

Selgen

PRODUCT CATALOGUE

years



C Z E C H R E P U B L I C

CZECH REPUBLIC

- PRAGUE -



CZECH REPUBLIC

Area: 78 866 km² (67 % of area at an altitude below 500 m, 32 % 500 – 1000 m above sea level and about 1 % at an altitude higher than 1000 m, the average altitude is 430 m above sea level).

State borders: 761.8 km with Poland, 810.3 km with Germany, 466.3 km with Austria and 251.8 km with Slovakia.

Average temperature during year: 5,5°C - 9,0°C (summer 19,0°C, winter -0,9°C).

Average rainfall per year: 500 - 700 mm



INTRODUCTION

Modern history of Czech preeding starts in 1993 when the former state breeding enterprises were privatized and new company Selgen was created.

With the unique contribution and leadership of Mr. Milos Hanis Selgen became the biggest breeding power in former Czechoslovakia. The strategy of open international partnership together with strong visions of the founders dedicated to Selgen the very best potential for further development.

Selgen nowadays strenghtens its position through the breeding base of 6 own stations together with enourmous benefit of foreing breeding and seed partners. Selgen's varietis are offering to farmers high standard and alternativities at many crops all over the World.

Thanks for your trust which is key point of our future work.



EINLEITUNG

Die moderne Geschichte der tschechischen Zucht beginnt im Jahr 1993, als die ehemaligen staatlichen Zuchtbetriebe privatisiert wurden und neue Firma Selgen gegründet werden.

Mit dem einzigartigen Beitrag und der Führung von Herrn Milos Hanis wurde Selgen zur größten Zuchtmacht in der ehemaligen Tschechoslowakei. Die Strategie der offenen internationalen Partnerschaft zusammen mit starken Visionen der Gründer, die Selgen gewidmet sind, ist das beste Potential für die weitere Entwicklung.

Selgen stärkt heute seine Position durch die Zuchtbasis von 6 eigenen Stationen zusammen mit dem enormen Vorteil von ausländischen Zucht- und Saatgutpartnern. Selgens Sorten bieten den Landwirten hohe Standards und Abwechslung bei vielen Kulturen auf der ganzen Welt.

Vielen Dank für Ihr Vertrauen, das ist der Schlüssel unserer zukünftigen Arbeit.



Dr. Ing. Ivo Sedláček
General Manager



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Sales Director



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Product manager



BREEDING AND TESTING STATIONS



BS KRUKANICE



BS LUŽANY



BS STUPICE



TS VESELÍČKO



BS CHLUMEC

PRAGUE

C Z E C H



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BREEDING STATIONS

- **STUPICE** - Founded: 1921
Breeding Programs: Winter Wheat, Spring Wheat, Spring Barley
- **CHLUMEC NAD CIDLINOU** - Founded: 1903
Breeding Programs: Winter Rape, Pea, Red Clover, Forage Pea
- **KRUKANICE** - Founded: 1942
Breeding Programs: Yellow, Black, Naked Oats, Mustard, agrotechnological and breeding trials
- **LUŽANY** - Founded: 1953
Breeding Programs: Winter Barley, Winter Rape, Pea
- **ÚHŘETICE** - Founded: 1925
Breeding Programs: Winter Wheat, Spring Wheat



TESTING STATIONS

- **VESELÍČKO** - Founded: 1987
General testing place
- **ZD BOHUŇOVICE S. R. O.**
- **AGRODRUŽSTVO VRBOVEC**

NAD CIDLINOU



ÚHŘETICE



KOČÍ
SEED
PROCESSING
PLANT



BOHUŇOVICE



VRBOVEC



**SELGEN SLOVAKIA,
SPOL. S R.O.**

SUBSIDIARY IN SLOVAKIA

SELGEN VARIETIES WORLDWIDE



SCANDINAVIA

SWEDEN

Eso (Protein Pea)



FINLAND

Dafne, Lotte, Seance, Septima (Spring Wheat), Arvika (Forage Pea)



