

TABLE XIV.—EFFECT OF DIFFERENT SEED TREATMENTS ON YIELD OF POTATOES IN FLORIDA IN 1929.

Treatments	Tubers* When Treated	Percent Stand	Relative Vigor	Percent Seed- Piece Decay	Percent Stem Lesions	Marketable Tubers				Primes Only			
						Yield† per Acre	Increase by Treating		Yield per Acre	Increase by Treating			
							Barrels	Barrels		Percent	Odds†	Barrels	Percent	Odds†
(PLOT 1) HASTINGS													
Clean—not treated.		100	95.4	0.0	5.0	65.1±2.11	-3.7±3.11	-5.4±4.5	139:1	49.5±2.35	-4.6±3.63	-8.5±6.7	1.63:1
Clean—corrosive sublimate.	W	100	97.4	0.0	3.3	67.2±2.43	-1.6±3.33	-2.3±4.8	0	52.8±2.23	-1.3±3.56	-2.4±6.6	....
Diseased—corrosive sublimate.	W	100	98.8	1.6	5.0	65.7±2.48	-3.1±3.37	-4.5±4.9	1:1	51.6±2.76	-2.5±3.91	-4.6±7.2	....
Formaldehyde, 1-120, 125°F.—3 min.	W	100	97.8	0.0	1.6	68.7±2.61	-0.1±3.47	-0.1±5.0	0	53.0±2.57	-1.1±3.78	-2.0±7.0	....
Dipdust, 1-20 dip.	C	73.3	79.2	83.3	1.6	40.7±2.14	-28.1±3.13	-40.8±4.5	**M:1	32.1±2.20	-22.0±3.54	-40.1±6.5	19,230:1
K-I-X, at 50 pounds per acre.		24.1	64.8	0.0	0.0	11.7±1.21	-57.1±2.58	-83.0±3.8	M:1	9.4±1.01	-44.7±2.95	-82.8±5.4	M:1
Diseased—untreated.		100	98.8	0.0	26.6	68.8±2.28	.....	.....	....	54.1±2.77	.....	.....	....
(PLOT 2) LA CROSSE													
Clean—not treated.		99.2	96.2	0.0	2.0	79.2±3.20	-1.9±4.33	-2.3±5.3	0	64.7±3.23	-1.5±4.60	-2.3±6.9	....
Clean—corrosive sublimate.	W	97.2	97.2	0.0	2.0	83.1±3.07	2.0±4.24	2.5±5.2	0	70.2±3.52	4.0±4.80	6.0±7.3	1:1
Diseased—corrosive sublimate.	W	99.0	98.0	0.0	2.0	82.7±5.24	1.6±6.00	2.0±7.4	0	67.8±5.63	1.6±6.51	2.4±9.8	....
Formaldehyde, 1-120, 125°F.—3 min.	W	99.0	97.8	0.0	9.0	85.8±4.93	4.7±5.73	5.8±7.1	1:1	69.1±5.19	2.9±6.13	4.4±9.3	....
Dipdust, 1-20, dip.	C	97.0	97.2	10.0	11.0	81.0±3.90	-0.1±4.87	-0.1±6.0	0	64.6±4.48	-1.6±5.55	-2.4±8.4	....
K-I-X, at 50 pounds per acre.		32.6	56.0	2.0	trace	20.4±1.49	-60.7±3.28	-74.8±4.0	M:1	17.0±1.26	-49.2±3.50	-74.3±5.3	M:1
Diseased—not treated.		98.2	97.5	0.0	18.0	81.1±2.92	.....	.....	....	66.2±3.27	.....	.....	....

*W = whole tubers treated; C = tubers treated after cutting.

**Million or more to one.

†Data calculated according to formula: $PE_m = \frac{.6745 \times \text{Standard deviation}}{\sqrt{\text{No. of items}}}$

‡Average of 10 replications.

$PE_d = \sqrt{a^2 + b^2}$ where a = PE of mean of treated lot and
b = PE of untreated diseased control.

Odds as listed in: Pearl, Raymond and John Rice Miner.—A table for estimating the probable significance of statistical constants. Maine Agr. Exp. Sta. Bul. 226: 85-88, 1914.