

**Table 27**  
**2003 Performance of Aphanomyces Tolerant Varieties - ACSC Coded Test**  
**Perley, MN - Aphanomyces**

Description @	Code	Rec/T lbs.	Rec/A lbs.	Loss Mol %	Rev/T \$ ++	Rev/A \$ ++	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Vigor+ Rating	Emerg. %	Bolter %	Survival % ~
Beta 3800(Aph)	422	314.5	6157	1.04	38.82	762	16.78	19.52	326	1594	267		66.7	0.00	81.6
Beta 3820(Aph)	431	321.5	6034	1.03	40.43	757	17.10	18.83	271	1698	249		63.7	0.00	68.5
Beta 4811R(Aph & Rzm)	403	307.3	5735	1.01	37.17	696	16.38	18.61	240	1720	242		68.7	0.00	79.7
Beta 4818R(Aph & Rzm)	436	313.6	5682	1.20	38.62	697	16.86	18.22	346	1842	306		59.9	0.00	59.0
Beta 6400(Aph)	413	328.5	5344	1.07	42.04	688	17.49	16.19	247	1808	264		68.4	0.00	77.6
Beta BX1194(Aph)	401	323.4	5426	1.10	40.88	687	17.27	16.76	263	1856	263		62.4	0.00	65.4
Beta BX1198(4898R Rzm)	425	308.6	5660	1.18	37.47	687	16.61	18.34	291	1826	322		64.5	0.07	67.8
Beta BX1302(Aph)	404	333.4	5719	1.20	43.16	741	17.87	17.16	306	1931	304		62.3	0.07	60.8
Crystal 725	417	323.3	5927	1.08	40.84	748	17.27	18.30	285	1763	268		58.3	0.00	60.8
Crystal 820	421	320.3	6103	1.18	40.16	766	17.21	19.01	345	1731	329		69.3	0.00	70.2
Crystal 822	424	325.2	5644	1.14	41.29	717	17.40	17.34	313	1788	296		71.6	0.00	72.5
Crystal 952	407	322.3	5434	1.13	40.61	685	17.26	16.83	363	1737	284		59.7	0.00	61.6
Crystal R207	412	319.4	4800	1.26	39.94	596	17.23	15.10	258	1936	363		65.4	0.00	68.0
Hilleshog 2236(Aph)	435	310.7	5666	1.09	37.96	693	16.63	18.21	298	1715	284		64.7	0.00	67.6
Hilleshog 2239(Aph)	419	321.6	5651	1.14	40.46	710	17.23	17.59	303	1793	302		63.3	0.00	65.4
Hilleshog 2264(7164 Aph)	432	320.1	4830	1.10	40.10	603	17.10	15.16	267	1753	290		51.8	0.00	66.0
Hilleshog 2463Rz(7163 Aph)	429	317.9	5725	1.20	39.60	713	17.11	18.01	362	1828	316		65.6	0.00	74.1
Hilleshog 2469(7169 Rz Aph)	405	311.6	5716	1.17	38.16	699	16.75	18.36	305	1864	298		71.0	0.00	79.7
Hilleshog 7192(Aph)	430	321.8	5598	1.10	40.50	705	17.20	17.38	222	1811	298		73.4	0.00	77.1
Hilleshog 7196Rz(Aph)	423	317.5	6055	1.18	39.50	753	17.05	19.11	327	1772	326		68.9	0.00	76.4
Hilleshog 7202Rz(Aph)	411	306.7	5341	1.15	37.02	645	16.49	17.40	363	1690	311		76.8	0.00	81.1
Hilleshog 7203Rz(Aph)	426	315.3	4520	1.20	39.01	562	16.96	14.30	278	1986	306		71.8	0.00	78.2
Holly 03HX317	402	318.7	6045	1.06	39.78	753	16.98	19.02	243	1688	282		67.8	0.00	75.3
Holly 03HX364	420	322.5	5650	1.02	40.66	713	17.14	17.52	229	1722	251		60.7	0.00	70.4