DENMARK

Atlas, Bohatýr, Eso (Protein Pea), Astrid, Dafne, Seance (Spring Wheat), Saul (Naked Oat)



BALTICS

ESTONIA

Eso (Protein Pea), Andromeda (White Mustard)



LITHUANIA

Kertag, Korok, Saul (Oat), Eso, Gambit, Impuls (Protein Pea), Izzy, Tercie (Spring Wheat), Bonus, Respect (Red Clover), Merkur (Field Bean)



SOUTHERN EUROPE

ITALY

Obelisk (Oat), Kardinal (Crimson Clover), Dětenická panonská (Common Vetch)



CROATIA

Gambit (Protein Pea), Leguan, Tercie (Spring Wheat), Obelisk, Saul (Oat), Julie (Winter Wheat)



SERBIA

Julie (Winter Wheat)



WESTERN EUROPE

FRANCE

Sultan, Vanessa, Viki (Winter Wheat), Astrid, Granny, Seance, Septima, Kitri (Spring Wheat), Kamil, Oliver, Saul (Naked Oat), Cavaliere, Raven (Black Oat), Poseidon, Trendy, Velvet, Peps (Protein Pea), Andrea (Spring Forage Pea), Arkta (Winter Forage Pea), Kardinal (Crimson Clover)



BELGIUM

Astrid, Granny (Spring Wheat)



THE NETHERLANDS

Astrid, Dafne, Granny (Spring Wheat)



GERMANY

Granny, Anabel, Alicia (Spring Wheat), Bonus, Garant (Red Clover), Atego, Oberon (Spring Oat), Oliver (Naked Oat), Julie, Turandot, Viki (Winter Wheat), Andromeda, Polarka, Severka (White Mustard), Arkta (Winter Forage Pea), Eso, Gambit, Lump, Tip, Trendy, Protecta (Protein Pea)



SWITZERLAND

Atego (Spring Oat), Arkta, Arvika (Winter Forage Pea), Bonus, Brisk (Red Clover)

CZECH
REPUBLIC

AUSTRIA

Gregor, Obelisk, Oberon (Spring Oat), Granny (Spring Wheat), Eso, Gotik, Natura, Tip Trendy, Stabil (Protein Pea), Arkta (Winter Forage Pea), Kardinal (Crimson Clover)



UNITED KINGDOM

Atego, Rozmar (Spring Oat), Saul, Oliver (Naked Oat), Alicia, Anabel, Dafne (Spring Wheat)



EASTERN EUROPE

SLOVAKIA

Bohemia, Carmina, Ibarra, Elly, Matylda, Seladon, Sultan, Turandot, Vanessa, Viki (Winter Wheat) Astrid, Dafne, Granny, Tercie (Spring Wheat), Francin (Spring Barley), Lester (Winter Barley) Atego (Spring Oat), Eso, Gambit, Impuls (Protein Pea), Aventino (Winter Rye), Kinerit (Winter Triticale)



HUNGARY

Eso, Impuls, Zekon (Protein Pea), Arvika (Forage Pea), Raven (Black Oat), Astrid (Spring Wheat)



POLAND

Bohemia, Julie (Winter Wheat), Merkur (Field Bean), Eso (Protein Pea), Saul (Naked Oat) Atego (Spring Oat), Anabel (Spring Wheat), Rescator (Canola)



UKRAINE

Bohemia (Winter Wheat), Granny, Septima (Spring Wheat), Stabil, Gambit (Protein Pea)



BELARUS

Bohemia (Winter Wheat)



RUSSIA

Granny (Spring Wheat), Eso, Gotik, Gambit, Stabil, Slovan, Velvet, Impuls (Protein Pea)



BULGARIA

Bohemia, Elly, Silueta (Winter Wheat)



MOLDOVIA

Bohemia (Winter Wheat), Secese, Kitri (Spring Wheat), Francin (Spring Barley)



