

# **2025**

## ***Professional Dairy Managers of Pennsylvania (PDMP) Corn Silage Hybrid Performance Trial Results***



# PDMP Corn Silage Hybrid Testing Program 2025



**Early maturity (88-103) day RM silage hybrids in Bradford, Centre, and Clinton Counties**

**Notes:** See individual location data for background information

**Cooperators:** South Mont Farms, PSU Agronomy Research Farm, and Schrack Farms

| Brand                     | Hybrid             | Traits <sup>1</sup> | Relative Maturity | Pop. Plants/ac | Dry Matter % <sup>2</sup> | Crude Protein %DM | Lignin %DM | Ash %DM    | Starch %DM  | TFA %DM    | NDFom %DM   | uNDF 240 hr %DM | NDFD 30 %NDF | IVSD %Starch <sup>3</sup> | Fresh Yield tons/ac <sup>4</sup> | OM Yield tons/ac <sup>5</sup> | DOM Yield tons/ac <sup>6</sup> | OMD % <sup>7</sup> |
|---------------------------|--------------------|---------------------|-------------------|----------------|---------------------------|-------------------|------------|------------|-------------|------------|-------------|-----------------|--------------|---------------------------|----------------------------------|-------------------------------|--------------------------------|--------------------|
| <b>88-97 day hybrids</b>  |                    |                     |                   |                |                           |                   |            |            |             |            |             |                 |              |                           |                                  |                               |                                |                    |
| Kings Agriseeds           | RedTail RT 38T89   | 17                  | 88                | 34,000         | 36.8                      | 8.0               | 2.2        | 3.3        | 31.6        | 2.2        | 36.3        | 9.8             | 59.9         | 68.8                      | 14.4                             | 4.9                           | 3.3                            | 66.7               |
| Channel                   | 193-40VT4PRIB      | 53                  | 93                | 34,000         | 36.4                      | 7.2               | 2.0        | 2.9        | 32.7        | 2.2        | 36.8        | 8.9             | 63.5         | 69.9                      | 16.6                             | 5.7                           | 3.9                            | 68.7               |
| Seed Consultants          | SC946PCE           | 33                  | 94                | 33,056         | 36.4                      | 7.6               | 2.1        | 3.4        | 32.1        | 2.0        | 35.4        | 9.6             | 59.2         | 70.1                      | 14.8                             | 5.0                           | 3.5                            | 67.1               |
| Seed Consultants          | SC976PCE           | 33                  | 97                | 34,000         | 36.2                      | 7.5               | 2.0        | 3.2        | 33.5        | 2.2        | 35.1        | 9.2             | 61.0         | 70.3                      | 15.8                             | 5.4                           | 3.6                            | 67.9               |
| Channel                   | 193-42VT4PRIB      | 53                  | 93                | 34,000         | 35.6                      | 7.1               | 1.9        | 2.9        | 33.4        | 2.2        | 36.2        | 9.0             | 63.2         | 70.1                      | 16.5                             | 5.6                           | 3.8                            | 68.7               |
| Kings Agriseeds           | RedTail RT 45T09   | 19                  | 95                | 34,000         | 35.5                      | 7.8               | 2.1        | 3.2        | 31.5        | 2.2        | 35.1        | 9.2             | 61.1         | 69.4                      | 15.5                             | 5.3                           | 3.6                            | 67.4               |
| Pine Creek Seeds          | R9115V             | 44                  | 91                | 34,000         | 35.4                      | 8.0               | 2.2        | 3.4        | 30.7        | 2.2        | 34.4        | 10.1            | 58.2         | 69.3                      | 13.8                             | 4.7                           | 3.1                            | 66.3               |
| Syngenta                  | E097K6-D           | 17                  | 97                | 34,000         | 35.2                      | 8.2               | 2.1        | 3.4        | 30.6        | 2.2        | 35.8        | 9.6             | 61.0         | 69.2                      | 15.0                             | 5.1                           | 3.4                            | 67.3               |
| Seed Consultants          | SC964PCE           | 33                  | 96                | 34,000         | 35.1                      | 7.7               | 2.0        | 3.3        | 33.2        | 2.2        | 36.1        | 9.4             | 61.8         | 70.3                      | 16.4                             | 5.6                           | 3.8                            | 68.2               |
| Shur Grow Seeds           | SG5788DV           | 19                  | 97                | 34,000         | 35.1                      | 7.6               | 2.2        | 3.3        | 31.5        | 2.2        | 36.6        | 9.9             | 60.3         | 70.3                      | 14.3                             | 4.8                           | 3.2                            | 67.3               |
| Channel                   | 197-99SSPRIB       | 40                  | 97                | 34,000         | 35.0                      | 7.1               | 2.0        | 2.9        | 31.5        | 2.2        | 38.6        | 9.3             | 64.5         | 69.4                      | 15.2                             | 5.2                           | 3.5                            | 68.7               |
| Revere                    | 091-P42RIB         | 50                  | 91                | 34,000         | 34.9                      | 7.7               | 2.1        | 3.4        | 29.7        | 2.2        | 38.5        | 9.8             | 63.3         | 69.2                      | 14.4                             | 4.9                           | 3.3                            | 68.2               |
| Growmark FS               | INVISION FS 4559PC | 32                  | 95                | 34,000         | 34.0                      | 7.3               | 2.2        | 3.2        | 31.6        | 2.0        | 35.9        | 9.5             | 59.8         | 71.0                      | 16.3                             | 5.5                           | 3.7                            | 67.4               |
| Syngenta                  | NK9771-DV          | 21                  | 97                | 33,667         | 34.0                      | 7.8               | 2.2        | 3.3        | 28.2        | 2.0        | 37.5        | 10.4            | 58.0         | 69.9                      | 15.4                             | 5.2                           | 3.5                            | 65.7               |
