



University of Florida/Institute of Food and Agricultural Sciences  
Results from the 2021 Spring Corn hybrid test  
Marcelo Wallau and Diwakar Vyas

| Company            | Hybrid           | Relative maturity | Estimated silage production |               | Milk production per ton | Milk production per acre | Disease score‡ | DM% at harvest | NE <sub>i</sub> |
|--------------------|------------------|-------------------|-----------------------------|---------------|-------------------------|--------------------------|----------------|----------------|-----------------|
|                    |                  |                   | Total Production            | (35% DM)      |                         |                          |                |                |                 |
|                    |                  |                   | lb DM/A                     | Ton silage /A | lb milk/ton silage      | lb milk/A                |                |                | Mcal/lb DM      |
| Agratech           | 1024             | 125               | 18948                       | 27.1          | 3043                    | 28660                    | 0.2            | 30%            | 0.66            |
| Agratech           | 1778 VIP         | 116               | 13969                       | 20.0          | 3416                    | 23855                    | 0.3            | 35%            | 0.71            |
| Agratech           | 85VT2P           | 117               | 17839                       | 25.5          | 3296                    | 29343                    | 1.6 *          | 40%            | 0.70            |
| Agratech           | 88V              | 118               | 16110                       | 23.0          | 3226                    | 25985                    | 2.3 *          | 41% *          | 0.69            |
| Agratech           | 908VIP           | 117               | 16904                       | 24.1          | 3326                    | 28034                    | 2.2 *          | 42% *          | 0.70            |
| Agratech           | V99              | 120               | 14608                       | 20.9          | 3213                    | 21139                    | 1.4 *          | 41% *          | 0.68            |
| Augusta Seed       | A1367-3220GT     | 117               | 12671                       | 18.1          | 3483                    | 22123                    | 2.2 *          | 45% *          | 0.73            |
| Augusta Seed       | A4465-DC5222     | 115               | 13952                       | 19.9          | 3456                    | 24082                    | 0.9            | 34%            | 0.72            |
| Augusta Seed       | A4467-DC5222     | 117               | 13749                       | 19.6          | 3333                    | 22884                    | 1.5 *          | 38%            | 0.70            |
| Augusta Seed       | A8868-VT2Pro     | 118               | 17440                       | 24.9          | 3433                    | 29733                    | 0.6            | 38%            | 0.72            |
| Augusta Seed       | A9967-3000GT     | 117               | 15583                       | 22.3          | 3323                    | 25928                    | 2.8 *          | 47% *          | 0.70            |
| Bayer Crop Science | DKC 61-80 SS RIB | 111               | 13867                       | 19.8          | 3526                    | 24473                    | 0.3            | 33%            | 0.73            |
| Bayer Crop Science | DKC 67-66 SS     | 117               | 16372                       | 23.4          | 3311                    | 27107                    | 0.1            | 35%            | 0.70            |
| Bayer Crop Science | DKC 69-16 SS     | 119               | 17821                       | 25.5          | 3428                    | 30313                    | 0.3            | 38%            | 0.72            |
| Bayer Crop Science | DKC 69-99        | 119               | 17184                       | 24.5          | 3342                    | 28758                    | 1.4 *          | 45% *          | 0.71            |
| Bayer Crop Science | DKC 70-64 SS     | 120               | 13016                       | 18.6          | 3303                    | 21433                    | 0.8            | 34%            | 0.70            |
| Bayer Crop Science | DKC68-69 VT2P    | 118               | 17041                       | 24.3          | 3465                    | 29634                    | 0.4            | 39%            | 0.72            |
| Dyna-Gro Seed      | D53TC19          | 113               | 15250                       | 21.8          | 3664 *                  | 27943                    | 0.1            | 34%            | 0.75 *          |
| Dyna-Gro Seed      | D55QC73          | 115               | 13990                       | 20.0          | 3392                    | 23735                    | 0.8            | 33%            | 0.71            |
| Dyna-Gro Seed      | D55VC80          | 115               | 15350                       | 21.9          | 3457                    | 26478                    | 0.5            | 39%            | 0.72            |
| Dyna-Gro Seed      | D57TC29          | 117               | 14610                       | 20.9          | 3489                    | 25431                    | 1.5 *          | 43% *          | 0.73            |
| Dyna-Gro Seed      | D58QC72          | 118               | 16617                       | 23.7          | 3462                    | 28769                    | 1.3 *          | 38%            | 0.72            |
| Croplan            | 5678vt2p         | 116               | 18430                       | 26.3          | 3591 *                  | 33189 *                  | 0.1            | 38%            | 0.74 *          |
| Croplan            | 5900vt2p         | 119               | 20560 *                     | 29.4 *        | 3408                    | 34887 *                  | 1.4 *          | 39%            | 0.71            |
| LG Seeds           | LG66C28-3220     | 114               | 14541                       | 20.8          | 3387                    | 24527                    | 1.1            | 35%            | 0.71            |
| LG seeds           | LG5643VT2PRO     | 116               | 17103                       | 24.4          | 3523                    | 30079                    | 0.5            | 37%            | 0.73            |
| Local Seed         | LC1506 VT2P      | 115               | 12941                       | 18.5          | 3312                    | 22665                    | 0.5            | 33%            | 0.70            |
| Local Seed         | LC1616 TC        | 116               | 13210                       | 18.9          | 3275                    | 21744                    | 0.5            | 34%            | 0.70            |
| Local Seed         | LC1688 SSXRIB    | 116               | 16372                       | 23.4          | 3542                    | 28942                    | 0.6            | 36%            | 0.73            |
| Local Seed         | LC1707 VT2P      | 117               | 14152                       | 20.2          | 3405                    | 24083                    | 1.8 *          | 46% *          | 0.71            |
| Local Seed         | LC1919 VT2P      | 119               | 17233                       | 24.6          | 3553 *                  | 30520                    | 0.7            | 39%            | 0.73            |

