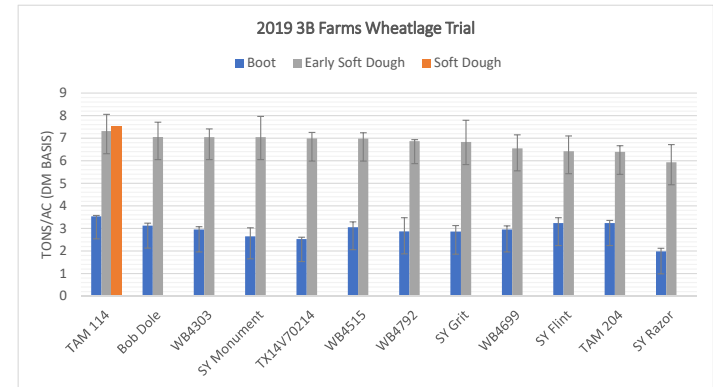


2018-2019 Texas A&M AgriLife Wheatlage Trial at 3B Farms

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| Boot  | Harvest Date | % Forage Yield      |                    | WSC       |        |        |         |          |        |        |        |        |
|-------|--------------|---------------------|--------------------|-----------|--------|--------|---------|----------|--------|--------|--------|--------|
|       |              | Moisture at Harvest | (tons/ac) DM Basis | % CP      | ADF    | aNDF   | (Sugar) | % Starch | TDN    | NEL    | RFV    |        |
| 1     | SY Monument  | 5/13/2019           | 80.3               | 2.7 ± 0.0 | 16.0   | 31.9   | 53.8    | 10.2     | 1.0    | 64.0   | 65.9   | 110.9  |
| 2     | SY Grit      | 5/11/2019           | 79.6               | 2.9 ± 0.1 | 15.1   | 31.8   | 52.8    | 11.8     | 1.0    | 64.1   | 66.0   | 113.2  |
| 3     | Bob Dole     | 5/13/2019           | 83.3               | 3.1 ± 0.1 | 15.4   | 32.7   | 54.8    | 10.4     | 0.9    | 63.4   | 65.3   | 107.7  |
| 4     | SY Flint     | 5/11/2019           | 82.4               | 3.2 ± 0.4 | 14.9   | 34.7   | 56.5    | 9.1      | 0.6    | 61.9   | 63.5   | 101.8  |
| 5     | SY Razor     | 5/13/2019           | 82.9               | 2.0 ± 0.1 | 17.7   | 32.5   | 54.2    | 8.4      | 0.7    | 63.6   | 65.5   | 109.0  |
| 6     | WB4303       | 5/11/2019           | 79.9               | 3.0 ± 0.2 | 14.4   | 31.2   | 53.1    | 12.1     | 1.0    | 64.6   | 66.6   | 113.2  |
| 7     | WB4792       | 5/13/2019           | 82.9               | 2.9 ± 0.6 | 16.2   | 33.3   | 54.8    | 8.8      | 0.6    | 62.9   | 64.7   | 106.8  |
| 8     | WB4515       | 5/13/2019           | 79.7               | 3.1 ± 0.3 | 14.9   | 32.0   | 52.6    | 11.3     | 1.3    | 64.0   | 65.9   | 113.3  |
| 9     | WB4699       | 5/13/2019           | 81.8               | 3.0 ± 0.2 | 14.8   | 32.6   | 54.5    | 10.9     | 0.8    | 63.5   | 65.4   | 108.7  |
| 10    | TAM 204      | 5/13/2019           | 81.0               | 3.2 ± 0.2 | 16.3   | 32.7   | 54.3    | 8.9      | 1.0    | 63.5   | 65.3   | 109.0  |
| 11    | TAM 114      | 5/11/2019           | 81.8               | 3.5 ± 0.1 | 15.9   | 33.6   | 55.5    | 8.7      | 0.7    | 62.8   | 64.5   | 105.3  |
| 12    | TX14V70214   | 5/13/2019           | 79.8               | 2.5 ± 0.1 | 14.9   | 31.1   | 53.1    | 11.3     | 1.8    | 64.7   | 66.7   | 113.5  |
| Mean  |              |                     | 81.3               | 2.9       | 15.5   | 32.5   | 54.2    | 10.2     | 0.9    | 63.6   | 65.4   | 109.4  |
| p-Val |              |                     | ---                | <0.0001   | 0.0243 | 0.0965 | 0.0759  | 0.031    | 0.2477 | 0.0963 | 0.0963 | 0.0863 |
| CV    |              |                     | ---                | 8.8       | 6.3    | 4.0    | 2.7     | 14.2     | 51.8   | 1.6    | 1.7    | 4.2    |
| LSD   |              |                     | ---                | 0.4       | 1.6    | N.S.   | N.S.    | 2.4      | N.S.   | N.S.   | N.S.   | 7.7    |



