

Table 3. Root yield and sugar content of sugarbeets treated with fungicides for powdery mildew control at the Parma Research and Extension Center, Parma, Idaho, 2001.

TREATMENT	Root Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conduc-tivity (mmhos)	Extra-ction (%)	Recoverable Sugar		Increased Gr. Ret. ¹ (\$/A)
						(lbs/T)	(lbs/A)	
1. Untreated Check	40.79	16.67	13607	0.728	85.22	284.1	11598	-
2. Microthiol, 5.0 lbs./A ²	44.91	16.59	14904	0.724	85.24	283.0	12710	149
3. Microthiol, 10.0 lbs./A ²	43.98	16.82	14762	0.622	86.60	291.3	12778	142
4. BAS 500, 6.2 fl.oz./A	44.61	16.40	14624	0.721	85.24	279.8	12471	113
5. BAS 500, 6.2 fl.oz./A + NIS, 0.125% v/v	44.51	16.81	14955	0.729	85.23	286.5	12748	162
6. BAS 500, 6.2 fl.oz./A + COC, 0.125% v/v	45.04	16.02	14388	0.808	84.02	269.2	12090	79
7. BAS 500, 6.2 fl.oz./A + MSO, 0.125% v/v	44.40	17.02	15088	0.695	85.71	291.9	12931	185
8. BAS 500, 9.2 fl.oz./A + COC, 0.125% v/v	48.12	16.61	15981	0.719	85.32	283.4	13637	275
9. BAS 500, 12.3 fl.oz./A + COC, 0.125% v/v	44.04	16.62	14631	0.713	85.40	284.0	12496	119
10. BAS 500, 6.2 fl.oz./A + Microthiol, 1.0 lb./A ²	45.50	16.81	15305	0.706	85.53	287.6	13092	200
11. USF2004, 2.49 fl.oz./A	45.11	16.43	14819	0.727	85.18	280.0	12624	135
12. USF2004, 2.98 fl.oz./A	46.82	16.04	14991	0.736	84.97	272.7	12740	147
13. USF2004, 3.42 fl.oz./A	45.02	16.60	14944	0.716	85.36	283.4	12755	154
14. Stratego, 10.02 fl.oz./A	46.90	16.85	15801	0.716	85.41	287.8	13499	261
15. Topsin M, 0.5 lbs./A + Microthiol, 5.0 lbs./A ²	46.45	15.92	14774	0.777	84.41	268.7	12473	117
16. Laredo, 6.0 fl.oz./A + Latron CS-7, 0.125% v/v	43.55	16.62	14471	0.705	85.51	284.1	12373	100
17. Laredo, 8.0 fl.oz./A + Latron CS-7, 0.125% v/v	45.24	17.01	15384	0.706	85.57	291.2	13166	217
18. Eminent, 13.0 fl.oz./A	46.26	16.60	15329	0.771	84.60	281.0	12974	202
LSD (0.05) ³	3.08	NS	1015	NS	NS	NS	955	
LSD (0.10)	2.57	NS	848	NS	NS	NS	798	
CV (%)	5.20	NS	5.1	NS	NS	NS	5.7	
Pr > F	0.0215	0.2532	0.0118	0.4510	0.4030	0.2326	0.0259	

¹ The increase in gross return due to treatment, compared with the untreated check. Cost of chemicals and application was not deducted. Price per ton was determined using the sugar content of each treatment at \$22 net return per 100 lb sugar according to the contract of the Amalgamated Sugar Company.

² Microthiol Disperss - 80% wettable sulfur

³ When comparing yields or sugars of two treatments, the values must differ by a value equal to or greater than the LSD (0.05) given at the bottom of each column to be considered statistically different in this test.

Experimental design was a randomized complete block with 18 treatments and 5 replications. The test was planted April 5 and harvested October 4 & 5.