

2020 Minn-Dak Official Variety Trial  
Aphanomyces Ratings  
Betaseed (Shakopee, MN) & Magno Seed (Glyndon, MN)

Entry Code	Variety	Unadjusted		Adjusted						
		Shakopee	Glyndon	Shakopee	Glyndon	2020 2 Loc.	2019 2 Loc.	2018 2 Loc.	2 Yr.	3 yr.
6	* ACH 659	4.40	4.90	4.25	3.94	4.10	3.85	4.43	3.97	4.12
18	* ACH 765	3.72	4.70	3.59	3.78	3.69	3.87	3.33	3.78	3.63
17	* ACH 771	4.28	4.50	4.13	3.62	3.88	3.96	3.76	3.92	3.87
13	ACH 910	3.85	3.90	3.72	3.14	3.43	3.63	---	3.53	---
5	ACH 950	4.45	4.90	4.30	3.94	4.12	3.69	---	3.91	---
21	ACH 973	3.97	4.20	3.83	3.38	3.61	3.99	---	3.80	---
2	* Beta 7727	3.23	4.00	3.12	3.22	3.17	2.92	3.17	3.04	3.08
15	* Beta 7741	3.08	4.70	2.98	3.78	3.38	3.24	3.33	3.31	3.31
19	* Beta 7748	4.42	5.70	4.27	4.59	4.43	3.92	3.78	4.17	4.04
9	Beta 7845	2.87	3.20	2.77	2.57	2.67	2.97	2.98	2.82	2.87
3	Beta 7931	3.45	4.00	3.33	3.22	3.28	3.55	---	3.41	---
11	Beta 7974	3.70	3.80	3.57	3.06	3.32	3.47	---	3.39	---
4	Beta 7996	4.13	4.70	3.99	3.78	3.89	4.54	---	4.21	---
1	Hilleshög 2321	3.88	3.80	3.75	3.06	3.40	4.55	---	3.97	---
16	Hilleshög 2325	4.05	4.30	3.91	3.46	3.69	3.94	---	3.81	---
10	Hilleshög 4302	4.25	4.70	4.11	3.78	3.94	4.56	4.02	4.25	4.17
20	Maribo 905	4.27	4.10	4.12	3.30	3.71	4.31	---	4.01	---
7	* SES/VdH 655	4.00	4.70	3.86	3.78	3.82	3.64	4.13	3.73	3.86
12	SES/VdH 696	3.88	4.50	3.75	3.62	3.68	3.15	---	3.42	---
14	* SES/VdH 762	4.10	4.30	3.96	3.46	3.71	4.01	3.62	3.86	3.78
8	SES/VdH 788	3.65	4.30	3.53	3.46	3.49	4.23	3.43	3.86	3.72
22	SES/VdH 1986	3.65	4.50	3.53	3.62	3.57	4.37	3.83	3.97	3.93
29	ACH 008	3.80	4.20	3.67	3.38	3.52	---	---	---	---
30	ACH 011	4.07	3.90	3.93	3.14	3.53	---	---	---	---
35	ACH 023	2.93	3.50	2.83	2.82	2.82	---	---	---	---
39	ACH 044	3.88	4.00	3.75	3.22	3.48	---	---	---	---
24	ACH 056	3.80	4.10	3.67	3.30	3.48	---	---	---	---
27	ACH 082	3.83	4.20	3.70	3.38	3.54	---	---	---	---
38	ACH 095	2.95	4.20	2.85	3.38	3.11	---	---	---	---
25	Beta 7021	3.68	4.30	3.55	3.46	3.51	---	---	---	---
34	Beta 7029	4.03	4.60	3.89	3.70	3.80	---	---	---	---
23	Beta 7033	3.68	4.20	3.55	3.38	3.47	---	---	---	---
40	Beta 7059	3.63	5.10	3.51	4.10	3.80	---	---	---	---
43	Beta 7062	3.32	3.90	3.21	3.14	3.17	---	---	---	---
45	Beta 7068	3.95	3.50	3.82	2.82	3.32	---	---	---	---
41	Beta 7085	3.02	3.90	2.92	3.14	3.03	---	---	---	---
37	Hilleshög 2371	4.03	4.70	3.89	3.78	3.84	---	---	---	---
33	Hilleshög 2372	3.70	4.30	3.57	3.46	3.52	---	---	---	---
28	Hilleshög 2373	3.42	4.10	3.30	3.30	3.30	---	---	---	---
36	Hilleshög 2374	4.25	4.30	4.11	3.46	3.78	---	---	---	---
44	Maribo 924	4.30	5.30	4.15	4.26	4.21	---	---	---	---
42	SES/VdH 701	3.97	4.50	3.83	3.62	3.73	---	---	---	---
26	SES/VdH 702	3.72	4.30	3.59	3.46	3.53	---	---	---	---
31	SES/VdH 703	3.97	4.00	3.83	3.22	3.53	---	---	---	---
32	SES/VdH 704	4.23	4.10	4.09	3.30	3.69	---	---	---	---
Established Mean		3.90	4.69	3.77	3.77	3.77	3.68	3.69	3.72	3.71
Exp/Trial Mean		3.81	4.30			3.57				
CV (%)		9.95	7.60							
Mean LSD (0.05)		0.44	0.53							
Adjustment Factor				0.96592	0.80442					

\* Established varieties used to calculate the adjustment factors

Lower values indicate better disease tolerance: (0)=Excellent >>>> (9)=Dead Plant

Ratings adjusted for disease severity on the basis of the Established Varieties [4-year adjusted mean, 2016-2019]

Ratings x Adjustment Factor = Adjusted Rating

Average ratings based upon multiple individual ratings