

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Haymaker Forage Oat



CDC Haymaker is a spring oat with high forage yield potential and forage quality. CDC Haymaker also has improved grain quality and grain yield compared to CDC Baler. CDC Haymaker also has large plump seed with high seed weight.

**Parentage:** CDC Baler X CDC Dancer

### Strengths:

- 7% higher forage yield than CDC Baler
- Good forage quality with improved digestibility
- Tall stature with late maturity
- Large plump seed

### Neutral Traits:

- Moderately susceptible to Crown and Stem Rust

### Weaknesses:

- Smut susceptible
- Fair lodging tolerance

### Breeder:

Dr. Brian Rosnagel and Dr. Aaron Beattie  
Crop Development Centre  
University of Saskatchewan

**PBR 91 Protected**

### 2007-10 FOROYT Forage Oat Trials

| Entry               | DM Yield (kg/ha) | DM Yield as % CDC Baler | DM %        | Forage Score (1-9) | NDF %       | ADF %       | Protein %  |
|---------------------|------------------|-------------------------|-------------|--------------------|-------------|-------------|------------|
| CDC Baler           | 6950             | 100                     | 31          | 7.6                | 55.2        | 33.5        | 7.6        |
| Murphy              | 6708             | 96.5                    | 32.1        | 7.3                | 60          | 36.5        | 8.4        |
| CDC Weaver          | 7524             | 108.2                   | 35.3        | 4.8                | 52.9        | 32.5        | 7.6        |
| <b>CDC Haymaker</b> | <b>7495</b>      | <b>107.8</b>            | <b>31.9</b> | <b>7.2</b>         | <b>54.9</b> | <b>33.5</b> | <b>7.8</b> |

MR=Moderately Resistant; MS=Moderately Susceptible; S=Susceptible; R=Resistant



## 2016 Seed Manitoba – Oat Grain Yield Comparison

| Variety             | Yield<br>bu/ac | Maturity<br>+/-<br>96 days | Height<br>+/-<br>33" | % Hull      | Hull<br>Colour | Test<br>Wt.<br>+/-<br>39.3lb/bu | Resistance to: |           |               |              |            |
|---------------------|----------------|----------------------------|----------------------|-------------|----------------|---------------------------------|----------------|-----------|---------------|--------------|------------|
|                     |                |                            |                      |             |                |                                 | Lodging        | Smut      | Crown<br>Rust | Stem<br>Rust | BYDV       |
| Leggett             | 136            | 0                          | 0                    | 23.0        | White          | 0                               | G              | R         | R             | I            | MS         |
| CDC Dancer          | 129            | -3                         | 5                    | 19.6        | White          | 0.5                             | G              | R         | I             | I            | MS         |
| Ronald              | 128            | 0                          | 1                    | 22.1        | White          | 0                               | VG             | R         | S             | I            | MR         |
| <b>CDC Haymaker</b> | <b>118</b>     | <b>2</b>                   | <b>10</b>            | <b>22.0</b> | <b>White</b>   | <b>-1.0</b>                     | <b>G</b>       | <b>MR</b> | <b>S</b>      | <b>S</b>     | <b>---</b> |

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

## 2016 Saskatchewan Varieties of Grain - Oat Comparison

| Variety             | Yield % of<br>CDC Dancer |               | Test<br>Weight<br>(g/0.5L) | %<br>Hull   | %<br>Plump | Maturity<br>Rating | Height<br>(cm) | Resistance to: |              |               |           |
|---------------------|--------------------------|---------------|----------------------------|-------------|------------|--------------------|----------------|----------------|--------------|---------------|-----------|
|                     | Area<br>1 & 2            | Area<br>3 & 4 |                            |             |            |                    |                | Lodging        | Stem<br>Rust | Crown<br>Rust | Smut      |
| CDC Dancer          | 100                      | 100           | 253                        | 19.8        | 86         | M                  | 103            | G              | I            | I             | R         |
| AC Morgan           | 104                      | 108           | 236                        | 25.1        | 82         | L                  | 101            | VG             | S            | S             | I         |
| <b>CDC Haymaker</b> | <b>88</b>                | <b>94</b>     | <b>225</b>                 | <b>24.9</b> | <b>87</b>  | <b>VL</b>          | <b>111</b>     | <b>G</b>       | <b>S</b>     | <b>S</b>      | <b>MR</b> |

M=Medium; L=Late; VL=Very Late G=Good; VG=Very Good; P=Poor; VP = Very Poor; F=Fair

## 2016 Alberta Seed Guide - Oat Grain Yield Comparison

| Variety                | Yield as % of CDC Dancer |                     |                           |                             |                               | Comp<br>Mat<br>(Days) | Test<br>Weight<br>(lb/bu) | Kernel<br>Weight<br>(g/1000) | Height<br>(cm) | Resistance to: |           |
|------------------------|--------------------------|---------------------|---------------------------|-----------------------------|-------------------------------|-----------------------|---------------------------|------------------------------|----------------|----------------|-----------|
|                        | All<br>Sites             | Low<br><70<br>bu/ac | Medium<br>70-100<br>bu/ac | High<br>100 to 130<br>bu/ac | Very<br>High<br>>130<br>bu/ac |                       |                           |                              |                | Lodging        | Smuts     |
| CDC Dancer             | 100                      | 100                 | 100                       | 100                         | 100                           | E                     | 40                        | 37                           | 93             | G              | R         |
| CDC Baler              | 99                       | 96                  | 106                       | 96                          | XX                            | L                     | 40                        | 43                           | 99             | XX             | S         |
| AC <sup>®</sup> Murphy | 95-                      | 93                  | 96                        | 97                          | 94                            | M                     | 39                        | 36                           | 108            | XX             | S         |
| <b>CDC Haymaker</b>    | <b>104</b>               | <b>XX</b>           | <b>103</b>                | <b>105</b>                  | <b>XX</b>                     | <b>L</b>              | <b>39</b>                 | <b>40</b>                    | <b>100</b>     | <b>F</b>       | <b>MR</b> |

M=Medium; L=Late; VL=Very Late R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

## 2016 Alberta Seed Guide - Silage Yield Comparison

| Variety             | Overall<br>Yield | Overall<br>Station<br>Years of<br>Testing | Yield as % of CDC Baler |                            |                       | Nutritional Data |             |            |            |            |            |
|---------------------|------------------|---|-------------------------|----------------------------|-----------------------|------------------|-------------|------------|------------|------------|------------|
|                     |                  |   | Low<br><7.0<br>t/ac     | Medium<br>7.1-10.0<br>t/ac | High<br>>10.1<br>t/ac | CP<br>(%)        | TDN<br>(%)  | Ca (%)     | P<br>(%)   | K<br>(%)   | Mg<br>(%)  |
| <b>CDC Baler</b>    | <b>9.9</b>       |   | <b>5.6</b>              | <b>9.1</b>                 | <b>12.6</b>           | <b>9.2</b>       | <b>61.8</b> | <b>0.3</b> | <b>0.2</b> | <b>1.8</b> | <b>0.2</b> |
| CDC Baler           | 100              | 27  | 100                     | 100                        | 100                   | 100              | 100         | 100        | 100        | 100        | 100        |
| AC Morgan           | 101              | 26  | 114                     | 95-                        | 101                   | 99               | 102         | 100        | 114        | 98         | 96         |
| <b>CDC Haymaker</b> | <b>99</b>        | <b>22</b>                                 | <b>108+</b>             | <b>94</b>                  | <b>100</b>            | <b>98</b>        | <b>100</b>  | <b>99</b>  | <b>103</b> | <b>105</b> | <b>99</b>  |