| Dekalb                    | DKC093-05RIB       | 39                  | 93                | 34,000         | 33.1                      | 7.4               | 2.2        | 3.2        | 27.3        | 2.0        | 39.4        | 10.0            | 62.3         | 70.6                      | 15.2                             | 5.1                           | 3.5                            | 68.1               |
| Revere                    | 093-V37EZ          | 44                  | 93                | 34,000         | 31.6                      | 7.7               | 2.1        | 3.4        | 30.7        | 2.0        | 36.2        | 9.6             | 60.4         | 70.8                      | 14.1                             | 4.8                           | 3.2                            | 67.6               |
| Shur Grow Seeds           | SG5440DV           | 19                  | 94                | 34,000         | 30.6                      | 7.9               | 2.2        | 3.5        | 28.0        | 2.0        | 36.5        | 10.1            | 59.6         | 70.8                      | 15.1                             | 5.1                           | 3.4                            | 67.1               |
| <b>88-97 day means</b>    |                    |                     |                   |                | <b>34.8</b>               | <b>7.6</b>        | <b>2.1</b> | <b>3.2</b> | <b>31.0</b> | <b>2.1</b> | <b>36.5</b> | <b>9.6</b>      | <b>61.0</b>  | <b>70.0</b>               | <b>15.2</b>                      | <b>5.2</b>                    | <b>3.5</b>                     | <b>67.6</b>        |
| <b>98-103 day hybrids</b> |                    |                     |                   |                |                           |                   |            |            |             |            |             |                 |              |                           |                                  |                               |                                |                    |
| Dekalb                    | DKC098-55RIB       | 39                  | 98                | 34,000         | 35.9                      | 7.5               | 1.9        | 3.1        | 30.8        | 2.2        | 36.8        | 9.1             | 63.7         | 69.7                      | 15.8                             | 5.3                           | 3.7                            | 68.8               |
| Seed Consultants          | SC1006PCE          | 33                  | 100               | 34,000         | 34.6                      | 7.9               | 2.0        | 3.5        | 30.1        | 2.1        | 36.6        | 9.2             | 63.4         | 70.0                      | 16.2                             | 5.5                           | 3.8                            | 68.7               |
| Dekalb                    | DKC101-33RIB       | 40                  | 101               | 34,000         | 34.3                      | 7.6               | 2.0        | 3.2        | 30.9        | 2.1        | 36.8        | 9.0             | 63.8         | 70.3                      | 16.3                             | 5.5                           | 3.8                            | 69.0               |
| Revere                    | 9827SSXRIB         | 39                  | 98                | 34,000         | 34.2                      | 7.5               | 2.0        | 3.2        | 30.8        | 2.1        | 37.1        | 9.2             | 63.1         | 70.0                      | 15.4                             | 5.2                           | 3.6                            | 68.6               |
| Pine Creek Seeds          | R9917DV            | 19                  | 99                | 33,167         | 34.2                      | 7.9               | 2.1        | 3.5        | 29.0        | 2.0        | 36.9        | 9.9             | 59.9         | 70.5                      | 15.0                             | 5.1                           | 3.4                            | 67.2               |
| Channel                   | 198-99SSPRIB       | 40                  | 98                | 33,500         | 33.4                      | 7.3               | 2.0        | 3.1        | 30.4        | 2.1        | 37.3        | 9.1             | 63.1         | 70.4                      | 15.7                             | 5.3                           | 3.7                            | 68.6               |
| Pine Creek Seeds          | R9916PC            | 33                  | 99                | 34,000         | 33.4                      | 8.2               | 2.0        | 3.5        | 29.5        | 2.0        | 35.2        | 9.3             | 61.4         | 70.1                      | 12.6                             | 4.3                           | 2.9                            | 68.0               |
| Chemgro                   | 6364PCE            | 33                  | 103               | 34,000         | 33.2                      | 7.3               | 2.0        | 3.2        | 30.6        | 2.1        | 37.6        | 9.4             | 63.3         | 70.2                      | 16.1                             | 5.5                           | 3.7                            | 68.5               |
| Shur Grow Seeds           | SG5885PCE          | 33                  | 98                | 34,000         | 32.8                      | 7.3               | 2.1        | 3.4        | 28.9        | 1.9        | 37.4        | 9.8             | 60.5         | 71.0                      | 15.5                             | 5.2                           | 3.5                            | 67.5               |
| Growmark FS               | INVISION FS 5159PC | 32                  | 101               | 34,000         | 31.4                      | 7.6               | 2.0        | 3.3        | 30.6        | 2.1        | 35.5        | 9.0             | 63.8         | 70.4                      | 14.0                             | 4.7                           | 3.3                            | 68.9               |
| <b>98-103 day means</b>   |                    |                     |                   |                | <b>34.4</b>               | <b>7.6</b>        | <b>2.1</b> | <b>3.3</b> | <b>30.7</b> | <b>2.1</b> | <b>36.6</b> | <b>9.5</b>      | <b>61.6</b>  | <b>70.1</b>               | <b>15.2</b>                      | <b>5.2</b>                    | <b>3.5</b>                     | <b>67.9</b>        |
| <b>Overall Mean</b>       |                    |                     |                   |                | <b>34.4</b>               | <b>7.6</b>        | <b>2.1</b> | <b>3.3</b> | <b>30.7</b> | <b>2.1</b> | <b>36.6</b> | <b>9.5</b>      | <b>61.6</b>  | <b>70.1</b>               | <b>15.2</b>                      | <b>5.2</b>                    | <b>3.5</b>                     | <b>67.9</b>        |
| <b>LSD(0.1)</b>           |                    |                     |                   |                | <b>1.3</b>                | <b>0.3</b>        | <b>0.2</b> | <b>0.2</b> | <b>2.3</b>  | <b>0.1</b> | <b>1.8</b>  | <b>0.7</b>      | <b>1.7</b>   | <b>0.7</b>                | <b>1.3</b>                       | <b>0.4</b>                    | <b>0.3</b>                     | <b>0.8</b>         |
| <b>CV%</b>                |                    |                     |                   |                | <b>4.7</b>                | <b>4.8</b>        | <b>9.3</b> | <b>8.7</b> | <b>9.5</b>  | <b>8.7</b> | <b>6.2</b>  | <b>9.1</b>      | <b>3.5</b>   | <b>1.3</b>                | <b>10.5</b>                      | <b>10.6</b>                   | <b>10.4</b>                    | <b>1.6</b>         |

