

# 1998 Pa. Commercial Hybrid Test Reports

## Late medium-season hybrids (Maturity Zone 3) 1998 results

### COMBINED ENTRIES

Table 1 Late medium season hybrid performance (Maturity Zone 3) Combined Penn State Commercial Entries (average of six locations)

| BRAND HYBRID          | PERCENT OF-CHECK |       |       | %H <sub>2</sub> O GRAIN | BU/A GRAIN | % ERECT |
|-----------------------|------------------|-------|-------|-------------------------|------------|---------|
|                       | H <sub>2</sub> O | YIELD | ERECT |                         |            |         |
| GOLDEN HARVEST H 2495 | 95.5             | 84.8  | 102.1 | 21.3                    | 146.4      | 98.5    |
| MYCOGEN 2772          | 96.0             | 99.6  | 99.6  | 21.4                    | 171.9      | 96.1    |
| AGRIPRO AP9560        | 96.4             | 95.0  | 100.9 | 21.5                    | 163.9      | 97.4    |
| DEKALB DK626 BTX      | 96.9             | 103.8 | 97.9  | 21.6                    | 179.1      | 94.5    |
| GOLDEN HARVEST H-2515 | 96.9             | 99.0  | 100.8 | 21.6                    | 170.9      | 97.3    |
| CHEMGRO 7036          | 97.3             | 94.8  | 100.3 | 21.7                    | 163.6      | 96.8    |
| CHEMGRO 6742          | 97.3             | 98.6  | 100.4 | 21.7                    | 170.1      | 96.9    |
| DOEBLERS 737XP        | 97.8             | 103.0 | 101.8 | 21.8                    | 177.8      | 98.2    |
| MYCOGEN 2801          | 97.8             | 99.8  | 101.7 | 21.8                    | 172.3      | 98.1    |
| DYNAGRO 5456          | 97.8             | 102.3 | 96.7  | 21.8                    | 176.5      | 93.3    |
| GARST 8585GLS/IT      | 98.2             | 85.5  | 101.3 | 21.9                    | 147.5      | 97.8    |
| GARST 8464            | 98.2             | 98.2  | 101.6 | 21.9                    | 169.5      | 98.0    |
| MYCOGEN 2722          | 98.7             | 96.7  | 101.6 | 22.0                    | 166.9      | 98.0    |
| DOEBLERS 642XP        | 98.7             | 94.7  | 98.5  | 22.0                    | 163.5      | 95.1    |
| DEKALB DK617          | 98.7             | 97.0  | 101.5 | 22.0                    | 167.4      | 97.9    |
| AGRIPRO AP9580        | 99.1             | 105.0 | 103.1 | 22.1                    | 181.2      | 99.5    |
| NC+ 5018              | 99.1             | 96.9  | 92.7  | 22.1                    | 167.3      | 89.5    |
| NK BRAND N70-D5       | 99.6             | 97.5  | 101.3 | 22.2                    | 166.2      | 97.8    |
| DOEBLERS 636XY        | 99.6             | 89.9  | 100.5 | 22.2                    | 155.1      | 97.0    |
| SCHLESSMAN SX696      | 100.0            | 98.2  | 98.4  | 22.3                    | 169.5      | 95.0    |
| PIONEER 3335          | 100.4            | 101.7 | 96.6  | 22.4                    | 175.6      | 93.2    |
| CHEMGRO 6848          | 100.4            | 88.4  | 98.5  | 22.4                    | 152.5      | 95.1    |
