

2016 SCN PRELIM TEST II

| Strain          | FPhlm      | Parentage                            | Gen. Comp. | SCN res source  | Traits   |
|-----------------|------------|--------------------------------------|------------|-----------------|----------|
| 1 IA2102        | WGy        | A04-545045 x AgriPro 98180-A01-06131 | F4         | None            |          |
| 2 IA1022 (SCN)  | PGy        | Dairyland 98822 x A00-711024         | F5         | PI 88788        |          |
| 3 LD02-4485     | PGbf       | M90-184111 x IA3010                  | F5         | PI 88788        |          |
| 4 U11-920017    | PLtbr      | HS5-3417 x LD02-4485                 | F6         | None            | Rps res. |
| 5 AR15-158020   | PGbf       | IAR1902 SCN x AR3                    | F3         | Peking          |          |
| 6 AR15-258003   | PLtbl      | AX19287-1-5 x AR06-165058            | F5         | PI 88788        |          |
| 7 AR15-258006   | PLtbl      | AX19288-1-11 x AR06-165058           | F5         | PI 88788        |          |
| 8 AR15-258027   | PGibl      | AR16SCN x RxEF59-70                  | F3         | PI 88788        |          |
| 9 AR15-258048   | WT+Ltbr    | IAR1902 SCN x ND07-4635              | F3         | Peking          |          |
| 10 AR15-258069  | P+WLTbr    | ND03-5441 x IAR1902 SCN              | F3         | Peking          |          |
| 11 AR15-258102  | WGbf       | AR16SCN x U09-129007                 | F3         | PI 88788        |          |
| 12 E13901       | WTbl       | E11955 x E07051                      | F4         | PI 88788        |          |
| 13 E13902       | P+WGibl/bf | E11955 x E07051                      | F4         | PI 88788        |          |
| 14 E13903       | WT+Gbr/bf  | E11955 x LD08-12430a                 | F4         | PI 88788        |          |
| 15 E14077       | PLtbl      | U03-300134 x E07051                  | F5         | PI 88788        |          |
| 16 E14141       | WTbl       | LG04-4468 x U02-242055               | F5         | PI 88788        |          |
| 17 E14143       | WTbl       | LG04-4468 x U02-242055               | F5         | PI 88788        |          |
| 18 E14148       | PGibl      | LG05-2359 x U03-100612               | F5         | PI 88788        |          |
| 19 E14208       | PTgr       | E10906 x E07048                      | F5         | PI 88788        |          |
| 20 E14273       | PGgr       | E05226-T x E09014                    | F5         | PI 88788        |          |
| 21 E14309       | WGbf       | E07051 x E11358                      | F5         | PI 88788        |          |
| 22 E14314       | WGbf       | E07051 x E11358                      | F5         | PI 88788        |          |
| 23 LD13-1429    | WLtbl      | LD07-3395 x NE0900094                | F5         | PI 88788,437654 |          |
| 24 LD13-5120a   | PGgr       | LD08-3936 x LD09-13023a              | F5         | PI 88788        | Rag 2    |
| 25 LD13-5131a   | PGibl      | LD08-3936 x LD09-13023a              | F5         | PI 88788        | Rag 2    |
| 26 LD13-5789    | PGgr       | LD05-1540 x LD02-4485                | F5         | PI 88788        |          |
| 27 LD13-6640    | PLtbl      | LD07-3395 x NE0900094                | F5         | PI 88788,437654 |          |
| 28 LD13-6678    | PLtbl      | LD07-3395 x NE0900094                | F5         | PI 88788,437654 |          |
| 29 MSC10-562070 | WGibl      | MN1410 X PI629013                    | F5         | PI 629013       |          |
| 30 MSC10-570022 | WTbl       | IA2073 X PI633736                    | F5         | PI 633736       |          |
| 31 ORC 0516N    | WGy        | OAC Thames x HC 1912N                | F5         | PI 88788        |          |
| 32 ORC 0616N    | WGy        | OAC Thames x HC 1912N                | F5         | PI 88788        |          |

2016 SCN PRELIM TEST II

| Entry           | IL SCN screening |        |          |        | ISU IDC | MN IDC  |
|-----------------|------------------|--------|----------|--------|---------|---------|
|                 | HG 0             |        | HG 2.5.7 |        | Bruner  | Danvers |
|                 | FI               | rating | FI       | rating | score   | score   |
| 1 IA2102        | 18               | R      | 67       | NR     | 2.5     | 4.5     |
| 2 IA1022 (SCN)  | 26               | MR     | 54       | LR     | 2.0     | 4.3     |
| 3 LD02-4485     | 9                | HR     | 46       | LR     | 1.8     | 4.3     |
| 4 U11-920017    | 74               | NR     | 49       | LR     | 1.5     | 3.5     |
| 5 AR15-158020   | 1                | HR     | 3        | HR     | 2.5     | 4.5     |
| 6 AR15-258003   | 2                | HR     | 56       | LR     | 1.5     | 4.0     |
| 7 AR15-258006   | 4                | HR     | 52       | LR     | 2.0     | 4.0     |
| 8 AR15-258027   | 14               | R      | 65       | NR     | 2.0     | 5.0     |
| 9 AR15-258048   | 1                | HR     | 4        | HR     | 1.3     | 4.8     |
| 10 AR15-258069  | 12               | R      | 70       | NR     | 2.0     | 5.0     |
| 11 AR15-258102  | 12               | R      | 65       | NR     | 3.3     | 4.8     |
| 12 E13901       | 26               | R      | 76       | NR     | 3.5     | 5.0     |
| 13 E13902       | 17               | R      | 69       | NR     | 3.5     | 5.0     |
| 14 E13903       | 75               | NR     | 60       | NR     | 3.3     | 4.3     |
| 15 E14077       | 8                | HR     | 78       | NR     | 3.8     | 4.8     |
| 16 E14141       | 71               | NR     | 68       | NR     | 3.0     | 4.8     |
| 17 E14143       | 88               | NR     | 76       | NR     | 2.8     | 4.3     |
| 18 E14148       | 4                | HR     | 64       | NR     | 1.5     | 4.8     |
| 19 E14208       | 82               | NR     | 49       | **     | 2.5     | 4.8     |
| 20 E14273       | 50               | **     | 73       | NR     | 4.3     | 5.0     |
| 21 E14309       | 72               | **     | 77       | NR     | 2.3     | 4.5     |
| 22 E14314       | 6                | HR     | 77       | NR     | 3.0     | 4.3     |
| 23 LD13-1429    | 5                | HR     | 46       | **     | 4.3     | 4.8     |
| 24 LD13-5120a   | 13               | R      | 63       | NR     | 3.8     | 5.0     |
| 25 LD13-5131a   | 9                | HR     | 61       | NR     | 1.5     | 4.5     |
| 26 LD13-5789    | 6                | HR     | 52       | LR     | 1.8     | 3.8     |
| 27 LD13-6640    | 9                | HR     | 81       | NR     | 2.5     | 4.3     |
| 28 LD13-6678    | 16               | R      | 74       | NR     | 3.0     | 5.0     |
| 29 MSC10-562070 | 4                | HR     | 28       | MR     | 4.0     | 4.5     |
| 30 MSC10-570022 | 71               | NR     | 73       | NR     | 3.0     | 4.8     |
| 31 ORC 0516N    | 16               | R      | 81       | **     | 3.3     | 4.5     |
| 32 ORC 0616N    | 12               | R      | 60       | **     | 2.5     | 4.5     |

