

MEETING ANNOUNCEMENT!

SOUTH SACRAMENTO VALLEY PROCESSING TOMATO PRODUCTION MEETING

University of California Cooperative Extension Farm Advisors
Colusa/Sutter/Yuba and Yolo/Solano/Sacramento Counties



Woodland Community Center

2001 East Street, Woodland 95776

(From Highway 113, exit on CR 25A, head west to East Street.
Right turn on East St. for ~1 mile)

Tuesday, January 17, 2023

8am-12pm

Doors open at 7:45am

Topics include broomrape biology and management, groundwater recharge potential, update on variety evaluation, pesticide regulation updates, updates and management of beet curly top virus and resistance-breaking tomato spotted wilt virus, management and diagnostic updates for Fusarium diseases, and in-row cultivator updates.

Fusarium falciforme cultivar performance table

The table on the next page shows susceptibility and tolerance of multiple varieties to *Fusarium falciforme*. Some have been tested more thoroughly than others and the tables contain data from a variety of trials conducted in the Sacramento and San Joaquin Valleys. Special thanks to UCCE Advisor, Brenna Aegerter, for putting this table together.

Happy Holidays!

Amber Vinchesi-Vahl

Contact Information: 530-458-0575, or at acvinchesi@ucanr.edu

Tomato cultivar performance against *F. falciforme* 2022

Cassandra Swett, Brenna Aegerter, Tom Turini, Amber Vinchesi-Vahl, AgSeeds

Performance of selected cultivars in replicated field trials conducted from 2019 through 2021 in fields infested with *Fusarium falciforme* (three trials at UC Davis Plant Pathology farm, four trials in Fresno and San Joaquin commercial fields).

Cultivar	# of field trials	Normalized yield*	Normalized fruit damage levels ^y	Fruit damage average to very low	Normalized vine decline at harvest ^z	Tendency towards vine decline
HIGH PERFORMING						
H1776	3	1.26	0.54	very low fruit damage	0.96	average tendency towards vine decline
SV9016	3	1.16	0.52	very low fruit damage	0.82	more data needed
SV9019	2	1.15	0.61	very low fruit damage	0.54	more data needed
N6428	7	1.13	0.65	low fruit damage	0.87	less likely to decline prematurely
SV9025	3	1.13	0.39	very low fruit damage	0.95	more data needed
H5608	4	1.10	0.77	low fruit damage	0.44	more data needed
H8504	5	1.10	0.67	low fruit damage	0.80	less likely to decline prematurely
DRI0319	3	1.06	0.96	average damage	0.41	less likely to decline prematurely
N6434	3	1.05	0.73	low fruit damage	0.38	more data needed
HM58841	5	1.05	0.86	low fruit damage	1.04	average tendency towards vine decline
MEDIUM PERFORMING						
BQ273	2	1.04	1.65		0.24	more data needed
H1428	3	1.00	0.81	low fruit damage	0.89	more data needed
HM5235	4	1.00	1.39		0.90	less likely to decline prematurely
HM58801	5	0.97	1.16		0.96	average tendency towards vine decline
H1996	2	0.96	0.57	very low fruit damage	1.50	more data needed
BQ403	2	0.95	1.30		1.06	more data needed
HM4909	5	0.92	0.97	average damage	1.13	more likely to decline prematurely
SV9011	2	0.90	1.30		0.69	more data needed
H4707	2	0.90	0.56	very low fruit damage	0.95	more data needed
H1310	4	0.89	1.07		1.08	average tendency towards vine decline
H1662	2	0.88	0.43	very low fruit damage	0.98	more data needed
LOW PERFORMING						
HM5522	2	1.04	1.63		1.23	more data needed
BP13	2	1.02	1.65		1.32	more data needed
HM3887	7	0.88	1.35		1.33	more likely to decline prematurely
SV8011	3	0.86	1.07		1.37	more data needed
H9663	2	0.86	1.70		1.36	more likely to decline prematurely
AB0311	3	0.82	1.07	variable fruit damage	1.28	more data needed
N6416	2	0.77	1.30		1.30	more likely to decline prematurely
MORE DATA NEEDED (only a single trial)						
UG4014	1	1.09	0.79			
SV9012	1	1.00	1.23			

*Note that not all cultivars were represented in each trial.

x Yield is total fruit biomass, including culls. Normalized means relative to the average for a particular trial; 1.1 would indicate 10% higher than the trial average, 1.3 30% higher

y Fruit damage levels represents the proportion of harvested fruit that are damaged by sunburn, rot, limited use.

z Vine decline is based on a visual evaluation of the foliage at harvest – dead or dying plants are counted.