| Company          | Hybrid          | Relative maturity | Total Production | Estimated silage production (35% DM) | Milk production per ton | Milk production per acre | Disease score‡ | DM% at harvest | NE <sub>l</sub> |
|------------------|-----------------|-------------------|------------------|--------------------------------------|-------------------------|--------------------------|----------------|----------------|-----------------|
| Pioneer          | P1847VYHR       | 118               | 16084            | 23.0                                 | 3469                    | 27829                    | 0.7            | 39%            | 0.72            |
| Pioneer          | P1903YHR        | 119               | 21995 *          | 31.4 *                               | 3476                    | 38339 *                  | 1.2            | 40%            | 0.72            |
| Pioneer          | P30F35VYHR      | 135               | 17384            | 24.8                                 | 3204                    | 27819                    | 0.0            | 30%            | 0.68            |
| Progeny Ag       | PGY 2118VT2P    | 116               | 15303            | 21.9                                 | 3426                    | 26144                    | 1.5 *          | 45% *          | 0.72            |
| Progeny Ag       | PGY 8116SS      | 117               | 16764            | 23.9                                 | 3409                    | 28480                    | 0.8            | 37%            | 0.72            |
| Progeny Ag       | PGY 9117VT2P    | 118               | 15975            | 22.8                                 | 3421                    | 27080                    | 1.5 *          | 42% *          | 0.72            |
| SeedKoz          | MorCorn MC 4161 | 111               | 15593            | 22.3                                 | 3590 *                  | 27912                    | 1.2            | 38%            | 0.74 *          |
| SeedKoz          | MorCorn MC 4311 | 113               | 15022            | 21.5                                 | 3580 *                  | 26825                    | 0.4            | 36%            | 0.73 *          |
| SeedKoz          | MorCorn MC 4319 | 113               | 11257            | 16.1                                 | 3443                    | 19391                    | 0.9            | 35%            | 0.72            |
| SeedKoz          | MorCorn MC 4670 | 116               | 19808 *          | 28.3 *                               | 3487                    | 34882 *                  | 0.5            | 38%            | 0.73            |
| SeedKoz          | Phoenix 6542    | 116               | 15740            | 22.5                                 | 3401                    | 26612                    | 0.5            | 34%            | 0.71            |
| SeedKoz          | Phoenix 7402    | 118               | 15025            | 21.5                                 | 3463                    | 26289                    | 1.8 *          | 41% *          | 0.72            |
| Seedway, LLC     | SW 1579SS       | 115               | 16659            | 23.8                                 | 3566 *                  | 29719                    | 0.3            | 38%            | 0.74 *          |
| Seedway, LLC     | SW 1781SS       | 117               | 14322            | 20.5                                 | 3370                    | 23427                    | 1.1            | 42% *          | 0.71            |
| Sun Praire Seeds | SP3517          | 116               | 12529            | 17.9                                 | 3403                    | 21510                    | 0.6            | 34%            | 0.71            |
| Syngenta Seeds   | NK1661-3120A    | 116               | 19365 *          | 27.7 *                               | 3451                    | 34217 *                  | 1.8 *          | 42% *          | 0.72            |
| Syngenta Seeds   | NK1677-3110     | 116               | 14799            | 21.1                                 | 3294                    | 24359                    | 0.3            | 33%            | 0.69            |
| Syngenta Seeds   | NK1748-3110     | 117               | 12845            | 18.4                                 | 3453                    | 22075                    | 0.4            | 38%            | 0.72            |
| Syngenta Seeds   | NK1808-3111     | 118               | 18094            | 25.8                                 | 3412                    | 30896                    | 1.1            | 41%            | 0.71            |
| UF               | 289             |                   | 19490 *          | 27.8 *                               | 3248                    | 31205                    | 0.0            | 33%            | 0.69            |
| <b>Mean</b>      |                 |                   | <b>15912</b>     | <b>22.7</b>                          | <b>3411</b>             | 27088                    | <b>0.9</b>     | <b>38%</b>     | 71.40           |
| <b>SE</b>        |                 |                   | <b>2038</b>      | <b>2.9</b>                           | <b>87</b>               | 3540                     | <b>0.2</b>     | <b>2%</b>      | 1.26            |

