

## Experiments with Corn - 1960

The corn silage production trial and a corn maturity rating trial were conducted at the Dickinson Experiment Station this year in addition to the corn included in the rotation, tillage and fertilizer trials which are summarized under the rotation and tillage sections of this report.

Data from the corn silage production trial are given in Tables 18 and 19. The corn maturity trial for 1960 is summarized in Table 20.

| Table 18. Corn Silage Production Trial - 1960 |   |      |      |      |      |               |                       |
|---|---|------|------|------|------|---------------|-----------------------|
| Description                                   | Green Weight Lbs. Per Acre @ 70% Moisture |      |      |      |      | Av. Tons/Acre | % Moisture at harvest |
|   | 1   | 2    | 3    | 4    | Av.  |               |                       |
| Nodak Multicross 85                           | 5529                                      | 6599 | 4637 | 5350 | 5529 | 2.77          | 78.5                  |
| Nodakhybrid 403                               | 6736                                      | 6827 | 5553 | 3823 | 5735 | 2.87          | 76.9                  |
| Nodakhybrid 502                               | 5856                                      | 5315 | 3829 | 4414 | 4854 | 2.43          | 77.7                  |
| Rainbow flint-Mandan strain                   | 5491                                      | 5825 | 6780 | 6685 | 6196 | 3.10          | 73.3                  |
| Falconer                                      | 4289                                      | 6023 | 5658 | 7119 | 5772 | 2.89          | 76.7                  |
| U. M. 164                                     | 6852                                      | 8336 | 9364 | 9021 | 8393 | 4.20          | 61.3                  |
| A. E. S. 101                                  | 6204                                      | 7238 | 7238 | 6979 | 6915 | 3.46          | 67.7                  |
| Morden 77                                     | 6806                                      | 6417 | 7000 | 6076 | 6575 | 3.29          | 72.0                  |

|                          |      |      |      |       |      |      |      |
|--------------------------|------|------|------|-------|------|------|------|
| Nodakhybrid 301          | 6551 | 5241 | 4679 | 5241  | 5428 | 2.71 | 74.8 |
| Nodakhybrid 208          | 6726 | 6741 | 5079 | 6372  | 5980 | 2.99 | 75.8 |
| Nodakhybrid 305          | 5425 | 4988 | 5075 | 4550  | 5009 | 2.50 | 80.0 |
| Nodakhybrid 306          | 5515 | 5870 | 6671 | 6137  | 6048 | 3.02 | 78.7 |
| Nodakhybrid 307          | 6381 | 7601 | 6475 | 6099  | 6639 | 3.32 | 74.6 |
| Kingscrost KF            | 8905 | 8905 | 5488 | 4142  | 6860 | 3.43 | 67.6 |
| Kingscrost KC 3          | 8444 | 7626 | 4176 | 6265  | 6628 | 3.31 | 77.1 |
| Kingscrost KE 7          | 7116 | 7338 | 8450 | 5426  | 7083 | 3.54 | 78.7 |
| Fargo Seed Multicross 85 | 7778 | 8715 | 5716 | 4873  | 6770 | 3.39 | 74.7 |
| Jacques 820J             | 5405 | 5051 | 4430 | 3987  | 4727 | 2.36 | 79.0 |
| Jacques 803J             | 7178 | 7921 | 6040 | 6436  | 6894 | 3.45 | 70.7 |
| Jacques 870              | 8718 | 9188 | 6410 | 7863  | 8045 | 4.02 | 81.9 |
| Pfister 26               | 5480 | 7955 | 8396 | 10164 | 7999 | 4.00 | 79.2 |
| Pfister 28               | 6740 | 7221 | 9725 | 7221  | 7727 | 3.86 | 72.7 |
| Agasco Hybrid 82         | 5849 | 6176 | 6176 | 6457  | 6165 | 3.08 | 74.8 |
| Agasco Multicross 80     | 7421 | 8338 | 8429 | 5497  | 7421 | 3.71 | 76.4 |
| Agasco Multicross 90     | 5840 | 5353 | 4867 | 6002  | 5516 | 2.76 | 86.3 |
| Agasco Sugarbush         | 6587 | 7685 | 5709 | 7290  | 6818 | 3.41 | 79.7 |