| AGRIPRO AP9656        | 100.4            | 92.8  | 98.4  | 22.4                    | 160.2      | 95.0    |
| HYTEST HTX7727        | 100.4            | 91.4  | 99.3  | 22.4                    | 157.8      | 95.8    |
| DYNAGRO 5508          | 100.9            | 95.5  | 98.8  | 22.5                    | 164.8      | 95.3    |
| AGRIPRO AP9616        | 101.3            | 101.5 | 99.8  | 22.6                    | 175.2      | 96.3    |
| TERRA TR1136          | 101.3            | 96.7  | 99.7  | 22.6                    | 166.9      | 96.2    |
| PIONEER 33Y18         | 101.3            | 103.0 | 97.8  | 22.6                    | 177.7      | 94.4    |
| GEERTSON GS-1117      | 101.3            | 96.2  | 100.5 | 22.6                    | 166.0      | 97.0    |
| PIONEER 33Y09         | 101.3            | 97.5  | 101.1 | 22.6                    | 168.3      | 97.6    |
| CARGILL 7512          | 102.2            | 101.2 | 100.9 | 22.8                    | 174.6      | 97.4    |
| CHEMGRO 7171          | 102.2            | 98.6  | 98.7  | 22.8                    | 170.2      | 95.2    |
| AGWAY AG773           | 102.2            | 101.0 | 98.7  | 22.8                    | 174.4      | 95.2    |
| HYTEST HT7712         | 102.2            | 100.2 | 100.0 | 22.8                    | 172.9      | 96.5    |
| MYCOGEN 7250          | 102.7            | 99.5  | 99.4  | 22.9                    | 171.7      | 95.9    |
| NK BRAND N75-K6       | 102.7            | 98.6  | 99.3  | 22.9                    | 170.2      | 95.8    |
| DEKALB DK618 BTX      | 102.7            | 96.2  | 101.8 | 22.9                    | 166.1      | 98.2    |
| TERRA TR1106          | 103.1            | 94.1  | 97.2  | 23.0                    | 162.5      | 93.8    |
| SEEDWAY E680          | 103.1            | 105.2 | 99.7  | 23.0                    | 181.6      | 96.2    |
| DEKALB DK642          | 103.6            | 99.0  | 100.0 | 23.1                    | 170.9      | 96.5    |
| SEEDWAY E748          | 103.6            | 95.5  | 98.8  | 23.1                    | 164.9      | 95.3    |
| DOEBLERS 746XY        | 103.6            | 97.7  | 100.5 | 23.1                    | 168.7      | 97.0    |
| NC+ 5697              | 103.6            | 98.6  | 99.8  | 23.1                    | 170.2      | 96.3    |
| GRIES 6212            | 104.5            | 100.6 | 99.2  | 23.3                    | 173.7      | 95.7    |
| NC+ 5778              | 104.9            | 94.2  | 100.5 | 23.4                    | 162.6      | 97.0    |
| CARGILL 7770          | 105.8            | 104.5 | 100.5 | 23.6                    | 180.4      | 97.0    |
| SEEDWAY E774          | 106.7            | 99.1  | 100.5 | 23.8                    | 171.0      | 97.0    |
| TERRA TR1157          | 107.6            | 102.9 | 100.4 | 24.0                    | 177.6      | 96.9    |
| MEANS                 | 100.9            | 98.2  | 100.3 | 22.4                    | 169.4      | 95.7    |
| LSD (.05)             |                  |       |       | 2.3                     | 10.3       | 0.6     |

