



**Cereal plants of
Institutes for Agricultural
Research and
Educational Farm
University of Debrecen**



Debrecen, 2017

Innovatív Tudomány

Innovation Science

Debreceni Egyetem Agrár Kutatóintézetek és Tangazdaság

University of Debrecen
Institutes for Agricultural Research and Educational Farm



4032 Debrecen, Böszörményi út 138.
Telefon: +36 52 508-444
E-mail: deakit@agr.unideb.hu
Honlap: www.agr.unideb.hu

4032 Debrecen, Böszörményi Str. 138. Hungary
Phone: +36 52 508-444
E-mail: deakit@agr.unideb.hu
Web: www.agr.unideb.hu



Cereal plants of Institutes for Agricultural Research and Educational Farm University of Debrecen



Research Institute
of Karcag



Research Institute
of Nyíregyháza

Debrecen, 2017

FOREWORD

The Institutes for Agricultural Research and Educational Farm (IAREF) of the University of Debrecen carry out agricultural research and development and innovation activities, which are required for the development of Hungarian agricultural and food industry products, regional, domestic and international research and development, maintenance of genetic background and provision of the professional foundation of regional and rural development. As regional knowledge centres, the three research institutes of IAREF deal with the breeding of winter and spring cereals (perennial rye, winter barley, winter wheat, winter triticale, rye, oat). Their primary focus has been the breeding of drought resistant varieties adapted to unfavourable circumstances for more than seven decades.

Meteorological extremities that are more and more frequent in the Carpathian basin can be responded to by means of agro-technology and proper variety selection and breeding. According to breeding experiences, crop varieties bred under different climatic and agro-technological circumstances are more able to tolerate the unfavourable characteristics of certain regions, providing significant yield stability for farmers. Beyond yield stability, the fact that breeding and utilisation of varieties adapted to certain regions/districts contribute to environmental sustainability, because they result in the less pressure under the given agro-ecological, pedological and agro-technological conditions. Our varieties are able to provide excellent quantitative and/or qualitative value even under unfavourable circumstances. Due to their stress tolerance, they can be successfully grown in other geographic districts as well.

August 2017, Debrecen

Dr. József Zsembeli
director, IAREF
Research Institute
of Karcag

Dr. László Zsombik
director, IAREF
Research Institute
of Nyíregyháza

Dr. Judit Dobránszki
Scientific Director-General, IAREF

Editor:
Nóra Mendlerné Dr. Drienyovszki
Ágnes Lajtos
Bianka Véghné Tóth

Translation:
Péter Fejér

Publisher:
Dr. Judit Dobránszki
Scientific Director-General
University of Debrecen
Institutes for Agricultural Research and Educational Farm

Press: Printart-Press Kft., Debrecen, 2017
ISBN 978-963-473-971-5

KRISZTA



Year of registration: 1998

Botanical characteristics:

- 150-180 cm plant height, well stooling, perennial variety.
- Medium stalk stability and resistance to brown rust.
- Long, loose ear, susceptible to ear breaking, thousand kernel weight: 12-15 g.
- Thin, peaked grains, sensitive to mechanical damage.

Economic value:

- Very good drought and winter tolerance, excellent adaptability.
- Primarily utilisable through gazing and cutting both in clear sowing or with an accompanying crop. Green forage crop with favourable nutritive properties, which is suitable for the protection of soils against erosion.
- Frequent component of wild pastures and green forage mixes.
- Its high dry matter content is utilisable through energy production.
- By means of proper technology, it could last for 3 years on weak sandy soils and 5 years on better soils.
- Green yield is 20-50 t/ha/year, grain yield is 0.4-0.8 t/ha/year.

UD IAREF Research Institute of Nyíregyháza

HU-4400 Nyíregyháza, Westsik Vilmos Str. 4-6.
+36-42-594-300 • e-mail: nykutato@agr.unideb.hu
<http://portal.agr.unideb.hu/kutatointezetek/nyki/bemutakozas/index>

PERENNIAL RYE

KG APAVÁR



Year of registration: 2011

Botanical characteristics:

- Medium high stalk height.
- Very early earing.
- Multirow, slightly waxed ears.
- Good stability.
- Excellent yield potential, frost and winter tolerance.
- Very good drought resistance and artificial fertiliser reaction.

