NEW CULTIVARS

Winter wheat PS Pintta

Winter wheat (*Triticum aestivum* L.)
Registered: Slovak Republic, 2011
Breeder’s rights: Plant Production Research Centre Piešťany, Slovak Republic

Breeder and maintainer: Plant Production Research Center Piešťany, Research and Breeding Station Vígľaš-Pstruša

Pedigree: Brea × Tam 200

Description: PS Pintta is an early cultivar; the length of straw is medium. The ear is dense with parallel shape, medium length and short awns on the tip of the ear. Colour of the ear is white. An average weight of thousand grains is 43.4 g. PS Pintta does not have bread-making quality.

Disease Resistance: PS Pintta is a cultivar with comprehensive resistance to most of fungal diseases. It has better resistance than check cultivars to powdery mildew, leaf spot diseases, Fusarium head blight. Resistance to yellow and leaf rust is worse than in control cultivars (Table 1).

Frost hardiness: PS Pintta possesses medium frost resistance.

Grain yield: During the Official State Trials (in 2008–2010) PS Pintta had very good and stable grain yields. This cultivar had higher grain yield than average of standard cultivars in all production areas. In comparison with standard cultivars, PS Pintta had the highest grain yield in maize growing region by 8.1% higher than average yield of standard cultivars, in sugar beet growing region by 0.1% and in potato growing region by 6.2%.

Other characteristics: PS Pintta has very good drought resistance and good lodging resistance. This cultivar is suitable for growing in all production areas. Recommended seeding rate is 4.5 million germinated seeds per ha in maize production area and 5.0 million germinated seeds per ha in sugar beet and potato production area.

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Fusarium head blight</th>
<th>Powdery mildew</th>
<th>Leaf spots</th>
<th>Yellow rust</th>
<th>Leaf rust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check cultivars</td>
<td>7.1</td>
<td>5.8</td>
<td>4.9</td>
<td>9.0</td>
<td>6.2</td>
</tr>
<tr>
<td>PS Pintta</td>
<td>7.6</td>
<td>6.5</td>
<td>5.4</td>
<td>8.8</td>
<td>5.1</td>
</tr>
</tbody>
</table>

Table 1
Results of resistance to diseases (from Official trials) (1 – susceptible, 9 – resistant)