\*\* rep data too variable to rate

Ave. 2.4 Ave. 4.5  
LSD 2.2 LSD 0.5

## 2016 SCN PRELIM TEST II

## 2016 Summary

| Entry                  | Yield       |           |          |      |              |      |          | Maturity<br>date | Lodging<br>score | Height<br>in. | Seed     |          |          |  |
|------------------------|-------------|-----------|----------|------|--------------|------|----------|------------------|------------------|---------------|----------|----------|----------|--|
|                        | All         |           | Infested |      | Non-infested |      | quality  |                  |                  |               | weight   | protein  | oil      |  |
|                        | bu/a        | rank      | bu/a     | rank | bu/a         | rank | score    |                  |                  |               | g/100    | @13%     | @13%     |  |
| Locations              | <b>10</b>   |           | <b>9</b> |      | <b>1</b>     |      | <b>6</b> | <b>9</b>         | <b>9</b>         | <b>8</b>      | <b>8</b> | <b>6</b> | <b>6</b> |  |
| <b>1 IA2102</b>        | <b>63.5</b> | <b>7</b>  | 62.1     | 7    | 76.5         | 8    | 9/24     | 2.6              | 39               | 1.6           | 16.6     | 33.9     | 18.8     |  |
| <b>2 IA1022 (SCN)</b>  | <b>51.8</b> | <b>29</b> | 50.2     | 29   | 67.0         | 23   | -4       | 2.4              | 35               | 1.4           | 15.2     | 32.2     | 20.0     |  |
| <b>3 LD02-4485</b>     | <b>65.3</b> | <b>5</b>  | 64.3     | 4    | 74.2         | 14   | 0        | 2.3              | 39               | 1.6           | 14.3     | 32.1     | 19.3     |  |
| <b>4 U11-920017</b>    | <b>58.2</b> | <b>16</b> | 55.7     | 19   | 80.5         | 2    | 2        | 2.0              | 36               | 1.8           | 16.8     | 31.7     | 19.7     |  |
| <b>5 AR15-158020</b>   | <b>60.7</b> | <b>11</b> | 59.6     | 10   | 70.2         | 18   | 3        | 2.8              | 44               | 1.7           | 15.7     | 34.5     | 18.8     |  |
| <b>6 AR15-258003</b>   | <b>60.3</b> | <b>12</b> | 58.8     | 13   | 73.6         | 16   | 3        | 2.4              | 41               | 1.6           | 15.5     | 34.2     | 18.5     |  |
| <b>7 AR15-258006</b>   | <b>59.4</b> | <b>14</b> | 58.9     | 12   | 64.4         | 27   | 2        | 2.7              | 46               | 1.6           | 16.2     | 35.0     | 18.4     |  |
| <b>8 AR15-258027</b>   | <b>63.8</b> | <b>6</b>  | 62.6     | 6    | 74.4         | 13   | 2        | 2.1              | 40               | 1.7           | 15.5     | 35.3     | 18.3     |  |
| <b>9 AR15-258048</b>   | <b>67.3</b> | <b>1</b>  | 66.2     | 1    | 76.5         | 8    | 1        | 2.4              | 41               | 1.6           | 15.6     | 32.7     | 20.0     |  |
| <b>10 AR15-258069</b>  | <b>58.2</b> | <b>17</b> | 57.3     | 15   | 65.7         | 25   | 2        | 2.0              | 42               | 1.6           | 16.9     | 35.9     | 18.2     |  |
| <b>11 AR15-258102</b>  | <b>57.1</b> | <b>19</b> | 55.9     | 18   | 67.8         | 20   | 2        | 2.2              | 36               | 2.0           | 16.2     | 34.6     | 19.0     |  |
| <b>12 E13901</b>       | <b>53.9</b> | <b>23</b> | 52.8     | 23   | 63.6         | 28   | 0        | 2.8              | 40               | 1.7           | 18.4     | 34.9     | 19.1     |  |
| <b>13 E13902</b>       | <b>55.3</b> | <b>22</b> | 54.7     | 21   | 60.1         | 29   | 1        | 1.6              | 36               | 1.8           | 17.8     | 35.0     | 18.6     |  |
| <b>14 E13903</b>       | <b>39.7</b> | <b>32</b> | 38.9     | 32   | 46.9         | 32   | -3       | 1.7              | 37               | 1.8           | 15.7     | 34.6     | 18.5     |  |
| <b>15 E14077</b>       | <b>62.6</b> | <b>9</b>  | 60.7     | 9    | 79.1         | 5    | 3        | 2.1              | 39               | 1.3           | 16.8     | 33.8     | 19.3     |  |
| <b>16 E14141</b>       | <b>52.8</b> | <b>26</b> | 51.1     | 26   | 67.8         | 21   | -4       | 2.0              | 36               | 1.3           | 16.0     | 34.9     | 18.7     |  |
| <b>17 E14143</b>       | <b>53.2</b> | <b>25</b> | 50.8     | 27   | 74.9         | 12   | -1       | 1.7              | 33               | 1.6           | 16.3     | 34.8     | 19.8     |  |
| <b>18 E14148</b>       | <b>61.4</b> | <b>10</b> | 59.3     | 11   | 80.1         | 3    | 2        | 2.7              | 40               | 1.5           | 15.3     | 34.0     | 19.3     |  |
| <b>19 E14208</b>       | <b>52.0</b> | <b>28</b> | 50.1     | 30   | 69.4         | 19   | 1        | 2.0              | 38               | 1.5           | 15.1     | 34.1     | 18.4     |  |
| <b>20 E14273</b>       | <b>53.8</b> | <b>24</b> | 52.4     | 24   | 66.2         | 24   | -5       | 1.9              | 35               | 1.5           | 19.4     | 35.5     | 18.7     |  |
| <b>21 E14309</b>       | <b>57.0</b> | <b>20</b> | 55.0     | 20   | 75.1         | 11   | 5        | 2.4              | 38               | 1.5           | 16.3     | 33.4     | 18.0     |  |
| <b>22 E14314</b>       | <b>58.1</b> | <b>18</b> | 56.7     | 17   | 70.6         | 17   | -2       | 2.4              | 37               | 1.6           | 17.3     | 33.0     | 19.8     |  |
| <b>23 LD13-1429</b>    | <b>67.3</b> | <b>1</b>  | 65.9     | 2    | 79.9         | 4    | 2        | 2.3              | 37               | 1.6           | 18.0     | 34.7     | 18.9     |  |
| <b>24 LD13-5120a</b>   | <b>59.0</b> | <b>15</b> | 57.1     | 16   | 75.3         | 10   | 3        | 2.3              | 37               | 1.4           | 15.1     | 33.0     | 18.9     |  |
| <b>25 LD13-5131a</b>   | <b>62.9</b> | <b>8</b>  | 61.2     | 8    | 78.5         | 7    | 0        | 2.2              | 38               | 1.6           | 15.7     | 33.7     | 18.7     |  |
| <b>26 LD13-5789</b>    | <b>60.1</b> | <b>13</b> | 58.5     | 14   | 74.1         | 15   | -1       | 1.9              | 41               | 1.3           | 15.6     | 34.2     | 18.6     |  |
| <b>27 LD13-6640</b>    | <b>66.2</b> | <b>3</b>  | 64.8     | 3    | 78.6         | 6    | 2        | 2.1              | 37               | 1.3           | 16.8     | 31.8     | 19.7     |  |
| <b>28 LD13-6678</b>    | <b>65.9</b> | <b>4</b>  | 64.0     | 5    | 83.2         | 1    | 2        | 2.3              | 37               | 1.6           | 17.3     | 33.9     | 19.1     |  |
| <b>29 MSC10-562070</b> | <b>55.4</b> | <b>21</b> | 54.1     | 22   | 67.6         | 22   | -6       | 3.4              | 38               | 1.4           | 15.8     | 35.7     | 19.0     |  |
| <b>30 MSC10-570022</b> | <b>51.0</b> | <b>31</b> | 49.5     | 31   | 64.7         | 26   | 3        | 1.9              | 37               | 1.5           | 16.4     | 34.4     | 19.1     |  |
| <b>31 ORC 0516N</b>    | <b>52.2</b> | <b>27</b> | 52.0     | 25   | 54.6         | 30   | -3       | 2.3              | 38               | 1.9           | 18.2     | 36.6     | 17.7     |  |
| <b>32 ORC 0616N</b>    | <b>51.1</b> | <b>30</b> | 50.7     | 28   | 54.1         | 31   | -3       | 2.3              | 36               | 2.2           | 20.1     | 36.8     | 17.7     |  |
| Mean                   | <b>58.0</b> |           | 56.6     |      | 70.5         |      | 23.9     | 2.3              | 38.3             | 1.6           | 16.5     | 34.2     | 18.9     |  |
| LSD(.05)               | <b>3.9</b>  |           | 4.3      |      | 7.1          |      | 1.8      | 0.3              | 1.8              |               |          |          |          |  |
| C.V. %                 | <b>10.8</b> |           | 11.4     |      | 4.9          |      | 10.3     | 19.8             | 7.2              |               |          |          |          |  |
| Replications           | <b>20</b>   |           | 18       |      | 2            |      | 13       | 17               | 17               |               |          |          |          |  |