Economic value:

- Medium sensitivity to powdery mildew.
- Above-average resistance to Rhinosporium leaf spots and leaf rust.
- Good tolerance against barley yellow dwarf virus (BYDV).
- Hectolitre weight 60-61 kg.
- Thousand kernel weight 40-44 g.
- Raw protein content 11.0-12.0 %.
- Optimal sowing time: 1st – 25th October.
- Recommended seed dose: 4.5-5.0 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER BARLEY

KG KONTA

Year of registration: 2008

Botanical characteristics:

- Medium stalk height.
- Very early earing.
- Medium waxed, multirow ear.
- Good stability.
- Excellent yield potential, frost and winter tolerance.
- Very good drought resistance and artificial fertiliser reaction.

Economic value:

- Resistant to Rhizosporium leaf spots.
- Average resistance to Helminthosporium leaf spots.
- Medium resistance to dwarf rust and powdery mildew.
- Hectolitre weight: 65-67 kg.
- Thousand kernel weight 42-46 g.
- Raw protein content: 12.5-13.5 %.
- Optimal sowing time: 1st – 25th October.
- Recommended seed dose: 4.8-5.5 million/ha.
- Infections caused by barley yellow dwarf virus (BYDV) can be avoided through later sowing.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER BARLEY

KG PUSZTA

Year of registration: 2002

Botanical characteristics:

- Medium stalk height.
- Mid-early earing.
- Weak-medium waxed, multirow ear.
- Excellent stability, frost and winter tolerance.
- Good yield potential.
- Very good drought resistance and artificial fertiliser reaction.

Economic value:

- Resistant to Rhizosporium leaf spots.
- Average resistance to Helminthosporium leaf spots.
- Medium resistance to dwarf rust and powdery mildew.
- Hectolitre weight: 62-65 kg.
- Thousand kernel weight 41-43 g.
- Raw protein content: 12.0-13.0 %.
- Optimal sowing time: 10th – 25th October.
- Recommended seed dose: 4.8-5.5 million/ha.
- Infections caused by barley yellow dwarf virus (BYDV) can be avoided through later sowing.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER BARLEY

KUNSÁGI 2



Year of registration: 1996

Botanical characteristics:

- Medium stalk height.
- Mid-early earing.
- Moderately waxed, multirow ear.
- Excellent frost and winter tolerance.
- Good yield potential and stability.
- Very good drought resistance and artificial fertiliser reaction.

Economic value:

- Medium resistance to Rhizosporium leaf spots.
- Medium sensitivity to Helminthosporium leaf spots.
- Higher than medium sensitivity to dwarf rust and powdery mildew.
- Hectolitre weight: 60-62 kg.
- Thousand kernel weight 38-40 g.
- Raw protein content: 13.0-14.5 %.
- Optimal sowing time: 10th – 25th October.
- Recommended seed dose: 4.0-5.0 million/ha.
- Infections caused by barley yellow dwarf virus (BYDV) can be avoided through later sowing.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER BARLEY

HUNOR



Year of registration: 1998

Botanical characteristics:

- Low-medium stalk height.
- Strongly waxed stalk.
- Medium waxed, hairless ear.
- Excellent resistance to lodging, frost, winter and drought tolerance.
- Good yield potential and artificial fertiliser reaction.
- Medium resistance to stem and leaf rust and other diseases.
- Proper yellow rust resistance.

Economic value:

- Hectolitre weight: 78-81 kg.
- Thousand kernel weight: 43-45 g.
- Wet gluten content: 28-32 %.
- Gluten spread: 1.5-2.5 mm/h.
- Falling number: 340 s.
- Farinograph value: A2-B1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 5.2-5.5 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG BENDEGÚZ



Year of registration: 2006

Botanical characteristics:

- Medium stalk height.
- Strongly waxed stalk.
- Strongly waxed, hairless ear.
- Excellent resistance to lodging, frost, winter and drought tolerance
- Very good yield potential.
- Medium resistance to stem and leaf rust.
- Proper resistance to yellow rust and other diseases.

Economic value:

- Hectolitre weight: 76-78 kg.
- Thousand kernel weight: 46-48 g.
- Wet gluten content: 32-34 %.
- Gluten spread: 3.0-3.5 mm/h.
- Falling number: 318 s.
- Farinograph value: B1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 5.2-5.5 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG KUNGLÓRIA



Year of registration: 2005

Botanical characteristics:

- Medium stalk height.
- Medium waxed stalk.
- Moderately waxed, hairy ear.
- Excellent yield potential, resistance to lodging, stem and leaf rust and yellow rust, excellent frost, winter and drought tolerance and artificial fertiliser reaction.
- Good resistance to other diseases.

