

# CORN TALK NEWS

PENNSYLVANIA MASTER CORN GROWERS ASSOC., INC.

## (Maturity Zone 3)

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|                    |       |       |       |      |       |      |       |      |     |     |
|--------------------|-------|-------|-------|------|-------|------|-------|------|-----|-----|
| ANDERSONS PSX430   | 103.3 | 99.0  | 98.4  | 30.6 | 152.3 | 90.3 | 96.9  | 49.4 | 2.5 | 2.6 |
| AGRI GENE GA8559   | 103.4 | 98.4  | 90.7  | 30.6 | 151.3 | 83.2 | 91.9  | 44.7 | 2.5 | 3.0 |
| ICI 8260           | 103.7 | 102.8 | 95.6  | 30.7 | 156.2 | 87.7 | 97.1  | 43.3 | 2.7 | 2.4 |
| SCHLESSMAN SX722   | 103.8 | 106.1 | 98.9  | 30.8 | 163.2 | 90.7 | 98.8  | 39.0 | 2.3 | 1.9 |
| HARDY HB6270M      | 104.3 | 94.6  | 100.9 | 30.9 | 145.6 | 92.6 | 91.6  | 45.1 | 2.0 | 1.4 |
| EASTLAND E799      | 104.4 | 101.5 | 104.6 | 30.9 | 156.2 | 95.8 | 94.5  | 49.3 | 2.8 | 2.9 |
| DOEBLER'S 75X2     | 104.6 | 104.2 | 101.3 | 31.0 | 160.3 | 92.9 | 95.4  | 51.1 | 2.2 | 2.2 |
| NORTHROP KING X748 | 105.3 | 94.5  | 101.0 | 31.2 | 145.4 | 92.6 | 92.7  | 50.4 | 2.3 | 2.3 |
| HALSEY EX2116      | 105.3 | 94.1  | 100.6 | 31.2 | 144.7 | 92.3 | 85.9  | 41.9 | 4.9 | 3.3 |
| HUBNER H9017       | 105.5 | 98.9  | 104.6 | 31.2 | 152.1 | 95.9 | 100.0 | 52.1 | 1.9 | 1.0 |
| AGWAY AG EXP 711   | 105.9 | 102.6 | 104.0 | 31.4 | 157.7 | 95.4 | 101.3 | 43.8 | 2.0 | 2.2 |
| FUNK'S G-4624      | 106.5 | 107.3 | 89.6  | 31.5 | 165.0 | 82.2 | 92.5  | 46.1 | 2.1 | 1.5 |
| MEANS              | 100.5 | 98.8  | 99.3  | 29.7 | 152.0 | 91.1 | 94.7  | 46.3 | 2.5 | 2.6 |
| LSD (.05)          | 4.1   | 7.0   | 8.7   | 1.2  | 10.7  | 8.0  | 3.6   | 3.8  | 1.2 | 0.4 |
| LOCATION MEANS     |       |       |       |      |       |      |       |      |     |     |
| Juniata            | 99.0  | 95.9  | 101.1 | 26.2 | 133.5 | 95.6 |       |      |     |     |
| Lycoming           | 102.8 | 91.7  | 99.8  | 29.1 | 180.3 | 99.2 | 98.5  | 48.8 | 2.5 |     |
| Clinton            | 100.1 | 111.9 | 96.9  | 31.7 | 187.0 | 87.5 |       |      |     |     |
| Blair              | 99.6  | 102.8 | 98.5  | 32.2 | 123.1 | 90.0 |       |      |     |     |
| Dauphin            | 99.2  | 102.1 | 99.6  | 26.5 | 157.8 | 95.3 |       |      |     |     |
| Centre             | 101.3 | 95.3  | 100.0 | 32.7 | 130.0 | 78.7 | 91.0  | 43.8 |     | 2.6 |