\* Indicates hybrids that performed similarly to the best hybrid, according to F-test at  $p < 0.05$ ; n.s. means no statistical difference between hybrids. All mean reported are least square means.

§Hybrids marked with "\*\*\*" are on the top right quadrant of the production chart, with superior biomass production and superior milk production per ton of silage compared to averages.

‡ Disease score - low values mean less disease incidence; \* Indicates hybrids with the most incidence of disease.

#### Parameters:

Disease score: 0 = no disease 3 = heavy disease (>75% incidence)

'Milk per ton of silage' and 'Milk per acre of silage yield' were calculated using the Milk2006 formulas from the University of Wisconsin DM, dry matter (%); NEL, net energy for lactation (Mcal/lb DM)

| Company            | Hybrid           | TDN    | CP    | % DM   |       |        |        | aNDF   | NDFD30 | Top performing (chart) <sup>5</sup> |
|--------------------|------------------|--------|-------|--------|-------|--------|--------|--------|--------|-------------------------------------|
|                    |                  |        |       | Starch | WSC   | ADF    | % NDF  |        |        |                                     |
| Agratech           | 1024             | 68.1   | 8.5 * | 31.1   | 7.7 * | 27.3 * | 45.3 * | 54.8   |        |                                     |
| Agratech           | 1778 VIP         | 73.4   | 7.9   | 41.1   | 5.9   | 21.7   | 38.4   | 61.3   |        |                                     |
| Agratech           | 85VT2P           | 71.8   | 7.6   | 39.3   | 6.3   | 23.6   | 40.9   | 60.3   |        |                                     |
| Agratech           | 88V              | 70.4   | 8.0   | 40.9   | 6.1   | 23.1   | 39.0   | 55.6   |        |                                     |
| Agratech           | 908VIP           | 72.0   | 7.8   | 42.6   | 5.8   | 21.7   | 38.1   | 58.5   |        |                                     |
| Agratech           | V99              | 70.9   | 7.8   | 34.5   | 6.3   | 26.1 * | 44.7 * | 60.1   |        |                                     |
| Augusta Seed       | A1367-3220GT     | 73.9   | 7.5   | 47.0 * | 5.9   | 19.5   | 34.2   | 59.3   |        |                                     |
| Augusta Seed       | A4465-DC5222     | 73.7   | 7.8   | 45.4   | 5.6   | 20.2   | 35.4   | 60.1   |        |                                     |
| Augusta Seed       | A4467-DC5222     | 72.1   | 8.0   | 41.2   | 6.5   | 22.4   | 38.8   | 59.1   |        |                                     |
| Augusta Seed       | A8868-VT2Pro     | 73.6   | 7.7   | 41.1   | 6.4   | 21.7   | 38.3   | 61.7   | **     |                                     |
| Augusta Seed       | A9967-3000GT     | 71.7   | 7.5   | 46.2 * | 6.1   | 21.7   | 36.2   | 56.4   |        |                                     |