### TWO-YEAR AVERAGE PERFORMANCE

Table 3. Late-medium season hybrids mean performance, 1997-98 (Maturity Zone 3).

| BRAND-HYBRID          | PERCENT OF CHECKS |       |       | %H <sub>2</sub> O GRAIN | BU/A GRAIN | % ERECT |
|-----------------------|-------------------|-------|-------|-------------------------|------------|---------|
|                       | H <sub>2</sub> O  | YIELD | ERECT |                         |            |         |
| AGRIPRO AP9560        | 95.0              | 94.1  | 100.4 | 22.9                    | 171.9      | 96.8    |
| CHEMGRO 7036          | 96.1              | 95.0  | 100.6 | 23.2                    | 173.6      | 97.0    |
| GOLDEN HARVEST H-2515 | 96.3              | 97.7  | 100.6 | 23.2                    | 178.6      | 97.0    |
| DYNAGRO 5456          | 96.7              | 97.5  | 98.5  | 23.3                    | 178.2      | 95.0    |
| DOEBLERS 737XP        | 96.9              | 99.5  | 101.6 | 23.4                    | 181.9      | 97.9    |
| DOEBLERS 642XP        | 97.5              | 94.7  | 99.6  | 23.5                    | 173.1      | 96.1    |
| GARST 8464            | 97.7              | 91.8  | 101.6 | 23.6                    | 167.8      | 97.9    |
| NK BRAND N70-D5       | 98.1              | 98.7  | 101.1 | 23.7                    | 180.3      | 97.5    |
| PIONEER 33Y18         | 98.8              | 103.8 | 99.7  | 23.8                    | 189.7      | 96.2    |
| AGRIPRO AP9616        | 99.2              | 97.7  | 100.5 | 23.9                    | 178.5      | 96.9    |
| MYCOGEN 2801          | 99.4              | 96.7  | 101.9 | 24.0                    | 176.7      | 98.3    |
| TERRA TR1106          | 99.8              | 94.9  | 98.7  | 24.1                    | 173.4      | 95.2    |
| PIONEER 3335          | 100.4             | 99.2  | 98.1  | 24.2                    | 181.2      | 94.6    |
| DYNAGRO 5508          | 100.4             | 94.5  | 100.1 | 24.2                    | 172.7      | 96.5    |
| GRIES 6212            | 100.8             | 98.5  | 100.2 | 24.3                    | 180.0      | 96.6    |
| TERRA TR1136          | 100.8             | 97.6  | 100.3 | 24.3                    | 178.3      | 96.7    |
| CARGILL 7770          | 101.2             | 101.8 | 100.6 | 24.4                    | 185.9      | 97.0    |
| NC+ 5697              | 101.7             | 97.5  | 100.8 | 24.5                    | 178.2      | 97.2    |
| PIONEER 33Y09         | 101.7             | 96.1  | 101.9 | 24.5                    | 175.6      | 98.2    |
| DOEBLERS 746XY        | 101.9             | 96.8  | 101.5 | 24.6                    | 176.9      | 97.8    |
| DEKALB DK642          | 102.3             | 101.3 | 100.3 | 24.7                    | 185.2      | 96.7    |
| CARGILL 7512          | 102.5             | 102.6 | 101.4 | 24.7                    | 187.4      | 97.8    |
| SEEDWAY E774          | 105.2             | 100.7 | 100.9 | 25.4                    | 184.1      | 97.3    |
| MEANS                 | 99.7              | 98.0  | 100.5 | 24.1                    | 179.0      | 96.8    |

### SILAGE ENTRIES

Table 4. Silage performance of late medium-season hybrids (Maturity Zone 3).

| BRAND-HYBRID          | YIELD (T/A) 65% H <sub>2</sub> O | %H <sub>2</sub> O PLANT | DRY MAT PLANT (T/A) | CHEMGRO 7199 | GARST 8464 | DOEBLERS 737XP | CARGILL 7777 | AGWAY AG773 | SEEDWAY E774 | HYTEST HT4138 | PIONEER 32K61 | MEANS | LSD (.05) |
|-----------------------|----------------------------------|-------------------------|---------------------|--------------|------------|----------------|--------------|-------------|--------------|---------------|---------------|-------|-----------|
|                       |                                  |                         |                     |              |            |                |              |             |              |               |               |       |           |
| CHEMGRO 6848          | 23.4                             | 56.5                    | 8.2                 | 61.6         | 61.9       | 62.0           | 62.1         | 62.1        | 62.4         | 62.7          | 62.9          | 60.2  | 3.4       |
| GOLDEN HARVEST H-2547 | 24.7                             | 57.6                    | 8.6                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |
| GARST 8585 GLS/IT     | 23.6                             | 58.5                    | 8.3                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |
| DEKALB DK626 BTX      | 25.0                             | 58.6                    | 8.7                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |
| DOEBLERS 746XY        | 25.6                             | 59.6                    | 9.0                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |
| HYTEST HT7712         | 26.7                             | 60.9                    | 9.3                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |
| DEKALB DK617          | 26.4                             | 61.1                    | 9.2                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |
| DOEBLERS 75XMD2       | 25.1                             | 61.3                    | 8.8                 | 8.4          | 7.5        | 7.6            | 8.9          | 8.1         | 9.2          | 8.4           | 9.4           | 8.7   | NS        |