ROMANIA

Eso, Velvet, Slovan, Lump (Protein Pea), Annie (Winter Wheat)



OVERSEAS

USA

Eso, Gambit, Poseidon (Protein Pea), Aventino (Winter Rye)



CANADA

Eso (Protein Pea)



URUGUAY

MUSA 19 (Spring Barley)



SOUTH AFRICA

Slovan (Protein Pea)



CHILE

Matylda (Winter Wheat)



Granny

- Mid-early, long-awned variety
- Suitable for alternative sowing
- Tolerant to the low temperatures
– suitable for early spring / late autumn sowing
- Very good health with improved resistance to ear diseases
- Variety successfully traded in EU and Russia

QUALITY

- **A** baking quality
- High specific volume and yield of flour
- High Hagberg Falling Number
- Good sprouting resistance

Seance

- Mid-early variety
- Very high grain yield in all growing areas
- Medium tall plants (85 – 90 cm)
- Tolerance to drought
- High intensity of tillering
- Resistant to powdery mildew

QUALITY

- **B** baking quality
- High specific volume (798 g/l)
- Hagberg Falling Number 332 sec.
- High bread volume

Astrid

THE BIGGEST
VARIETY
ON CZECH MARKET

- Mid-early variety
- Good lodging resistance
- Plant length 95 –100 cm
- Medium size grain, TGW 40 g
- Excellent tolerance to leaf rust
- Very good resistance to fusarium head blight (FHB)

QUALITY

- **E** baking quality
- The highest yields of the Czech elite wheats
- Stably high Hagberg Falling Number



E	<i>elite baking quality, high Zeleny, protein content</i>
A	<i>high baking quality</i>
B	<i>baking quality</i>
C	<i>other</i>

Dafne

- Mid-early variety
- High grain yield in both variants of cultivation
- Suitable for all growing regions
- Good resistance to powdery mildew and septoria
- Plant length 95 – 100 cm
- Good lodging resistance
- Successfully traded in Denmark, Netherlands, Finland

Q U A L I T Y

- **A** baking quality
- High protein content and bread volume
- Excellent specific volume

Alondra

- Mid-early variety
- Variety with shorter stem and very high yields in all growing areas
- Good resistance to mildew and lodging
- High TGW

Q U A L I T Y

- **B** baking quality
- Medium high to high specific volume and yield of flour
- Medium high bread volume

SPRING WHEAT VARIETIES IN FIGURES

		Lodging before harvest	Plant length	TGW	Heading	Falling number	Protein content	Zeleny test	Specific weight
		9-1	cm	g	days	s	%	ml	g.l ⁻¹
TERCIE	A	8,6	77	38,0	76	402	13,3	55	806
ASTRID	E	6,2	91	39,1	79	379	13,8	59	800
IZZY	A	5,7	96	41,5	76	380	13,4	51	784
ALONDRA	B	7,6	82	39,4	75	378	12,5	51	804
ANABEL	A	7,6	82	37,9	76	380	13,2	56	808
LOTTE	A	7,9	82	38,8	76	369	12,8	51	802
REGISTANA	B	7,3	91	45,5	77	354	13,6	57	796
ALICIA	E	6,6	93	42,8	78	337	13,7	64	822
ODETA	B	7,3	86	41,2	73	344	12,6	47	784
KITRI	A	8,1	84	41,6	78	386	12,9	56	781

9 – resistant, 1 - susceptible

Anabel

- Mid-early variety
- High yields in all growing regions
- Medium tall plants
- Good lodging resistance
- Very good health (resistant to powdery mildew, fusarium head blight (FHB), excellent yellow rust resistance)
- Excellent results in Official trials in Germany

Q U A L I T Y

- **A** baking quality
- High specific volume (800 g/l)
- High Hagberg Falling Number
- High bread volume

Registana

- Mid-early variety
- Alternative type of wheat
- Very good health - high resistance to yellow rust, leaf diseases and fusarium head blight (FHB)
- Plant length 95 – 100 cm
- Good lodging resistance
- Tolerant to low temperatures – recommended for early spring / late autumn sowing
- TGW 47 g

