Table 31. Reaction of entries in the 1994 Northern Regional Performance Nursery to wheat soilborne mosaic virus. Data provided by R.M. Hunger, W.C. Siegerist, and J.L. Sherwood, Stillwater, OK.

No. Sel. No. Rep 1 Rep 2 Rep 3 Rep 1 Rep 2 Rep 3 O1 CI1442						soilborne mosaic virus*
01 CI1442 3 3 3 1.541 2.000 1.606 02 CI17439 2 3 3 1.524 1.939 1.605 03 PI511307 0 1 1 1.226 0.156 1.530 04 SD89119 2 2 2 1.563 2.000 1.684 05 SD89333 1 2 2 2 1.486 1.986 1.520 06 SD89153 2 2 2 1.521 1.999 1.568 07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.978 1.692 1.859 21 NE91631 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.735 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.794 1.946 24 XNH1727 1 2 2 1.846 1.827 1.773 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.944 1.792	Entry					<u> </u>
02 CI17439 2 3 3 1.524 1.939 1.605 03 PI511307 0 1 1 1.226 0.156 1.530 04 SD89119 2 2 2 1.563 2.000 1.684 05 SD89333 1 2 2 1.486 1.986 1.520 06 SD89153 2 2 2 1.521 1.999 1.568 07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.665 1.635 1.273 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 <td>No.</td> <td>Sel. No.</td> <td>Rep 1</td> <td>Rep 2</td> <td>Rep 3</td> <td>Rep 1 Rep 2 Rep 3</td>	No.	Sel. No.	Rep 1	Rep 2	Rep 3	Rep 1 Rep 2 Rep 3
03 P1511307 0 1 1 1.226 0.156 1.530 04 SD89119 2 2 2 1.563 2.000 1.684 05 SD89333 1 2 2 1.486 1.986 1.520 06 SD89153 2 2 2 1.521 1.999 1.568 07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.653 1.273 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 <td>01</td> <td>CI1442</td> <td>3</td> <td>3</td> <td>3</td> <td>1.541 2.000 1.606</td>	01	CI1442	3	3	3	1.541 2.000 1.606
04 SD89119 2 2 2 1.563 2.000 1.684 05 SD89333 1 2 2 1.486 1.986 1.520 06 SD89153 2 2 2 1.521 1.999 1.568 07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027	02	CI17439	2	3	3	1.524 1.939 1.605
05 SD89333 1 2 2 1.486 1.986 1.520 06 SD89153 2 2 2 1.521 1.999 1.568 07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735	03	PI511307	0	1	1	1.226 0.156 1.530
06 SD89153 2 2 2 1.521 1.999 1.568 07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726	04	SD89119	2	2	2	1.563 2.000 1.684
07 SD89180 2 2 2 1.624 1.778 1.766 08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 2.000	05	SD89333	1	2	2	1.486 1.986 1.520
08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.978	06	SD89153	2	2	2	1.521 1.999 1.568
08 SD89186 2 3 3 1.665 1.635 1.273 09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.978	07	SD89180	2	2	2	1.624 1.778 1.766
09 SD89205 3 2 2 1.653 1.829 1.359 10 HBC197F seg 2 2 0.081 1.517 1.519 11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE91662 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.978	08	SD89186				1.665 1.635 1.273
11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000	09	SD89205	3			1.653 1.829 1.359
11 ND8933 2 2 2 1.594 1.630 1.318 12 ND8955 2 3 3 1.608 1.673 1.279 13 ND8889 1 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000	10	HBC197F	seg	2	2	0.081 1.517 1.519
13 ND8889 1 0 0 0 0.333 1.743 0.120 14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	11	ND8933	2	2	2	1.594 1.630 1.318
14 ND90109 3 3 3 1.530 1.773 1.345 15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1772 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000	12	ND8955	2	3	3	1.608 1.673 1.279
15 ND8974 1 1 0 0.027 0.153 0.061 16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	13	ND8889	1	0	0	0.333 1.743 0.120
16 ND9043 3 3 2 2.000 1.735 1.476 17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 3 1.988 1.841 1.359 19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068	14	ND90109	3	3	3	1.530 1.773 1.345
17 ND9064 1 1 2 1.954 1.726 1.493 18 NE90625 3 3 1.988 1.841 1.359 19 NE90616 3 3 2.000 1.686 1.255 20 NE91562 3 3 1.973 1.754 1.865 21 NE91631 3 3 1.978 1.692 1.859 22 NE91648 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	15	ND8974	1	1	0	0.027 0.153 0.061
18 NE90625 3 3 1.988 1.841 1.359 19 NE90616 3 3 2.000 1.686 1.255 20 NE91562 3 3 1.973 1.754 1.865 21 NE91631 3 3 1.978 1.692 1.859 22 NE91648 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	16	ND9043	3	3	2	2.000 1.735 1.476
18 NE90625 3 3 1.988 1.841 1.359 19 NE90616 3 3 2.000 1.686 1.255 20 NE91562 3 3 1.973 1.754 1.865 21 NE91631 3 3 1.978 1.692 1.859 22 NE91648 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	17	ND9064	1	1	2	1.954 1.726 1.493
19 NE90616 3 3 3 2.000 1.686 1.255 20 NE91562 3 3 3 1.973 1.754 1.865 21 NE91631 3 3 3 1.978 1.692 1.859 22 NE91648 2 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	18	NE90625	3	3	3	
20 NE91562 3 3 1.973 1.754 1.865 21 NE91631 3 3 1.978 1.692 1.859 22 NE91648 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	19	NE90616	3			2.000 1.686 1.255
21 NE91631 3 3 1.978 1.692 1.859 22 NE91648 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	20	NE91562			3	1.973 1.754 1.865
22 NE91648 2 2 2 2.000 1.801 1.669 23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	21	NE91631				1.978 1.692 1.859
23 XNH1564 0 0 0 1.827 1.703 0.159 24 XNH1727 1 2 2 1.846 1.829 1.737 25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	22	NE91648	2		2	2.000 1.801 1.669
25 XNH1772 2 1 1 2.000 1.794 1.946 26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	23	XNH1564	0	0	0	1.827 1.703 0.159
26 XNH-1 3 3 3 2.000 1.936 1.827 27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	24	XNH1727	1	2	2	1.846 1.829 1.737
27 XNH-2 1 0 1 0.068 1.995 0.279 28 ID0426 3 3 3 2.000 1.944 1.792	25	XNH1772	2	1		2.000 1.794 1.946
28 ID0426 3 3 3 2.000 1.944 1.792	26	XNH-1	3	3	3	2.000 1.936 1.827
28 ID0426 3 3 3 2.000 1.944 1.792	27	XNH-2	1	0	1	0.068 1.995 0.279
	28	ID0426	3	3	3	
29 IDU355HW 3 3 3 2.000 1.972 1.783	29	ID0355HW	3	3	3	2.000 1.972 1.783

The NRPN was tested in the field, with each rep being one, three-foot row. Rows were rated on a scale where, 0=no stunting, no mosaic, 1=slight stunting and/or slight mosaic, 2=moderate stunting and/or moderate mosaic, and 3=severe stunting and/or severe mosaic. Foliage samples collected at the time of visual assessment were evaluated in ELISA as previously described (Hunger, et al., 1991. Crop Sci. 31:900-905).