



# COUNT ON CARGILL!

## Which Corn Silage Hybrid is Best for You?

**A** corn hybrid that's best for grain yield may not be the hybrid that produces the best silage for livestock, according to research conducted by Cargill.

For example, dairy cows need corn silage hybrids that can provide a high percentage of digestible fiber to help achieve top milk production and milk test. Beef cattle on a fattening program need a daily ration with a high energy density for fast weight gain.

The Corn Silage Menu was developed to help you select hybrids based on your livestock needs. We have evaluated our hybrids and identified those that tested highest in key silage traits. Use the Menu to make corn silage decisions.

**Grain Yield** rates hybrids on their grain production ability, adjusted to 15.5 percent moisture within a maturity range. Compare these ratings with silage tonnage and whole plant quality ratings and you will see differences.



By Jim Beck  
Forage Quality Program Manager

**Silage Tonnage** rates hybrids on their ability to consistently produce high tonnage yields within their maturity range. Results of on-farm and research plots (80+ locations 1988-89) were summarized and corrected to 70 percent moisture. This enables us to analyze hybrids for silage tonnage in the same manner we do for grain yield.

The following whole plant quality characteristics are important.

**Digestibility** rates whole plant digestion and energy density. This is an accurate indication of a hybrid's total energy potential.

**Intake Potential** rates the fiber digestibility, a factor that affects potential intake of a ration. This is essential for top milk production.

**Crude Protein** rates the content of the whole plant to contribute crude protein to a ration.

Contact your local Cargill Hybrid Seeds Dealer or call: **1-800-222-5407**

### Corn Silage Menu

| Maturity Day Range | Hybrid | Yield For Maturity            |                                | Whole Plant Quality      |                    |                 |
|--------------------|--------|-------------------------------|--------------------------------|--------------------------|--------------------|-----------------|
|                    |        | Grain Yield at 15.5% Moisture | Silage Tonnage at 70% Moisture | % Digestibility (Energy) | % Intake Potential | % Crude Protein |
| 80-100             | SX 123 | 8                             | 5                              | 9                        | 8                  | 7               |
|                    | 809    | 8                             | 5                              | 9                        | 9                  | 7               |
|                    | 3027   | 7                             | 8                              | 6                        | 7                  | 6               |
|                    | 3477   | 6                             | 7                              | 8                        | 8                  | 7               |
|                    | 842    | 6                             | 8                              | 6                        | 7                  | 8               |
|                    | 3637   | 8                             | 8                              | 8                        | 9                  | 7               |
| 100-110            | 4327   | 9                             | 8                              | 9                        | 7                  | 7               |
|                    | 5327   | 9                             | 7                              | 9                        | 8                  | 6               |
|                    | 6127   | 7                             | 7                              | 8                        | 7                  | 7               |
|                    | 6027   | 7                             | 8                              | 7                        | 8                  | 7               |
|                    | SX 269 | 7                             | 9                              | 5                        | 6                  | 6               |
|                    | 6227   | 8                             | 9                              | 9                        | 9                  | 8               |
| 110-120            | 7877   | 9                             | 8                              | 8                        | 6                  | 6               |
|                    | 7993   | 8                             | 7                              | 9                        | 9                  | 5               |
|                    | 8027   | 8                             | 8                              | 8                        | 9                  | 6               |
|                    | 8127   | 7                             | 9                              | 7                        | 7                  | 5               |
| 120-130            | 8527   | 7                             | 7                              | 6                        | 8                  | 6               |
|                    | 9027   | 7                             | 9                              | 7                        | 7                  | 7               |
|                    | 9427   | 7                             | 8                              | 7                        | 7                  | 6               |

This chart compares Cargill hybrids with each other. The rating scale is 9=Outstanding through 1=Substandard.

The above is based on the best information available in December, 1989. Sources include Cargill, university and on-farm research.

**State-of-the-art techniques** used include In-Vitro Digestible Dry Matter (IVDDM) to simulate the rumen environment using rumen microbial fluid. In-Vitro True Digestibility (IVTD) was used to measure whole plant energy. In-Vitro Cell Wall Digestibility was used to measure the amount of digestible plant fiber available to influence dry matter intake.



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