## 2016 SCN PRELIM TEST II

## Yield (rank)

| SCN HG Type     | Boone         | Moorhead    | Urbana      | Decatur     | Fairfax       | Lamberton | Waseca      | Auburn      | Columbus | Pontiac  |
|-----------------|---------------|-------------|-------------|-------------|---------------|-----------|-------------|-------------|----------|----------|
|                 | IA<br>1.2.5.7 | IA<br>2.5.7 | IL<br>2.5.7 | MI<br>2.5.7 | MN<br>1.2.5.7 | MN<br>I   | MN<br>2.5.7 | NE<br>2.5.7 | NE<br>0  | IL<br>NI |
| Strain          |               |             |             |             |               |           |             |             |          |          |
| 1 IA2102        | 8             | 2           | 3           | 12          | 4             | 17        | 17          | 9           | 8        | 8        |
| 2 IA1022 (SCN)  | 14            | 29          | 27          | 32          | 11            | 13        | 10          | 30          | 29       | 23       |
| 3 LD02-4485     | 26            | 1           | 5           | 4           | 22            | 10        | 5           | 12          | 1        | 14       |
| 4 U11-920017    | 16            | 27          | 7           | 24          | 26            | 26        | 2           | 8           | 20       | 2        |
| 5 AR15-158020   | 12            | 26          | 10          | 10          | 7             | 5         | 15          | 5           | 23       | 18       |
| 6 AR15-258003   | 28            | 13          | 9           | 15          | 10            | 2         | 20          | 15          | 15       | 16       |
| 7 AR15-258006   | 28            | 21          | 20          | 9           | 13            | 11        | 11          | 3           | 19       | 27       |
| 8 AR15-258027   | 6             | 28          | 15          | 23          | 1             | 12        | 6           | 1           | 2        | 13       |
| 9 AR15-258048   | 2             | 3           | 11          | 1           | 5             | 8         | 9           | 12          | 3        | 8        |
| 10 AR15-258069  | 30            | 32          | 20          | 20          | 14            | 4         | 12          | 10          | 5        | 25       |
| 11 AR15-258102  | 19            | 30          | 17          | 17          | 25            | 16        | 8           | 14          | 13       | 20       |
| 12 E13901       | 13            | 5           | 23          | 28          | 16            | 25        | 31          | 27          | 25       | 28       |
| 13 E13902       | 3             | 9           | 26          | 18          | 28            | 21        | 16          | 25          | 14       | 29       |
| 14 E13903       | 32            | 31          | 32          | 31          | 32            | 31        | 32          | 32          | 32       | 32       |
| 15 E14077       | 6             | 18          | 4           | 22          | 2             | 3         | 3           | 13          | 16       | 5        |
| 16 E14141       | 10            | 25          | 16          | 26          | 30            | 20        | 30          | 18          | 28       | 20       |
| 17 E14143       | 11            | 18          | 24          | 27          | 29            | 32        | 13          | 19          | 26       | 12       |
| 18 E14148       | 22            | 8           | 8           | 3           | 24            | 19        | 23          | 7           | 12       | 3        |
| 19 E14208       | 31            | 22          | 19          | 29          | 20            | 30        | 25          | 23          | 30       | 19       |
| 20 E14273       | 27            | 17          | 25          | 21          | 19            | 28        | 19          | 22          | 24       | 24       |
| 21 E14309       | 1             | 12          | 12          | 16          | 27            | 18        | 28          | 28          | 21       | 11       |
| 22 E14314       | 17            | 11          | 13          | 8           | 15            | 14        | 24          | 17          | 31       | 17       |
| 23 LD13-1429    | 4             | 4           | 18          | 2           | 9             | 7         | 4           | 2           | 4        | 4        |
| 24 LD13-5120a   | 15            | 15          | 22          | 13          | 12            | 27        | 22          | 20          | 11       | 10       |
| 25 LD13-5131a   | 18            | 14          | 6           | 6           | 8             | 6         | 7           | 26          | 9        | 7        |
| 26 LD13-5789    | 23            | 7           | 14          | 14          | 18            | 15        | 26          | 22          | 7        | 15       |
| 27 LD13-6640    | 4             | 6           | 2           | 11          | 3             | 9         | 1           | 4           | 10       | 6        |
| 28 LD13-6678    | 24            | 9           | 1           | 7           | 6             | 1         | 21          | 6           | 6        | 1        |
| 29 MSC10-562070 | 9             | 20          | 31          | 5           | 21            | 24        | 14          | 29          | 17       | 22       |
| 30 MSC10-570022 | 20            | 24          | 30          | 30          | 31            | 23        | 29          | 16          | 27       | 26       |
| 31 ORC 0516N    | 24            | 15          | 29          | 19          | 23            | 29        | 27          | 24          | 18       | 30       |
| 32 ORC 0616N    | 21            | 23          | 28          | 25          | 17            | 22        | 18          | 31          | 22       | 31       |

