

Table 3.—Purple-straw Tuscan.

Treatment.	Treated.	Sown.	Date.	Percentage Germination.					Plants.		Heads.		Percentage Difference compared with Adjacent Controls.		Plants showing Loose Smut.		
				In Field.					Total.	Percentage smutted.	Total.	Percentage smutted.	Total Heads.	Sound Heads.			
				In Laboratory.	First Count.			Final Count (Mature Plants).									
					Percentage.	P.E. +	Mean Height.										
									Aug., 1924.								
Control	..	7	89.2	54.5	1.70	3.61	50.5	161	10	10.0	608	51	8.4	..	..	1
Copper carbonate No. 1	..	2	7	90.0	61.2	2.08	3.52	57.5	230	0	0	1,424	0	0	+ 8.8	+ 16.7	2
Control	..	7	89.2	57.5	1.18	3.57	53.5	107	5	4.6	700	34	4.9	..	..	0
Copper carbonate No. 2	..	2	7	87.0	59.7	1.12	3.60	57.0	228	0	0	1,319	0	0	- 0.8	+ 9.6	2
Control	..	7	89.2	53.0	1.73	3.39	46.5	93	15	16.3	630	91	14.4	..	..	3
Copper carbonate No. 3	..	2	7	84.0	58.8	1.52	3.26	49.5	198	0	0	1,261	0	0	+ 0.4	+ 11.7	3
Control	..	7	89.2	48.0	2.00	3.30	47.5	95	8	8.5	626	33	5.3	..	..	3
Bluestone, 1 lb. in 10 gals.	..	4	7	85.0	50.8	2.60	2.79	48.5	194	2	1.0	1,266	11	0.8	- 4.8	- 0.6	4
Control	..	7	89.2	60.5	1.79	3.16	55.0	170	6	5.6	704	31	4.4	..	..	3
Bluestone, 1 in 10, limed	..	4	7	86.5	52.2	1.96	2.97	52.2	209	2	1.0	1,319	15	1.1	- 8.5	- 4.8	4
Control	..	7	89.2	64.0	1.79	3.05	61.0	122	10	8.3	738	41	5.5	..	..	2
Bluestone, 1 lb. in 5 gals.	..	4	7	73.5	45.8	1.48	2.91	46.0	184	0	0	1,182	0	0	- 16.7	- 10.8	4
Control	..	7	89.2	53.5	1.66	3.36	53.0	106	11	10.4	682	54	7.9	..	..	1
Bluestone, 1 in 5, limed	..	4	7	77.5	52.2	1.32	3.13	52.7	211	0	0	1,326	0	0	- 2.1	+ 3.7	2
Control	..	7	89.2	49.0	2.26	3.23	51.0	102	4	4.2	672	21	3.1	..	..	6
Uspulun	..	4	7	82.0	72.8	1.84	3.46	68.5	274	0	0	1,478	0	0	+ 14.0	+ 18.6	3
Control	..	7	89.2	62.0	2.28	2.98	56.5	113	7	6.3	625	30	4.8	..	..	2
Germisan	..	4	7	86.0	64.2	2.28	3.45	61.7	247	0	0	1,512	0	0	+ 15.9	+ 23.1	4
Control	..	7	89.2	54.5	2.23	3.24	53.5	107	13	12.2	679	45	6.6	..	..	1
Semesan steep	..	4	7	87.0	64.5	1.92	2.97	61.5	246	0	0	1,438	0	0	+ 3.6	+ 8.5	3
Control	..	7	89.2	54.0	1.82	3.12	49.0	98	3	3.1	709	17	2.4	..	..	2
Hot water	..	1	7	82.0	35.2	1.72	2.88	34.7	139	3	2.1	1,155	13	1.1	- 23.0	- 19.2	0
Control	..	7	89.2	54.5	1.69	3.20	53.0	106	13	12.3	791	70	8.6	..	..	1
Formalin, 1 pt. in 40 gals.	..	4	5	81.0	18.0	1.68	2.53	38.7	75	0	0	776	0	0	- 54.6	- 45.8	0
Control	..	7	89.2	53.0	1.83	3.27	51.5	103	14	13.7	808	93	11.5	..	..	1
Formalin, 1 pt. in 60 gals.	..	4	5	81.5	29.0	1.84	2.80	28.2	114	0	0	1,062	0	0	- 28.3	- 21.3	1
Control	..	7	89.2	45.0	1.79	3.00	43.5	87	7	8.0	674	37	5.5	..	..	0
Formalin, 1 in 40, presoak	..	4	5	87.0	55.5	2.12	3.12	51.5	206	1	0.5	1,444	19	1.3	+ 9.4	+ 18.2	2
Control	..	7	89.2	46.5	1.75	3.11	45.0	90	16	18.0	646	77	11.9	..	..	1
Clarke's Wheat Protector	..	4	5	80.5	56.2	1.56	3.21	57.5	230	0	0	1,443	0	0	+ 3.7	+ 17.6	3
Control	..	7	89.2	57.0	1.82	3.16	54.0	108	14	13.2	745	84	11.2	..	..	2
Semesan dust	..	2	5	89.5	71.0	2.04	3.35	69.0	276	0	0	1,618	0	0	+ 15.1	+ 27.0	2
Control	..	7	89.2	61.0	..	3.35	58.0	116	13	11.6	661	48	7.2	..	..	4

Table 4.—Solid-straw Tuscan.