### TWO-YEAR AVERAGE PERFORMANCE

Table 3 Late medium-season hybrids mean performance, 1991-1992 (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 |                         |            |         |
| PIONEER 3527        | 91.5              | 94.5  | 102.6 | 23.7                    | 124.0      | 97.0    |
| MUNCY CHIEF XA560   | 94.2              | 83.8  | 99.0  | 24.4                    | 110.0      | 93.6    |
| PIONEER 3394        | 95.6              | 99.1  | 102.5 | 24.8                    | 130.0      | 96.9    |
| NORTHROP KING N6330 | 96.1              | 91.9  | 100.4 | 24.9                    | 120.6      | 94.9    |
| PIONEER 3295        | 96.5              | 101.1 | 99.5  | 25.0                    | 132.7      | 94.0    |
| GREENLAND GL 240    | 97.3              | 103.8 | 100.8 | 25.2                    | 136.2      | 95.3    |
| DOEBLER'S 66XP      | 97.7              | 98.2  | 97.4  | 25.3                    | 128.8      | 92.0    |
| DOEBLER'S 73XP      | 98.8              | 105.2 | 98.3  | 25.6                    | 138.0      | 92.9    |
| FUNK'S G-4530       | 99.2              | 99.8  | 102.8 | 25.7                    | 130.9      | 97.1    |
| PIONEER 3293        | 100.0             | 103.0 | 103.5 | 25.9                    | 135.1      | 97.8    |
| AGRI GENE GA6951    | 100.4             | 99.8  | 100.0 | 26.0                    | 130.9      | 94.5    |
| PIONEER 3241        | 100.8             | 102.1 | 99.6  | 26.1                    | 134.0      | 94.1    |
| AGWAY AG710         | 100.8             | 9.9   | 99.9  | 26.1                    | 131.0      | 94.4    |
| HYTEST HT7510       | 100.8             | 95.2  | 98.9  | 26.1                    | 124.9      | 93.5    |
| FUNK'S G-4543       | 101.5             | 99.6  | 99.3  | 26.3                    | 130.7      | 93.8    |
| DEKALB DK 636       | 101.5             | 99.2  | 100.3 | 26.3                    | 130.1      | 94.8    |
| CARGILL 8127        | 101.9             | 98.8  | 98.9  | 26.4                    | 129.6      | 93.5    |
| JACQUES 7970        | 101.9             | 98.3  | 93.1  | 26.4                    | 129.0      | 88.0    |
| DOEBLER'S 69XP      | 101.9             | 93.8  | 101.3 | 26.4                    | 123.1      | 95.7    |
| HY PERFORMER HS9592 | 102.3             | 100.2 | 101.3 | 26.5                    | 131.5      | 95.7    |
| DEKALB DK646        | 102.7             | 108.5 | 101.1 | 26.6                    | 142.4      | 95.5    |
| SCHLESSMAN SX711    | 102.7             | 100.5 | 99.6  | 26.6                    | 131.8      | 94.1    |
| CARGILL 7997        | 102.7             | 98.5  | 102.9 | 26.6                    | 129.2      | 97.2    |
| HALSEY H1120        | 103.1             | 105.6 | 99.8  | 26.7                    | 138.5      | 94.3    |

### SILAGE ENTRIES

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

| BRAND-HYBRID       | YIELD (T/A) | %H <sub>2</sub> O PLANT | DRY MAT PLANT(T/A) |
|--------------------|-------------|-------------------------|--------------------|
|                    |             |                         |                    |
| HALSEY H1120       | 19.0        | 69.8                    | 6.6                |
| DEKALB DK677       | 20.2        | 71.6                    | 7.1                |
| AGWAY AG 710       | 20.2        | 71.1                    | 7.1                |
| HALSEY H2116       | 20.3        | 70.1                    | 7.1                |
| AGWAY AG 824       | 21.3        | 73.6                    | 7.5                |
| DEKALB DK646       | 21.9        | 69.7                    | 7.6                |
| PIONEER 3293       | 23.2        | 67.7                    | 8.1                |
| AGWAY AG 788       | 23.3        | 69.6                    | 8.2                |
| PIONEER 3140       | 23.7        | 71.1                    | 8.3                |
| PIONEER 3241       | 23.8        | 68.1                    | 8.3                |
| AGWAY AG 797       | 24.4        | 71.4                    | 8.5                |
| PIONEER 3394       | 25.0        | 65.9                    | 8.8                |
| AGWAY AG EXP 711   | 25.2        | 70.8                    | 8.8                |
| NORTHROP KING X748 | 25.6        | 70.4                    | 9.0                |
| EASTLAND E799      | 25.8        | 69.2                    | 9.0                |
| NC+ 7507           | 26.0        | 69.9                    | 9.1                |
| ASGROW RX897       | 26.1        | 70.7                    | 9.1                |
| DOEBLER'S D82XP    | 26.2        | 70.9                    | 9.2                |
| DOEBLER'S 75XMOD2  | 27.3        | 67.9                    | 9.5                |
| MEANS              | 23.4        | 70.0                    | 8.2                |
| LSD (.05)          | 5.4         | 3.0                     | 1.9                |

