

**Table 4. Regression data for five producers supplying complete information for 2010-2014.**

| <u>WW bu/ac</u> | <u>PPT in/yr</u> | <u>FAL</u> | <u>High AL</u> | <u>Outlier</u> | <u>TILL resist</u> |
|-----------------|------------------|------------|----------------|----------------|--------------------|
| 35.8            | 12.3             | 1          | 7              | 0              | 50                 |
| 64.3            | 13.0             | 1          | 7              | 0              | 50                 |
| 59.0            | 11.6             | 1          | 7              | 0              | 50                 |
| 51.5            | 10.0             | 1          | 7              | 0              | 50                 |
| 36.9            | 8.1              | 1          | 7              | 0              | 50                 |
| 71.0            | 16.4             | 0          | 27             | 0              | 50                 |
| 88.0            | 20.1             | 0          | 27             | 0              | 50                 |
| 85.0            | 21.2             | 0          | 27             | 0              | 50                 |
| 84.0            | 18.6             | 0          | 27             | 0              | 50                 |
| 72.0            | 13.7             | 0          | 27             | 0              | 50                 |
| 64.0            | 16.3             | 0          | 72             | 1              | 50                 |
| 75.0            | 23.0             | 0          | 72             | 1              | 50                 |
| 66.0            | 21.9             | 0          | 72             | 1              | 50                 |
| 55.0            | 17.6             | 0          | 72             | 1              | 50                 |
| 51.0            | 18.0             | 0          | 72             | 1              | 50                 |
| 90.6            | 17.2             | 0          | 84             | 0              | 33                 |
| 99.2            | 25.2             | 0          | 84             | 0              | 33                 |
| 104.8           | 23.1             | 0          | 84             | 0              | 33                 |
| 101.6           | 18.8             | 0          | 84             | 0              | 33                 |
| 77.2            | 19.8             | 0          | 84             | 0              | 33                 |
| 86.6            | 18.9             | 0          | 68             | 0              | 50                 |
| 115.5           | 25.4             | 0          | 68             | 0              | 50                 |
| 105.1           | 22.8             | 0          | 68             | 0              | 50                 |
| 102.7           | 19.2             | 0          | 68             | 0              | 50                 |
| 77.5            | 20.5             | 0          | 68             | 0              | 50                 |

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|       |      |   |    |   |    |
|-------|------|---|----|---|----|
| 97.8  | 24.3 | 0 | 17 | 0 | 47 |
| 111.0 | 21.6 | 0 | 17 | 0 | 47 |
| 93.4  | 24.7 | 0 | 17 | 0 | 47 |
| 105.4 | 16.6 | 0 | 17 | 0 | 47 |
| 86.8  | 19.3 | 0 | 17 | 0 | 47 |
| 31.6  | 12.1 | 1 | 30 | 0 | 50 |
| 38.6  | 14.2 | 1 | 30 | 0 | 50 |
| 22.3  | 10.4 | 1 | 30 | 0 | 50 |
| 24.4  | 10.2 | 1 | 30 | 0 | 50 |
| 12.6  | 10.0 | 1 | 30 | 0 | 50 |

Definitions: FAL = 1 if fallow in rotation, 0 otherwise;

High AL = the highest AL toxicity for the producer over sites,  
soil depths and seasons

Outlier = 1 for a producer with statistically different  
yield pattern due to unique management, = 0 for

Others

TILL resist = a multiplicative index of resistance to  
tillage based on producer's survey responses

ww = winter wheat