

# Technical Bulletin

Genes that fit *your* farm.

**SeCan**

Canada's Seed Partner

## CDC Renegade 2-Row Feed & Forage Barley



### Description:

**CDC Renegade offers a great combination of grain and forage yield in a mid-height smooth awned 2-row barley.** Through registration trials CDC Renegade averaged 97% of CDC Austenson for grain yield potential and **104% for forage yield** potential making it a perfect fit for both grain and forage production. CDC Renegade should perform well in all barley growing regions of Western Canada.

**Parentage:** Xena/SB090601

### Strengths:

- Grain yield 116% CDC Cowboy and 97% of CDC Austenson in registration trials
- Forage yield 104% of both CDC Cowboy and CDC Austenson in registration trials
- High percentage plump seed
- Moderately Resistant to FHB, stem rust and surface smut
- Improved forage quality compared to CDC Cowboy

### Neutral Traits:

- 10cm shorter than CDC Cowboy and 10cm taller than CDC Austenson
- Late maturity similar to CDC Cowboy and CDC Austenson
- Intermediate resistance to spot-form net blotch

### Weaknesses:

- Fair tolerance to lodging similar to CDC Cowboy

### Breeder:

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Crop Development Centre  
University of Saskatchewan  
Saskatoon, SK

### PBR 91 Pending

**2018-2019 Grain Yield, Western Co-operative Forage Barley Registration Trials**

| Variety             | Grain Yield (% of CDC Austenson) | Maturity (days) | Height (cm) | Lodging 1 = erect 9 = flat | Kernel Weight (g) | Test Weight (kg/hl) | Plump (%)   |
|---------------------|----------------------------------|-----------------|-------------|----------------------------|-------------------|---------------------|-------------|
| CDC Austenson       | 100                              | 90.3            | 79.9        | 2.3                        | 49.1              | 66.6                | 92.8        |
| CDC Cowboy          | 81                               | 90.0            | 100.5       | 3.9                        | 54.8              | 66.3                | 96.0        |
| Gadsby              | 92                               | 89.0            | 84.1        | 4.1                        | 54.0              | 65.0                | 97.0        |
| Vivar               | 94                               | 90.2            | 74.4        | 3.3                        | 46.1              | 62.4                | 88.5        |
| <b>CDC Renegade</b> | <b>97</b>                        | <b>90.5</b>     | <b>90.5</b> | <b>3.9</b>                 | <b>51.5</b>       | <b>64.5</b>         | <b>92.9</b> |
| <b># of Sites</b>   | <b>10</b>                        | <b>10</b>       | <b>10</b>   | <b>3</b>                   | <b>10</b>         | <b>10</b>           | <b>10</b>   |

**2018-2019 Dry Matter Yield, Western Co-operative Forage Barley Registration Trials**

| Variety             | Grain Yield (% of Gadsby) | Crude Protein (%) | NDF (%)     | ADF (%)     | IVTD (%)    | Starch (%)  | NDFD (%)    | Carrying Capacity (cow d/ha) | Daily Cost (\$/cow-day) | ADG (kg/d)  | Cost of Gain (\$/kg) |
|---------------------|---------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|------------------------------|-------------------------|-------------|----------------------|
| CDC Austenson       | 102                       | 9.0               | 25.4        | 47.6        | 73.5        | 14.6        | 44.4        | 678                          | \$1.08                  | 0.69        | \$1.67               |
| CDC Cowboy          | 102                       | 8.2               | 27.3        | 49.3        | 71.8        | 12.3        | 42.8        | 703                          | \$1.05                  | 0.62        | \$1.89               |
| Gadsby              | 100                       | 8.4               | 25.8        | 47.4        | 73.6        | 15.1        | 44.4        | 666                          | \$1.08                  | 0.67        | \$1.73               |
| Vivar               | 94                        | 8.8               | 25.8        | 48.3        | 73.2        | 13.5        | 44.7        | 627                          | \$1.12                  | 0.67        | \$1.75               |
| <b>CDC Renegade</b> | <b>106</b>                | <b>8.6</b>        | <b>26.7</b> | <b>47.7</b> | <b>72.9</b> | <b>11.5</b> | <b>43.2</b> | <b>717</b>                   | <b>\$1.03</b>           | <b>0.64</b> | <b>\$1.79</b>        |
| <b># of Sites</b>   | <b>14</b>                 | <b>14</b>         | <b>14</b>   | <b>14</b>   | <b>14</b>   | <b>14</b>   | <b>14</b>   | <b>14</b>                    | <b>14</b>               | <b>14</b>   | <b>14</b>            |