2016 SCN PRELIM TEST II

Maturity

|                 | Boone   | Moorhead | Urbana | Decatur | Fairfax | Lamberton | Waseca | Auburn | Columbus | Pontiac |
|-----------------|---------|----------|--------|---------|---------|-----------|--------|--------|----------|---------|
|                 | IA      | IA       | IL     | MI      | MN      | MN        | MN     | NE     | NE       | IL      |
| SCN HG Type     | 1,2,5,7 | 2,5,7    | 2,5,7  | 2,5,7   | 1,2,5,7 | I         | 2,5,7  | 2,5,7  | 0        | NI      |
| Strain          |         |          |        |         |         |           |        |        |          |         |
| 1 IA2102        | 9/24    |          | 9/12   |         | 10/2    | 10/6      | 9/28   |        | 9/19     | 9/14    |
| 2 IA1022 (SCN)  | -4      |          | -7     |         | -2      | -9        | -3     |        | -3       | -4      |
| 3 LD02-4485     | 1       |          | 0      |         | -1      | 1         | 1      |        | 1        | 0       |
| 4 U11-920017    | 0       |          | 3      |         | 2       | 2         | 6      |        | 0        | 4       |
| 5 AR15-158020   | 6       |          | 5      |         | 0       | 2         | 7      |        | 1        | 3       |
| 6 AR15-258003   | 3       |          | 3      |         | 2       | 2         | 6      |        | -1       | 5       |
| 7 AR15-258006   | 8       |          | 4      |         | 2       | 4         | 8      |        | 2        | 5       |
| 8 AR15-258027   | 4       |          | 1      |         | 0       | 1         | 6      |        | 0        | 3       |
| 9 AR15-258048   | 2       |          | -1     |         | 2       | -5        | 5      |        | 0        | 1       |
| 10 AR15-258069  | 4       |          | -1     |         | 2       | 2         | 6      |        | 1        | 2       |
| 11 AR15-258102  | 4       |          | 2      |         | 3       | 1         | 5      |        | -1       | 2       |
| 12 E13901       | 3       |          | 0      |         | 2       | -4        | -1     |        | 0        | 0       |
| 13 E13902       | 4       |          | 1      |         | 2       | 1         | 3      |        | 1        | -2      |
| 14 E13903       | 1       |          | -6     |         | -2      | -5        | 0      |        | -3       | -3      |
| 15 E14077       | 7       |          | 2      |         | 1       | -1        | 7      |        | 0        | 4       |
| 16 E14141       | -3      |          | -3     |         | -2      | -7        | -3     |        | -4       | -2      |
| 17 E14143       | 2       |          | 0      |         | -2      | -4        | -1     |        | -4       | 0       |
| 18 E14148       | 0       |          | 2      |         | 2       | 0         | 6      |        | 0        | 5       |
| 19 E14208       | 5       |          | 2      |         | 1       | -1        | 0      |        | -1       | 3       |
| 20 E14273       | -8      |          | -6     |         | -4      | -8        | -3     |        | -4       | -3      |
| 21 E14309       | 13      |          | 6      |         | 3       | 3         | 6      |        | 1        | 7       |
| 22 E14314       | -1      |          | 0      |         | -2      | -5        | 0      |        | -3       | 0       |
| 23 LD13-1429    | 3       |          | 2      |         | 2       | -1        | 6      |        | 2        | 2       |
| 24 LD13-5120a   | 3       |          | 2      |         | 2       | 3         | 4      |        | 1        | 4       |
| 25 LD13-5131a   | 4       |          | -1     |         | 0       | -4        | 1      |        | 1        | 2       |
| 26 LD13-5789    | -1      |          | -2     |         | 0       | -6        | 0      |        | 1        | -2      |
| 27 LD13-6640    | 3       |          | 1      |         | 3       | -1        | 4      |        | 0        | 2       |
| 28 LD13-6678    | 4       |          | 1      |         | 3       | 2         | 3      |        | 1        | 2       |
| 29 MSC10-562070 | -6      |          | -7     |         | -4      | -8        | -3     |        | -6       | -6      |
| 30 MSC10-570022 | 4       |          | 3      |         | 2       | 3         | 5      |        | 2        | 4       |
| 31 ORC 0516N    | -1      |          | -3     |         | -1      | -6        | -1     |        | -7       | -2      |
| 32 ORC 0616N    | -1      |          | -4     |         | -1      | -7        | -1     |        | -3       | -3      |
| Planted         | 5/17    | 5/16     | 5/21   | 5/23    | 5/26    | 5/18      | 5/18   | 6/2    | 5/19     | 5/20    |

## 2016 SCN PRELIM TEST II

## Lodging (score)

|                        | Boone   | Moorhead | Urbana | Decatur | Fairfax | Lamberton | Waseca | Auburn | Columbus | Pontiac |
|------------------------|---------|----------|--------|---------|---------|-----------|--------|--------|----------|---------|
|                        | IA      | IA       | IL     | MI      | MN      | MN        | MN     | NE     | NE       | IL      |
| SCN HG Type            | 1.2.5.7 | 2.5.7    | 2.5.7  | 2.5.7   | 1.2.5.7 | I         | 2.5.7  | 2.5.7  | 0        | NI      |
| Strain                 |         |          |        |         |         |           |        |        |          |         |
| <b>1 IA2102</b>        | 3.0     | 3.8      | 3.0    | 1.0     | 1.0     | 2.5       | 3.0    |        | 3.0      | 3.5     |
| <b>2 IA1022 (SCN)</b>  | 2.8     | 3.5      | 3.3    | 1.0     | 2.0     | 2.5       | 3.0    |        | 1.0      | 3.0     |
| <b>3 LD02-4485</b>     | 2.8     | 3.0      | 2.3    | 1.0     | 1.0     | 2.5       | 3.0    |        | 2.0      | 3.0     |
| <b>4 U11-920017</b>    | 2.0     | 2.8      | 2.5    | 1.0     | 1.0     | 2.5       | 2.5    |        | 1.0      | 2.8     |
| <b>5 AR15-158020</b>   | 3.5     | 4.0      | 3.0    | 1.5     | 1.0     | 2.0       | 4.0    |        | 3.0      | 3.5     |
| <b>6 AR15-258003</b>   | 2.3     | 3.8      | 2.8    | 1.0     | 2.0     | 2.0       | 3.0    |        | 1.5      | 3.3     |
| <b>7 AR15-258006</b>   | 3.0     | 3.3      | 3.3    | 1.5     | 1.0     | 3.0       | 3.5    |        | 3.0      | 2.8     |
| <b>8 AR15-258027</b>   | 2.0     | 3.3      | 1.8    | 1.0     | 2.0     | 2.0       | 2.5    |        | 2.0      | 2.3     |
| <b>9 AR15-258048</b>   | 2.5     | 4.3      | 2.0    | 1.0     | 1.0     | 2.0       | 3.0    |        | 3.0      | 2.5     |
| <b>10 AR15-258069</b>  | 2.3     | 4.0      | 2.0    | 1.0     | 1.0     | 2.0       | 2.5    |        | 1.0      | 2.5     |
| <b>11 AR15-258102</b>  | 2.5     | 3.8      | 2.5    | 1.0     | 1.0     | 2.0       | 2.5    |        | 2.0      | 2.8     |
| <b>12 E13901</b>       | 3.5     | 3.5      | 3.0    | 1.0     | 2.0     | 3.0       | 3.5    |        | 3.0      | 2.8     |
| <b>13 E13902</b>       | 2.0     | 2.8      | 1.3    | 1.0     | 1.0     | 1.5       | 2.0    |        | 1.5      | 1.5     |
| <b>14 E13903</b>       | 2.0     | 2.5      | 1.5    | 1.0     | 1.0     | 2.0       | 2.0    |        | 1.0      | 2.0     |
| <b>15 E14077</b>       | 2.3     | 3.5      | 2.0    | 1.0     | 1.0     | 2.0       | 2.5    |        | 2.0      | 2.5     |
| <b>16 E14141</b>       | 2.5     | 3.0      | 2.5    | 1.0     | 1.0     | 2.0       | 2.0    |        | 1.5      | 2.8     |
| <b>17 E14143</b>       | 2.0     | 2.8      | 2.0    | 1.0     | 1.0     | 1.0       | 2.5    |        | 1.0      | 2.0     |
| <b>18 E14148</b>       | 2.5     | 4.3      | 3.0    | 2.0     | 1.0     | 2.5       | 3.0    |        | 2.5      | 3.3     |
| <b>19 E14208</b>       | 2.3     | 2.8      | 2.3    | 1.0     | 3.0     | 2.0       | 2.0    |        | 1.5      | 1.5     |
| <b>20 E14273</b>       | 2.3     | 2.5      | 1.8    | 1.0     | 1.0     | 2.0       | 3.0    |        | 1.0      | 2.5     |
| <b>21 E14309</b>       | 2.8     | 3.5      | 2.3    | 1.5     | 1.0     | 2.5       | 3.5    |        | 2.0      | 2.8     |
| <b>22 E14314</b>       | 2.5     | 3.8      | 2.8    | 1.0     | 2.0     | 2.0       | 3.0    |        | 1.5      | 3.0     |
| <b>23 LD13-1429</b>    | 2.3     | 3.5      | 2.3    | 1.0     | 2.0     | 2.5       | 3.0    |        | 2.5      | 2.0     |
| <b>24 LD13-5120a</b>   | 2.8     | 3.3      | 2.3    | 1.0     | 2.0     | 3.0       | 2.5    |        | 1.5      | 2.3     |
| <b>25 LD13-5131a</b>   | 2.3     | 3.5      | 2.3    | 1.0     | 1.0     | 2.0       | 2.5    |        | 3.0      | 2.0     |
| <b>26 LD13-5789</b>    | 2.5     | 3.0      | 2.3    | 1.0     | 1.0     | 2.0       | 2.5    |        | 1.0      | 2.0     |
| <b>27 LD13-6640</b>    | 2.3     | 3.5      | 2.0    | 1.0     | 1.0     | 2.5       | 3.0    |        | 1.5      | 2.5     |
| <b>28 LD13-6678</b>    | 2.3     | 3.5      | 2.3    | 1.0     | 2.0     | 2.5       | 3.0    |        | 2.0      | 2.0     |
| <b>29 MSC10-562070</b> | 4.0     | 4.3      | 4.0    | 1.0     | 3.0     | 3.0       | 4.0    |        | 3.5      | 4.0     |
| <b>30 MSC10-570022</b> | 2.0     | 2.5      | 1.8    | 1.0     | 1.0     | 2.5       | 3.0    |        | 1.0      | 2.0     |
| <b>31 ORC 0516N</b>    | 3.0     | 3.0      | 2.8    | 1.0     | 1.0     | 2.5       | 2.5    |        | 2.0      | 2.8     |
| <b>32 ORC 0616N</b>    | 3.0     | 4.3      | 2.8    | 1.0     | 1.0     | 2.5       | 2.5    |        | 1.5      | 2.5     |