Economic value:

- Hectolitre weight: 79-81 kg.
- Thousand kernel weight: 44-46 g.
- Wet gluten content: 30-32 %.
- Gluten spread: 3.0-3.5 mm/h.
- Falling number: 365 s.
- Farinograph value: A2-B1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG KUNHALOM



Year of registration: 2002

Botanical characteristics:

- Tall stalk height.
- Strongly waxed stalk.
- Strongly waxed, hairy ear.
- Good resistance to lodging and other diseases.
- Excellent yield potential, frost, winter and drought tolerance and artificial fertiliser reaction, excellent resistance to stem and leaf rust.
- Proper resistance to yellow rust.

Economic value:

- Hectolitre weight: 80-83 kg.
- Thousand kernel weight: 40-43 g.
- Wet gluten content: 34.5-36.5 %.
- Gluten spread: 5.0-6.0 mm/h.
- Falling number: 397 s.
- Farinograph value: A2.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG KUNKAPITÁNY



Year of registration: 2011

Botanical characteristics:

- Medium stalk height.
- Medium waxed stem.
- Medium waxed, hairy ear.
- Excellent resistance to lodging, yield potential, frost, winter and drought tolerance, artificial fertiliser reaction, excellent resistance to stem and leaf rust.
- Proper resistance to yellow rust.
- Good resistance to other diseases.

Economic value:

- Hectolitre weight: 79-81 kg.
- Thousand kernel weight: 43-45 g.
- Wet gluten content: 27-28 %.
- Gluten spread: 2.5-3.0 mm/h.
- Falling number: 349 s.
- Farinograph value: A2-B1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG SZÉPHALOM



Year of registration: 2004

Botanical characteristics:

- Medium stalk height.
- Strongly waxed stem.
- Strongly waxed, hairy ear.
- Good resistance to lodging, yellow rust, other diseases.
- Very good yield potential.
- Excellent frost, winter and drought tolerance, artificial fertiliser reaction.
- Medium resistance to stem and leaf rust.

Economic value:

- Hectolitre weight: 80-82 kg.
- Thousand kernel weight: 38-42 g.
- Wet gluten content: 32-34 %.
- Gluten spread: 3.0-3.5 mm/h.
- Falling number: 384 s.
- Farinograph value: A2-B1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG MAGOR



Year of registration: 2002

Botanical characteristics:

- Low-medium stalk height.
- Strongly waxed stem.
- Medium waxed ear.
- Excellent resistance to lodging, frost, winter and drought tolerance.
- Very good yield potential.
- Good resistance to yellow rust.
- Medium artificial fertiliser reaction.
- Proper resistance to stem and leaf rust and other diseases.

Economic value:

- Hectolitre weight: 78-82 kg.
- Thousand kernel weight: 38-40 g.
- Wet gluten content: 22-25 %.
- Gluten spread: 1.5-2.0 mm/h.
- Falling number: 284 s.
- Farinograph value: B2-C1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.8-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

KG VITÉZ



Year of registration: 2013

Botanical characteristics:

- Medium stalk height.
- Strongly waxed stem.
- Medium waxed hairy ear.
- Very good resistance to lodging and yield potential.
- Good resistance to other diseases and artificial fertiliser reaction.
- Excellent frost, winter and drought tolerance, excellent resistance to stem and leaf rust, yellow rust.

Economic value:

- Hectolitre weight: 79,3 kg.
- Thousand kernel weight: 45,4 g.
- Wet gluten content: 34,4 %.
- Gluten spread: 3.6 mm/h.
- Falling number: 342 s.
- Farinograph value: B1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT



KONDOR



Year of registration: 1995

Botanical characteristics:

- Medium stalk height.
- Medium waxed stem.
- Medium waxed narrow ear.
- Excellent resistance to lodging, excellent yield potential and drought tolerance.
- Medium frost and winter tolerance, artificial fertiliser reaction, resistance to yellow rust and other diseases.
- Proper resistance to stem and leaf rust.

Economic value:

- Hectolitre weight: 79-83 kg.
- Thousand kernel weight: 40-42 g.
- Wet gluten content: 26-30 %.
- Gluten spread: 3.5-4.5 mm/h.
- Falling number: 297 s.
- Farinograph value: B2-C1.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.8-5.5 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

RÓNA



Year of registration: 1998

Botanical characteristics:

- Medium stalk height.
- Medium waxed stem.
- Medium waxed hairy ear.
- Medium resistance to lodging, frost and winter tolerance, artificial fertiliser reaction, resistance to other diseases.
- Good yield potential.
- Excellent drought tolerance, resistance to stem and leaf rust.
- Proper resistance to yellow rust.