| Early Soft Dough | Harvest Date | % Forage Yield      |                    | WSC       |        |        |         |          |         |        |       | Forage Yield Soft Dough (tons/ac) DM basis | Grain Yield (bu/ac, 12% Moist.) Harvest Date: 15-Jul-2019 |             |
|------------------|--------------|---------------------|--------------------|-----------|--------|--------|---------|----------|---------|--------|-------|--|---|-------------|
|                  |              | Moisture at Harvest | (tons/ac) DM Basis | % CP      | ADF    | aNDF   | (Sugar) | % Starch | TDN     | NEL    | RFV   |  |   |             |
| 1                | SY Monument  | 6/6/2019            | 68.5               | 7.1 ± 0.7 | 7.9    | 37.9   | 60.5    | 14.6     | 1.8     | 59.4   | 60.8  | 91.4                                       | ---   | 125.9 ± 3.6 |
| 2                | SY Grit      | 6/6/2019            | 70.0               | 6.8 ± 0.7 | 10.1   | 36.9   | 58.8    | 13.2     | 2.4     | 60.2   | 61.6  | 95.7                                       | ---   | 121.2 ± 2.9 |
| 3                | Bob Dole     | 6/6/2019            | 72.7               | 7.1 ± 0.4 | 9.6    | 39.5   | 61.7    | 12.2     | 1.3     | 58.2   | 59.4  | 87.8                                       | ---   | 120.8 ± 9.5 |
| 4                | SY Flint     | 6/6/2019            | 70.9               | 6.4 ± 0.9 | 8.9    | 37.4   | 59.0    | 14.9     | 1.5     | 59.8   | 61.2  | 94.2                                       | ---   | 122.4 ± 6.5 |
| 5                | SY Razor     | 6/14/2019           | 75.6               | 5.9 ± 0.3 | 7.2    | 39.9   | 61.2    | 14.1     | 2.1     | 57.8   | 59.0  | 87.9                                       | ---   | 76.9 ± 5.1  |
| 6                | WB4303       | 6/6/2019            | 72.1               | 7.1 ± 0.1 | 9.2    | 35.8   | 57.1    | 13.5     | 3.7     | 61.0   | 62.6  | 99.6                                       | ---   | 128.2 ± 5.0 |
| 7                | WB4792       | 6/6/2019            | 74.5               | 6.9 ± 1.0 | 10.3   | 40.9   | 63.5    | 10.6     | 0.2     | 57.0   | 58.1  | 83.8                                       | ---   | 125.9 ± 7.2 |
| 8                | WB4515       | 6/6/2019            | 70.0               | 7.0 ± 0.6 | 8.0    | 35.4   | 57.2    | 16.4     | 3.3     | 61.3   | 62.9  | 99.8                                       | ---   | 127.6 ± 8.9 |
| 9                | WB4699       | 6/6/2019            | 72.3               | 6.6 ± 0.7 | 7.7    | 38.4   | 61.0    | 16.7     | 0.1     | 59.0   | 60.3  | 89.9                                       | ---   | 134.5 ± 3.0 |
| 10               | TAM 204      | 6/14/2019           | 72.4               | 6.4 ± 0.3 | 9.1    | 33.2   | 53.8    | 13.3     | 8.3     | 63.1   | 64.8  | 109.2                                      | ---   | 126.8 ± 5.2 |
| 11               | TAM 114      | 6/6/2019            | 71.0               | 7.3 ± 0.8 | 9.6    | 38.4   | 60.0    | 11.4     | 2.5     | 59.0   | 60.3  | 91.4                                       | 7.5   | 121.8 ± 5.5 |
| 12               | TX14V70214   | 6/14/2019           | 70.5               | 7.0 ± 0.8 | 8.3    | 33.1   | 53.1    | 13.9     | 9.7     | 63.1   | 64.9  | 110.7                                      | ---   | 119.8 ± 1.0 |
| Mean             |              |                     | 71.7               | 6.8       | 8.8    | 37.2   | 58.9    | 13.7     | 3.1     | 59.9   | 61.3  | 95.1                                       | ---   | 121.0       |
| p-Val            |              |                     | ---                | 0.425     | 0.0016 | 0.0003 | <0.0001 | <0.0001  | <0.0001 | 0.0003 | 0.003 | <0.0001                                    | ---   | <0.0001     |
| CV               |              |                     | ---                | 9.5       | 9.5    | 4.9    | 3.3     | 8.8      | 47.5    | 2.4    | 2.6   | 5.5  | ---   | 4.6         |
| LSD              |              |                     | ---                | N.S.      | 1.4    | 3.1    | 3.2     | 2.1      | 2.5     | 2.4    | 2.7   | 8.8  | ---   | 8.6         |

|             |  |
|-------------|--|
| % CP        | Crude Protein  |
| ADF         | Acid Detergent Fiber; a fraction of the cell wall includes cellulose and lignin, which is inversely related to energy availability |
| aNDF        | Neutral Detergent Fiber; cell wall fraction of the forage  |
| WSC (Sugar) | Water Soluble Carbohydrate   |
| % Starch    | Starch   |
| TDN         | Total Digestible Nutrients (by Weiss equation) an index of energy concentration.   |
| NEL         | NET ENERGY OF LACTATION (NEL) The amount of energy in a feed which is available for milk production and body maintenance.          |
| RFV         | Relative Feed Value  |