<sup>1</sup> **Traits:** See tab "Trait Key" for individual trait designation.

<sup>2</sup> **Dry Matter:** Tables are sorted by dry matter. Avoid making comparisons with hybrids that differ significantly in dry matter.

<sup>3</sup> **IVSD:** Starch digestibility (% of starch) is analyzed by an NIRS method on samples ground through a 4-mm screen and incubated for 7 hours (IVSD).

<sup>4</sup> **Fresh Yield:** Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis.

<sup>5</sup> **OM Yield:** Silage yield (tons/ac) expressed on an organic matter (OM) basis.

<sup>6</sup> **DOM Yield:** Yield of digestible organic matter.

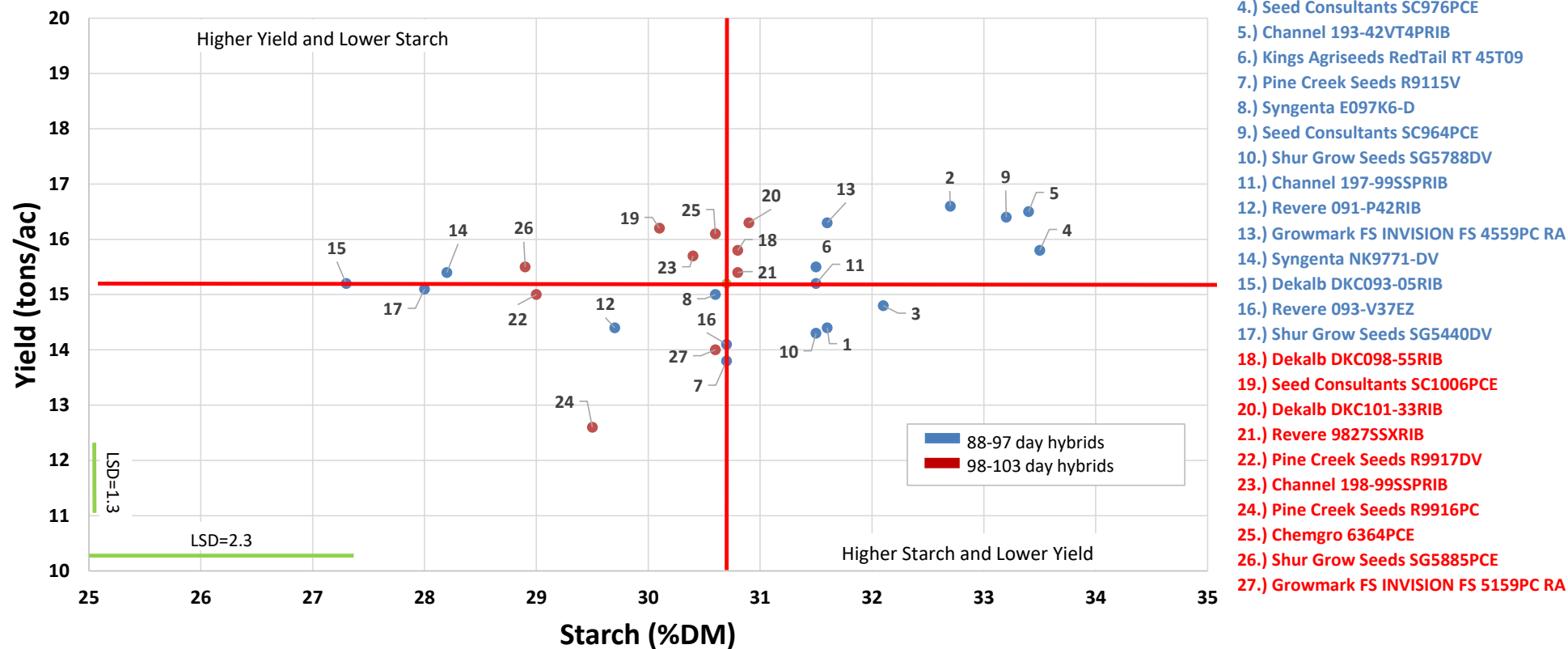
<sup>7</sup> **OMD: Organic Matter Digestibility** - Please see "OMD Story" tab for information on how to use this column

