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## EC177 What Oats Shall I Grow?

C. O. Gardner

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# WHAT OATS SHALL I GROW?

BY C. O. GARDNER

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UNIVERSITY OF NEBRASKA-LINCOLN



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Home Economics  
The United States  
Acting Director,



# YIELDS OF OAT VARIETIES IN DIFFERENT SECTIONS OF NEBRASKA

(For further detail see Department Circular 87, 1948)

Variety	District							
	South-east 1945-47 5 tests	East Central 1945-47 9 tests	North-east 1945-47 3 tests	South Central 1946-47 2 tests	Central 1945-47 3 tests	North Central 1944-46 3 tests	South-west 1944-47 5 tests	North-west 1945-47 4 tests
Clinton		65.5	71.5	43.3				67.3
Cedar	52.6	53.9	66.3	41.5	51.7	55.3	40.0	70.7
Osage	56.5	57.9	56.3	38.2	58.5	53.5	39.3	72.4
Marion	54.9	57.1	64.5					
Otoe	51.0	48.4	49.5	36.2	44.9	44.9	41.1	69.1
Brunker				38.4	42.0	42.8	40.7	70.8
Trojan				36.7	46.8	46.9	37.7	72.9
Kanota				28.5	35.8		35.7	71.8
Kherson	36.5	44.1		27.4	41.2		34.9	65.8

DISEASE RESISTANCE OF OAT VARIETIES  
IN NEBRASKA

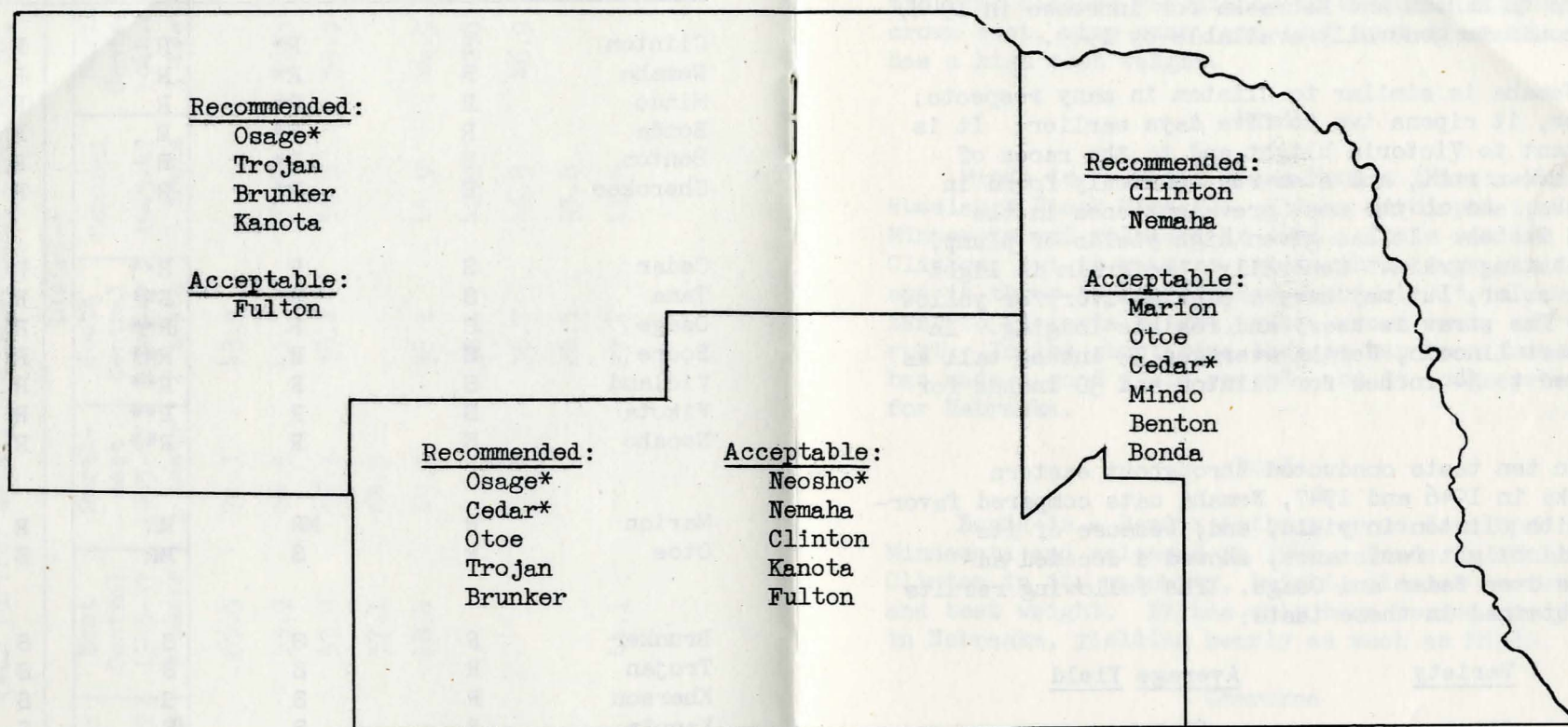
R = Resistant, i.e. little or no infection observed;  
S = Susceptible; MR = Moderately Resistant