|                     |       |       |       |      |       |      |
|---------------------|-------|-------|-------|------|-------|------|
| EASTLAND E799       | 103.1 | 102.0 | 103.8 | 26.7 | 133.8 | 97.9 |
| HY PERFORMER HS9502 | 103.5 | 97.3  | 102.4 | 26.8 | 127.8 | 96.8 |
| DOEBLER'S 75X       | 103.6 | 95.9  | 100.7 | 26.8 | 125.8 | 95.2 |
| NC+ 6414            | 103.9 | 104.1 | 103.0 | 26.9 | 136.6 | 97.3 |
| COKER 8625          | 103.9 | 100.0 | 100.1 | 26.9 | 131.2 | 94.6 |
| JACQUES 8210        | 103.9 | 96.3  | 95.1  | 26.9 | 126.4 | 89.9 |
| TERRA TR1090        | 103.9 | 94.6  | 96.5  | 26.9 | 124.1 | 91.2 |
| AGWAY AG797         | 104.6 | 108.2 | 102.2 | 27.1 | 141.9 | 96.6 |
| HUBNER H9115        | 104.6 | 104.6 | 103.7 | 27.1 | 137.2 | 96.0 |
| WETSEL W80          | 105.0 | 97.6  | 100.4 | 27.2 | 128.0 | 94.9 |
| DEKALB DK677        | 105.0 | 95.7  | 99.6  | 27.2 | 125.5 | 94.1 |
| HUBNER H9015        | 105.4 | 105.9 | 103.4 | 27.3 | 138.9 | 97.7 |
| EASTLAND E7810      | 105.8 | 96.8  | 102.3 | 27.4 | 129.4 | 96.7 |
| GREAT LAKES GL636   | 106.2 | 103.5 | 102.6 | 27.5 | 135.8 | 97.0 |

|           |       |      |      |      |       |      |
|-----------|-------|------|------|------|-------|------|
| MEANS     | 101.4 | 99.6 | 97.8 | 26.3 | 130.7 | 95.0 |
| LSD (.05) | 3.0   | 10.5 | 4.6  | 0.8  | 11.4  | 4.2  |

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5/11/92PS

Results of the tests for short-season, early medium-season, late medium-season, and late-season hybrids are available as separate reports from county offices of Penn State Cooperative Extension

Members of the county based extension staff assisted in conducting these tests. Their efforts were essential to the successful completion of the trials, and were greatly appreciated

This report represents the combined efforts of extension, research, and service personnel in the Departments of Agronomy and Plant Pathology (M.W. Johnson, and J.E. Ayers)

The tables in this report may be reproduced only in their entirety

## Late-season hybrids (Maturity Zone 4) 1992 results

### Growing conditions

Weather and soil conditions for planting were not good during late April and were variable throughout this maturity zone during the first two weeks of May. Planting was accomplished in Cumberland, Franklin, Lehigh, and Berks counties May 4 through 6; Lancaster County tests were not planted until May 14 and 15 because the fields were too wet. The corn germinated and emerged well at all sites, but growth was slow through May and early June because temperatures were below normal. Plant stand at the Cumberland County location was reduced by herbicide damage. The entire growing season was cooler and wetter than normal. Thus, corn development and maturation were delayed. Grain dry-down was delayed and moisture levels were high. Harvesting was begun late in October and completed the second

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# ATTENTION PENNSYLVANIA CORN GROWERS IMPORTANT RESEARCH NEWS

For the second year in a row, at Penn State University, Agway 797 and DeKalb 646 outyielded every other variety in that same trial. Here are the results:

| 1992       |           | 1991       |           |
|------------|-----------|------------|-----------|
| Variety    | Yield     | Variety    | Yield     |
| Agway 797  | 168.8 Bu. | DeKalb 646 | 118.1 Bu. |
| DeKalb 646 | 166.6 Bu. | Agway 797  | 114.9 Bu. |

Listed below are the Pioneer, Funk's and Doebler's varieties that were entered in 1991 and 1992. All yielded less than Agway 797 and DeKalb 646.

| 1992         |              | 1991         |              |
|--------------|--------------|--------------|--------------|
| Doebler 73XP | Doebler 75X  | Doebler 73XP | Funk G-4543  |
| Funk G-4530  | Pioneer 3527 | Pioneer 3295 | Doebler 81XP |
| Pioneer 3293 | Pioneer 3241 | Pioneer 3293 | Doebler 64XP |
| Doebler 66XP | Pioneer 3394 | Pioneer 3394 | Doebler 66XP |
| Pioneer 3295 | Doebler 69XP | Pioneer 3343 |              |
| Funk G-4543  |              |              |              |

### Additional research news from the University of Delaware Delaware Field Corn Performance Trials

Agway 797 was the #1 yielding variety in the early-medium maturity class (combined sites) for both 1991 and 1992.

If you want to plant the best, you've got to buy the best. Call your nearest Agway or DeKalb Seed Corn Dealer, Reading Bone Fertilizer or Andgrow Fertilizer Salesperson, or call **1-800-338-4769** today.



For complete details, refer to the 1991 and 1992 Pennsylvania Commercial Hybrid Corn Tests Report and the Delaware Hybrid Field Corn Performance Trials Report.