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### Seed Manitoba 2022 - Barley Comparison

| Variety                  | Site Years Tested | Yield bu/ac | Protein %   | Relative Maturity +/- 88 days | Height +/- 89cm | Test Weight +/- 48.7lb/bu | Rough or Smooth Awns | Lodging  | Loose Smut | Surface Borne Smut | Root Rot   | Netted Net Blotch | Spotted Net Blotch | Spot Blotch | Stem Rust | FHB       |
|--------------------------|-------------------|-------------|-------------|-------------------------------|-----------------|---------------------------|----------------------|----------|------------|--------------------|------------|-------------------|--------------------|-------------|-----------|-----------|
| AB Advantage (6R)        | 30                | 106         | 13.3        | +1                            | +15             | 0                         | S                    | VG       | MR         | I                  | ---        | MS                | I                  | I           | I         | S         |
| AB Tofield (6R)          | 29                | 109         | 12.2        | +1                            | +5              | +1                        | S                    | VG       | ---        | MR                 | ---        | MS                | I                  | I           | R         | S         |
| CDC Austenson (2R)       | 55                | 112         | 12.3        | +1                            | 0               | +0.5                      | R                    | G        | S          | R                  | I          | MS                | R                  | MR          | I         | I         |
| CDC Churchill (2R)       | 31                | 110         | 12.2        | +1                            | -5              | -0.2                      | R                    | G        | MS         | MR                 | ---        | MR                | MR                 | I           | MR        | MS        |
| CDC Maverick (2R)        | 29                | 96          | 13.5        | +1                            | +10             | +5.4                      | S                    | F        | S          | R                  | I          | I                 | MR                 | I           | MR        | MR        |
| CONLON (2R)              | 88                | 94          | 12.9        | -1                            | -3              | +0.8                      | S                    | G        | I          | I                  | I          | I                 | MR                 | S           | MR        | MR        |
| Esma (2R) <b>VUA</b>     | 19                | 112         | 12.2        | +1                            | -10             | -0.4                      | ---                  | G        | ---        | ---                | ---        | ---               | ---                | ---         | ---       | ---       |
| <b>CDC Renegade (2R)</b> | <b>18</b>         | <b>110</b>  | <b>12.4</b> | <b>+1</b>                     | <b>7</b>        | <b>-0.3</b>               | <b>S</b>             | <b>F</b> | <b>I</b>   | <b>MR</b>          | <b>---</b> | <b>MS</b>         | <b>MR</b>          | <b>MS</b>   | <b>MR</b> | <b>MR</b> |

Lodging Ratings: F=Fair; G=Good; VG=Very Good Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

### 2022 Saskatchewan Varieties of Grain - Barley Comparison

| Variety             | Years Tested | # Rows   | Awn Type | Yield (% of AAC Synergy) |            | Relative Maturity | Lodging  | Net Form Net Blotch | Spot-Form Net Blotch | Spot Blotch | Scald    | Loose Smut | Other Smuts | Root Rot   | Stem Rust | FHB       |
|---------------------|--------------|----------|----------|--------------------------|------------|-------------------|----------|---------------------|----------------------|-------------|----------|------------|-------------|------------|-----------|-----------|
|                     |              |          |          | Area 1&2                 | Area 3&4   |                   |          |                     |                      |             |          |            |             |            |           |           |
| AAC Synergy         | 7            | 2        | R        | 100                      | 100        | M                 | F        | MR                  | R                    | R           | S        | S          | I           | I          | MR        | I         |
| AB Advantage        | 6            | 6        | S        | 104                      | 99         | VL                | VG       | MS                  | I                    | I           | I        | MR         | I           | ---        | I         | S         |
| AB Tofield          | 4            | 6        | S        | 106                      | 106        | L                 | G        | MS                  | I                    | I           | I        | ---        | MR          | ---        | R         | S         |
| CDC Austenson       | 7            | 2        | R        | 102                      | 103        | M                 | G        | MS                  | R                    | MR          | S        | S          | R           | I          | I         | I         |
| CDC Churchill       | 6            | 2        | R        | 104                      | 104        | M                 | G        | MR                  | MR                   | I           | S        | MS         | MR          | ---        | MR        | MS        |
| CDC Maverick        | 6            | 2        | S        | 79                       | 83         | M                 | F        | I                   | MR                   | I           | MS       | S          | R           | I          | MR        | MR        |
| Esma <b>VUA</b>     | 2            | 2        | R        | 115                      | 105        | M                 | G        | ---                 | ---                  | ---         | ---      | ---        | ---         | ---        | ---       | ---       |
| <b>CDC Renegade</b> | <b>2</b>     | <b>2</b> | <b>S</b> | <b>115</b>               | <b>105</b> | <b>M</b>          | <b>F</b> | <b>I</b>            | <b>MR</b>            | <b>MS</b>   | <b>S</b> | <b>MS</b>  | <b>MR</b>   | <b>---</b> | <b>MR</b> | <b>MR</b> |