## 2016 SCN PRELIM TEST II

## Height (inches)

|                        | Boone   | Moorhead | Urbana | Decatur | Fairfax | Lamberton | Waseca | Auburn | Columbus | Pontiac |
|------------------------|---------|----------|--------|---------|---------|-----------|--------|--------|----------|---------|
|                        | IA      | IA       | IL     | MI      | MN      | MN        | MN     | NE     | NE       | IL      |
| SCN HG Type            | 1.2.5.7 | 2.5.7    | 2.5.7  | 2.5.7   | 1.2.5.7 | I         | 2.5.7  | 2.5.7  | 0        | NI      |
| Strain                 |         |          |        |         |         |           |        |        |          |         |
| <b>1 IA2102</b>        | 42      | 47       | 41     | 32      | 36      | 38        | 39     |        | 33       | 42      |
| <b>2 IA1022 (SCN)</b>  | 38      | 42       | 38     | 20      | 35      | 37        | 37     |        | 29       | 41      |
| <b>3 LD02-4485</b>     | 43      | 47       | 39     | 33      | 37      | 41        | 40     |        | 35       | 41      |
| <b>4 U11-920017</b>    | 41      | 45       | 41     | 27      | 32      | 38        | 38     |        | 29       | 38      |
| <b>5 AR15-158020</b>   | 50      | 54       | 44     | 37      | 46      | 43        | 49     |        | 39       | 40      |
| <b>6 AR15-258003</b>   | 48      | 52       | 44     | 32      | 41      | 41        | 40     |        | 32       | 43      |
| <b>7 AR15-258006</b>   | 50      | 56       | 44     | 39      | 50      | 47        | 47     |        | 34       | 51      |
| <b>8 AR15-258027</b>   | 40      | 47       | 42     | 30      | 39      | 42        | 41     |        | 36       | 42      |
| <b>9 AR15-258048</b>   | 46      | 50       | 42     | 36      | 39      | 40        | 46     |        | 35       | 37      |
| <b>10 AR15-258069</b>  | 49      | 52       | 43     | 27      | 40      | 42        | 44     |        | 37       | 45      |
| <b>11 AR15-258102</b>  | 40      | 44       | 37     | 27      | 34      | 35        | 39     |        | 31       | 37      |
| <b>12 E13901</b>       | 46      | 48       | 41     | 27      | 38      | 43        | 43     |        | 33       | 40      |
| <b>13 E13902</b>       | 37      | 45       | 38     | 28      | 34      | 34        | 38     |        | 31       | 37      |
| <b>14 E13903</b>       | 36      | 47       | 40     | 28      | 33      | 40        | 41     |        | 27       | 40      |
| <b>15 E14077</b>       | 43      | 48       | 42     | 29      | 38      | 37        | 44     |        | 34       | 41      |
| <b>16 E14141</b>       | 39      | 42       | 41     | 27      | 35      | 37        | 39     |        | 26       | 40      |
| <b>17 E14143</b>       | 35      | 42       | 39     | 23      | 34      | 30        | 36     |        | 26       | 37      |
| <b>18 E14148</b>       | 44      | 48       | 44     | 36      | 37      | 36        | 46     |        | 34       | 41      |
| <b>19 E14208</b>       | 43      | 46       | 36     | 29      | 38      | 37        | 40     |        | 31       | 40      |
| <b>20 E14273</b>       | 39      | 45       | 37     | 27      | 32      | 33        | 40     |        | 29       | 36      |
| <b>21 E14309</b>       | 44      | 42       | 39     | 29      | 33      | 43        | 41     |        | 32       | 39      |
| <b>22 E14314</b>       | 37      | 48       | 38     | 30      | 36      | 40        | 40     |        | 30       | 40      |
| <b>23 LD13-1429</b>    | 42      | 47       | 38     | 29      | 34      | 42        | 39     |        | 30       | 36      |
| <b>24 LD13-5120a</b>   | 41      | 44       | 41     | 31      | 36      | 33        | 39     |        | 34       | 40      |
| <b>25 LD13-5131a</b>   | 42      | 47       | 39     | 32      | 35      | 40        | 40     |        | 31       | 40      |
| <b>26 LD13-5789</b>    | 45      | 51       | 43     | 35      | 35      | 39        | 45     |        | 33       | 43      |
| <b>27 LD13-6640</b>    | 41      | 44       | 42     | 28      | 36      | 38        | 41     |        | 29       | 40      |
| <b>28 LD13-6678</b>    | 38      | 45       | 38     | 29      | 35      | 38        | 41     |        | 32       | 37      |
| <b>29 MSC10-562070</b> | 39      | 45       | 43     | 35      | 37      | 40        | 38     |        | 28       | 42      |
| <b>30 MSC10-570022</b> | 44      | 48       | 38     | 27      | 36      | 41        | 37     |        | 25       | 40      |
| <b>31 ORC 0516N</b>    | 42      | 47       | 38     | 31      | 39      | 40        | 40     |        | 32       | 40      |
| <b>32 ORC 0616N</b>    | 41      | 42       | 36     | 28      | 33      | 37        | 38     |        | 32       | 37      |