Control	..	7	98.8	94.5	1.04	4.28	91.5	183	80	43.7	861	270	31.3	..	..	..
Copper carbonate No. 1	..	2	7	98.7	92.2	0.88	4.11	91.5	366	4	1.1	1,708	9	0.5	- 0.1	+ 46.0	..
Control	..	7	98.8	93.5	0.94	3.96	87.5	175	85	48.5	849	272	32.0	..	..	..
Copper carbonate No. 2	..	2	7	99.7	92.0	0.96	3.94	89.0	356	1	0.3	1,683	3	0.2	- 1.8	+ 39.1	..
Control	..	7	98.8	94.5	0.92	4.02	92.0	184	80	43.5	866	233	26.9	..	..	..
Copper carbonate No. 3	..	2	7	98.8	93.0	0.60	4.01	88.2	353	3	0.8	1,735	12	0.6	+ 1.7	+ 41.3	..
Control	..	7	98.8	94.5	0.92	3.88	90.0	180	84	46.6	840	251	29.9	..	..	..
Bluestone, 1 lb. in 10 gals.	..	4	7	97.3	88.7	1.20	3.93	85.0	340	4	1.2	1,692	10	0.5	- 1.3	+ 47.4	..
Control	..	7	98.8	92.5	1.22	4.30	91.0	182	99	54.4	875	321	36.6	..	..	..
Bluestone, 1 in 10, limed	..	4	7	99.0	90.2	0.96	4.27	88.0	352	6	1.7	1,704	17	1.0	- 0.4	+ 56.3	..
Control	..	7	98.8	91.2	1.17	4.08	89.0	178	99	55.6	836	308	36.8	..	..	..
Bluestone, 1 lb. in 5 gals.	..	4	7	94.0	88.0	0.92	3.95	85.5	342	3	0.8	1,592	6	0.3	- 5.4	+ 54.1	..
Control	..	7	98.8	91.0	0.82	4.17	86.5	173	93	55.5	847	347	40.9	..	..	..
Bluestone, 1 in 5, limed	..	4	7	98.7	88.0	1.28	4.02	82.8	3	0.9	1,614	9	0.5	- 4.5	+ 50.7	..	
Control	..	7	98.8	95.5	0.62	4.27	93.5	187	82	43.9	843	288	34.1	..	..	..
Uspulun	..	4	7	98.7	97.7	0.60	4.38	92.2	369	0	0	1,640	0	0	- 0.4	+ 53.0	..
Control	..	7	98.8	96.0	0.71	4.09	91.0	182	92	50.5	804	294	36.5	..	..	..
Germisan	..	4	7	98.8	95.0	0.84	4.14	91.7	367	0	0	1,684	0	0	+ 3.8	+ 61.9	..
Control	..	7	98.8	97.0	0.97	4.16	94.0	188	94	50.0	834	301	36.1	..	..	..
Semesan steep	..	4	7	98.3	94.7	0.93	4.19	91.7	367	0	0	1,711	0	0	+ 4.3	+ 69.8	..
Control	..	7	98.8	92.5	1.06	4.03	88.0	176	96	54.5	806	327	40.5	..	..	..
Hot water	..	1	7	98.6	87.7	1.60	3.90	85.2	341	8	2.3	1,611	15	0.9	- 3.5	+ 41.4	..
Control	..	7	98.8	88.5	0.95	3.96	86.5	173	53	31.8	847	195	23.0	..	..	..
Formalin, 1 pt. in 40 gals.	..	4	5	98.0	67.5	2.08	3.24	63.2	253	1	0.4	1,456	2	0.1	- 13.3	+ 18.9	..
Control	..	7	98.8	90.0	0.71	3.76	85.5	171	78	45.6	833	261	31.3	..	..	..
Formalin, 1 pt. in 60 gals.	..	4	5	98.7	77.0	1.24	3.48	73.2	293	2	0.7	1,456	8	0.5	- 13.1	+ 26.8	..
Control	..	7	98.8	94.0	0.48	4.08	93.0	186	80	43.0	844	268	31.7	..	..	..
Formalin, 1 in 40, presoak	..	4	5	98.7	91.2	0.44	3.96	89.5	358	0	0	1,639	0	0	- 1.9	+ 42.8	..
Control	..	7	98.8	90.0	0.82	4.07	90.5	181	89	49.2	827	255	30.8	..	..	..
Clarke's Wheat Protector	..	4	5	97.3	90.5	1.60	4.14	87.2	349	2	0.5	1,631	4	0.2	+ 1.1	+ 42.3	..
Control	..	7	98.8	93.0	1.15	3.94	90.0	180	74	41.1	785	215	27.5	..	..	..
Semesan dust	..	2	5	99.3	95.0	0.83	4.11	89.7	359	0	0	1,641	0	0	+ 2.7	+ 36.2	..
Control	..	7	98.8	87.5	..	4.01	87.0	174	54	31.0	813	177	21.7	..	..	..

* Percentage calculated after deducting loose-smutted plants from total.