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, 2003

TREATMENTS	Root[1] Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conduc-tivity (mmhos)	Extrac-tion (%)	Estimated Recoverable Sugar (lbs/T)	Estimated Recoverable Sugar (lbs/A)	Increased Gr. Ret.[2] ($/A)
1. Untreated Check	37.58	15.74	11803	0.745	84.79	266.9	10007	0
2. A. Sulfur 10.0 lb	38.15	15.89	12128	0.76	84.63	269	10266	39
B. Sulfur 10.0 lb								
3. A. Gem 25 WG 7.0 oz	38.86	15.94	12399	0.762	84.62	269.8	10498	72
B. Sulfur 10.0 lb								
4. A. Gem 25 WG 7.0 oz + Sulfur 5.0 lb	nd	nd	nd	nd	nd	nd	nd	nd
B. Sulfur 10.0 lb								
5. A. Eminent 125 SL 13.0 fl oz	39.12	15.87	12391	0.744	84.83	269.3	10510	73
B. Gem 25 WG 7.0 oz								
6. A. Gem 25 WG 7.0 oz	41.38	16.13	13331	0.722	85.18	274.8	11356	192
B. Eminent 125 SL 13.0 fl oz								
7. A. Gem 25 WG 5.0 oz + Sulfur 5.0 lb	38.56	16.05	12363	0.773	84.5	271.3	10446	73
B. Sulfur 10.0 lb								
8. A. Headline 250 EC 9.2 fl oz + Sulfur 5.0 lb	37.47	15.74	11771	0.781	84.32	265.5	9924	-4
B. Sulfur 10.0 lb								
9. A. Headline 250 EC 9.2 fl oz	39.69	15.57	12320	0.71	85.18	265.3	10472	59
B. Eminent 125 SL 13.0 fl oz								
10. A. Eminent 125 SL 13.0 fl oz	38.52	16.1	12397	0.731	85.06	274	10546	77
B. Headline 250 EC 9.2 fl oz								
11. A. Laredo 2 EC 8.0 fl oz	38.94	15.75	12207	0.742	84.83	267.3	10343	52
B. Sulfur 10.0 lb								
12. A. Laredo 2 EC 8.0 fl oz + Sulfur 5.0 lb	38.75	15.97	12390	0.741	84.9	271.2	10526	71
B. Sulfur 10.0 lb								
13. A. Topsin M 70 WSB 0.5 lb + Sulfur 5.0 lb	40.55	15.72	12743	0.729	84.99	267.2	10830	109
B. Sulfur 10.0 lb								
14. A. Topsin M 70 WSB 0.5 lb + Sulfur 5.0 lb	40.74	16.02	12988	0.731	85.03	272.6	11037	153
B. Eminent 125 SL 13.0 fl oz								
15. A. Topsin M 70 WSB 0.5 lb + Sulfur 5.0 lb	38.94	15.76	12240	0.763	84.57	266.6	10348	53
B. Laredo 2 EC 8.0 fl oz								
16. A. Topsin M 70 WSB 0.5 lb + Sulfur 5.0 lb	39.46	16.11	12707	0.72	85.2	274.6	10830	115
B. Gem 25 WG 7.0 oz								
17. A. Topsin M 70 WSB 0.75 lb	39.28	15.68	12297	0.781	84.31	264.4	10366	57
B. Eminent 125 SL 13.0 fl oz								
18. A. Eminent 125 SL 13.0 fl oz	39.31	15.87	12470	0.775	84.43	267.9	10526	80
B. Sulfur 10.0 lb								
19. A. Eminent 125 SL 13.0 fl oz + Sulfur 5.0 lb	39.8	15.87	12628	0.745	84.82	269.3	10715	99
B. Sulfur 10.0 lb								
20. A. Eminent 125 SL 13.0 fl oz	39.69	15.91	12615	0.762	84.61	269.3	10674	100
B. Topsin M 70 WSB 0.5 lb + Sulfur 5.0 lb								
21. A. XN -105-174A 0.5 GPA	37.88	15.19	11458	0.765	84.39	256.5	9671	-52
B. XN -105-174A 0.5 GPA								
22. A. XN -105-174A 1.0 GPA	35.89	15.33	10995	0.773	84.33	258.7	9273	-108
B. XN -105-174A 1.0 GPA								
LSD (0.05)	NS	0.46	NS	NS	NS	9.3	NS	
LSD (0.10)	NS	0.38	NS	NS	1.09	7.8	NS	
CV (%)	9.82	2.53	9.14	7.82	0.94	3.00	9.12	
Pr>F	0.9222	0.0071	0.2840	0.8315	0.7632	0.0197	0.1819	

[1] Root Yields have been tared 5%

[2] 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 $23 net per 100 lb sugar according to the contract of the Amalgamated Sugar Co.

[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.

A. First Application

B. Second Application

Sulfur = Microthiol Disperss 80% Wettable Sulfur