## 2016 SCN PRELIM TEST II

## Seed Quality (score)

| SCN HG Type     | Boone         | Moorhead    | Urbana      | Decatur     | Fairfax       | Lamberton | Waseca      | Auburn      | Columbus | Pontiac  |
|-----------------|---------------|-------------|-------------|-------------|---------------|-----------|-------------|-------------|----------|----------|
|                 | IA<br>1.2.5.7 | IA<br>2.5.7 | IL<br>2.5.7 | MI<br>2.5.7 | MN<br>1.2.5.7 | MN<br>I   | MN<br>2.5.7 | NE<br>2.5.7 | NE<br>0  | IL<br>NI |
| Strain          |               |             |             |             |               |           |             |             |          |          |
| 1 IA2102        | 2.0           |             | 2.0         |             | 1.5           | 1.5       | 1.0         | 2.0         | 1.0      | 2.0      |
| 2 IA1022 (SCN)  | 1.0           |             | 2.0         |             | 1.5           | 1.5       | 1.5         | 1.0         | 1.0      | 2.0      |
| 3 LD02-4485     | 1.0           |             | 2.0         |             | 1.0           | 1.5       | 1.5         | 2.0         | 2.0      | 2.0      |
| 4 U11-920017    | 2.0           |             | 3.0         |             | 1.0           | 2.5       | 1.5         | 1.0         | 1.0      | 2.0      |
| 5 AR15-158020   | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 2.0         | 2.0         | 1.0      | 2.0      |
| 6 AR15-258003   | 1.0           |             | 2.0         |             | 1.5           | 1.0       | 1.5         | 2.0         | 2.0      | 2.0      |
| 7 AR15-258006   | 2.0           |             | 2.0         |             | 1.5           | 1.5       | 2.0         | 2.0         | 1.0      | 1.0      |
| 8 AR15-258027   | 2.0           |             | 1.0         |             | 1.5           | 1.5       | 1.5         | 2.0         | 2.0      | 2.0      |
| 9 AR15-258048   | 1.0           |             | 2.0         |             | 1.0           | 1.5       | 2.0         | 1.0         | 2.0      | 2.0      |
| 10 AR15-258069  | 1.0           |             | 3.0         |             | 1.5           | 1.5       | 1.0         | 2.0         | 1.0      | 2.0      |
| 11 AR15-258102  | 2.0           |             | 3.0         |             | 1.5           | 1.5       | 2.0         | 2.0         | 2.0      | 2.0      |
| 12 E13901       | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 2.0         | 2.0         | 1.0      | 2.0      |
| 13 E13902       | 2.0           |             | 2.0         |             | 1.5           | 1.5       | 1.5         | 2.0         | 2.0      | 2.0      |
| 14 E13903       | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 1.5         | 2.0         | 2.0      | 2.0      |
| 15 E14077       | 2.0           |             | 1.0         |             | 1.0           | 1.0       | 1.5         | 2.0         | 1.0      | 1.0      |
| 16 E14141       | 1.0           |             | 1.0         |             | 1.5           | 1.0       | 1.5         | 1.0         | 1.0      | 2.0      |
| 17 E14143       | 2.0           |             | 2.0         |             | 1.0           | 2.0       | 1.5         | 1.0         | 1.0      | 2.0      |
| 18 E14148       | 2.0           |             | 2.0         |             | 1.0           | 1.0       | 2.0         | 1.0         | 1.0      | 2.0      |
| 19 E14208       | 1.0           |             | 2.0         |             | 1.5           | 1.5       | 2.0         | 1.0         | 1.0      | 2.0      |
| 20 E14273       | 1.0           |             | 2.0         |             | 1.0           | 1.5       | 1.5         | 2.0         | 1.0      | 2.0      |
| 21 E14309       | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 1.5         | 1.0         | 1.0      | 2.0      |
| 22 E14314       | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 1.0         | 1.0         | 2.0      | 2.0      |
| 23 LD13-1429    | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 1.0         | 2.0         | 1.0      | 2.0      |
| 24 LD13-5120a   | 1.0           |             | 2.0         |             | 1.0           | 2.0       | 1.0         | 1.0         | 1.0      | 2.0      |
| 25 LD13-5131a   | 1.0           |             | 2.0         |             | 1.5           | 3.0       | 1.5         | 1.0         | 1.0      | 2.0      |
| 26 LD13-5789    | 1.0           |             | 2.0         |             | 1.0           | 1.0       | 1.5         | 1.0         | 1.0      | 2.0      |
| 27 LD13-6640    | 1.0           |             | 1.0         |             | 1.0           | 1.5       | 1.5         | 1.0         | 1.0      | 2.0      |
| 28 LD13-6678    | 2.0           |             | 2.0         |             | 1.0           | 1.5       | 1.0         | 2.0         | 1.0      | 2.0      |
| 29 MSC10-562070 | 1.0           |             | 2.0         |             | 1.0           | 1.0       | 1.5         | 2.0         | 1.0      | 2.0      |
| 30 MSC10-570022 | 1.0           |             | 2.0         |             | 1.0           | 1.5       | 1.5         | 2.0         | 1.0      | 2.0      |
| 31 ORC 0516N    | 1.0           |             | 3.0         |             | 2.0           | 2.0       | 2.5         | 1.0         | 2.0      | 2.0      |
| 32 ORC 0616N    | 2.0           |             | 3.0         |             | 2.0           | 2.5       | 2.0         | 2.0         | 1.0      | 3.0      |

