

Technical Bulletin

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SeCan

Canada's Seed Partner

AAC Douglas White Hulled Milling Oat



Progress Through Research
Le progrès grâce à la recherche

AAC Douglas is a high β -glucan white hulled oat with high grain yield potential and excellent groat percentage. AAC Douglas performed best in the rust zone of the eastern Prairies and would be a potential Summit replacement. AAC Douglas is rated resistant to smut and moderately resistant to oat crown rust and FHB. AAC Douglas has performed very well in provincial variety trials and looks to be well-suited for production across all western Canada.

Parentage: OT7070/CS Camden

Strengths:

- High β -glucan
- High grain yield potential – 104% Summit
- Good lodging resistance, better than the checks
- Resistant to smut
- Moderately resistant to crown rust and FHB
- White hull

Neutral Traits:

- Intermediate resistance to stem rust and BYVD
- Medium height, -2 cm to AC Morgan and +4 cm to Summit

Weaknesses:

- Slightly higher % thins and lower % plump than the mean of the checks

Breeder:

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Brandon, MB

PBR 91 Protected

Milling Approved!!! – contact your local processor/handler for details in your area

2017-18 Western Cooperative Oat Test

| Entry | Yield as % Average of Checks | Maturity (days) | Lodging 1=best 9=flat | Height (cm) | Test Weight (kg/hl) | % Plump Kernels | % Thin Kernels | Groat % | β -glucan (% db) | Resistance to: | | | |
|--------------------|---------------------------------|-----------------|-----------------------------|--------------|---------------------|--------------------|-------------------|--------------|------------------------|----------------|------------|----------|----------|
| | | | | | | | | | | Stem Rust | Crown Rust | Smut | BYVD |
| CDC Dancer | 93.3 | 93.5 | 1.95 | 100.75 | 57.4 | 93.55 | 1.5 | 75.15 | 4.35 | I | I | R | MS |
| AC Morgan | 108.2 | 97 | 1.91 | 98.7 | 56.4 | 90.45 | 1.75 | 72.1 | 4.2 | S | S | I | MS |
| Summit | 98.5 | 97.5 | 1.90 | 91.15 | 57.3 | 91.15 | 1.6 | 75.9 | 4.75 | I | I | R | I |
| AAC Douglas | 102.1 | 95 | 1.51 | 95.55 | 55.7 | 87.40 | 2.75 | 74.05 | 5.25 | I | MR | R | I |

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

2024 Seed Manitoba - Oat Comparison

| Variety | Site Years Tested | Yield bu/ac | Maturity +/- 96 days | Height +/- 84cm | Test Wt. +/- 39.3lb/bu | % Hull | Hull Colour | Resistance to: | | | | |
|--------------------|-------------------|-------------|----------------------|-----------------|------------------------|-------------|--------------|----------------|----------|------------|-----------|----------|
| | | | | | | | | Lodging | Smut | Crown Rust | Stem Rust | BYD |
| AC Morgan | 36 | 142 | +1 | +15 | -1.0 | 25.2 | White | G | I | S | S | MS |
| AAC Anthony | 16 | 160 | +2 | +15 | -2.3 | 25.8 | White | G | R | S | MS | R |
| AAC Neville | 16 | 157 | +2 | -2 | -0.7 | 25.5 | Yellow | VG | R | S | I | R |
| ORe3541M | 35 | 139 | -2 | -2 | 0.6 | 23.3 | White | VG | R | R | S | MS |
| ORe3542M | 35 | 142 | -1 | -2 | -1.1 | 24.4 | White | VG | R | R | S | S |
| Souris | 60 | 141 | -4 | 0 | 0.5 | 20.9 | White | G | R | MS | MR | MS |
| Summit | 104 | 147 | 0 | -3 | 0.5 | 20.8 | White | G | R | I | I | I |
| AAC Douglas | 36 | 159 | -2 | +3 | -1.0 | 25.9 | White | G | R | MR | I | I |

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

2024 Saskatchewan Varieties of Grain - Oat Comparison

| Variety | Years Tested | Yield % of CS Camden | | Test Weight (g/0.5L) | % Hull | Hull Colour | % Plump | Maturity Rating | Height (cm) | Resistance to: | | | |
|--------------------|--------------|----------------------|------------|----------------------|-------------|--------------|-----------|-----------------|-------------|----------------|-----------|------------|----------|
| | | Area 1 & 2 | Area 3 & 4 | | | | | | | Lodging | Stem Rust | Crown Rust | Smut |
| CS Camden | 7 | 100 | 100 | 242 | 24.3 | White | 82 | L | 94 | VG | S | MS | I |
| AAC Anthony | 4 | 103 | 102 | 241 | 25.5 | White | 95 | L | 99 | G | MS | S | I |
| AAC Neville | 3 | 98 | 100 | 248 | 25.3 | Yellow | 85 | L | 87 | VG | I | S | R |
| AC Morgan | 7 | 100 | 102 | 236 | 25.1 | White | 82 | L | 101 | VG | S | S | I |
| CDC Norseman | 7 | 95 | 95 | 241 | 20.0 | White | 81 | M | 102 | G | S | MR | MS |
| ORe3542M | 7 | 97 | 92 | 247 | 22.5 | White | 95 | L | 93 | VG | S | R | R |
| AAC Douglas | 7 | 102 | 99 | 245 | 20.7 | White | 81 | M | 98 | G | I | MR | R |

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2024 Alberta Seed Guide - Oat Comparison

| Variety | Overall Station Years of Testing | Overall Station Years of Testing | Overall Yield | Yield as % of CS Camden | | Maturity (days +/- CS Camden) | Test Weight (lb/bu) | TKW (g) | Height (cm) | Resistance to Lodging | Tolerance to Smuts |
|--------------------------|----------------------------------|----------------------------------|---------------|-------------------------|-----------------|-------------------------------|---------------------|-----------|-------------|-----------------------|--------------------|
| | | | | Low <115 bu/ac | High >115 bu/ac | | | | | | |
| CS Camden (bu/ac) | | | 124 | 88 | 150 | | | | | | |
| CS Camden | 2023 | 90 | 100 | 100 | 100 | 98 | 40 | 41 | 99 | VG | I |
| AAC Anthony | 2023 | 24 | 106 | 106 | 106 | +3 | 39 | 46 | 104 | G | R |
| AAC Neville | 2023 | 24 | 103 | 105 | 101 | +3 | 41 | 41 | 94 | VG | R |
| AC Morgan | 2023 | 56 | 106 | 104 | 107 | +3 | 41 | 43 | 105 | VG | I |
| ORe3542M | 2019 | 28 | 94 | 95 | 94 | +2 | 40 | 42 | 97 | VG | R |
| AAC Douglas | 2021 | 21 | 101 | 99 | 102 | +2 | 39 | 43 | 101 | G | R |

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

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