| Bayer Crop Science | DKC 61-80 SS RIB | 75.1   | 7.8   | 39.9   | 6.8   | 21.4   | 37.9   | 64.9 * |        |                                     |
| Bayer Crop Science | DKC 67-66 SS     | 71.7   | 7.7   | 40.7   | 6.7   | 23.0   | 39.3   | 57.4   |        |                                     |
| Bayer Crop Science | DKC 69-16 SS     | 73.3   | 7.8   | 43.5   | 6.6   | 21.2   | 36.8   | 59.5   | **     |                                     |
| Bayer Crop Science | DKC 69-99        | 72.1   | 7.5   | 42.1   | 6.1   | 22.2   | 38.5   | 58.2   |        |                                     |
| Bayer Crop Science | DKC 70-64 SS     | 71.8   | 7.4   | 38.5   | 6.8 * | 23.8   | 41.3   | 58.9   |        |                                     |
| Bayer Crop Science | DKC68-69 VT2P    | 73.8   | 7.6   | 44.8   | 6.0   | 19.8   | 35.6   | 59.9   | **     |                                     |
| Dyna-Gro Seed      | D53TC19          | 76.9 * | 8.0   | 44.1   | 7.0 * | 19.0   | 34.0   | 66.9 * |        |                                     |
| Dyna-Gro Seed      | D55QC73          | 72.9   | 7.6   | 42.0   | 5.9   | 21.6   | 37.5   | 60.1   |        |                                     |
| Dyna-Gro Seed      | D55VC80          | 74.0   | 7.3   | 43.0   | 5.9   | 21.1   | 37.8   | 62.6   |        |                                     |
| Dyna-Gro Seed      | D57TC29          | 74.0   | 7.4   | 46.4 * | 5.8   | 20.2   | 35.1   | 59.3   |        |                                     |
| Dyna-Gro Seed      | D58QC72          | 74.0   | 7.8   | 42.4   | 6.0   | 21.1   | 37.3   | 62.1   | **     |                                     |
| Croplan            | 5678vt2p         | 75.3 * | 7.5   | 48.2 * | 6.0   | 17.6   | 32.4   | 60.5   | **     |                                     |
| Croplan            | 5900vt2p         | 73.1   | 8.0   | 41.2   | 6.5   | 21.3   | 37.5   | 59.3   |        |                                     |
| LG Seeds           | LG66C28-3220     | 73.0   | 7.8   | 40.8   | 5.9   | 21.8   | 38.8   | 60.7   |        |                                     |
| LG seeds           | LG5643VT2PRO     | 74.8   | 7.9   | 41.4   | 7.1 * | 20.6   | 35.6   | 63.0   | **     |                                     |
| Local Seed         | LC1506 VT2P      | 72.0   | 7.6   | 39.1   | 6.6   | 23.4   | 40.3   | 59.8   |        |                                     |
| Local Seed         | LC1616 TC        | 71.2   | 8.1   | 38.6   | 6.4   | 22.9   | 39.5   | 57.9   |        |                                     |
| Local Seed         | LC1688 SXRIB     | 74.9   | 7.6   | 45.4   | 5.9   | 19.0   | 34.6   | 61.7   | **     |                                     |
| Local Seed         | LC1707 VT2P      | 73.0   | 7.6   | 44.6   | 5.6   | 20.7   | 36.6   | 59.1   |        |                                     |
| Local Seed         | LC1919 VT2P      | 75.1 * | 7.6   | 45.2   | 6.1   | 19.6   | 35.2   | 62.6   | **     |                                     |