Economic value:

- Hectolitre weight: 77-80 kg.
- Thousand kernel weight: 44-47 g.
- Wet gluten content: 28-30 %.
- Gluten spread: 3.5-4.0 mm/h.
- Falling number: 350 s.
- Farinograph value: B1-B2.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.8-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER WHEAT

DUSI



Year of registration: 2001

Botanical characteristics:

- Medium stalk height.
- Medium waxed stem.
- Medium earing time.
- Moderately waxed ear.
- Excellent resistance to lodging, frost, winter and drought tolerance.
- Good yield potential and artificial fertiliser reaction.
- Average resistance to powdery mildew, stem and leaf rust.
- Good resistance to yellow leaf spots.
- Below average contamination by Fusarium.

Economic value:

- Hectolitre weight: 66-69 kg.
- Thousand kernel weight: 40-44 g.
- Raw protein content: 12.2-13.5 %.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.8-5.5 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER TRITICALE

KG BEREK

Year of registration: 2009

Botanical characteristics:

- Medium stalk height.
- Strongly waxed stem.
- Early earing time.
- Strongly waxed ear.
- Excellent resistance to lodging, yield potential, frost, winter and drought tolerance.
- Very good artificial fertiliser reaction.
- Resistant to powdery mildew, and yellow stem rust.
- Medium resistance to leaf rust yellow leaf spots.
- Below average contamination by Fusarium.

Economic value:

- Hectolitre weight: 74-76 kg.
- Thousand kernel weight: 43-45 g.
- Raw protein content: 12,5-13,5 %.
- Falling number: 180-200 s.
- Farinograph value: C2.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.0-5.0 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER TRITICALE

**LEOPARD**

Year of registration: 2014

Botanical characteristics:

- Low stalk height.
- Strongly waxed stem.
- Mid-early earing time.
- Strongly waxed ear
- Excellent resistance to lodging, yield potential, frost, winter and drought tolerance.
- Very good artificial fertiliser reaction.
- Medium resistant to powdery mildew and Fusariosis.
- Resistant to stem rust.
- Low resistance to net blotch.

Economic value:

- Hectolitre weight: 73.7 kg.
- Thousand kernel weight: 43.0 g.
- Raw protein content: 13.4 %.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER TRITICALE

LOTRU



Year of registration: 2014

Botanical characteristics:

- Medium stalk height.
- Strongly waxed stem.
- Mid-early earing time.
- Strongly waxed ear.
- Excellent resistance to lodging, yield potential, frost, winter and drought tolerance.
- Very good artificial fertiliser reaction.
- Very susceptible to powdery mildew.
- Medium susceptibility to Fusariosis and stem rust.
- Low resistance to net blotch.

Economic value:

- Hectolitre weight: 74.7 kg.
- Thousand kernel weight: 42.7 g.
- Raw protein content: 13.6 %.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER TRITICALE



SZABOLCS



Year of registration: 2014

Botanical characteristics:

- Exceptional adaptability, 2 days earlier maturity compared to the standards.
- Medium stability, excellent winter tolerance.
- Resistant to stem rust.
- Good resistance to cereal powdery mildew, average resistance to leaf rust.
- Rapid stooling, favourable weed suppressing capability.

Economic value:

- Average yield potential: 6.8 t/ha.
- Protein content: 12-14.5 %.
- Surpasses quality standards in terms of forage and farinograph value.
- The best Hungarian triticale variety in terms nutritive properties, it is able to reach B2 quality level under proper growing circumstances.
- Perfectly suitable for both foraging and human consumption.
- Due to its field resistance, weed suppressing ability and adaptability it is well utilisable in organic farming.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER TRITICALE

TITÁN

Year of registration: 2006

Botanical characteristics:

- Medium stalk height.
- Strongly waxed stem.
- Mid-early earing time.
- Strongly waxed ear.
- Excellent resistance to lodging, yield potential, frost, winter and drought tolerance.
- Very good artificial fertiliser reaction.
- Resistant to powdery mildew and yellow leaf rust.
- Medium susceptibility to Stem and leaf rust.
- Below average susceptibility to Fusarium.
- Low resistance to net blotch.

Economic value:

- Hectolitre weight: 70-72 kg.
- Thousand kernel weight: 42-44 g.
- Raw protein content: 13.0-14.0 %.
- Optimal sowing time: 10th – 20th October.
- Recommended seed dose: 4.5-5.2 million/ha.