**NS** = Not Significant

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## Short Season Hybrids

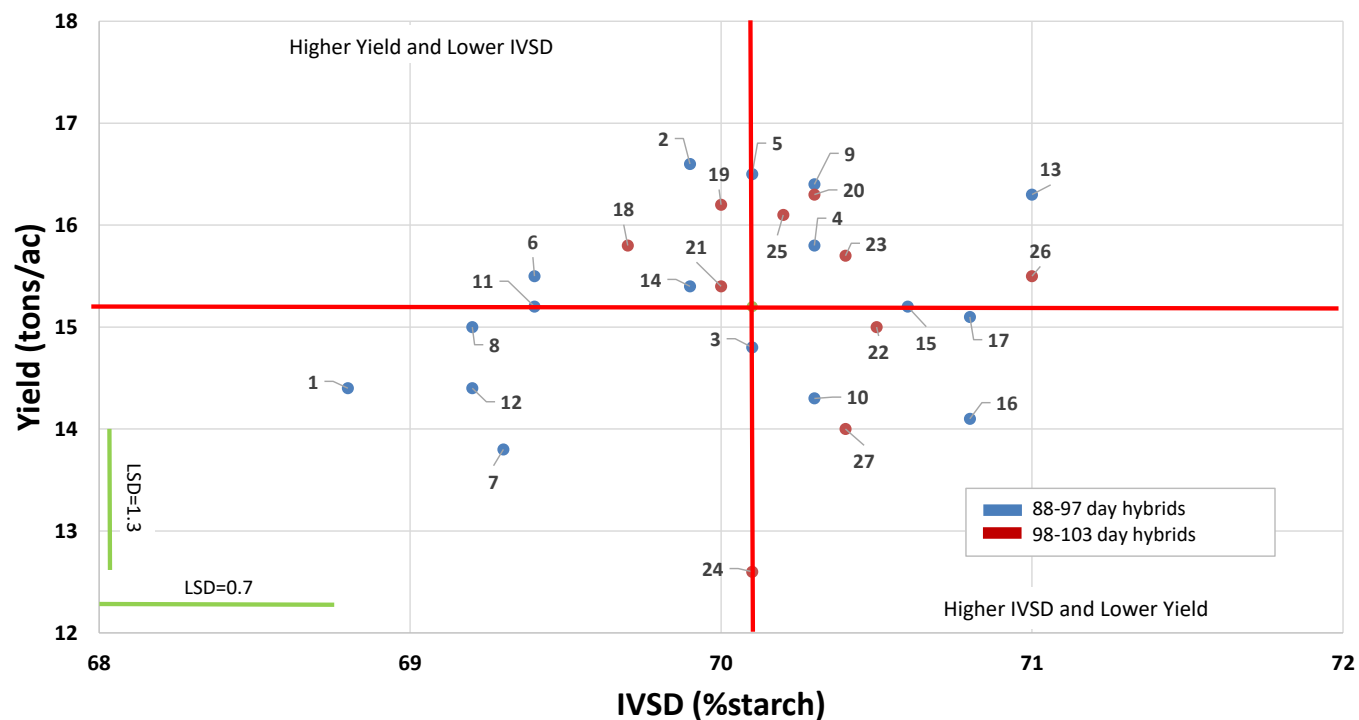
Yield (tons/ac) and Starch (%DM)



\*How to use this chart: This chart can be used to determine yield (tons/ac) and starch(%DM) of corn silage hybrids. The horizontal line represents the starch mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to starch. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

