### Getreide – Ernte 2019

#### Inhaltsstoffe und Energiegehalte

<table>
<thead>
<tr>
<th></th>
<th>Gerste</th>
<th>Roggen</th>
<th>Triticale</th>
<th>Weizen</th>
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<tbody>
<tr>
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<td>n = 325</td>
<td>n = 161</td>
<td>n = 119</td>
<td>n = 281</td>
</tr>
<tr>
<td>Trockensubstanz</td>
<td>87,6</td>
<td>88,1</td>
<td>88,2</td>
<td>87,8</td>
</tr>
<tr>
<td>(T) in %</td>
<td>(84,3 - 90,0)</td>
<td>(84,0 - 90,8)</td>
<td>(84,0 - 90,8)</td>
<td>(83,2 - 90,8)</td>
</tr>
<tr>
<td>Rohprotein</td>
<td>10,4</td>
<td>8,3</td>
<td>10,2</td>
<td>11,1</td>
</tr>
<tr>
<td>(%)* (Nx6,25)</td>
<td>(7,9 - 13,1)</td>
<td>(6,6 - 11,3)</td>
<td>(8,3 - 12,6)</td>
<td>(8,0 - 14,8)</td>
</tr>
<tr>
<td>Rohfett</td>
<td>2,9</td>
<td>1,7</td>
<td>1,8</td>
<td>2,1</td>
</tr>
<tr>
<td>(%)* mit HCl</td>
<td>(2,5 - 3,2)</td>
<td>(1,4 - 1,9)</td>
<td>(1,5 - 2,1)</td>
<td>(1,8 - 2,4)</td>
</tr>
<tr>
<td>Rohfaser</td>
<td>5,3</td>
<td>1,9</td>
<td>2,2</td>
<td>2,3</td>
</tr>
<tr>
<td>(%)*</td>
<td>(3,9 - 6,3)</td>
<td>(1,2 - 2,7)</td>
<td>(1,5 - 2,8)</td>
<td>(1,6 - 3,1)</td>
</tr>
<tr>
<td>Stärke</td>
<td>51,5</td>
<td>56,7</td>
<td>60,0</td>
<td>60,8</td>
</tr>
<tr>
<td>(%)*</td>
<td>(47,7 - 55,1)</td>
<td>(53,6 - 58,9)</td>
<td>(56,8 - 63,0)</td>
<td>(56,1 - 64,3)</td>
</tr>
<tr>
<td>ME-Schwein (MJ/kg)*</td>
<td>12,8</td>
<td>13,7</td>
<td>13,9</td>
<td>13,9</td>
</tr>
<tr>
<td>(Mischfutterformel 2008)</td>
<td>(12,4 - 13,3)</td>
<td>(13,5 - 14,0)</td>
<td>(13,7 - 14,0)</td>
<td>(13,7 - 14,2)</td>
</tr>
</tbody>
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*S bezogen auf 88 % Trockensubstanz; Stand 16.09.19*
### Getreide – Ernte 2019