## 2016 SCN PRELIM TEST II

## Seed Weight (g/100)

| SCN HG Type     | Boone         | Moorhead    | Urbana      | Decatur     | Fairfax       | Lamberton | Waseca      | Auburn      | Columbus | Pontiac  |
|-----------------|---------------|-------------|-------------|-------------|---------------|-----------|-------------|-------------|----------|----------|
|                 | IA<br>1.2.5.7 | IA<br>2.5.7 | IL<br>2.5.7 | MI<br>2.5.7 | MN<br>1.2.5.7 | MN<br>I   | MN<br>2.5.7 | NE<br>2.5.7 | NE<br>0  | IL<br>NI |
| Strain          |               |             |             |             |               |           |             |             |          |          |
| 1 IA2102        | 15.4          |             | 16.9        |             | 17.2          | 17.9      | 16.1        | 16.8        | 15.0     | 17.1     |
| 2 IA1022 (SCN)  | 13.1          |             | 15.0        |             | 17.1          | 16.9      | 14.6        | 15.0        | 15.2     | 15.1     |
| 3 LD02-4485     | 12.6          |             | 13.7        |             | 15.0          | 16.2      | 15.7        | 14.1        | 14.0     | 13.5     |
| 4 U11-920017    | 15.2          |             | 16.3        |             | 16.8          | 17.9      | 18.9        | 17.3        | 15.2     | 17.2     |
| 5 AR15-158020   | 14.9          |             | 15.6        |             | 16.5          | 16.2      | 17.4        | 15.7        | 14.5     | 15.1     |
| 6 AR15-258003   | 15.8          |             | 15.3        |             | 16.1          | 15.5      | 17.1        | 15.4        | 13.3     | 15.5     |
| 7 AR15-258006   | 15.2          |             | 15.9        |             | 16.7          | 17.7      | 18.5        | 17.0        | 13.8     | 15.2     |
| 8 AR15-258027   | 14.1          |             | 14.3        |             | 16.7          | 17.1      | 16.8        | 15.3        | 14.3     | 15.6     |
| 9 AR15-258048   | 14.5          |             | 15.1        |             | 17.1          | 16.5      | 16.9        | 15.0        | 14.8     | 15.1     |
| 10 AR15-258069  | 15.9          |             | 16.8        |             | 17.7          | 18.0      | 17.8        | 17.1        | 15.5     | 16.6     |
| 11 AR15-258102  | 15.6          |             | 16.5        |             | 15.7          | 17.5      | 17.2        | 16.4        | 14.9     | 15.9     |
| 12 E13901       | 18.3          |             | 17.1        |             | 18.9          | 18.8      | 18.0        | 18.5        | 19.3     | 18.0     |
| 13 E13902       | 18.2          |             | 17.0        |             | 19.2          | 18.2      | 18.1        | 16.6        | 17.8     | 17.0     |
| 14 E13903       | 14.8          |             | 14.8        |             | 15.9          | 18.3      | 16.3        | 15.7        | 15.1     | 15.0     |
| 15 E14077       | 15.8          |             | 16.6        |             | 18.6          | 17.4      | 18.1        | 16.4        | 15.2     | 16.2     |
| 16 E14141       | 15.4          |             | 16.7        |             | 17.2          | 16.9      | 15.0        | 16.3        | 13.9     | 16.9     |
| 17 E14143       | 16.1          |             | 16.4        |             | 16.7          | 16.7      | 16.7        | 16.1        | 15.0     | 16.9     |
| 18 E14148       | 14.1          |             | 14.9        |             | 16.6          | 16.3      | 16.3        | 15.1        | 13.9     | 14.9     |
| 19 E14208       | 15.0          |             | 14.6        |             | 16.4          | 15.9      | 14.6        | 14.7        | 14.5     | 15.5     |
| 20 E14273       | 19.0          |             | 18.8        |             | 20.1          | 19.8      | 20.1        | 19.5        | 18.8     | 19.4     |
| 21 E14309       | 15.7          |             | 16.5        |             | 16.8          | 19.3      | 15.5        | 15.7        | 14.3     | 16.4     |
| 22 E14314       | 16.8          |             | 18.7        |             | 18.9          | 18.2      | 17.0        | 16.1        | 15.3     | 17.5     |
| 23 LD13-1429    | 16.9          |             | 17.7        |             | 19.6          | 18.1      | 19.8        | 17.3        | 17.4     | 17.4     |
| 24 LD13-5120a   | 14.6          |             | 15.3        |             | 16.8          | 16.6      | 15.0        | 13.6        | 14.0     | 14.9     |
| 25 LD13-5131a   | 14.6          |             | 15.1        |             | 17.3          | 17.9      | 17.0        | 14.6        | 14.9     | 14.5     |
| 26 LD13-5789    | 14.7          |             | 15.4        |             | 16.2          | 17.1      | 15.6        | 15.0        | 15.3     | 15.5     |
| 27 LD13-6640    | 15.1          |             | 16.5        |             | 17.5          | 18.9      | 18.6        | 16.1        | 14.9     | 16.9     |
| 28 LD13-6678    | 15.2          |             | 17.4        |             | 18.4          | 18.5      | 18.7        | 16.8        | 16.8     | 17.0     |
| 29 MSC10-562070 | 16.5          |             | 15.0        |             | 18.2          | 16.6      | 15.2        | 14.8        | 15.6     | 14.5     |
| 30 MSC10-570022 | 14.7          |             | 16.1        |             | 17.6          | 17.7      | 17.1        | 16.4        | 15.9     | 15.4     |
| 31 ORC 0516N    | 17.0          |             | 17.9        |             | 20.4          | 18.0      | 19.7        | 17.0        | 18.5     | 17.1     |
| 32 ORC 0616N    | 18.0          |             | 20.5        |             | 22.5          | 20.6      | 21.1        | 18.5        | 20.0     | 20.0     |

## 2016 SCN PRELIM TEST II

## Protein (%)

|                 | Boone   | Moorhead | Urbana | Decatur | Fairfax | Lamberton | Waseca | Auburn | Columbus | Pontiac |
|-----------------|---------|----------|--------|---------|---------|-----------|--------|--------|----------|---------|
|                 | IA      | IA       | IL     | MI      | MN      | MN        | MN     | NE     | NE       | IL      |
| SCN HG Type     | 1.2.5.7 | 2.5.7    | 2.5.7  | 2.5.7   | 1.2.5.7 | I         | 2.5.7  | 2.5.7  | 0        | NI      |
| Strain          |         |          |        |         |         |           |        |        |          |         |
| 1 IA2102        | 33.0    |          |        |         | 34.9    | 35.4      | 31.9   | 33.5   | 34.7     |         |
| 2 IA1022 (SCN)  | 30.3    |          |        |         | 33.5    | 33.2      | 31.5   | 31.1   | 33.5     |         |
| 3 LD02-4485     | 29.5    |          |        |         | 33.0    | 33.3      | 32.6   | 30.9   | 33.3     |         |
| 4 U11-920017    | 29.2    |          |        |         | 32.4    | 32.8      | 32.3   | 31.9   | 31.4     |         |
| 5 AR15-158020   | 35.5    |          |        |         | 34.6    | 35.1      | 34.5   | 32.9   | 34.6     |         |
| 6 AR15-258003   | 34.6    |          |        |         | 34.2    | 34.9      | 34.5   | 33.5   | 33.6     |         |
| 7 AR15-258006   | 33.9    |          |        |         | 35.3    | 36.6      | 34.5   | 33.9   | 35.6     |         |
| 8 AR15-258027   | 33.3    |          |        |         | 35.0    | 36.8      | 35.0   | 36.7   | 35.0     |         |
| 9 AR15-258048   | 32.0    |          |        |         | 33.0    | 34.1      | 32.1   | 31.8   | 33.2     |         |
| 10 AR15-258069  | 35.1    |          |        |         | 36.1    | 37.3      | 35.9   | 35.4   | 35.8     |         |
| 11 AR15-258102  | 34.3    |          |        |         | 34.7    | 35.3      | 35.4   | 33.0   | 34.7     |         |
| 12 E13901       | 35.8    |          |        |         | 35.0    | 36.0      | 34.5   | 34.1   | 34.2     |         |
| 13 E13902       | 34.9    |          |        |         | 34.7    | 35.2      | 35.3   | 34.7   | 35.2     |         |
| 14 E13903       | 34.6    |          |        |         | 35.4    | 35.5      | 35.5   | 33.1   | 33.8     |         |
| 15 E14077       | 33.3    |          |        |         | 34.5    | 35.2      | 33.3   | 32.0   | 34.4     |         |
| 16 E14141       | 34.5    |          |        |         | 36.8    | 36.3      | 33.8   | 33.6   | 34.6     |         |
| 17 E14143       | 34.4    |          |        |         | 35.5    | 36.3      | 33.7   | 33.9   | 34.8     |         |
| 18 E14148       | 33.4    |          |        |         | 35.4    | 35.2      | 33.5   | 32.5   | 33.7     |         |
| 19 E14208       | 32.8    |          |        |         | 35.4    | 34.8      | 34.1   | 32.5   | 35.0     |         |
| 20 E14273       | 33.5    |          |        |         | 36.4    | 37.2      | 36.2   | 34.3   | 35.4     |         |
| 21 E14309       | 32.1    |          |        |         | 34.6    | 34.9      | 33.5   | 31.7   | 33.8     |         |
| 22 E14314       | 30.6    |          |        |         | 33.6    | 34.0      | 33.6   | 31.7   | 34.5     |         |
| 23 LD13-1429    | 33.5    |          |        |         | 35.2    | 36.1      | 34.2   | 33.9   | 35.2     |         |
| 24 LD13-5120a   | 32.4    |          |        |         | 33.4    | 34.3      | 33.6   | 32.0   | 32.7     |         |
| 25 LD13-5131a   | 33.3    |          |        |         | 34.4    | 35.1      | 32.7   | 33.0   | 33.7     |         |
| 26 LD13-5789    | 33.6    |          |        |         | 35.6    | 34.9      | 34.5   | 31.9   | 34.5     |         |
| 27 LD13-6640    | 30.1    |          |        |         | 32.9    | 32.0      | 32.1   | 32.0   | 31.9     |         |
| 28 LD13-6678    | 33.3    |          |        |         | 35.3    | 35.0      | 34.3   | 32.5   | 33.0     |         |
| 29 MSC10-562070 | 34.3    |          |        |         | 36.3    | 36.8      | 35.8   | 34.8   | 36.0     |         |
| 30 MSC10-570022 | 32.2    |          |        |         | 35.5    | 35.3      | 34.6   | 32.8   | 36.1     |         |
| 31 ORC 0516N    | 37.5    |          |        |         | 37.4    | 37.7      | 35.4   | 35.4   | 36.3     |         |
| 32 ORC 0616N    | 37.2    |          |        |         | 38.0    | 37.5      | 36.5   | 34.7   | 36.7     |         |