| Company          | Hybrid          | TDN         | CP         | Starch      | WSC        | ADF         | aNDF        | NDFD30      | Top performing (chart) <sup>§</sup> |
|------------------|-----------------|-------------|------------|-------------|------------|-------------|-------------|-------------|-------------------------------------|
|                  |                 |             |            |             |            |             |             |             |                                     |
| Pioneer          | P1847VYHR       | 73.9        | 7.6        | 42.8        | 6.3        | 20.5        | 36.5        | 60.5        | **                                  |
| Pioneer          | P1903YHR        | 74.2        | 7.6        | 42.7        | 5.7        | 20.8        | 37.3        | 62.3        | **                                  |
| Pioneer          | P30F35VYHR      | 70.7        | 8.1        | 35.0        | 6.3        | 25.4 *      | 43.7 *      | 59.0        |                                     |
| Progeny Ag       | PGY 2118VT2P    | 73.3        | 7.4        | 44.3        | 5.6        | 20.9        | 36.9        | 60.0        |                                     |
| Progeny Ag       | PGY 8116SS      | 72.8        | 7.8        | 46.2 *      | 5.8        | 20.1        | 34.5        | 56.6        |                                     |
| Progeny Ag       | PGY 9117VT2P    | 73.1        | 7.7        | 45.0        | 6.3        | 21.1        | 35.9        | 58.0        | **                                  |
| SeedKoz          | MorCorn MC 4161 | 75.9 *      | 7.6        | 43.1        | 6.2        | 19.7        | 35.6        | 65.3 *      |                                     |
| SeedKoz          | MorCorn MC 4311 | 75.8 *      | 7.7        | 40.9        | 6.7        | 20.1        | 36.2        | 66.0 *      |                                     |
| SeedKoz          | MorCorn MC 4319 | 74.1        | 7.3        | 37.9        | 6.3        | 22.8        | 40.2        | 64.0 *      |                                     |
| SeedKoz          | MorCorn MC 4670 | 74.0        | 7.8        | 45.3        | 5.9        | 19.5        | 34.7        | 59.7        | **                                  |
| SeedKoz          | Phoenix 6542    | 73.3        | 7.4        | 40.0        | 5.9        | 22.0        | 39.7        | 61.1        |                                     |
| SeedKoz          | Phoenix 7402    | 73.9        | 7.5        | 43.9        | 6.2        | 20.7        | 36.5        | 60.8        |                                     |
| Seedway, LLC     | SW 1579SS       | 75.3 *      | 7.4        | 46.4 *      | 5.8        | 19.0        | 34.6        | 62.7        | **                                  |
| Seedway, LLC     | SW 1781SS       | 72.4        | 8.0        | 43.5        | 5.7        | 21.2        | 36.6        | 57.7        |                                     |
| Sun Praire Seeds | SP3517          | 73.1        | 7.4        | 41.8        | 6.2        | 21.6        | 38.3        | 60.8        |                                     |
| Syngenta Seeds   | NK1661-3120A    | 73.7        | 7.6        | 45.6        | 5.8        | 20.2        | 35.4        | 60.7        | **                                  |
| Syngenta Seeds   | NK1677-3110     | 72.1        | 8.2 *      | 35.3        | 6.7        | 24.0 *      | 42.1 *      | 62.0        |                                     |
| Syngenta Seeds   | NK1748-3110     | 73.6        | 8.4 *      | 43.8        | 7.1 *      | 20.8        | 34.6        | 59.4        |                                     |
| Syngenta Seeds   | NK1808-3111     | 73.2        | 7.8        | 42.2        | 6.3        | 21.3        | 37.3        | 60.8        | **                                  |
| UF               | 289             | 71.3        | 8.5 *      | 34.2        | 6.9 *      | 25.0 *      | 43.3 *      | 60.0        |                                     |
| <b>Mean</b>      |                 | <b>73.2</b> | <b>7.7</b> | <b>42.0</b> | <b>6.2</b> | <b>21.5</b> | <b>37.7</b> | <b>60.4</b> |                                     |
| <b>SE</b>        |                 | <b>1.2</b>  | <b>0.2</b> | <b>2.6</b>  | <b>0.3</b> | <b>1.5</b>  | <b>2.3</b>  | <b>1.7</b>  |                                     |