Resistant Check (2N very tol)	438	319.5	5736	1.17	39.97	718	17.14	17.95	330	1866	290		51.8	0.00	49.5
Seedex Aurora(SX823 925 Aph)	408	325.2	5551	1.05	41.28	702	17.31	17.14	234	1758	263		67.6	0.00	72.0
Seedex SX0822(Prizm Aph)	414	322.7	5427	0.94	40.71	686	17.08	16.77	203	1642	216		58.2	0.00	68.2
Seedex SX0828(Rezult Aph & Rzm)	409	328.7	5699	0.98	42.08	730	17.41	17.35	183	1690	243		69.8	0.00	77.8
Seedex SX0830(Aph & Rhc)	434	311.8	4877	1.06	38.19	598	16.64	15.66	240	1801	258		46.0	0.00	50.8
Seedex SX0831(Aph & Rzm)	428	329.5	5363	0.91	42.26	689	17.38	16.27	241	1522	215		68.5	0.00	74.2
Susceptible Check (3N)	439	311.0	4696	1.07	38.02	571	16.62	15.14	216	1793	271		64.6	0.00	67.9
Van der Have H46177(Aph & Rzm)	416	321.4	5696	1.05	40.42	718	17.13	17.69	239	1819	251		61.9	0.00	67.4
Van der Have H46521(Rhc)	433	317.3	4901	1.19	39.47	610	17.06	15.43	285	1931	304		49.9	0.00	50.0
Van der Have H46522(Aph&Rzm&Rhc)	418	315.6	5096	1.06	39.08	631	16.84	16.16	200	1655	306		60.4	0.00	68.1
Van der Have H47151(Rzm&Aph)	415	324.9	5896	0.99	41.21	745	17.23	18.22	233	1650	245		51.7	0.00	54.6
Van der Have H49150(Aph)	410	323.7	5720	1.05	40.93	722	17.23	17.72	238	1671	279		72.0	0.00	80.9
Van der Have H49151(Aph)	427	318.8	4937	1.01	39.82	615	16.95	15.52	200	1803	238		72.7	0.00	81.7
Van der Have H66725(Aph)	437	333.7	5193	1.03	43.24	675	17.71	15.53	198	1698	281		76.7	0.00	75.3
Van der Have H66733(Rzm & Aph)	406	330.3	5617	0.98	42.46	720	17.48	17.09	216	1677	238		70.2	0.00	80.8
Filler#6 (3N mod Tolerance)	440	321.3	5315	1.18	40.40	669	17.25	16.52	311	1873	305		70.7	0.00	76.4
Filler#7 (3N high Tolerance)	441	325.2	5640	1.09	41.29	713	17.35	17.41	248	1779	273		58.0	0.00	58.1
Filler#8 (3N near Aph Spec)	442	322.8	5667	1.15	40.74	713	17.29	17.60	298	1807	302		54.8	0.00	60.8
Check Mean		320.2	5512	1.10	40.14	690	17.11	17.23	271	1769	281		64.3		71.5
Coeff. of Var. (%)		2.4	7.0	9.0	4.5	7.8	2.3	6.7	18.9	7.0	16.3		12.0		9.5
F Value		3.8	6.0	3.6	3.8	5.3	3.3	6.6	5.1	3.3	2.7		4.9		8.6
Mean LSD (0.05)		9.4	472	0.12	2.17	66	0.48	1.42	62	154	55		9.3		8.1
Mean LSD (0.01)		12.4	622	0.16	2.86	87	0.63	1.87	82	204	72		12.2		10.7

+ Vigor not collected.

@ Some varieties not approved for sale. Refer to approval list for approval status.

~ Survival % represents the percentage of seeds that produced a plant surviving to harvest.

++ Revenue estimates are based on a \$40.09 beet payment at 17.5 % sugar and 1.5 % loss to molasses.

Severe Aphanomyces present.

Updated 12-9-03.

Trial # = 038682