## Short Season Hybrids

### Yield (tons/ac) and IVSD (%starch)



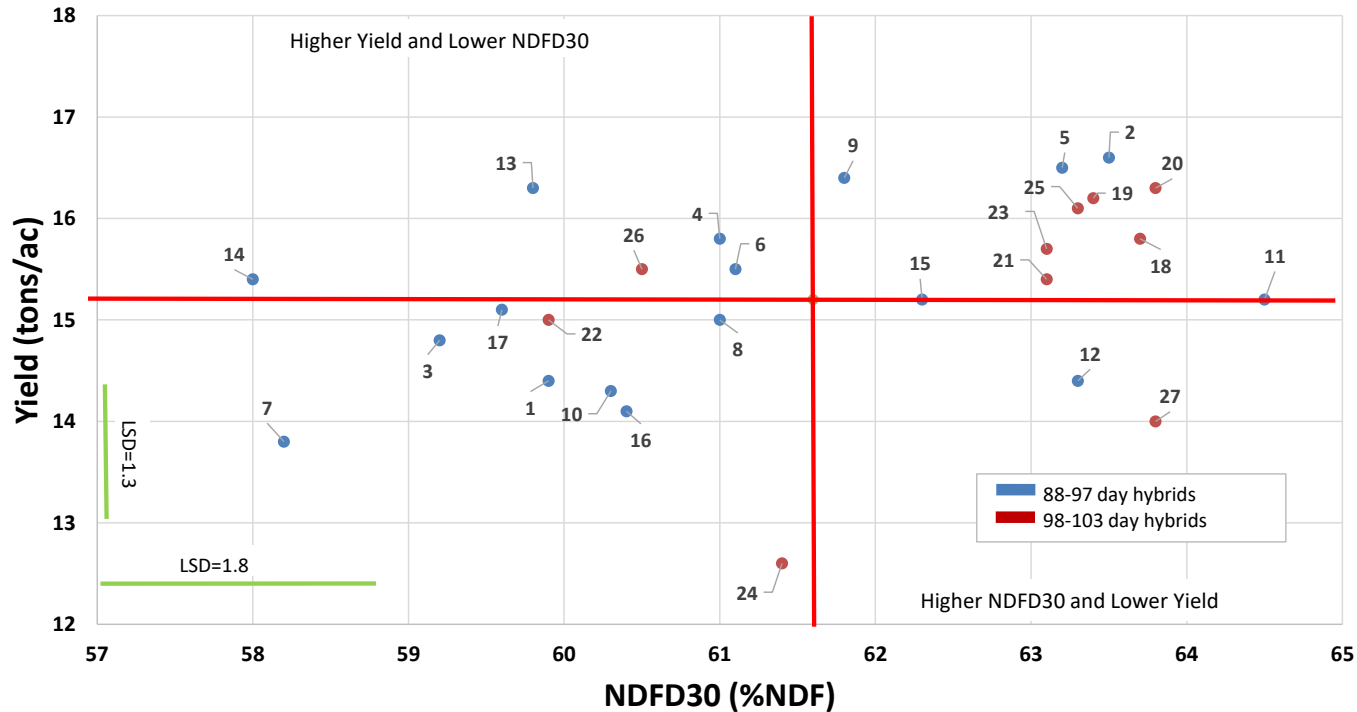
#### Legend

- 1.) Kings Agriseeds RedTail RT 38T89
- 2.) Channel 193-40VT4PRIB
- 3.) Seed Consultants SC946PCE
- 4.) Seed Consultants SC976PCE
- 5.) Channel 193-42VT4PRIB
- 6.) Kings Agriseeds RedTail RT 45T09
- 7.) Pine Creek Seeds R9115V
- 8.) Syngenta E097K6-D
- 9.) Seed Consultants SC964PCE
- 10.) Shur Grow Seeds SG5788DV
- 11.) Channel 197-99SSPRIB
- 12.) Revere 091-P42RIB
- 13.) Growmark FS INVISION FS 4559PC RA
- 14.) Syngenta NK9771-DV
- 15.) Dekalb DKC093-05RIB
- 16.) Revere 093-V37EZ
- 17.) Shur Grow Seeds SG5440DV
- 18.) Dekalb DKC098-55RIB
- 19.) Seed Consultants SC1006PCE
- 20.) Dekalb DKC101-33RIB
- 21.) Revere 9827SSXRIB
- 22.) Pine Creek Seeds R9917DV
- 23.) Channel 198-99SSPRIB
- 24.) Pine Creek Seeds R9916PC
- 25.) Chemgro 6364PCE
- 26.) Shur Grow Seeds SG5885PCE
- 27.) Growmark FS INVISION FS 5159PC RA

\*How to use this chart: This chart can be used to determine yield (tons/ac) and IVSD(%starch) of corn silage hybrids. The horizontal line represents the IVSD mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to IVSD. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

