

Table 16. Evaluation of 2021 RBTN entries for reponse to *Fusarium oxysporum* f. sp. *vasinfectum* Race-4 (FOV-4) in a naturally infested field near Clint, Texas¹ (Cooperator: Jim Olvey).

Entry	Designation	FOV-4
		Plant Survival ² rating
—	DP 348RF Pima (FOV-4 High Tolerance CK)³	9
6	CSX5432	7
17	LA19073002	6
19	MS 2010-87-37	6
24	MS 2010-96-9	6
28	UA 222 CK	6
2	Ark 1311-18	5
3	Ark 1308-58	5
8	TAMLBB17206	5
10	OA-13	5
11	OA-133	5
12	GA 2015026	5
16	TAM 14E-12	5
20	MS 2010-87-42	5
21	MS 2010-87-5	5
26	DP 493 CK	5
27	FM 958 CK	5
7	TAMLBB16507	4
9	OA-11	4
13	GA 2016029	4
14	GA 2016090	4
15	TAM 14B-72	4
18	LA19073070	4
22	MS 2010-66-16	4
23	MS 2010-28-27	4
25	DP 393 CK	4
—	O&A-375 Pima (FOV-4 Moderate Tolerance CK)³	4
1	Ark 1301-16	3
4	Ark 1317-31	3
5	Ark 1309-56	2
—	DP 340 Pima (FOV-4 Low Tolerance CK)³	0
	Mean	4.6

¹ Located in the Rio Grande Valley area, field has a ten year history of FOV4 infestation. Plots, consisting of a single row, 20 feet in length, were planted on May 5, 2021.

² Following an initial stand count, subsequent stand counts were recorded at 30d and 60d after planting. Plant survival was calculated as (final stand count / initial stand count) x 100, and then assigned a plant survival rating based on the following ratings: 1= 0%, 2= 1-10%, 3= 21-30%, 4= 31-40%, 5= 41-50%, 6= 51-60%, 7= 61-70%, 8= 71-80%, 9= 81-90%, 10= 91-100%. Based upon response to FOV4 (severe stand loss), none of the RBTN entries qualified for a second year of screening.

³ Each entry was planted between two plots of susceptible check DP 340 (Pima). In addition, a moderately resistant check plot (Pima cultivar O&A-375), and a highly resistant check plot (Pima cultivar DP 348RF) was planted in the same row on either side of the entry. The susceptible check (DP 340) served to confirm adequate spore counts (dead plants) while the resistant cultivars were used for purposes of comparison.