

Jan. 1992

W87-11 AND W87-15 SOYBEANS

W87-11 and W87-15 were developed by the Wisconsin Agricultural Experiment Station. They are sister lines selected in the F<sub>4</sub> from the cross Hodgson 78 X Wells II.

These lines are of Group I maturity, relative maturity 105. They have purple flowers, gray pubescence, brown pods at maturity, intermediate seed coat luster, and buff hilum. W87-11 carries the Phytophthora resistance gene Rps1a, which confers resistance to races 1, 2, 10, 11, 13-18, and 24. W87-15 carries the resistance gene Rps1c which confers resistance to races 1-3, 6-11, 13, 15, 17, 21, 23, and 24.

| <u>Entry</u> | <u>Maturity</u><br>(Date) | <u>Yield</u><br>(bu/a) | <u>Lodging</u><br>(Score) | <u>Height</u><br>(in) | <u>Protein<sup>1</sup></u><br>(%) | <u>Oil<sup>1</sup></u><br>(%) |
|--------------|---------------------------|------------------------|---------------------------|-----------------------|-----------------------------------|-------------------------------|
|--------------|---------------------------|------------------------|---------------------------|-----------------------|-----------------------------------|-------------------------------|

1988-1991 14 Test Mean - Central Wisconsin Variety Test  
(Fond du Lac, Galesville, Hancock)

|            |        |    |     |    |      |      |
|------------|--------|----|-----|----|------|------|
| W87-11     | 20-Sep | 58 | 3.0 | 40 | 36.5 | 18.2 |
| W87-15     | 22-Sep | 56 | 2.7 | 40 | 36.5 | 18.1 |
| Hodgson 78 | 19-Sep | 55 | 2.8 | 40 | 35.6 | 18.8 |
| Hardin     | 22-Sep | 58 | 3.2 | 42 | 36.2 | 18.4 |
| Kato       | 20-Sep | 56 | 2.0 | 40 | 37.5 | 17.9 |

1988-1991 16 Test Mean - Southern Wisconsin Variety Test  
(Arlington, Janesville, Racine)

|            |        |    |     |    |      |      |
|------------|--------|----|-----|----|------|------|
| W87-11     | 14-Sep | 45 | 2.4 | 36 | 35.6 | 18.7 |
| W87-15     | 14-Sep | 47 | 2.6 | 35 | 35.8 | 18.5 |
| Hodgson 78 | 14-Sep | 44 | 2.1 | 35 | 34.6 | 19.2 |
| Hardin     | 16-Sep | 51 | 2.5 | 36 | 35.6 | 18.6 |
| Kato       | 16-Sep | 48 | 1.7 | 36 | 37.8 | 17.7 |

1988-1991 4 Test Mean - Uniform Nursery - Maturity Gp I  
(Arlington, WI)

|                         |        |    |     |    |     |     |
|-------------------------|--------|----|-----|----|-----|-----|
| W87-11                  | 19-Sep | 43 | 2.0 | 37 | --- | --- |
| W87-15                  | 20-Sep | 42 | 1.8 | 35 | --- | --- |
| Hodgson 78 <sup>2</sup> | 28-Sep | 40 | 2.4 | 34 | --- | --- |
| Hardin                  | 21-Sep | 44 | 2.9 | 38 | --- | --- |

1990 14 Test Mean - Uniform Nursery - Maturity Gp I.  
(IA, IN, MI, MN, NE, Ontario, SD, WI)

|        |        |    |     |    |      |      |
|--------|--------|----|-----|----|------|------|
| W87-11 | 23-Sep | 45 | 2.1 | 35 | 39.9 | 21.2 |
| W87-15 | 22-Sep | 48 | 1.8 | 33 | 41.9 | 19.6 |
| Hardin | 22-Sep | 48 | 2.2 | 36 | 40.8 | 20.9 |
| Sibley | 21-Sep | 49 | 2.2 | 35 | 40.6 | 20.8 |

1989 7 Test Mean - Uniform Preliminary - Maturity Gp I.  
(IA, MI, MN, SD, WI)

|        |        |    |     |    |      |      |
|--------|--------|----|-----|----|------|------|
| W87-11 | 15-Sep | 41 | 1.9 | 41 | 38.1 | 21.5 |
| W87-15 | 17-Sep | 41 | 1.7 | 36 | 39.6 | 21.1 |
| Sibley | 17-Sep | 46 | 1.8 | 37 | 37.8 | 21.8 |

1987 Test Of Elite Gp I Lines  
(Arlington, WI)

|            |        |    |     |    |      |     |
|------------|--------|----|-----|----|------|-----|
| W87-11     | 8-Sep  | 56 | 2.2 | 41 | ---- | --- |
| W87-15     | 14-Sep | 57 | 2.3 | 39 | ---- | --- |
| Hodgson 78 | 10-Sep | 50 | 2.2 | 39 | ---- | --- |

<sup>1</sup>1990-91 only.

<sup>2</sup>1988-90 only.