Common oat VILIAM

Common oat (Avena sativa L.)
Registered: Slovak Republic, 2011
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
Pedigree: Aragon × Kanton

Description and agricultural attributes: Grain color is yellow. Viliam is medium to early maturing of common oat cultivar. The heading time is only one day later than the control cultivar Valentin and period of maturity is the same as the control. The height stand is small (1.01 m) and resistance to lodging is very good, the same as the control cultivar Valentin. Viliam has high weight of thousand grains – 36.21 g, volume weight – 51.5 kg hl⁻¹ and high % of huskiness (29.0%).

Resistance to diseases: Very good resistance to powdery mildew, good resistance to stem rust (Puccinia graminis), crown rust (Puccinia coronata) and leaf spot.

Grain yield: Viliam had the high yields in the mountain growing region. During the Official Trials (2009–2010) cultivar Viliam reached average yield 103.2% (98% in the potato growing region and 111% in the mountain growing region) compared to the control cultivar Atego.

Agrotechnical recommendation: Early spring sowing, sowing rate is 5.0 million germination seeds per ha and nitrogen fertilization 60–80 kg per ha (depending on forecrop) are recommended.

Agrotechnical control: Protection against Oscinella frit is needed at least twice during vegetation (1st application after emergence and 2nd application during heading). Protection of lodging is not necessary.

Preferences: very high yield (especially in the mountain growing region), high weight of thousand grains, high volume weight, good resistance to diseases, very good resistance to lodging.
Common oat PROKOP

**Common oat** (*Avena sativa* L.)  
**Registered:** Slovak Republic, 2011  
**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  
**Pedigree:** Neklan × Atego

**Description and agricultural attributes:** Prokop is early maturing common oat cultivar with yellow color of grain. The height stand is medium (1.07 m) with medium height panicle. Cultivar Prokop has high of weight of thousand grains – 33.88 g, volume weight – 51.4 kg hl⁻¹ and medium % of huskiness (27.0%). Resistance to lodging is good.

**Resistance to diseases:** Good resistance to powdery mildew, good resistance to stem rust (*Puccinia graminis*), crown rust of oat (*Puccinia coronata*) and leaf spot.

**Grain yield:** Prokop had the high yields in the mountain growing region. During the Official Trials (2009–2010) cultivar Prokop reached average yield 102.0% (100% in the potato growing region and 108% in the mountain growing region) compared to the control cultivar Atego.

**Agrotechnical recommendation:** Early spring sowing, sowing rate is 5.0 million germination seeds per ha and nitrogen fertilization 60–80 kg per ha (depending on forecrop) are recommended.

**Agrotechnical control:** Protection against *Oscinella frit* is needed at least twice during vegetation (1st application after emergence and 2nd application during heading). Protection of lodging is not necessary.

**Preferences:** Very high yield (especially in the mountain growing region), high volume weight, medium % of huskiness, good resistance to diseases.

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