2019 Western Canadian Wheat Crop Quality Report

Industry Services
Canadian Grain Commission
Outline

- Harvest Sample Program
- Wheat classes and varieties
- Grading factors and protein
Canadian Grain Commission

The Canadian Grain Commission
• regulates grain handling in Canada
• establishes and maintains science-based standards of quality
• support Canada’s reputation as a consistent and reliable source of high-quality grain
Canadian Grain Commission

The Canadian Grain Commission works to achieve 2 key Departmental Results:

• domestic and international markets regard Canadian grain as dependable and safe
• farmers are fairly compensated for their grain
Harvest Sample Program

- Annual
- Voluntary
- Informative
- Quality data at grainscanada.gc.ca
Harvest Sample Program

Goals

- Assess quality of annual harvest
  - Grades
  - End-use functionality
- Identify grading factors within crops which are relevant to the harvest
- Supports scientific research in grain quality and safety
Harvest Sample Statistics

2019

- 8000 samples graded
- Representing 14 different grain types
  - Cereal crops
  - Oilseeds
  - Pulses
Wheat, Canada Western Red Spring
CWRS
Quality data by crop region, 2019

Wheat, Canada Western Red Spring
Harvest Sample Statistics (As of October 31, 2019)

3372 samples of CWRS

- No. 1 CWRS: 38.9%
- No. 2 CWRS: 38.1%
- No. 3 CWRS: 13.5%
- CW feed: 9.5%
CWRS Protein

13.5% moisture basis

10 Year Average protein – 13.5%
1 CWRS Protein

13.5% moisture basis

- Western Prairies
- Eastern Prairies

<table>
<thead>
<tr>
<th>Crop Year</th>
<th>Western Prairies</th>
<th>Eastern Prairies</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>13.3</td>
<td>14.1</td>
</tr>
<tr>
<td>2016</td>
<td>13.6</td>
<td>13.9</td>
</tr>
<tr>
<td>2017</td>
<td>13.3</td>
<td>12.9</td>
</tr>
<tr>
<td>2018</td>
<td>14.2</td>
<td>13.7</td>
</tr>
<tr>
<td>2019</td>
<td>14.2</td>
<td>14.4</td>
</tr>
</tbody>
</table>
2 CWRS Protein

13.5% moisture basis

<table>
<thead>
<tr>
<th>Crop Year</th>
<th>Western Prairies</th>
<th>Eastern Prairies</th>
<th>Overall Prairies</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>14.0</td>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>13.1</td>
<td>13.7</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>13.2</td>
<td>12.5</td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>13.7</td>
<td></td>
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</tr>
<tr>
<td>2019</td>
<td>13.3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wheat, Canada Western Amber Durum
CWAD
Quality data by crop region, 2019

Wheat, Canada Western Amber Durum
Wheat, CWAD varieties

- Transcend
- CDC Precision
- Brigade
- AAC Spitfire
- Strongfield
- CDC Fortitude
- CDC Alloy
- CDC Verona
- AAC Raymore
- Other varieties

2017
2018
2019
Harvest Sample Statistics (As of October 31, 2019)

812 samples of CWAD
CWAD Grading factors

<table>
<thead>
<tr>
<th>Grading factor</th>
<th>5 CWAD</th>
<th>4 CWAD</th>
<th>3 CWAD</th>
<th>2 CWAD</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mildew</td>
<td>0.8%</td>
<td>4.9%</td>
<td>9.2%</td>
<td>7.3%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Test Weight</td>
<td>0.6%</td>
<td>7.1%</td>
<td>8.5%</td>
<td>12.3%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Hard Vitreous Kernels</td>
<td>19.8%</td>
<td>2.8%</td>
<td>4.0%</td>
<td>7.0%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Sprouted</td>
<td>14.8%</td>
<td>22.2%</td>
<td>9.4%</td>
<td>1.6%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Severely Sprouted</td>
<td>9.2%</td>
<td>0.8%</td>
<td>1.4%</td>
<td>1.8%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Total</td>
<td>22.2%</td>
<td>20.0%</td>
<td>19.8%</td>
<td>7.0%</td>
<td>25.0%</td>
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</tbody>
</table>
CWAD Protein

13.5% moisture basis

10 Year Average protein – 13.1%