

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

CDC Thrive Canada Western Red Spring Wheat



Clearfield

Production System for Wheat

Description:

CDC Thrive is a Clearfield (imidazolinone tolerant), awnless, hollow-stemmed wheat with higher yield than AC Barrie.

Parentage: CDC Bounty/CDC Imagine

Strengths:

- 6% higher grain yield than AC Barrie in Coop Registration trials
- 13% to 15% higher yield than AC Barrie in Saskatchewan Provincial variety trials
- Stronger straw than AC Barrie
- Resistant to loose smut

Neutral Traits:

- Maturity equal to AC Barrie
- Height equal to AC Barrie
- Grain protein equal to AC Barrie

Weakness:

- "Poor" rating for FHB

Breeder:

Dr. Pierre Hucl
Crop Development Centre
University of Saskatchewan
Saskatoon, SK

2006-2008 Parkland Wheat Cooperative Trials - Registration Data

| Variety | Yield (% AC Barrie) | Maturity (days) | Lodging 1 = erect 9 = flat | Height (cm) | Test Weight (kg/hl) | Kernel Weight (mg/kernel) | Grain Protein (%) | Falling # | FHB Resistance Rating |
|-------------------|---------------------|-----------------|----------------------------------|-------------|---------------------|---------------------------|-------------------|------------|-----------------------|
| AC Barrie | 100 | 98.1 | 1.4 | 89 | 78.9 | 36.3 | 15.5 | 405 | F |
| AC Splendor | 102 | 94.4 | 2.3 | 91 | 77.9 | 35.7 | 15.4 | 391 | P |
| CDC Teal | 103 | 97.5 | 1.7 | 88 | 78.2 | 34.7 | 15.1 | 400 | VP |
| Katepwa | 97 | 97.2 | 2.2 | 92 | 78.4 | 35.1 | 14.8 | 385 | F |
| CDC Thrive | 106 | 97.7 | 1.5 | 90 | 78.9 | 35.8 | 15.3 | 405 | P |

F=Fair; P=Poor; VP=Very Poor;

2011 Seed Manitoba - Wheat Comparison

| Variety | Long Term Average Yield (% AC Barrie) | Site Years Tested | Protein (+/- AC Barrie) | Relative Maturity (days) | Height | Spike Awned | Resistance to: | | | | | | |
|-------------------|---------------------------------------|-------------------|-------------------------|--------------------------|----------|-------------|----------------|------------|----------|-----------|-----------|-----------|-----------|
| | | | | | | | Lodging | Loose Smut | Bunt | Leaf Spot | Stem Rust | Leaf Rust | FHB |
| AC Barrie | 100 | 210 | 0 | 99 | 37" | N | G | MR | I | MS | MR | MS | I |
| 5602HR | 111 | 89 | 0.3 | +1 | 0 | Y | F | R | MR | I | R | R | MR |
| AC® KANE | 108 | 55 | 0.0 | +1 | -2 | Y | G | MS | I | I | R | R | I |
| Harvest | 108 | 60 | -0.1 | -1 | -2 | N | VG | MR | S | MS | R | MR | S |
| CDC Abound | 101 | 42 | -0.2 | +2 | -4 | Y | G | I | I | MS | R | MS | S |
| CDC Imagine | 103 | 39 | 0.5 | 0 | -1 | N | G | MR | MR | MS | I | I | MS |
| Superb | 106 | 89 | -0.1 | +2 | -3 | Y | VG | I | MR | MS | R | S | MS |
| CDC Thrive | 105 | 4 | 0.5 | -1 | 0 | N | G | MR | I | I | MR | I | MS |