UD IAREF Research Institute of Karcag

HU-5300 Karcag, Kisújszállási Str. 166. • Phone: +36 59 500 360
e-mail: kki@agr.unideb.hu • <http://portal.agr.unideb.hu/kutatointezetek/kki/index>

WINTER TRITICALE

**KISVÁRDAI
ALACSONY**

Year of registration: 1993

Botanical characteristics:

- 120-140 tall variety, good stability, not susceptible to lodging.
- Long, compacted, complete ears.
- Thousand kernel weight: 30-32 g.

Economic value:

- Average resistance to powdery mildew and brown rust.
- Excellent winter and drought tolerance, the best grain/straw ratio amongst Hungarian rye varieties.
- Its advantage to the other varieties appears on good quality sandy soils with high humus content.
- Flour is suitable for bakery industry.
- Suitable for organic farming.
- Potential yield: 4.5-5 t/ha.

UD IAREF Research Institute of Nyíregyháza

HU-4400 Nyíregyháza, Westsik Vilmos Str. 4-6.
+36-42-594-300 • e-mail: nykutato@agr.unideb.hu
<http://portal.agr.unideb.hu/kutatointezetek/nyki/bemutatkozás/index>

RYE

KISVÁRDAI LEGEŐ



Year of registration: 1998

Botanical characteristics:

- Rapid initial development, strong variety, high vegetative volume.
- Good stooling and weed suppressing ability.
- Plant height: 140-160 cm, thick stem, wide leaves.
- Slightly susceptible to lodging.
- Long ears, excellent fertility.
- Thousand kernel weight: 35-40 g.

Economic value:

- Excellent adaptability, dual purpose rye variety, which is suitable for the weakest quality soils.
- After sown in August, it is grazable in autumn and early spring; it also provides a medium grain year in the same year as a result of proper nutrient supply.
- Potential yield: 25-30 t/ha green volume or 5.5-6 t/ha grain yield.

UD IAREF Research Institute of Nyíregyháza

HU-4400 Nyíregyháza, Westsik Vilmos Str. 4-6.
+36-42-594-300 • e-mail: nykutato@agr.unideb.hu
<http://portal.agr.unideb.hu/kutatointezetek/nyki/bemutakozas/index>

RYE

VARDA



Year of registration: 1975

Botanical characteristics:

- Previous name: Kisvárdai-1.
- 130-150 cm tall variety, less susceptible to lodging.
- Complete, flawless ears, thousand kernel weight: 30-35 g.

Economic value:

- Rapid initial development, excellent weed suppressing ability.
- Average resistance to powdery mildew and brown rot.
- Excellent winter and drought tolerance.
- Suitable for the weakest sandy soils, secure performance under low input, extensive circumstances. Suitable for organic farming.
- Flour is suitable for bakery industry.
- Yield potential: 4.5-5.5 t/ha.

UD IAREF Research Institute of Nyíregyháza

HU-4400 Nyíregyháza, Westsik Vilmos Str. 4-6.
+36-42-594-300 • e-mail: nykutato@agr.unideb.hu
<http://portal.agr.unideb.hu/kutatointezetek/nyki/bemutakozas/index>

RYE

NOTES

COLLEAGUES

Dr. Ágnes Czimbalmos

research assistant

UD IAREF Research Institute of Karcag

e-mail: czagnes@agr.unideb.hu

Variety preservation and breeding of cereals.

Tamás Sipos

research assistant

UD IAREF Research Institute of Nyíregyháza

e-mail: sipost@agr.unideb.hu

Variety preservation of cereals, bird's foot trefoil and hairy vetch.

Dr. László Zsombik

senior research fellow

UD IAREF Research Institute of Nyíregyháza

e-mail: zsombik@agr.unideb.hu

Variety preservation and breeding of potato, canary grass, proso millet, foxtail millet and oil radish.

CONTENTS

Foreword	5
Perennial rye – Kriszta	6
Winter barley – KG Apavár	7
Winter barley – KG Konta	8
Winter barley – KG Puszta	9
Winter barley- Kunsági 2	10
Winter wheat - Hunor	11
Winter wheat – KG Bendegúz	12
Winter wheat – KG Kunglória	13
Winter wheat– KG Kunhalom	14
Winter wheat – KG Kunkapitány	15
Winter wheat – KG Széphalom	16
Winter wheat– KG Magor	17
Winter wheat – KG Vitéz	18
Winter wheat – Kondor	19
Winter wheat – Róna	20
Winter triticale – Dusi	21
Winter triticale – KG Berek	22
Winter triticale – Leopard	23
Winter triticale – Lotru	24
Winter triticale – Szabolcs	25
Winter triticale – Titán	26
Rye – Kisvárdai alacsony	27
Rye – Kisvárdai legelő	28
Rye – Varda	29
Oat – Lota	30
Colleagues	33



