

and the plants were set on December 1. Nine applications of 4-4-50 rock-lime bordeaux were made during the season, the first on December 8 and the last on February 12. Fruits of the second picking were packed and shipped to Gainesville for readings on development of diseases, and samples of fruits of the fifth picking were stored in the ripening room at Homestead. Data obtained from these lots of fruit are also given in Table 1. It may be seen that the fruits of the fifth picking showed very little difference in percentage decay between sprayed and check plots. This is possibly due to the fact that all plants became infected with mosaic about the time of the first picking and they were almost dead at the time of the fifth picking.

TABLE 2.—CONTROL OF PHOMA ROT OF TOMATO FRUITS BY SPRAYING IN THE FIELD WITH BORDEAUX MIXTURE AT THE SUB-TROPICAL STATION PINELAND FARM, 1931-32, AS OBSERVED AFTER STORAGE AT HOMESTEAD, FLORIDA, OR SHIPMENT TO CHAMPAIGN, ILLINOIS, OR GAINESVILLE, FLORIDA.

Plot Treatment	Picking	Avg. Yield Marketable Fruit Pounds per Plot	Observation at	Fruits Total	Phoma Rot %	Other Diseases Percent
Sprayed.....	First	135	Homestead, Fla.	214	10	.5
Check.....	First	117	Homestead, Fla.	125	27	3
Sprayed.....	First		Champaign, Ill.*	1,320	11	0
Check.....	First		Champaign, Ill.	816	20	1
Sprayed.....	Second	125	Homestead, Fla.	261	12	0
Check.....	Second	100	Homestead, Fla.	294	22	0
Sprayed.....	Second		Gainesville, Fla.	293	7	0
Check.....	Second		Gainesville, Fla.	310	20	6
Sprayed.....	Third	112	Homestead, Fla.	313	28	5
Check.....	Third	83	Homestead, Fla.	271	40	14
Sprayed.....	Third		Gainesville, Fla.	350	32	1
Check.....	Third		Gainesville, Fla.	351	63	3
Sprayed.....	Fourth	283	Homestead, Fla.	667	16	6
Check.....	Fourth	150	Homestead, Fla.	624	33	25
Sprayed.....	Fourth		Gainesville, Fla.	352	25	0
Check.....	Fourth		Gainesville, Fla.	180	41	13
Sprayed.....	Fifth	163	Homestead, Fla.	1,034	34	4
Check.....	Fifth	33	Homestead, Fla.	150	36	5
Sprayed.....	Sixth	38	Homestead, Fla.
Check.....	Sixth	8	Homestead, Fla.

*Made by a representative of the Goulds Growers, Inc.