M=Medium; L=Late; F=Fair; G=Good; VG=Very Good; P=Poor; VP=Very Poor Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

### 2022 Alberta Seed Guide – Barley Comparison

| Variety                     | 2 or 6 Row | Awn Type | Station Years | Yield % CDC Copeland |                  |                   | Maturity Days +/- CDC Copeland | Test Weight lb/bu | TKW (g)   | Height (cm) | Resistance to Lodging | Disease Tolerance |             |          |                      |                     |             |           |
|-----------------------------|------------|----------|---------------|----------------------|------------------|-------------------|--------------------------------|-------------------|-----------|-------------|-----------------------|-------------------|-------------|----------|----------------------|---------------------|-------------|-----------|
|                             |            |          |               | Overall Yield        | Low <113 (bu/ac) | High >113 (bu/ac) |                                |                   |           |             |                       | Loose Smut        | Other Smuts | Scald    | Spot Form Net blotch | Net Form Net Blotch | Spot Blotch | FHB       |
| <b>CDC Copeland (bu/ac)</b> |            |          |               | <b>108</b>           | <b>86</b>        | <b>138</b>        |                                |                   |           |             |                       |                   |             |          |                      |                     |             |           |
| CDC Copeland                | 2          | R        | 147           | 100                  | 100              | 100               | 98                             | 51                | 50        | 84          | F                     | MS                | I           | S        | I                    | I                   | S           | I         |
| AB Advantage                | 6          | S        | 32            | 108                  | 104              | 110               | 1                              | 50                | 50        | 95          | G                     | MR                | I           | I        | I                    | MS                  | I           | S         |
| AB Tofield                  | 6          | S        | 24            | 108                  | 106              | 109               | 1                              | 50                | 45        | 82          | G                     | XX                | MR          | I        | I                    | MS                  | I           | S         |
| CDC Austenson               | 2          | R        | 52            | 108                  | 107              | 109               | 2                              | 53                | 51        | 79          | G                     | S                 | R           | S        | R                    | MS                  | MR          | I         |
| CDC Churchill               | 2          | R        | 32            | 110                  | 113              | 109               | 0                              | 52                | 49        | 74          | G                     | MS                | MR          | S        | MR                   | MR                  | I           | MS        |
| CDC Maverick                | 6          | S        | 31            | 92                   | 88               | 96                | 1                              | 54                | 55        | 98          | F                     | S                 | R           | MS       | MR                   | I                   | I           | MR        |
| Esma <b>VUA</b>             | 2          | R        | 15            | 116                  | 119              | 114               | 1                              | 51                | 51        | 68          | VG                    | NT                | NT          | NT       | NT                   | NT                  | NT          | NT        |
| KWS Kellie <b>VUA</b>       | 2          | R        | 15            | 120                  | 126              | 114               | 2                              | 50                | 52        | 66          | VG                    | NT                | NT          | NT       | NT                   | NT                  | NT          | NT        |
| <b>CDC Renegade</b>         | <b>2</b>   | <b>S</b> | <b>15</b>     | <b>108</b>           | <b>116</b>       | <b>101</b>        | <b>0</b>                       | <b>50</b>         | <b>52</b> | <b>89</b>   | <b>F</b>              | <b>I</b>          | <b>MR</b>   | <b>S</b> | <b>MR</b>            | <b>I</b>            | <b>MS</b>   | <b>MR</b> |

R=Rough; VG=Very Good, G=Good, F=Fair; P=Poor; VP=Very Poor Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible, NT= Not tested

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