

Table 36

2003 Performance of Varieties - ACSC Biotech Coded Test
ACSC Sites - All Characters (Commercial Status - Kindred & Climax)

Description @	Code	Rec/T lbs.	Rec/A lbs.	Rev/T \$	Rev/T % Mean	Rev/A \$	Rev/A % Mean	Loss Mol %	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter %	Cerc.** Rating	Aph ** Root
Beta 991RR	357	319.6	8675	40.01	99	1086	103	1.32	17.33	27.11	400	1903	369	0.00	4.99	5.26
Beta 993RR(Rzm)	359	320.0	8774	40.10	99	1102	105	1.27	17.30	27.32	354	1953	332	0.00	5.13	4.97
Beta 995RR	354	315.9	8453	39.15	97	1052	100	1.28	17.10	26.62	395	1911	332	0.00	5.54	5.47
Crystal 999(Check)2002	351	332.1	8113	42.86	106	1047	100	1.16	17.76	24.47	292	1811	309	0.00	NA	NA
Crystal RX309RR	361	325.1	8518	41.26	102	1085	103	1.27	17.57	26.13	312	1998	338	0.00	5.12	5.74
Crystal X210RR	358	321.2	7795	40.37	100	980	93	1.29	17.37	24.26	381	1922	340	0.47	4.73	5.72
Hilleshog 129RzRR	360	325.6	8712	41.38	102	1111	106	1.23	17.53	26.62	293	1902	334	0.00	5.14	6.55
Hilleshog 131RzRR	355	314.8	8864	38.91	96	1097	104	1.23	16.99	28.13	394	1725	341	0.00	4.45	6.03
Hilleshog 132RzRR	352	307.0	8147	37.12	92	983	93	1.31	16.69	26.55	305	2181	321	0.00	5.02	6.78
Seedex Monarch(Check)2003	362	321.0	7911	40.33	100	991	94	1.23	17.29	24.71	319	1913	324	0.00	NA	NA
Van der Have H46177(Check)2003	356	331.5	7953	42.73	106	1021	97	1.13	17.68	24.13	247	1866	285	0.00	NA	NA
Van der Have H85001RR	353	321.6	8457	40.47	100	1060	101	1.19	17.28	26.38	288	1882	317	0.00	5.45	5.05
Check Mean		321.3	8364	40.39		1051		1.24	17.32	26.03	332	1914	329	0.04		
Coeff. of Var. (%)		3.3	8.1	6.0		10.2		5.9	2.8	6.6	14.7	5.8	10.4			
F Value		1.7	1.7	1.7		1.2		3.2	1.7	3.3	2.8	2.5	2.4			
Mean LSD (0.05)		16.4	874	3.76		135.48		0.10	0.72	2.22	94	211	41			
Mean LSD (0.01)		23.3	1236	5.34		191.52		0.15	1.02	3.13	133	297	58			

Created 11-13-03
Trial # = 03ACBi

**Lower numbers indicate better resistance (1 = Ex, 9 = poor). Cerc. data from Rosemount, MN. Aph data from Shakopee, MN.
@ Some varieties not approved for sale. Refer to approval list for approval status.
++ Revenue estimates are based on a \$40.09 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 37

2003 Performance of Varieties - Minn-Dak Biotech Coded Test
Minn-Dak Sites - All Characters (Commercial Status - Foxhome & Kindred)

Description	Code	Rec/T lbs.	Rec/A lbs.	Rev/T \$ ++	Rev/T % Mean	Rev/A \$ ++	Rev/A % Mean	Loss Mol %	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter %	Cerc.** Rating	Aph ** Root
Beta 991RR	357	309.2	8617					1.67	17.08	27.92	623	2087	518	0.00	4.99	5.26
Beta 993RR(Rzm)	359	306.8	8320					1.61	16.91	27.17	571	2120	477	0.00	5.13	4.97
Beta 995RR	354	302.0	8192					1.68	16.73	27.31	666	2137	493	0.00	5.54	5.47
Crystal 999(Check)2002	351	329.1	8341					1.40	17.86	25.42	457	1930	408	0.00	NA	NA
Crystal RX309RR	361	307.3	7982					1.68	17.01	26.08	567	2145	541	0.00	5.12	5.74
Crystal X210RR	358	305.7	7479					1.61	16.87	24.51	636	2027	483	0.28	4.73	5.72
Hilleshog 129RzRR	360	318.6	8251					1.54	17.46	25.91	515	2086	451	0.00	5.14	6.55
Hilleshog 131RzRR	355	305.5	8469					1.56	16.81	27.86	642	1929	463	0.00	4.45	6.03
Hilleshog 132RzRR	352	298.7	7461					1.73	16.62	25.11	541	2527	467	0.00	5.02	6.78
Seedex Monarch(Check)2003	362	311.6	8009					1.54	17.12	25.73	507	2151	435	0.00	NA	NA
Van der Have H46177(Check)2003	356	323.5	7935					1.36	17.54	24.67	396	1997	371	0.00	NA	NA
Van der Have H85001RR	353	311.5	8043					1.54	17.09	25.90	497	2144	442	0.00	5.45	5.05
Check Mean		310.8	8092					1.58	17.09	26.13	552	2107	462	0.02		
Coeff. of Var. (%)		3.0	10.1					5.7	2.6	9.2	12.8	4.7	8.6			
F Value		8.4	0.6					6.0	6.3	0.7	4.2	8.2	10.5			
Mean LSD (0.05)		8.3	1441					0.14	0.39	4.54	125	166	44			
Mean LSD (0.01)		10.9	2037					0.20	0.52	6.42	176	234	62			

Created 11-13-03
Trial # = 03MDBi

**Lower numbers indicate better resistance (1 = Ex, 9 = poor). Cerc. data from Rosemount, MN. Aph data from Shakopee, MN.
Some varieties not approved for sale. Refer to approval list for approval status.
++ Rev/Ton and Rev/Acre not collected.

Table 38
Company Participation in 2003 Coded Trials
Number of Varieties

Seed Co.	American Crystal					Minn-Dak		
	Comm	Semi Comm	Biotech	Aph Spec	Rzm Spec	Comm	Semi Comm	Biotech
ACH Seeds	-	-	-	-	-	8	-	-
Betaseed-KWS	9	16	3	8	14	14	2	3
Croplan Genetics	3	-	-	-	-	2	-	-
Crystal Beet Seed	9	12	2	5	10	-	-	-
Hilleshog-Syngenta	7	16	3	9	14	17	-	3
Holly Hybrids/Interstate VdH	8	19	1	10	10	10	8	1
Seedex	6	4	-	5	3	9	1	-
Total	42	67	9	37	51	60	11	7

NOTE: Check varieties were included in the semi commercial and biotech trials as well as the commercial tests. A ratio of the check performance is used to adjust performance data of semi commercial and biotech varieties to obtain commercial status data.