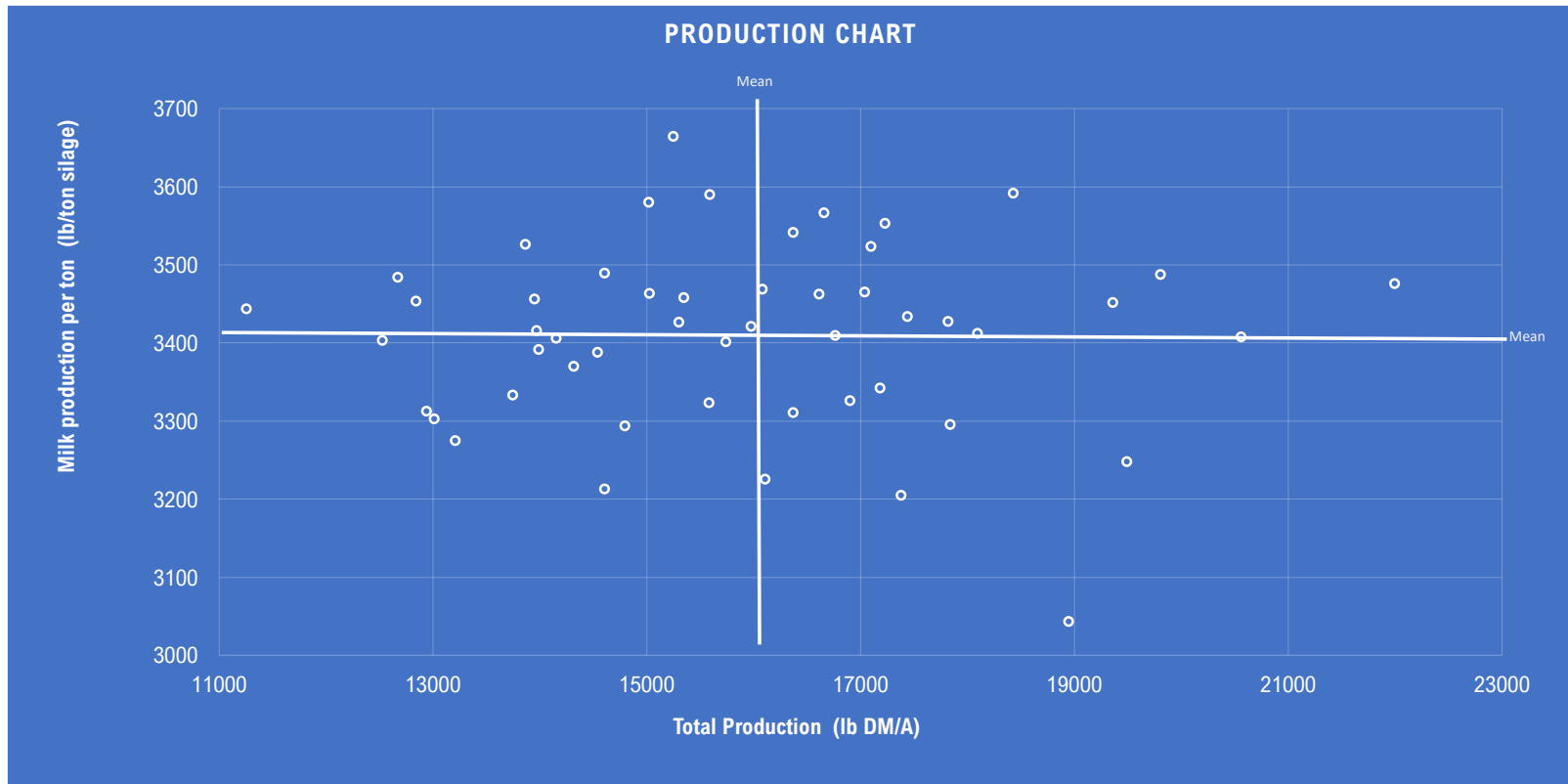
\* Indicates hybrids that performed similarly to the best hybrid, according to F-test at p<0.05; n.s. means no statistical difference between hybrids. All mean reported are least square means.

§Hybrids marked with "\*\*\*" are on the top right quadrant of the production chart, with superior biomass production and superior milk production per ton of silage compared to averages.

‡ Disease score - low values mean less disease incidence; \* Indicates hybrids with the most incidence of disease.

**Parameters:**

TTDN, total digestible nutrients (% DM); CP, crude protein (% DM), IVTDMD30, in vitro true dry matter digestibility at 30h in rumen (% DM); starch (% DM); WSC, water soluble carbohydrates (% DM); ADF, acid detergent fiber (% DM); dNDF30, digestible NDF at 30 h in rumen; NDFD30, NDF digestibility (as % of NDF) at 30 h in rumen



**Disclosure**

This hybrid test is conducted independently by UF/IFAS faculty and is open for all seed companies to enter hybrids for the test.

**Management information**

Trial was conducted at the Plant Science Research and Education Unit, in Citra, FL

Planting date March 17, 2020

Planting rate was 30,628 seeds/Acre, 30-inch rows;

Fertilizer Application LBS/Acre -N 270; P 56; K 211; Mg 16; S 36; Mn 10; Zn 4; divided in pre-incorporated, starter and 4 other applications; Last applications over irrigation

Pesticide application – Counter at planting, with Athrazine, Prowl and Dual; Tebuster, Headline at 30-inch plant height, and Headline Amp at tasseling; Insecticide as needed, total 6 applications (Coragen, Besiege, Warrior and Belt)

Trial was irrigated as needed

Harvest occurred between July 2<sup>nd</sup> and 9<sup>th</sup>, 2021

**Contact**

For more information, contact forages@ifas.ufl.edu