

## TRIAL SUMMARY

**Crop Type:** Corn Silage  
**Year:** 2020  
**Location:** Jeff Resch, Leader, SK  
**CANTERRA SEEDS Contact:** Joanna Forsberg  
**Retail:** G-Mac's Ag Team – Leader

**Planting Date:** May 11, 2020  
**Harvest Date:** September 28, 2020  
**Trial Type:** Field Scale  
**Row Width:** 30 inches  
**PRIDE Seed Contact:** Sara Meidlinger



| COMPANY   | VARIETY      | CHU  | RM | Moisture % | DM % | TONS/AC AT 65% | TONS/AC ACTUAL | Protein % | ADF % | NDF % | STARCH % | TDN % | NE/l | NE/g | MILK LB/AC | MILK RANK | BEEF LB/AC | BEEF RANK |
|-----------|--------------|------|----|------------|------|----------------|----------------|-----------|-------|-------|----------|-------|------|------|------------|-----------|------------|-----------|
| PRIDE     | AS1027RR EDF | 2375 | 80 | 67.4       | 32.6 | 8.63           | 9.26           | 7.3       | 24.5  | 44.6  | 24.9     | 61    | 1.44 | 0.74 | 9141       | 2         | 614        | 3         |
| PRIDE     | AS1047RR EDF | 2425 | 81 | 72.0       | 28.0 | 9.37           | 11.71          | 8.0       | 23.8  | 41.8  | 23.0     | 59    | 1.40 | 0.67 | 9351       | 1         | 645        | 1         |
| Legend    | LR99S77RR    | 2300 | 79 | 59.0       | 31.0 | 8.51           | 9.61           | 6.9       | 22.5  | 42.8  | 27.4     | 62    | 1.48 | 0.77 | 9134       | 3         | 616        | 2         |
| Northstar | EXP          |      | 89 | 76.1       | 23.9 | 8.00           | 11.71          | 8.9       | 29.9  | 51.9  | 6.0      | 50    | 1.09 | 0.37 | 6448       | 5         | 466        | 5         |
| Legend    | LR9583 VT    | 2550 | 83 | 75.2       | 24.8 | 8.44           | 11.91          | 9.0       | 26.3  | 46.6  | 12.9     | 54    | 1.23 | 0.5  | 7470       | 4         | 532        | 4         |

| Nutrient                         | Target Value    | Definitions   | Reasoning   |
|----------------------------------|-----------------|---|---|
| Dry Matter (DM)                  | 30-40%          | The percentage of forage that is not water  | Excessive moisture content can cause spoilage and decrease silage quality. Too dry is usually associated with reduced digestibility and energy content.                 |
| Crude Protein (CP)               | 7-9%            | Total amount of nitrogen (N) in a forage.   | High protein is desirable. Low protein may be caused by under fertilization, nitrogen competition, or improper harvesting and/or storage.                               |
| Acid Detergent Fiber (ADF)       | 20-33%          | Percent of highly indigestible material in a forage. Comprised of cellulose, lignin, cutin, silica, pectin, and unavailable protein.          | High ADF content is an issue for the same reasons as high NDF content. ADF is negatively correlated to digestibility and energy   |
| Neutral Detergent Fiber (NDF)    | 35-55%          | Partially available to animals. Percent of cell wall material in a forage; cellulose, hemicelluloses, Lignin, cutin, and unavailable protein. | NDF values will generally increase with low grain silage, stress, or immaturity. NDF is an inverse predictor of intake. (higher NDF equals lower intake and visa versa) |
| Starch                           | >28%            | Form of carbohydrates stored in plants. It is the specific polysaccharide of many glucose subunits.   | Usually higher content is better. If starch levels are <28% this usually indicates the silage was cut early or the crop was stressed.                                   |
| Total Digestible Nutrients (TDN) | 67-74%          | Sum of all digestible organic nutrients that are available to the animal, as a % or DM.   | Could be used to express the energy value of the corn silage.   |
| Net Energy for Lactation (NEl)   | >0.64% Mcal/lb  | An estimate of the energy value of a feed used for milk production  | Mega calories of energy for lactation. Higher values usually indicate a better-quality corn silage.   |
| Net Energy for Gain (NEg)        | 0.4-0.5 Mcal/lb | An estimate of the energy for weight gain. Energy above maintenance.  | Mega calories of energy for gain.   |