

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

AC Morgan

White Hulled Milling / General Purpose Oat

AC Morgan is a very high yielding white hulled milling oat with excellent straw strength. In addition, AC Morgan also has excellent forage yield potential and nutrient composition. AC Morgan is susceptible to leaf rust and stem rust. AC Morgan is ideally suited to the lower rust risk areas of Alberta and northern Saskatchewan.

Strengths:

- Excellent grain yield potential
- Most widely-grown oat variety in Alberta and Saskatchewan
- Very good lodging resistance
- High percentage of plump kernels, low percentage of thin kernels

Neutral Traits:

- No longer a “preferred” milling oat due to lower Beta Glucan but still accepted.
- Medium maturity

Weaknesses:

- Susceptible to leaf rust and stem rust

Breeder:

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2017 Alberta Regional Silage Variety Trials

| Variety | # of overall station years | Overall Yield (% of CDC Baler) | Yield Category (% of CDC Baler) | | | Nutritional Data (% of CDC Baler) | | | | | |
|------------------|----------------------------|--------------------------------|---------------------------------|----------------------|-----------------|-----------------------------------|------------|------------|------------|------------|-----------|
| | | | Low <8.0 t/ac | Medium 8.0-11.0 t/ac | High >11.0 t/ac | CP % | TDN % | Ca % | P % | K % | Mg % |
| CDC Baler (t/ac) | | 9.9 | 5.9 | 9.9 | 13.3 | 9.5 | 61.4 | 0.3 | 0.2 | 1.8 | 0.2 |
| CDC Baler | 39 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| CDC Haymaker | 34 | 100 | 105 | 97 | 98 | 98 | 100 | 98 | 101 | 103 | 98 |
| AC Morgan | 38 | 101 | 105 | 96 | 101 | 98 | 101 | 100 | 111 | 100 | 97 |

VG = Very Good ; G = Good ; F = Fair; P = Poor; VP = Very Poor;

2018 Seed Manitoba – Oat Grain Yield Comparison

| Variety | Yield bu/ac | Maturity +/- 96 days | Height +/- 84cm | % Hull | Hull Colour | Test Wt. +/- 39.3lb/bu | Resistance to: | | | | |
|------------------|----------------|----------------------------|-----------------------|-------------|----------------|---------------------------------|----------------|----------|---------------|--------------|-----------|
| | | | | | | | Lodging | Smut | Crown Rust | Stem Rust | BYDV |
| CDC Dancer | 145 | -3 | +13 | 19.6 | White | 0.5 | G | R | I | I | MS |
| CDC Norseman | 151 | -3 | +5 | 20.5 | White | -1.0 | G | MS | MR | S | I |
| CDC Ruffian | 152 | 0 | 0 | 20.5 | White | -0.8 | G | R | I | S | S |
| CS Camden | 159 | +2 | 0 | 21.1 | White | -1.5 | VG | I | MS | S | S |
| AC Morgan | 146 | -1 | +15 | 25.2 | White | -1.0 | G | I | S | S | MS |

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair
R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

2018 Saskatchewan Varieties of Grain - Oat Comparison

| Variety | Yield % of CDC Dancer | | Test Weight (g/0.5L) | % Hull | % Plump | Maturity Rating | Height (cm) | Resistance to: | | | |
|------------------|--------------------------|---------------|----------------------------|-------------|-----------|--------------------|----------------|----------------|--------------|---------------|----------|
| | Area 1 & 2 | Area 3 & 4 | | | | | | Lodging | Stem Rust | Crown Rust | Smut |
| CDC Dancer | 100 | 100 | 253 | 19.8 | 86 | M | 103 | G | I | I | R |
| CDC Norseman | 110 | 108 | 241 | 20.0 | 81 | M | 102 | G | S | MR | MS |
| CDC Ruffian | 114 | 110 | 247 | 20.4 | 88 | L | 95 | G | S | I | R |
| CS Camden | 113 | 114 | 242 | 24.3 | 82 | L | 94 | VG | S | MS | I |
| AC Morgan | 104 | 108 | 236 | 25.1 | 82 | L | 101 | VG | S | S | I |

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2018 Alberta Seed Guide - Oat Grain Yield Comparison

| Variety | Yield as % of CDC Dancer | | | | | Comp Mat (Days) | Test Weight (lb/bu) | Kernel Weight (g/1000) | Height (cm) | Resistance to: | |
|------------------|--------------------------|---------------------|---------------------------|-----------------------------|-------------------------------|-----------------------|---------------------------|------------------------------|----------------|----------------|----------|
| | All Sites | Low <70 bu/ac | Medium 70-100 bu/ac | High 100 to 130 bu/ac | Very High >130 bu/ac | | | | | Lodging | Smuts |
| CDC Dancer | 100 | 100 | 100 | 100 | 100 | E | 41 | 37 | 95 | G | R |
| CDC Norseman | 101 | XX | 100 | 101 | XX | E | 41 | 38 | 94 | G | MS |
| CDC Ruffian | 110+ | 108 | 109 | 116+ | 108 | M | 40 | 39 | 93 | G | R |
| CS Camden | 109+ | XX | 109+ | 106 | XX | L | 41 | 39 | 90 | G | I |
| AC Morgan | 113+ | 113+ | 110+ | 114+ | 115+ | M | 40 | 41 | 91 | VG | I |

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For more information, call 1-800-665-7333 or visit www.secan.com