#### Energiegehalte und Proteinbewertung

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<td>n = 281</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Mischfutterformel 2008)</td>
<td>12,8</td>
<td>13,7</td>
<td>13,9</td>
<td>13,9</td>
</tr>
<tr>
<td></td>
<td>(12,4 - 13,3)</td>
<td>(13,5 - 14,0)</td>
<td>(13,7 - 14,0)</td>
<td>(13,7 - 14,2)</td>
</tr>
<tr>
<td><strong>ME-Rind (MJ/kg)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11,3</td>
<td>11,8</td>
<td>11,7</td>
<td>11,8</td>
</tr>
<tr>
<td></td>
<td>(11,2 - 11,4)</td>
<td>(11,7 - 11,8)</td>
<td>(11,6 - 11,7)</td>
<td>(11,7 - 11,9)</td>
</tr>
<tr>
<td><strong>NEL (MJ/kg)</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>7,1</td>
<td>7,5</td>
<td>7,4</td>
<td>7,5</td>
</tr>
<tr>
<td></td>
<td>(7,1 - 7,1)</td>
<td>(7,5 - 7,5)</td>
<td>(7,4 - 7,5)</td>
<td>(7,5 - 7,6)</td>
</tr>
<tr>
<td><strong>nXP (g/kg)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>142</td>
<td>145</td>
<td>146</td>
<td>149</td>
</tr>
<tr>
<td></td>
<td>(136 - 149)</td>
<td>(142 - 150)</td>
<td>(143 - 150)</td>
<td>(143 - 157)</td>
</tr>
<tr>
<td><strong>RNB (g/kg)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-6,1</td>
<td>-9,9</td>
<td>-7,1</td>
<td>-6,2</td>
</tr>
<tr>
<td></td>
<td>(-9,1 bis -2,9)</td>
<td>(-12,2 bis -5,9)</td>
<td>(-9,7 bis -3,9)</td>
<td>(-10,0 bis -1,4)</td>
</tr>
</tbody>
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<thead>
<tr>
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<th>Triticale</th>
<th>Weizen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mittelwerte</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Schwankungsbreiten, 2%- bis 98%-Perzentil)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Lysin (%)</strong></td>
<td>0,37</td>
<td>0,31</td>
<td>0,34</td>
<td>0,31</td>
</tr>
<tr>
<td>(0,30 - 0,44)</td>
<td>(0,27 - 0,39)</td>
<td>(0,29 - 0,39)</td>
<td>(0,26 - 0,37)</td>
<td></td>
</tr>
<tr>
<td><strong>Methionin &amp; Cystin (%)</strong></td>
<td>0,40</td>
<td>0,34</td>
<td>0,40</td>
<td>0,41</td>
</tr>
<tr>
<td>(0,33 - 0,48)</td>
<td>(0,29 - 0,42)</td>
<td>(0,34 - 0,48)</td>
<td>(0,31 - 0,54)</td>
<td></td>
</tr>
<tr>
<td><strong>Threonin (%)</strong></td>
<td>0,35</td>
<td>0,28</td>
<td>0,31</td>
<td>0,31</td>
</tr>
<tr>
<td>(0,28 - 0,43)</td>
<td>(0,24 - 0,35)</td>
<td>(0,26 - 0,38)</td>
<td>(0,24 - 0,40)</td>
<td></td>
</tr>
<tr>
<td><strong>Tryptophan (%)</strong></td>
<td>0,13</td>
<td>0,09</td>
<td>0,12</td>
<td>0,14</td>
</tr>
<tr>
<td>(0,11 - 0,16)</td>
<td>(0,08 - 0,11)</td>
<td>(0,11 - 0,14)</td>
<td>(0,12 - 0,18)</td>
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<thead>
<tr>
<th>Mineralstoffe</th>
<th>Mittelwerte / Anzahl</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gerste</td>
</tr>
<tr>
<td>Calcium</td>
<td>&lt; 0.05</td>
</tr>
<tr>
<td>(%)*</td>
<td>n = 40</td>
</tr>
<tr>
<td>Phosphor</td>
<td>0,32</td>
</tr>
<tr>
<td>(%)*</td>
<td>n = 147</td>
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<th>Inhaltsstoffe und Energiegehalte 2012 - 2019</th>
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<tbody>
<tr>
<td>Weizen</td>
<td>(Schwankungsbreiten, 2%- , 98%-Perzentil)</td>
</tr>
<tr>
<td><strong>2019: n = 281</strong></td>
<td></td>
</tr>
<tr>
<td>Trockensubstanz (T) in %</td>
<td>87,8</td>
</tr>
<tr>
<td>(83,2 - 90,8)</td>
<td></td>
</tr>
<tr>
<td>Rohprotein (%)* (Nx6,25)</td>
<td>11,1</td>
</tr>
<tr>
<td>(8,0 - 14,8)</td>
<td></td>
</tr>
<tr>
<td>Rohfett (%)* mit HCl</td>
<td>2,1</td>
</tr>
<tr>
<td>(1,8 - 2,4)</td>
<td></td>
</tr>
<tr>
<td>Rohfaser (%)*</td>
<td>2,3</td>
</tr>
<tr>
<td>(1,6 - 3,1)</td>
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<td>Stärke (%)*</td>
<td>60,8</td>
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<td>(56,1 - 64,3)</td>
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<td>ME-Schwein (MJ/kg)*</td>
<td>13,9</td>
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<td>87,6 (84,3 - 90,0)</td>
<td>87,9</td>
</tr>
<tr>
<td>Rohprotein (%)* (Nx6,25)</td>
<td>10,4 (7,9 - 13,1)</td>
<td>11,4</td>
</tr>
<tr>
<td>Rohfett (%)* mit HCl</td>
<td>2,9 (2,5 - 3,2)</td>
<td>2,9</td>
</tr>
<tr>
<td>Rohfaser (%)*</td>
<td>5,3 (3,9 - 6,3)</td>
<td>5,1</td>
</tr>
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<td>Stärke (%)*</td>
<td>51,5 (47,7 - 55,1)</td>
<td>51,6</td>
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<td>ME-Schwein (MJ/kg)* (Mischfutterformel 2008)</td>
<td>12,8 (12,4 - 13,3)</td>
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<tr>
<td>Trockensubstanz (T) in %</td>
<td>88,1 (84,0 - 90,8)</td>
<td>88,0 85,0 85,4 86,5 85,9 86,5 86,1</td>
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<tr>
<td>Rohprotein (%)* (Nx6,25)</td>
<td>8,3 (6,6 - 11,3)</td>
<td>9,3 8,3 8,4 8,4 7,9 8,4 8,3</td>
</tr>
<tr>
<td>Rohfett (%)* mit HCl</td>
<td>1,7 (1,4 - 1,9)</td>
<td>1,7 1,8 1,6 1,6 1,7 1,8 1,8</td>
</tr>
<tr>
<td>Rohfaser (%)*</td>
<td>1,9 (1,2 - 2,7)</td>
<td>2,0 2,5 2,2 2,0 2,3 2,6 2,5</td>
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<tr>
<td>Stärke (%)*</td>
<td>56,7 (53,6 - 58,9)</td>
<td>56,3 56,6 56,1 56,0 55,5 55,2 55,6</td>
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