

SUGAR BEET VARIETY EVALUATION FOR PRODUCTION AND RESISTANCE TO CERCOSPORA LEAFSPOT

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Michigan Sugar Company evaluates varieties to use in approving varieties for grower use. Forty varieties were submitted and tested for yield, quality, and resistance to diseases and root aphids. Included are trials conducted at the B&B Farm.

Cercospora Variety Trials - 2006 Average of 3 Locations

No.	Variety	0-9	No.	Variety	0-9
24	Crystal 355	1.92	12	Beta BK1641R	3.71
6	Beta 5310	2.38	20	Crystal R626	3.76
10	Beta 1642R	2.85	5	Crystal Z588R	3.76
4	Beta 5411R	2.92	42	HM 9029RR	3.79
13	Crystal R442	2.93	40	HM 2780Rz	3.81
21	Beta 5451	2.95	3	HM 73Rz	3.82
38	HM 2767	3.02	32	Beta 5833R	3.89
17	Beta 5930R(1531R)	3.04	14	HM 2782	3.90
15	Crystal 963 Check	3.17	29	HM 9013RR	3.92
41	HM 2771Rz	3.23	1	Crystal Z627	4.35
9	SX Prompt Check	3.27	16	Beta 6905RR	4.46
11	HM 7172Rz	3.30	22	Crystal C9641RR	4.74
2	Crystal 271	3.34	37	Beta 6904RR	4.81
25	HM 2781Rz	3.39	31	HM 7235Rz	5.07
34	HM 74Rz	3.43	28	Beta BK 1643N	5.25
30	HM 2784Rz	3.45	27	Crystal C9642RR	5.37
36	HM 2779Rz	3.49	23	Beta 5534N	5.44
33	HM E-17	3.49	8	Beta 5902RR	5.52
19	HM 2761Rz Check	3.52			
26	Crystal R509(Z589)	3.58	LSD (P=.05)		0.43
39	HM 9027RR	3.60	CV		7.1
18	SX 1233	3.65	Grand Mean		3.73
7	HM 2763Rz	3.66			
35	HM 9028RR	3.71			

Purpose: The Cercospora leafspot nursery is conducted to evaluate resistance in the varieties. This test is inoculated and has a susceptible variety planted every third row, between each entry, to spread the disease evenly. The rating is done on a scale of 1-9 where a lower number indicates more resistance.

Results: The results indicate which varieties have a level of resistance to help with this extensive disease in Michigan. Varieties having a rating of 3.66 or less meet our approval requirement.