## Short Season Hybrids

### Yield (tons/ac) and NDFD30 (%NDF)



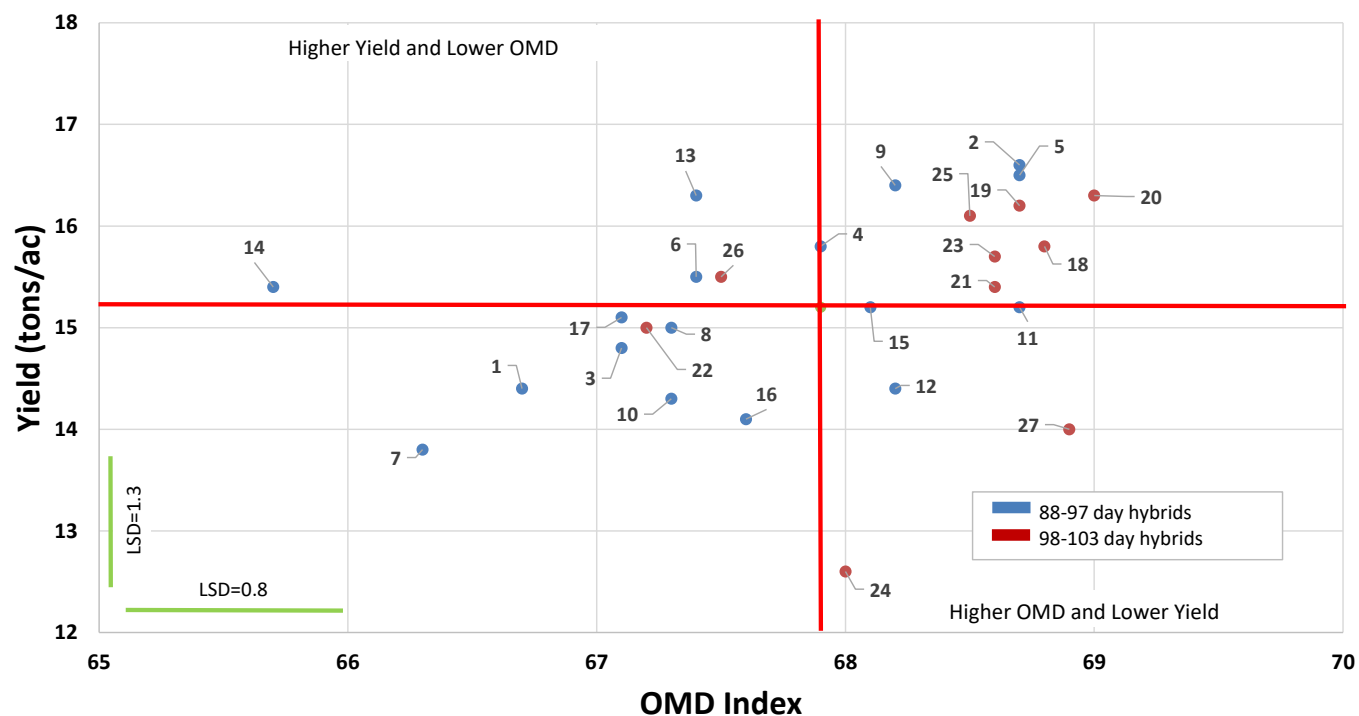
#### Legend

- 1.) Kings Agriseeds RedTail RT 38T89
- 2.) Channel 193-40VT4PRIB
- 3.) Seed Consultants SC946PCE
- 4.) Seed Consultants SC976PCE
- 5.) Channel 193-42VT4PRIB
- 6.) Kings Agriseeds RedTail RT 45T09
- 7.) Pine Creek Seeds R9115V
- 8.) Syngenta E097K6-D
- 9.) Seed Consultants SC964PCE
- 10.) Shur Grow Seeds SG5788DV
- 11.) Channel 197-99SSPRIB
- 12.) Revere 091-P42RIB
- 13.) Growmark FS INVISION FS 4559PC RA
- 14.) Syngenta NK9771-DV
- 15.) Dekalb DKC093-05RIB
- 16.) Revere 093-V37EZ
- 17.) Shur Grow Seeds SG5440DV
- 18.) Dekalb DKC098-55RIB
- 19.) Seed Consultants SC1006PCE
- 20.) Dekalb DKC101-33RIB
- 21.) Revere 9827SSXRIB
- 22.) Pine Creek Seeds R9917DV
- 23.) Channel 198-99SSPRIB
- 24.) Pine Creek Seeds R9916PC
- 25.) Chemgro 6364PCE
- 26.) Shur Grow Seeds SG5885PCE
- 27.) Growmark FS INVISION FS 5159PC RA

\*How to use this chart: This chart can be used to determine yield (tons/ac) and NDFD30 (%NDF) of corn silage hybrids. The horizontal line represents the NDFD30 mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to NDFD30. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

## Short Season Hybrids

### Yield (tons/ac) and OMD Index



#### Legend

- 1.) Kings Agriseeds RedTail RT 38T89
- 2.) Channel 193-40VT4PRIB
- 3.) Seed Consultants SC946PCE
- 4.) Seed Consultants SC976PCE
- 5.) Channel 193-42VT4PRIB
- 6.) Kings Agriseeds RedTail RT 45T09
- 7.) Pine Creek Seeds R9115V
- 8.) Syngenta E097K6-D
- 9.) Seed Consultants SC964PCE
- 10.) Shur Grow Seeds SG5788DV
- 11.) Channel 197-99SSPRIB
- 12.) Revere 091-P42RIB
- 13.) Growmark FS INVISION FS 4559PC RA
- 14.) Syngenta NK9771-DV
- 15.) Dekalb DKC093-05RIB
- 16.) Revere 093-V37EZ
- 17.) Shur Grow Seeds SG5440DV
- 18.) Dekalb DKC098-55RIB
- 19.) Seed Consultants SC1006PCE
- 20.) Dekalb DKC101-33RIB
- 21.) Revere 9827SSXRIB
- 22.) Pine Creek Seeds R9917DV
- 23.) Channel 198-99SSPRIB
- 24.) Pine Creek Seeds R9916PC
- 25.) Chemgro 6364PCE
- 26.) Shur Grow Seeds SG5885PCE
- 27.) Growmark FS INVISION FS 5159PC RA

\*How to use this chart: This chart can be used to determine yield (tons/ac) and the OMD Index of corn silage hybrids. The horizontal line represents the OMD Index mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to the OMD Index. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.



**Updated August 2025**

The most up-to-date version and related extension materials are free online at:

[www.texasinsects.org/bt-corn-trait-table.html](http://www.texasinsects.org/bt-corn-trait-table.html) Questions? [difonzo@msu.edu](mailto:difonzo@msu.edu)