Q U A L I T Y

- **B** baking quality
- High specific volume and yield of flour
- High Hagberg Falling Number
- Very good sprouting resistance

Odeta

- Early variety
- Very high number of productive ears
- Excellent resistance to leaf diseases, yellow and brown rust

Q U A L I T Y

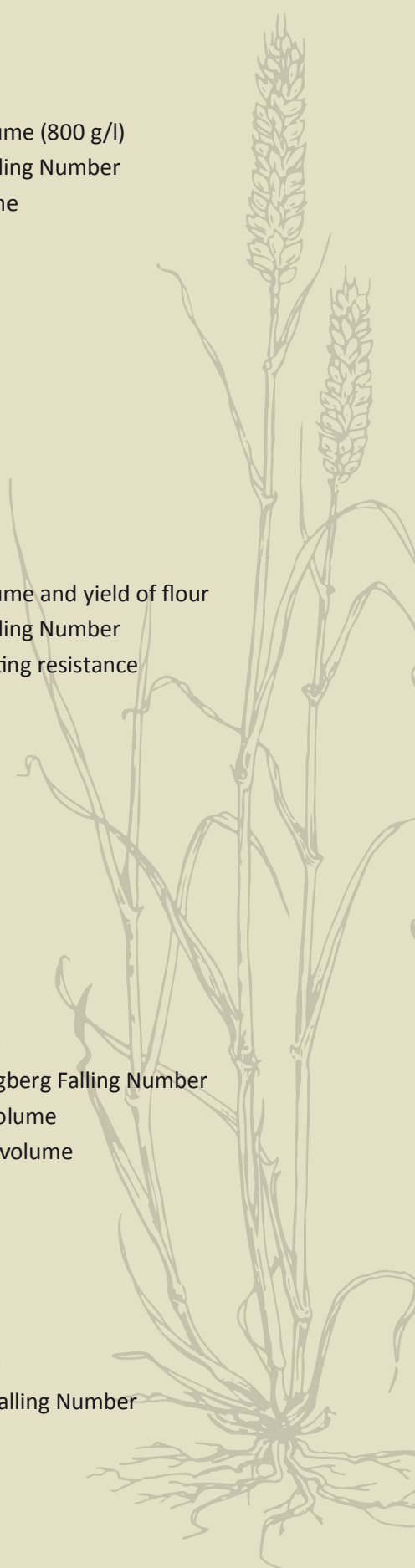
- **B** baking quality
- Medium high Hagberg Falling Number
- Medium bread volume
- Medium specific volume

Kitri

- Mid-early variety
- TGW 42 g
- Shorter stem with good lodging resistance
- High yielding variety

Q U A L I T Y

- **A** baking quality
- Stable Hagberg Falling Number
- High Zeleny test



Alicia

- Mid-early variety
- Good resistance to fusarium head blight (FHB)
- Good resistance to yellow rust
- The biggest yielder among elite wheats in Czech recommendation trials
- Plant length 98 – 102 cm, good lodging resistance
- TGW 43 g

Q U A L I T Y

- **E** baking quality
- High specific volume
- High protein content
- High bread volume
- High and stable Hagberg Falling Number

Lotte

- Late variety
- Excellent yellow rust resistance
- Good resistance to leaf spots
- Suitable for organic farming
- Broad leaves = good weed killer

Q U A L I T Y

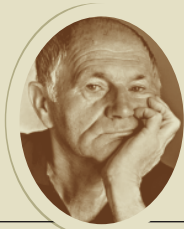
- **A** baking quality
- High to medium specific volume
- Higher protein content
- High bread quality

