

BLACK WALNUT ANTHRACNOSE REPORT

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The eastern black walnut cultivars in the Cyril Bish Nut Tree Orchard, University of Nebraska – East Campus, Lincoln, Nebraska have been evaluated by Cyril Bish for Anthracnose resistance the past four years.

Tree leaves were observed to see if they showed evidence of the disease. Each tree was observed and given a rating as follows:

1. Resistant (R) Leaves healthy, and green to first killing frost.
2. Moderately resistant (MR) Leaves show a few spots on leaves. No leaf drop early.
3. Moderately susceptible (MS) Leaves show moderate amount of leaf spot. Some leaf drop early. Leaves yellow.
4. Susceptible (S) Most leaves show spots. Most leaves dropped early.

During the four year study there was a quite a variation in rainfall. This may have some affect on the amount of disease present during each year.

In 1994, we had 22.56 inches of rainfall which was below our normal of 28.26 inches.

In 1995, we had 23 inches of rainfall with a very wet May and June.

In 1996, we had 35.89 inches of rainfall. This was the 15th wettest year in 110 years or record keeping.

In 1997, we are about five inches below our normal rainfall with 21.84 inches reported as of November 2 and the normal for this date is 26.11 inches.

In 1995 only the top producing cultivars were rated for anthracnose.

It is important that black walnut retain healthy leaves the full season in order that the tree can produce a good crop of nuts each year. A late spring freeze can prevent pollination some years.

If a commercial orchard is to be established, it is important to plant cultivars that evaluate well and have good leaf health.

ANTHRACNOSE RESISTANCE
Black Walnuts – Lincoln, Nebraska

Location	Cultivar	Month, Day and Year of Observation			
		10/8/94	10/5/95	9/18/96	10/4/97
G-19	Pammel Park #20	MR		MS	MS
H-18	Wisconsin #1	S		S	S
I-18	Hare	MR		MS	MS
I-19	Lee Lowder	R		MS	MS
J-16	Vandersloot	R		MR	MR
J-17	George	R		MR	MR
J-18	Welch Rope	MS		MS	MR
K-9	Throp	MR		MR	R
K-10	S-127	MR	R	R	MR
K-11	Thatcher	MR	MR	MR	MR
K-22	Pamel Park #14	MR		S	MS
K-23	Pamel Park #20	MR		MS	
K-01	Sparks 328	R		R	R
K-02	Football 1	MS		MS	MR
K-03	Surprise	R		R	R
K-04	John Thordutti 1	R		R	R
K-05	Farm Thomas	R		MR	R
K-06	Sauber #1	R		R	R
K-07	M18	R		R	R
K-08	Burd	MR		MS	MS
KK14	Pammel Park #20	MR		MS	MS
KK15	Lee Lowder	MS		MS	MR
KK17	Mullinix	S		MS	MS
L-1	Sparks 127	R	R	R	MR
L-2	Farrington	MR	MR	MR	MR
L-3	Sparks 127	MR		R	MR
L-6	Krause	R	R	R	R
L-7	Burson	S		S	S
L-8	Stabler	MR	MR	MR	MR
L-9	S147	MR	MR	MR	MR
L-11	Ohio	R	R	R	R
L-12	George	R			MR
L-22	Pamel Park #14	MR		S	MS
L-05	Sparks MXS #4	R		R	R
L-06	Football	MR		MR	R
M-1	Sparrow	R	R	R	R
M-2	Hay	R	R	R	R
M-3	Ogden	R	R	MR	R
M-6	Davidson 629	R	R	R	R
M-7	Sparks 147	MR	MR	R	R
M-9	Crantz	MR	MR	MR	MR
M-9	Rock	MR	MR	MR	MR
M-10	Spilchal	MR		MR	MR
M-12	Thielenhaus	S		MS	MS
M-13	Davis #2	S			

Location	Cultivar	Month, Day and Year of Observation			
M-15	Bentley	S		MS	MR
M-02	Sparks 228	R		R	R
N-1	Beck	R		R	R
N-2	Hare	MR	R	MR	MR
N-3	Grundy	MS		MR	MR
N-4	Bowser	MR		R	R
N-5	Rowher	R	R	R	R
N-6	Kitty	MS		MS	MR
N-7	Caba Ohio	R		MR	R
N-8	Todd	R	R	MS	R
N-9	Leavenworth	R		R	R
N-10	Pfester #1	R		R	R
N-11	Bentley	MS		MS	MS
N-03	Scrimger	R		R	R
O-1	Sparks 328	R		R	R
O-2	Sparks 228	R		R	R
O-3	Pritchett	R		R	MR
O-5	Wrights	MR	R	R	R
O-6	Pritchett	R		R	R
O-23	Surprise	R			
P-2	Peanut	S	S	MS	MR
P-3	Meyers	R	R	R	R
P-6	Hare	R		R	R
P-7	Sparks 127	R	R	R	R
P-8	Cochrane	MS		S	MS
P-9	Kitty	MS		MS	MR
P-10	Crantz	MS	MS	S	MR
P-01	Tom Roe	R		R	MR
Q-4	Elkhorn	S		S	S
Q-5	Demming Purple	MS		R	MS
Q-6	Card	MR		R	MR
Q-7	Eldora	MR	MR	R	R
Q-8	McGinnis	R	R	R	R
Q-9	Sparks 128	MR		R	R
R-8	Thomas	MR	MR	MR	MR
R-10	Davidson 629	R		R	R
S-9	Sparks MS #2	R		MR	R