## 2016 SCN PRELIM TEST II

## Oil (%)

|                        | Boone   | Moorhead | Urbana | Decatur | Fairfax | Lamberton | Waseca | Auburn | Columbus | Pontiac |
|------------------------|---------|----------|--------|---------|---------|-----------|--------|--------|----------|---------|
|                        | IA      | IA       | IL     | MI      | MN      | MN        | MN     | NE     | NE       | IL      |
| SCN HG Type            | 1,2,5,7 | 2,5,7    | 2,5,7  | 2,5,7   | 1,2,5,7 | I         | 2,5,7  | 2,5,7  | 0        | NI      |
| Strain                 |         |          |        |         |         |           |        |        |          |         |
| <b>1 IA2102</b>        | 17.5    |          |        |         | 18.5    | 18.2      | 20.2   | 19.3   | 18.9     |         |
| <b>2 IA1022 (SCN)</b>  | 18.8    |          |        |         | 20.4    | 18.9      | 19.8   | 21.7   | 20.5     |         |
| <b>3 LD02-4485</b>     | 18.6    |          |        |         | 19.2    | 17.9      | 20.2   | 20.4   | 19.4     |         |
| <b>4 U11-920017</b>    | 19.5    |          |        |         | 19.0    | 18.6      | 19.9   | 20.7   | 20.7     |         |
| <b>5 AR15-158020</b>   | 16.4    |          |        |         | 18.9    | 17.7      | 19.3   | 20.6   | 19.7     |         |
| <b>6 AR15-258003</b>   | 15.7    |          |        |         | 18.8    | 17.1      | 19.3   | 19.7   | 20.3     |         |
| <b>7 AR15-258006</b>   | 16.7    |          |        |         | 17.6    | 17.0      | 20.1   | 20.0   | 18.7     |         |
| <b>8 AR15-258027</b>   | 17.3    |          |        |         | 19.4    | 17.3      | 18.1   | 18.4   | 19.4     |         |
| <b>9 AR15-258048</b>   | 17.8    |          |        |         | 20.1    | 19.6      | 20.4   | 21.1   | 20.8     |         |
| <b>10 AR15-258069</b>  | 16.8    |          |        |         | 18.4    | 17.0      | 19.1   | 19.2   | 18.9     |         |
| <b>11 AR15-258102</b>  | 17.8    |          |        |         | 18.3    | 18.0      | 19.5   | 20.5   | 20.1     |         |
| <b>12 E13901</b>       | 17.2    |          |        |         | 19.1    | 18.0      | 20.3   | 19.9   | 20.2     |         |
| <b>13 E13902</b>       | 16.7    |          |        |         | 18.9    | 17.9      | 19.8   | 18.9   | 19.5     |         |
| <b>14 E13903</b>       | 16.4    |          |        |         | 18.6    | 18.0      | 18.9   | 19.5   | 19.4     |         |
| <b>15 E14077</b>       | 18.4    |          |        |         | 19.0    | 17.8      | 20.3   | 20.8   | 19.6     |         |
| <b>16 E14141</b>       | 16.5    |          |        |         | 18.4    | 18.1      | 19.4   | 20.3   | 19.7     |         |
| <b>17 E14143</b>       | 18.4    |          |        |         | 19.6    | 18.2      | 21.0   | 20.5   | 21.0     |         |
| <b>18 E14148</b>       | 17.6    |          |        |         | 19.0    | 18.2      | 20.4   | 19.9   | 20.4     |         |
| <b>19 E14208</b>       | 17.4    |          |        |         | 18.4    | 17.9      | 18.5   | 19.7   | 18.7     |         |
| <b>20 E14273</b>       | 18.5    |          |        |         | 18.1    | 17.1      | 19.2   | 20.5   | 18.9     |         |
| <b>21 E14309</b>       | 15.7    |          |        |         | 18.0    | 16.6      | 19.5   | 19.6   | 18.5     |         |
| <b>22 E14314</b>       | 19.2    |          |        |         | 20.6    | 18.5      | 20.9   | 20.7   | 19.1     |         |
| <b>23 LD13-1429</b>    | 17.1    |          |        |         | 19.1    | 18.1      | 19.4   | 20.0   | 19.6     |         |
| <b>24 LD13-5120a</b>   | 16.7    |          |        |         | 19.1    | 18.2      | 19.4   | 19.9   | 19.8     |         |
| <b>25 LD13-5131a</b>   | 16.4    |          |        |         | 19.0    | 17.6      | 19.3   | 19.8   | 20.0     |         |
| <b>26 LD13-5789</b>    | 16.5    |          |        |         | 18.2    | 17.9      | 19.4   | 20.3   | 19.6     |         |
| <b>27 LD13-6640</b>    | 19.0    |          |        |         | 19.6    | 18.9      | 19.7   | 20.7   | 20.7     |         |
| <b>28 LD13-6678</b>    | 16.6    |          |        |         | 19.0    | 19.0      | 19.7   | 20.3   | 19.7     |         |
| <b>29 MSC10-562070</b> | 17.4    |          |        |         | 19.3    | 19.1      | 19.8   | 19.3   | 19.0     |         |
| <b>30 MSC10-570022</b> | 18.2    |          |        |         | 18.8    | 18.5      | 19.8   | 19.9   | 19.3     |         |
| <b>31 ORC 0516N</b>    | 15.5    |          |        |         | 17.7    | 16.3      | 18.9   | 19.1   | 18.6     |         |
| <b>32 ORC 0616N</b>    | 16.3    |          |        |         | 17.5    | 17.1      | 18.1   | 18.5   | 18.8     |         |