

Table 1. Grain yield (kg/ha) for OT3017 and checks from 2005 Western Oat Cooperative trial.

| Entry | Black | (%) | Black & | (%) | Brown | (%) | (%) | | West. | (%) |
|---------------|-------------|------------|-------------|------------|-------------|------------|-------------|-----------|-------------|------------|
| | Soil | CDC | Grey Soil | CDC | Soil | CDC | Irrigated | CDC | Can. | CDC |
| | Zone | Dancer | Zone | Dancer | Zone | Dancer | Lethbridge | Dancer | Total | Dancer |
| Ronald | 4445 | 84 | 8241 | 106 | 6517 | 97 | 7154 | 99 | 6454 | 97 |
| CDC Dancer | 5315 | 100 | 7749 | 100 | 6711 | 100 | 7208 | 100 | 6633 | 100 |
| Morgan | 5009 | 94 | 8587 | 111 | 6218 | 93 | 8333 | 116 | 6781 | 102 |
| OT3017 | 5730 | 108 | 7927 | 102 | 6864 | 102 | 6949 | 96 | 6848 | 103 |
| #SY | 4 | | 4 | | 3 | | 1 | | 12 | |

Table 2. Agronomic characteristics for OT3017 and checks from 2005 Western Oat Cooperative trial.

| Entry | Days to | | Height | Lodge | Test Wt. | Kern. Wt. | Plump | Thins | Groat | Groat Vis. |
|---------------|-----------|-----------|--------------|------------|-------------|-------------|-------------|------------|-------------|------------|
| | Head | Mature | | | | | | | | (cm) |
| | | | | | | | | | | Score |
| Ronald | 66 | 102 | 99.5 | 2.7 | 48.3 | 32.0 | 59.1 | 12.7 | 62.2 | 3.0 |
| CDC Dancer | 64 | 98 | 112.4 | 2.4 | 50.1 | 35.9 | 85.1 | 3.3 | 68.8 | 4.0 |
| Morgan | 65 | 100 | 108.0 | 3.2 | 47.3 | 36.1 | 87.3 | 5.0 | 58.2 | 4.0 |
| OT3017 | 64 | 99 | 103.1 | 2.9 | 45.9 | 39.1 | 86.7 | 2.7 | 62.2 | 4.0 |
| #SY | 6 | 11 | 11 | 8 | 13 | 13 | 6 | 6 | 6 | 6 |

Table 3. Grain quality characteristics for OT3017 and checks from 2005 Western Oat Cooperative trial.

| Entry | Groat ^a | | Fibre Analysis ^b | | NIT ^c | | | ADL ^d | | |
|---------------|--------------------|------------|-----------------------------|-------------|------------------|------------|-------------|------------------|-------------|-------------|
| | Protein | Oil | β-Gluc | TDF | Protein | Oil | Groat | Kernen | Lacombe | Average |
| | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| Ronald | 14.0 | 8.2 | 5.1 | 15.2 | 14.4 | 7.8 | 71.7 | 4.16 | 3.95 | 4.06 |
| CDC Dancer | 13.7 | 6.1 | 4.5 | 13.7 | 13.1 | 5.6 | 75.7 | 4.23 | 3.56 | 3.90 |
| Morgan | 12.1 | 5.9 | 4.4 | 13.7 | 12.4 | 5.6 | 68.6 | 4.63 | 4.89 | 4.76 |
| OT3017 | 14.2 | 8.0 | 4.3 | 13.9 | 15.5 | 7.2 | 72.2 | 0.36 | 0.68 | 0.52 |
| #SY | 5 | 5 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 2 |

^a Percent protein, oil, and β-Glucan values were determined using near infrared reflectance (NIR) spectroscopy, CRC, Wpg.

^b Standard analytical procedures used to quantify β-Glucan and total dietary fibre, CRC, Wpg.

^c Percent protein, oil, and groat determined using NIT, CDC, U of S.

^d ADL = Acid Detergent Lignin – determined using Ankom Fibre Analyzer, CDC, U of S.