

NEW CULTIVARS

VIGLANKA

Winter wheat (*Triticum aestivum* L.)

Registered: Slovak Republic, 2010

Breeder's rights: Plant Production Research Center Piešťany, Slovak Republic

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

Description and agricultural attributes:

Viglanka is medium early cultivar, medium growth. Colour of ear is white. An average weight of thousand seeds is 47.1 g.

Bread-making quality:

In the Official Trials Viglanka was classified as wheat of high bread-making quality (7–8). Cultivar has very good test weight. Protein content and wet gluten content are higher than standard cultivar Ilona. During the Official Trials Viglanka reached good and stable falling number and high Zeleny sedimentation value. Water-binding capacity and dough stability are good. In the year 2008 had lower loaf volume.

Grain yield:

During the Official Trials Viglanka had very good and stable yields in all production areas and exceeded average yield of standards. In comparison to standard cultivars Viglanka had the highest yield in sugar beet growing region, where had by 6.7% higher yield than average yield of standard cultivars. In maize growing region exceeded average yield of standard cultivars by 4.6% and in potato growing region by 3.4%.

Resistance to biotic and abiotic environment factors:

Viglanka has medium to good winterhardiness and resistance to lodging. Resistance to *Erysiphe graminis* has also medium to good. Resistance to *Puccinia tritici* and leaf spot diseases is medium.

Recommended agrotechnology:

Viglanka is suitable for growing in all production areas. Good yield gives after better foregoing crops. Recommended seeding rate is 4.5 mil. germinated seeds ha⁻¹ in maize production area and 5.0 mil. germinated seeds ha⁻¹ in sugar beet and potato production area. During the flowering requires treatment against ear fusarium and leaf diseases.

Preferences:

High bread-making quality – high weight of grain – high yield.

PINGPONG

Winter tritikale (*XTriticosecale* Witt.)

Registered: Slovak Republic, 2010

Breeder's rights: Plant Production Research Center Piešťany, Slovak Republic

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

Description and agricultural attributes:

This cultivar is winter type, which is suitable for growing for feed purpose. It is medium early cultivar. In the Official Trials Pingpong was tested in the years 2008, 2009. This cultivar gives dense growth with productive ears, ears are medium dense to dense. It has large grain and high weight of thousand seeds (50.8 g). Height of plant is medium (126 cm).

Grain yield:

Pingpong during the Official Trials exceeded in all production areas average yield of standards. In comparison to standard cultivars Pingpong had the highest yield in maize growing region, where reached 114.5%, in mountain growing region 110.3%, in potato growing region 102.1% in comparison to standard cultivars. In Slovak Republic reached average yield 10.18 t ha⁻¹, it is 107.2% in comparison to standard cultivar Benetto.

Resistance to biotic and abiotic environment factors:

Pingpong has medium to good resistance to lodging, good health condition. Resistance to *Fusarium nivale* is good, resistance to *Erysiphe graminis* and *Puccinia recondita* is very good, resistance to leaf spot is medium. Resistance to *Pseudocercospora herpotrichoides*, ear septoria and ear fusarium is on the same level as standard cultivars.

Recommended agrotechnology:

Pingpong is suitable for growing in all growing regions. This cultivar has no special demands for agrotechnics. Recommended seeding rate is 4.5 mil. germinated seeds ha⁻¹. Sowing depth is 3–4 cm. It is necessary to treat the seed against *Fusarium nivale*. The sowing date is September, 25 – October, 5.

Preferences:

Stable yields – good health condition – winterhardiness.