## Late-season hybrids (Maturity Zone 4) 1998 results

### COMBINED ENTRIES

Table 1 Late season hybrid performance (Maturity Zone 4) Combined Penn State Commercial Entries (average of five locations)

| BRAND HYBRID          | H <sub>2</sub> O | PERCENT OF-CHECK |       | %H <sub>2</sub> O GRAIN | BU/A GRAIN | % ERECT |
|-----------------------|------------------|------------------|-------|-------------------------|------------|---------|
|                       |                  | YIELD            | ERECT |                         |            |         |
| GOLDEN HARVEST H 2581 | 93.5             | 93.7             | 99.8  | 22.9                    | 190.2      | 98.1    |
| MYCOGEN 2832 IMI      | 93.5             | 86.6             | 100.5 | 22.9                    | 175.7      | 98.8    |
| PIONEER 32K61         | 94.3             | 97.9             | 98.1  | 23.1                    | 198.7      | 96.4    |
| PIONEER 33Y09         | 94.3             | 88.4             | 100.7 | 23.1                    | 179.5      | 99.0    |
| AGRIPRO AP9616        | 94.7             | 99.3             | 101.1 | 23.2                    | 201.5      | 99.4    |
| TERRA TR1157          | 95.1             | 104.0            | 99.3  | 23.3                    | 211.1      | 97.6    |
| DOEBLERS 746XY        | 95.9             | 92.6             | 99.0  | 23.5                    | 187.9      | 97.3    |
| CHEMGRO 7343          | 96.3             | 100.2            | 99.7  | 23.6                    | 203.4      | 98.0    |
| HYTEST HT7748         | 96.7             | 95.4             | 97.5  | 23.7                    | 193.7      | 95.8    |
| CHEMGRO 7294          | 97.1             | 91.6             | 97.6  | 23.8                    | 185.9      | 95.9    |
| MYCOGEN 2853          | 97.1             | 84.1             | 100.4 | 23.8                    | 170.7      | 98.7    |
| AGWAY AG767           | 97.6             | 98.3             | 99.8  | 23.9                    | 199.5      | 98.1    |
| DOEBLERS 75X2         | 97.6             | 98.5             | 98.2  | 23.9                    | 200.0      | 96.5    |
| CARGILL 8311          | 98.0             | 96.5             | 97.2  | 24.0                    | 195.8      | 95.5    |
| NC+ 6959              | 98.8             | 94.4             | 100.5 | 24.2                    | 191.7      | 98.8    |
| DOEBLERS 82XP         | 99.2             | 94.7             | 99.8  | 24.3                    | 192.2      | 98.1    |
| GOLDEN HARVEST H-2643 | 99.2             | 95.7             | 99.0  | 24.3                    | 194.3      | 97.3    |
| NC+ 6387              | 99.2             | 88.6             | 99.2  | 24.3                    | 179.9      | 97.5    |
| PIONEER 3140          | 99.6             | 100.5            | 101.0 | 24.4                    | 204.1      | 99.3    |
| AGRIPRO AP9707        | 99.6             | 94.6             | 99.1  | 24.4                    | 192.0      | 97.4    |
| AGWAY AG795           | 99.6             | 91.1             | 98.1  | 24.4                    | 184.9      | 96.4    |
| DOEBLERS 851XY        | 99.6             | 98.8             | 98.6  | 24.4                    | 202.5      | 96.9    |
| MYCOGEN 2888          | 99.6             | 95.1             | 96.5  | 24.4                    | 193.1      | 96.8    |
| TERRA TR1167          | 99.6             | 93.0             | 99.7  | 24.4                    | 188.8      | 98.0    |
| GARST 8300GLS         | 100.0            | 91.2             | 99.1  | 24.5                    | 185.1      | 97.4    |
| CHEMGRO 7596          | 100.8            | 97.6             | 97.3  | 24.7                    | 198.1      | 95.6    |
| CHEMGRO 7757          | 100.8            | 101.6            | 98.2  | 24.7                    | 206.2      | 96.5    |
| PIONEER 31G20         | 100.8            | 101.4            | 98.3  | 24.7                    | 205.9      | 96.6    |
| DYNAGRO 6570          | 101.2            | 95.3             | 96.7  | 24.8                    | 193.4      | 95.1    |
| AGRIPRO AP9828        | 102.0            | 99.6             | 97.5  | 25.0                    | 202.1      | 95.8    |
| MID ATLANTIC MA9171   | 102.0            | 100.4            | 96.3  | 25.0                    | 203.8      | 94.7    |
| TERRA E1166 BT        | 102.0            | 93.6             | 101.1 | 25.0                    | 190.0      | 99.4    |
| TERRA E1188           | 102.0            | 90.7             | 98.7  | 25.0                    | 184.1      | 97.0    |
| DOEBLERS 859XY        | 103.3            | 95.5             | 98.1  | 25.3                    | 193.8      | 96.4    |
| MID ATLANTIC MAX9173  | 103.3            | 98.1             | 98.7  | 25.3                    | 199.1      | 97.0    |
| CHEMGRO 7796          | 104.1            | 101.3            | 99.7  | 25.5                    | 205.6      | 98.0    |
| MYCOGEN 8460          | 104.1            | 100.5            | 98.2  | 25.5                    | 204.1      | 96.5    |
| TERRA TR1186          | 104.9            | 90.1             | 98.3  | 25.7                    | 182.9      | 96.6    |
| GARST 8220            | 105.3            | 111.4            | 96.2  | 25.8                    | 226.1      | 94.6    |
| MEANS                 | 99.3             | 96.0             | 98.9  | 24.0                    | 193.0      | 97.2    |
| LSD (.05)             |                  |                  |       | 1.5                     | 10.8       | 0.6     |