Table 19. Corn Silage Production Trial - 1954-1960

| Description              | Yield in tons per acre <sup>1</sup> |      |      |      |      |      |      | 7 - Yr.<br>Av. | 4 - Yr.<br>Av. |
|--------------------------|-------------------------------------|------|------|------|------|------|------|----------------|----------------|
|                          | 1954                                | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |                |                |
| Nodak 208                | 6.5                                 | 6.1  | 4.9  | 5.4  | 4.5  | 2.6  | 3.0  | 4.7            | 3.9            |
| Nodak 301                | 6.9                                 | 4.8  | 4.3  | 5.2  | 3.4  | 1.9  | 2.7  | 4.2            | 3.3            |
| Nodak 305                | 7.2                                 | 4.5  | 5.0  | 5.2  | 3.8  | 2.3  | 2.5  | 4.4            | 3.5            |
| Rainbow flint<br>(early) | 6.5                                 | 5.0  | 4.9  | 6.9  | 3.7  | 2.8  | 3.1  | 4.7            | 4.1            |
| Falconer                 | 6.4                                 | 4.9  | 4.4  | 6.0  | 4.4  | 2.3  | 2.9  | 4.5            | 3.9            |
| Morden 77                | 4.3                                 | 4.5  | 5.1  | 3.8  | 3.7  | 2.5  | 3.3  | 3.9            | 3.3            |
| Kingscrost KF            | 8.6                                 | 5.6  | 4.8  | 6.1  | 3.9  | 2.5  | 3.4  | 5.0            | 4.0            |
| Nodak 306                |                                     | 5.1  | 5.3  | 4.8  | 3.3  | 2.5  | 3.0  |                | 3.4            |
| AES 101                  |                                     |      | 4.8  | 4.2  | 3.9  | 2.6  | 3.5  |                | 3.6            |
| Kingscrost KC3           |                                     |      | 5.3  | 6.8  | 3.9  | 3.0  | 3.3  |                | 4.3            |
| Nodak 307                |                                     |      |      | 4.3  | 5.3  | 2.2  | 3.3  |                | 3.8            |
| Nodak 403                |                                     |      |      | 5.9  | 4.3  | 2.5  | 2.9  |                | 3.9            |
| Agasco multicross<br>80  |                                     |      |      | 6.4  | 4.0  | 2.6  | 3.7  |                | 4.2            |
| Agasco hybrid 82         |                                     |      |      | 5.6  | 4.4  | 2.5  | 3.1  |                | 3.9            |

|                  |  |  |  |  |     |     |     |  |  |
|------------------|--|--|--|--|-----|-----|-----|--|--|
| U. M. 164        |  |  |  |  | 4.4 | 2.7 | 4.2 |  |  |
| Agasco sugarbush |  |  |  |  |     | 2.7 | 3.4 |  |  |
| Jacques 820      |  |  |  |  |     | 2.0 | 2.4 |  |  |
| Jacques 870      |  |  |  |  |     | 3.0 | 4.0 |  |  |

<sup>1</sup>Yields - 1954-1958 on green weight at harvest basis. 1959- 1960 yields on 70% moisture basis.

| Table 20. Corn Maturity - Yield Total - 1960 |                      |                                    |      |      |      |      |      |      |                         |                           |
|--|----------------------|------------------------------------|------|------|------|------|------|------|-------------------------|---------------------------|
| Description                                  | Relative Maturity    | Green Wt.-Tons/Acre @ 70% Moisture |      |      |      |      |      |      | % Moisture - at harvest | % Protein in Green Sample |
|  |                      | 1                                  | 2    | 3    | 4    | 5    | 6    | Av.  |                         |                           |
|  |                      |                                    | 2    |      |      |      |      |      |                         |                           |
| Kingscrost KF 1                              | 80 day               | 2.57                               | 2.48 | 3.78 | 3.99 | 3.44 | 3.10 | 3.23 | 76.3                    | 3.10                      |
| Kingscrost KC 3                              | 83 day <sup>1</sup>  | 2.82                               | 3.27 | 3.09 | 3.23 | 2.60 | 2.91 | 2.99 | 78.1                    | 3.60                      |
| Kingscrost KE 7                              | 89 day <sup>1</sup>  | 2.71                               | 2.89 | 3.70 | 4.20 | 3.02 | 4.06 | 3.43 | 77.6                    | 3.40                      |
| Kingscrost KC 6                              | 93 day <sup>1</sup>  | 3.46                               | 2.51 | 3.14 | 4.04 | 4.13 | 3.95 | 3.54 | 78.0                    | 2.20                      |
| Kingscrost KA 4                              | 102 day <sup>1</sup> | 3.65                               | 3.51 | 5.10 | 4.56 | 3.92 | 4.97 | 4.29 | 76.8                    | 2.60                      |
| Kingscrost M 2                               | 102 day              | 4.03                               | 3.17 | 4.50 | 4.97 | 4.28 | 5.53 | 4.41 | 81.7                    | 1.70                      |
| Kingscrost Ko-4                              | 105 day              | 3.76                               | 3.98 | 5.71 | 5.41 | 5.41 | 5.15 | 4.90 | 80.9                    | 2.20                      |

|                 |         |      |      |      |      |      |      |      |      |                   |
|-----------------|---------|------|------|------|------|------|------|------|------|-------------------|
| Kingscrost KT   | 110 day | 5.07 | 3.69 | 5.80 | 5.45 | 4.29 | 4.25 | 4.76 | 81.5 | 2.40              |
| Kingscrost KT-6 | 115 day | 3.54 | 3.59 | 4.38 | 5.29 | 3.54 | 4.07 | 4.07 | 80.0 | 2.40              |
| Kingscrost KT-7 | 120 day | 3.81 | 5.16 | 4.59 | 4.73 | 5.16 | 7.44 | 5.15 | 80.0 | 4.80 <sup>1</sup> |

<sup>1</sup>Protein analysis made at Sathe Laboratories, Jamestown, North Dakota. Analyses of KT-7 questionable on basis of protein percentages of previous nine samples.

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[Email: drec@ndsuent.nodak.edu](mailto:drec@ndsuent.nodak.edu)