	u	u	1.67	0.60	0.243	1.00	0.25	0.33	28	16	28	74%	26	67.5

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ID		2015 Tipton Field Fov4 Disease										2015 Tipton Field Vigor		2015 Tipton Field Stand		FINAL Plant Survival (as percent of emerged)
Cultivar / Entry name	Seed Company or Breeder (or entry in RBTN regional public breeder trial)	Entry number (UC trial)	TYPE OF COTTON (u=upland; p=pima)	TYPE OF COTTON	Whole Plot, full plant disease rating	Individual Plant Foliar Disease Rating (Mean)	Individual Plant Foliar Disease Rating (Std Error)	Root Vascular Stain Rating (Mean)	Root Vascular Stain Rating (Std Error)	Stem Cotyledon site vascular stain rating	Plant Main stem height (in)	# Main Stem Nodes	1st Live Plant Stand Count per plot	% Survival (emerged)	Final Live Stand	FINAL Plant Survival (as percent of emerged)
					Mean	Mean	Std Error	Mean	Std Error	Mean	Mean	Mean	Mean	Mean	Mean	Mean
BX 25	Bayer	6140	u	u	1.67	0.93	0.294	1.00	0.10	0.13	29	16	39	86%	36	78.1
BX 26	Bayer	6141	u	u	0.00	0.13	0.094	0.67	0.13	0.00	28	15	33	82%	32	78.5
BX 27	Bayer	6142	u	u/hybrid	1.33	0.60	0.197	0.47	0.14	0.00	29	16	31	76%	30	74.6
BX 28	Bayer	6143	u	u	2.00	1.33	0.240	1.87	0.17	0.80	24	15	36	88%	26	63.4
BX 29	Bayer	6144	u	u	2.00	1.33	0.330	2.00	0.23	0.73	24	15	35	79%	29	65.4
BX 30	Bayer	6145	u	u	1.33	0.60	0.221	0.33	0.13	0.00	27	15	36	83%	34	79.7
BX 31	Bayer	6146	u	u	1.33	0.53	0.199	0.67	0.19	0.13	29	16	36	91%	30	76.1
BX 32	Bayer	6147	u	u	2.00	1.13	0.283	2.33	0.16	0.67	25	16	33	85%	26	66.4
BX 33	Bayer	6148	u	u	1.67	0.47	0.199	0.67	0.13	0.07	29	17	38	92%	36	87.9
BX 34	Bayer	6149	u	u	0.67	0.60	0.169	0.47	0.14	0.27	29	16	33	89%	30	80.2
BX 35	Bayer	6150	u	u	2.00	1.87	0.265	1.73	0.26	0.47	20	13	33	85%	27	71.3
BX 36	Bayer	6151	u	p	1.67	0.67	0.240	0.60	0.17	0.00	28	16	30	74%	28	69.7
BX 37	Bayer	6152	u	u	0.67	0.33	0.165	0.40	0.14	0.00	31	17	40	91%	38	85.6
BX 38	Bayer	6153	u	u	0.67	0.20	0.111	0.40	0.14	0.00	27	16	37	85%	34	79.7
BX 39	Bayer	6154	u	u	0.67	0.33	0.165	0.67	0.19	0.00	26	15	30	74%	28	70.6