### TWO-YEAR AVERAGE PERFORMANCE

Table 3. Long-season hybrids mean performance, 1997-98 (Maturity Zone 4).

| BRAND-HYBRID   | PERCENT OF CHECKS |       |       | %H <sub>2</sub> O GRAIN | BU/A GRAIN | % ERECT |
|----------------|-------------------|-------|-------|-------------------------|------------|---------|
|                | H <sub>2</sub> O  | YIELD | ERECT |                         |            |         |
| AGRIPRO AP9616 | 93.2              | 98.3  | 101.0 | 24.0                    | 194.5      | 98.8    |
| DOEBLERS 746XY | 94.9              | 93.0  | 99.8  | 24.4                    | 184.1      | 97.6    |
| AGWAY AG767    | 96.5              | 97.9  | 99.8  | 24.8                    | 193.7      | 97.7    |
| CHEMGRO 7343   | 96.9              | 97.5  | 99.6  | 24.9                    | 193.1      | 97.4    |
| PIONEER 32K61  | 97.9              | 100.7 | 98.6  | 25.2                    | 199.3      | 96.4    |
| TERRA TR1157   | 98.2              | 102.0 | 98.9  | 25.3                    | 201.9      | 96.8    |
| PIONEER 3140   | 99.4              | 100.2 | 100.6 | 25.6                    | 198.3      | 98.4    |
| DOEBLERS 82XP  | 99.4              | 98.8  | 100.8 | 25.6                    | 195.6      | 98.6    |
| NC+ 6387       | 99.6              | 94.9  | 98.7  | 25.6                    | 187.9      | 96.5    |
| AGWAY AG795    | 99.8              | 94.4  | 98.4  | 25.7                    | 186.8      | 96.3    |
| DOEBLERS 75X2  | 99.8              | 98.7  | 99.6  | 25.7                    | 195.3      | 97.5    |
| AGRIPRO AP9707 | 100.4             | 99.0  | 99.0  | 25.8                    | 196.0      | 96.8    |
| CARGILL 8311   | 100.8             | 99.3  | 98.7  | 25.9                    | 196.5      | 96.5    |
| CHEMGRO 7596   | 101.0             | 100.2 | 99.2  | 26.0                    | 198.3      | 97.0    |
| TERRA TR1167   | 101.0             | 92.3  | 100.6 | 26.0                    | 182.       |         |