Texas A&M University

| Trait Key # | TABLE 2<br>Principal trait packages available in the U.S.<br>(alternate names in parentheses) | letter code  | Traits in the package<br>*****<br><br>Font type denotes target:<br>caterpillar or rootworm | Expected control by traits in the package<br>*one or more remain effective (X)<br>*resistance to all, widespread (R) / localized(RL) |    |    |    |    |    |    |    |    |    |    |                       | Refuge in northern states<br>(higher in the south) | Weed control Trait<br><br>*check bag tag |
|-------------|-----------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|-----------------------|----------------------------------------------------|------------------------------------------|
|             |                                                                                               |              |                                                                                            | B                                                                                                                                    | C  | E  | F  | S  | S  | S  | T  | W  | N  | W  |                       |                                                    |                                          |
|             |                                                                                               |              |                                                                                            | CW                                                                                                                                   | EW | CB | AW | SB | CB | CB | AW | BC | CR | CR |                       |                                                    |                                          |
| 0           | Conventional                                                                                  | C            |                                                                                            |                                                                                                                                      |    |    |    |    |    |    |    |    |    |    |                       |                                                    |                                          |
| 3           | AcreMax                                                                                       | AM           | Cry1Ab Cry1F                                                                               | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    | R  |    |    | 5% blend              | GLY LL                                             |                                          |
| 4           | AcreMax Leptra                                                                                | AML          | Cry1Ab Cry1F Vip3A                                                                         | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  |    |    | 5% blend              | GLY LL                                             |                                          |
| 6           | AcreMax Xtra                                                                                  | AMX          | Cry1Ab Cry1F Cry34/35Ab1                                                                   | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    | R  | RL | R  | 10% blend             | GLY LL                                             |                                          |
| 7           | AcreMax Xtreme                                                                                | AMXT         | Cry1Ab Cry1F<br>Cry34/35Ab1 mCry3A                                                         | x                                                                                                                                    |    | RL | RL | x  | x  | RL |    | R  | x  | R  | 5% blend              | GLY LL                                             |                                          |
| 11+12       | Agrisure Above (Agrisure3120EZ)<br>AA Refuge Renew (Agrisure3120)                             | AA           | Cry1Ab Cry1F                                                                               | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    | R  |    |    | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 13+14       | Agrisure Total (Agrisure3122EZ)<br>AT Refuge Renew (Agrisure3122)                             | AT           | Cry1Ab Cry1F<br>Cry34/35Ab1 mCry3A                                                         | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    | R  | x  | R  | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 15          | Agrisure Viptera 3110                                                                         | 3110         | Cry1Ab Vip3A                                                                               | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  |    |    | 20%                   | GLY LL                                             |                                          |
| 16          | Agrisure Viptera 3111                                                                         | 3111         | Cry1Ab Vip3A mCry3A                                                                        | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  | x  | R  | 20%                   | GLY LL                                             |                                          |
| 17+18       | Duracade (Agrisure5122EZ)<br>D Refuge Renew (Agrisure5122)                                    | D            | Cry1Ab Cry1F<br>eCry3.1Ab mCry3A                                                           | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    | R  | x  | R  | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 19+20       | Duracade Viptera (Agrisure5222EZ)<br>DV Refuge Renew (Agrisure5222)                           | DV           | Cry1Ab Cry1F Vip3A<br>eCry3.1Ab mCry3A                                                     | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  | x  | R  | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 21+22       | Duracade Viptera Z3 (Agrisure5332EZ)<br>DVZ Refuge Renew (Agrisure5332)                       | DVZ          | Cry1Ab Cry1A.105 Cry2Ab2 Vip3A<br>eCry3.1Ab mCry3A                                         | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  | x  | R  | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 29          | Intrasect                                                                                     | YHR          | Cry1Ab Cry1F                                                                               | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    |    |    |    | 5%                    | GLY LL                                             |                                          |
| 30          | Leptra                                                                                        | VYHR         | Cry1Ab Cry1F Vip3A                                                                         | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  |    |    | 5%                    | GLY LL                                             |                                          |
| 32          | PowerCore Refuge Adv.                                                                         | PWRA         | Cry1A.105 Cry2Ab2 Cry1F                                                                    | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  |    |    | 5% blend              | GLY LL                                             |                                          |
| 33          | PowerCore Enlist<br>or Enlist Refuge Advanced                                                 | PWE<br>PCE   | Cry1A.105 Cry2Ab2 Cry1F                                                                    | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  |    |    | 5%<br>Adv 5% blend    | GLY LL<br>Enlist                                   |                                          |
| 57          | PowerCore Ultra Enlist<br>or Ultra Enlist Refuge Advanced                                     | PWUE<br>PCUE | Cry1A.105 Cry2Ab2 Cry1F Vip3A                                                              | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  |    |    | 5%<br>Adv 5% blend    | GLY LL<br>Enlist                                   |                                          |
| 34          | QROME                                                                                         | Q            | Cry1Ab Cry1F<br>Cry34/35Ab1 mCry3A                                                         | x                                                                                                                                    | R  | RL | RL | x  | x  | RL |    | R  | x  | R  | 5% blend              | GLY LL                                             |                                          |
| 35          | SmartStax or Genuity SS                                                                       | SS SX        | Cry1A.105 Cry2Ab2 Cry1F<br>Cry3Bb1 Cry34/35Ab1                                             | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | RL | R  | 5%                    | GLY LL                                             |                                          |
| 36          | SmartStax Enlist<br>SS Enlist Refuge Advanced                                                 | SSE          | Same as SmartStax                                                                          | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | RL | R  | 5%<br>Adv 5% blend    | GLY LL<br>Enlist                                   |                                          |
| 38          | SmartStax Refuge Advanced<br>SmartStax RIB Complete                                           | SXRA         | Same as SmartStax                                                                          | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | RL | R  | 5% blend              | GLY LL                                             |                                          |
| 40          | SmartStax PRO                                                                                 | SSPro        | Cry1A.105 Cry2Ab2 Cry1F<br>Cry3Bb1 Cry34/35Ab1 dvSnf7                                      | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | x  | x  | 5%                    | GLY LL                                             |                                          |
| 41          | SmartStax PRO Enlist<br>SSPro Enlist Refuge Advanced                                          | SSPro        | Same as SmartStax Pro                                                                      | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | x  | x  | 5%<br>Adv 5% blend    | GLY LL<br>Enlist                                   |                                          |
| 42          | SmartStax PRO Refuge Advanced<br>RIB Complete or w/RNAi Tech                                  | SSPro        | Same as SmartStax Pro                                                                      | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | x  | x  | 5% blend              | GLY LL                                             |                                          |
| 43          | Trecepta RIB Complete                                                                         | TRERIB       | Cry1A.105 Cry2Ab2 Vip3A                                                                    | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  |    |    |    | 5% blend              | GLY                                                |                                          |
| 44+45       | Viptera (Agrisure3220EZ)<br>Vip Refuge Renew (Agrisure3220)                                   | V            | Cry1Ab Cry1F Vip3A                                                                         | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  |    |    |    | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 46+47       | Viptera Z3 (Agrisure3330EZ)<br>VZ Refuge Renew (Agrisure3330)                                 | VZ           | Cry1Ab Cry1A.105 Cry2Ab2 Vip3A                                                             | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  |    |    |    | 5% blend<br>Renew: 5% | GLY LL*                                            |                                          |
| 48          | Vorceed Enlist                                                                                | V            | Cry1A.105 Cry2Ab2 Cry1F<br>Cry3Bb1 Cry34/35Ab1 dvSnf7                                      | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | x  | x  | 5% blend              | GLY LL<br>Enlist                                   |                                          |
| NA          | Vorceed Enlist Structured<br>- Expected in 2026                                               | VS           | Cry1A.105 Cry2Ab2 Cry1F<br>Cry3Bb1 Cry34/35Ab1 dvSnf7                                      | x                                                                                                                                    | R  | RL | x  | x  | x  | RL |    | R  | x  | x  | 5%                    | GLY LL<br>Enlist                                   |                                          |
| 49          | VT Double PRO                                                                                 | VT2P         | Cry1A.105 Cry2Ab2                                                                          |                                                                                                                                      | R  | RL | x  | x  | x  | RL |    |    |    |    | 5%                    | GLY                                                |                                          |
| 50          | VT2 PRO RIB Complete                                                                          | VT2PRIB      | Cry1A.105 Cry2Ab2                                                                          |                                                                                                                                      | R  | RL | x  | x  | x  | RL |    |    |    |    | 5% blend              | GLY                                                |                                          |
| 52          | VT3 PRO RIB Complete                                                                          | VT3PRIB      | Cry1A.105 Cry2Ab2 Cry3Bb1                                                                  |                                                                                                                                      | R  | RL | x  | x  | x  | RL |    |    | RL | R  | 10% blend             | GLY                                                |                                          |
| 53          | VT4 PRO w/RNAi Technology                                                                     | VT4PRO       | Cry1A.105 Cry2Ab2 Vip3A<br>Cry3Bb1 dvSnf7                                                  | x                                                                                                                                    | x  | RL | x  | x  | x  | x  | x  | x  | x  | x  | 5% blend              | GLY                                                |                                          |