Lodging Ratings: F=Fair; G=Good; VG=Very Good

Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

2011 Varieties of Grain Crops for Saskatchewan – Wheat Comparison

| Variety | Years Tested | Yield as % of AC Barrie | | | | Resistance to: | | | | | | | | | | Relative Maturity (days) | Head Awedness | Seed Weight (mg) | Test Weight (kg/hl) | Height (cm) |
|-------------------|--------------|-------------------------|------------|------------|------------|----------------|-----------|-----------|-----------|-------------|------------|----------|-----------|----------|----------|--------------------------|---------------|------------------|---------------------|-------------|
| | | Area 1 & 2 | Area 3 & 4 | Irrigation | Protein | Lodging | Sprouting | Stem Rust | Leaf Rust | Stripe Rust | Loose Smut | Bunt | Leaf Spot | FHB | | | | | | |
| AC Barrie | 11 | 100 | 100 | 100 | 15.0 | G | G | G | P | P | G | F | P | F | 100 | N | 36.0 | 79.9 | 93 | |
| AC Intrepid | 5 | 101 | 104 | 102 | -0.3 | G | P | G | G | G | F | G | P | P | -3 | N | -0.2 | -0.4 | +2 | |
| Harvest | 6 | 101 | 104 | --- | -0.4 | VG | VG | G | G | --- | G | F | P | VP | -1 | N | -0.4 | +0.1 | -6 | |
| AC® Lillian | 6 | 103 | 100 | --- | +0.2 | F | G | G | VG | G | F | G | P | VP | 0 | N | -0.3 | -1.1 | -1 | |
| CDC Abound | 7 | 109 | 106 | --- | -0.3 | G | F | VG | P | --- | F | F | P | VP | 2 | Y | +2.4 | -0.3 | -10 | |
| CDC Imagine | 5 | 98 | 102 | --- | -0.1 | G | F | F | F | F | G | G | P | VP | 0 | N | -1.7 | -1.8 | -3 | |
| Superb | 6 | 109 | 109 | --- | -0.4 | G | G | G | P | P | F | G | VP | P | +3 | Y | +2.6 | -0.5 | -7 | |
| CDC Thrive | 2 | 113 | 115 | --- | 0.0 | G | P | G | F | --- | G | F | F | P | 0 | N | -0.5 | 0.0 | +1 | |

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

2011 Alberta Seed Guide - CWRS Wheat Comparison

| Variety | Overall Yield (1) | | Test Yield Category (2) | | | Comp. Maturity days | Protein % | Test Weight (lb/bu) | Kernel Weight g/1000 | Height (cm) | Resistance to: | | | | Tolerance to: | | |
|------------------------|-------------------|--------------------------|-------------------------|-------------------|----------------|---------------------|-------------|---------------------|----------------------|-------------|----------------|------------|----------|-------------|---------------|----------|----------|
| | All Sites | Station years of testing | Low < 45 bu/ac | Med 45 - 70 bu/ac | High >70 bu/ac | | | | | | Lodging | Loose Smut | Bunt | Stripe Rust | Leaf Spot | Sprout | FHB |
| AC Barrie bu/ac | 59 | | 36 | 57 | 82 | | | | | | | | | | | | |
| AC Barrie | 100 | (240) | 100 | 100 | 100 | M | 14.3 | 63 | 37 | 88 | G | G | F | P | P | G | F |
| AC Intrepid | 102 | (107) | 103 | 104 | 99 | E | -0.5 | 62 | 39 | 90 | G | F | G | F | F | P | P |
| Harvest | 102 | (110) | 99 | 103+ | 101 | E | 0.0 | 62 | 36 | 83 | VG | G | F | F | P | VG | VP |
| CDC Abound | 110+ | (82) | 110+ | 111+ | 108+ | M | 0.0 | 63 | 40 | 82 | G | F | F | F | P | G | P |
| CDC Imagine | 104+ | (76) | 104 | 104 | 105 | E | -0.2 | 61 | 37 | 83 | G | G | G | P | P | F | VP |
| Superb | 112+ | (173) | 112+ | 112+ | 111+ | M | -0.4 | 62 | 42 | 84 | G | F | G | P | P | G | P |
| CDC Thrive | 106+ | (32) | 110 | 106 | 104 | E | +0.1 | 62 | 36 | 85 | G | G | F | XX | F | P | P |

Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

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