Variety	Victoria Blight	Crown Rust	Stem Rust	Smut
Clinton	R	R*	R	R
Nemaha	R	R*	R	R
Mindo	R	R*	R	R
Bonda	R	R*	R	R
Benton	R	R*	R	R
Cherokee	R	R*	R	R
Cedar	S	R	R**	R
Tama	S	R	R**	R
Osage	S	R	R**	R
Boone	S	R	R**	R
Vicland	S	R	R**	R
Vikota	S	R	R**	R
Neosho	S	R	R**	R
Marion	R	MR	MR	R
Otoe	R	S	MR	S
Brunker	R	S	S	S
Trojan	R	S	S	S
Kherson	R	S	S	S
Kanota	R	S	S	S
Fulton	R	S	S	R

\* Susceptible to race 45, which is not common in  
Nebraska at the present time.

\*\* Susceptible to races 8 and 10.

# OAT VARIETIES RECOMMENDED IN NEBRASKA



\* Susceptible to Victoria blight.

Note: Under irrigation stiff-strawed varieties such as Nemaha, Clinton, and Trojan are suggested.



## NEMAHA OATS

Nemaha is a new variety from the cross Victoria-Richland x Morota-Bond. It was developed cooperatively by the Iowa, Kansas, and Nebraska agricultural experiment stations and the U. S. Department of Agriculture. Seed is being released to certified growers in Kansas and Nebraska for increase in 1948, and should be generally available by 1949.

Nemaha is similar to Clinton in many respects; however, it ripens two to five days earlier. It is resistant to Victoria blight and to the races of smut, crown rust, and stem rust commonly found in Nebraska, and to the most prevalent ones in the United States. It has given high yields of plump, high-testing grain. Generally, the grain is light red in color, but may have a pinkish-ivory or yellow cast. The straw is heavy and resists lodging. In height at Lincoln, Nemaha averaged 33 inches tall as compared to 34 inches for Clinton and 30 inches for Cedar.

In ten tests conducted throughout eastern Nebraska in 1946 and 1947, Nemaha oats compared favorably with Clinton in yield, and, because of its Victoria blight resistance, showed a decided advantage over Cedar and Osage. The following results were obtained in these tests:

<u>Variety</u>	<u>Average Yield</u>
Clinton	65.1 bu.
Nemaha	63.7 bu.
Cedar	53.3 bu.
Osage	52.4 bu.

## CHARACTERISTICS OF SOME NEW OAT VARIETIES

### Benton

Benton is from the same cross as Clinton, and was developed at the Iowa Agricultural Experiment Station. It is very similar to Clinton; however, it grows a little taller, and it has not yielded quite as well as Clinton in eastern Nebraska. It possesses the same disease resistance to Victoria blight, smut, crown rust, stem rust, and leaf spot diseases. It has a high test weight.

### Mindo

Mindo is from the cross Bond x (Minota-White Russian x Black Mesdag). It was developed in Minnesota and released in 1946. It is similar to Clinton, but it matures two to three days earlier, and is three to four inches shorter. It is resistant to Victoria blight, smut, crown rust, and stem rust. In the short time that it has been tested it has made a good yield record, and it looks promising for Nebraska.

### Bonda

Bonda is a Bond x Anthony cross developed in Minnesota and released in 1946. Bonda is similar to Clinton in its maturity, height, disease resistance, and test weight. It has only been tested one year in Nebraska, yielding nearly as much as Mindo.

### Cherokee

Cherokee is from the same cross as Clinton, but it matures approximately three days earlier than Clinton and is three to four inches shorter. The original cross was made in Iowa, but Kansas tested and increased the variety and is releasing it in 1948. It has the same disease resistance, stiff straw, and

high test weight that is characteristic of Clinton. It has shown considerable promise in one year of testing in Nebraska.

#### Eaton

Eaton is an logold x Bond cross developed in Iowa. It is resistant to Victoria blight, crown rust, and smut, but is susceptible to some races of stem rust. It does not appear to be as lodge resistant as Clinton and other Bond crosses. Eaton matures at about the same time as Cedar and Clinton. The variety is not recommended in Nebraska.

#### Beaver

Beaver is a Canadian variety from the cross Vanguard x Erban. It matures three to four days later than Clinton, grows somewhat taller, and is susceptible to smut, crown rust, and stem rust. Beaver has not been tested for yield at Lincoln, but it was observed in the smut nursery. The variety is not recommended for Nebraska.