# The OMD Index

The digestibility of nutrients in corn silage is paramount when determining nutritional value. Starch and NDF are responsible for much of the digestible energy in corn silage. In order to give dairy producers and nutritionist a tool to evaluate corn silage hybrids, we developed a new digestibility index, called the Organic Matter Digestibility Index (OMDI or just OMD), and is based on digestibility of protein, fat, NDF, and starch. The sum of which makes up approximately 86-88% of the organic matter in corn silage.

The OMD index represents the digestible portion of silage organic matter and is based on chemical analyses only. It does not predict dry matter intake or milk production, although numerous studies clearly show that digestibility of forage organic matter is directly related to lactation performance of dairy cows. The OMD index does not represent the absolute digestibility of silage organic matter, as this can be reliably determined only in experiments with live animals. But, OMD is representative of the potentially digestible organic matter of the whole plant and can be used to compare silage hybrids. Furthermore, simulation analyses using the Cornell Net Carbohydrate and Protein System (CNCPS v. 6.55; Cornell University, Ithaca, NY) show that OMD correlates reasonably well with model-predicted milk production of dairy cows fed a standard diet containing approx. 40% corn silage (dry matter basis).

## How is the OMD Index Used?

Feeding value of corn silage is mostly associated with digestibility of NDF or starch. A long-standing goal of PDMP is to create a single measure of silage nutritive value using several variables associated with digestibility. Traditional variables, crude protein (accounted for fiber-bound nitrogen), NDF, starch, lignin, and fat, are combined with digestibility determinations for NDF (NDFD30\*) and starch (IVSD; 7-hour, 1-mm grind). Once combined, these digestibility coefficients sum to predict OMD.

The OMD Index is calculated using the following equation: 
$$\text{OMDI (\%)} = \frac{\{[(\text{crude protein} - \text{NDICP}) \times 0.89] + (\text{total fatty acids} \times 0.75) + (\text{starch} \times \text{IVSD} \div 100) + [(\text{aNDFom} - \text{lignin}) \times \text{NDFD30} \div 100]\}}{[(\text{crude protein} - \text{NDICP}) + \text{total fatty acids} + \text{starch} + (\text{aNDFom} - \text{lignin})] \times 100}.$$

Where: OMDI (%) is Organic Matter Digestibility Index; crude protein, total fatty acids, starch, NDICP (NDF-bound crude protein), aNDFom (ash-free basis, amylase-treated NDF), and lignin (ash-free) are expressed as % of corn silage dry matter; 0.89 is assumed (based on literature data) coefficient of digestibility of silage crude protein; 0.75 is assumed (based on literature data) coefficient of digestibility of silage total fatty acids; IVSD is starch digestibility (by NIRS at 7-hour and sample ground through a 4-mm sieve) expressed as % of starch; and NDFD30.

**Use of OMDI:** The OMD index is intended to represent the digestible portion of silage dry matter and is based on chemical analyses. OMD does not represent the absolute digestibility of silage organic matter, but it is representative of the potentially digestible organic matter and can be used when comparing silage hybrids. ***Simply put, the higher the OMD value, the higher the overall expected digestibility of the silage.*** OMD reflects the digestibility of key nutrients within the entire plant. Producers without carryover of silage should consider the interaction of OMD and DOM (digestible organic matter yield per acre) as yield of digestible organic matter will be equally as relevant as OMD.

## Conclusion

Organic matter digestibility is not a new measure. For years, researchers and nutritionists have used digestibility estimates to formulate rations for dairy cattle. Today, integrating these data is a useful practice to gauge silage value and match hybrid to farm needs. Put simply, OMD measures whole plant digestibility. Emphasis is on digestibility of all main nutrients. In the end, we hope OMD serves to facilitate discussion among producer, seed consultant, and dairy nutritionist as to which hybrids offer the best nutrient value for dairy cows.