SPRING WHEAT VARIETIES IN FIGURES

		Mildew - leaf	Mildew - ear	Septoria tritici / DTR	Septoria nodorum	Brown rust	Yellow rust	Fusarium head blight
		9-1	9-1	9-1	9-1	9-1	9-1	9-1
TERCIE	A	7,3	8,1	6,0	7,3	7,0	7,0	7,5
ASTRID	E	6,5	7,3	6,5	7,6	7,4	6,5	7,5
IZZY	A	6,8	7,6	6,5	7,8	7,2	7,8	7,6
ALONDRA	B	7,8	8,7	6,2	7,7	7,9	6,6	7,7
ANABEL	A	7,9	8,4	6,6	7,7	7,8	7,7	8,2
LOTTE	A	7,5	8,1	6,6	7,8	8,3	7,8	7,4
REGISTANA	B	7,2	7,9	6,9	7,3	7,5	8,0	7,5
ALICIA	E	6,4	7,8	6,9	8,1	8,0	7,4	8,2
ODETA	B	4,9	6,1	6,9	7,9	7,8	8,4	7,7
KITRI	A	7,9	8,2	6,6	7,9	8,4	6,6	8,0

9 – resistant, 1 - susceptible

Francin



Dedicated to the great Czech writer Bohumil Hrabal

- Mid-early malting variety
- Shorter stem (70 - 75 cm) with excellent lodging resistance
- Higher tillering capacity
- Very good resistance to stem breaking and to barley brown rust
- Suitable for all growing regions

QUALITY

- Francin is recommended for production of the „Czech beer“ brand. This variety is preferred by the biggest Czech breweries Pilsner Urquell and Budweiser Budvar and wide range and of the other breweries and malt houses.

Excellent malting quality – suitable for full bodied Pilsner Lager type beers

Musa 19

- High yielding, especially in potato area
- Very high grading (95% of grain above 2,5 mm)
- Resistant to powdery mildew
- Good standing power
- Medium tillering variety
- MQI 6,1

QUALITY

- Excellent malting quality
- High extract (83,4%)
- Strong position in South America

Spitfire

- High yields in all growing regions (especially in potato area)
- Very high grading (96% of grain above 2,5 mm)
- Very good health (esp. resistance to powdery mildew)
- Large grain
- TGW 52 g

QUALITY

- Excellent malting quality - malting efficiency 92,2%
- Very high extract of malt - 84%
- Final attenuation - 83,2%
- Beta - glucan content of wort - 64 mg/l



Eso *The leading variety of Czech assortment*

- Mid-late variety
- Medium tall plants (100 cm)
- Very good lodging resistance
- Excellent health – above the tested varieties, strong ascochyta pisi resistance
- Stable high yields
- Suitable also for silages
- Resistance to late spring frosts / drought
- Yellow grain with balanced colour and lower TGW – under 250 g
- Medium protein content
- Cultivated in many countries around the world – e.g. Denmark, Sweden, USA, Canada, Austria, Russia, Baltic states



Velvet

- Mid-early variety
- Rapid early growth
- Medium tall to tall plants
- Improved lodging resistance
- Yellow, round grain, medium TGW and balanced colour
- Very good health (root rot resistance)
- Medium protein content
- Low trypsin-inhibitor activity
- Sensitivity to low temperatures
- Cultivated e.g. in France, Russia and Romania

Avatar

- Tall variety with mid - early maturity
- High yield of grain and mass, suitable also for forage production
- High in protein content
- The lowest trypsin-inhibitor activity
- Yellow grain with medium TGW
- Suitable for drier conditions



Gambit

- Mid late variety
- The tallest variety of whole assortment in the Czech Republic
- Good lodging resistance
- Suitable for cereal fodder mixtures and silages
- Well balanced health (exceeding most varieties)
- High grain yields in warm and cold regions as well
- Round, yellow grain, balanced colour, TGW ca. 274 g
- Very low trypsin-inhibitor activity (the lowest among the whole assortment)
- High in protein content

Slovan

- Early variety suitable for drier and warmer conditions
- Shorter plants
- Higher lodging resistance and lower protein content
- Higher TGW (ca. 300 g)
- Good resistance to drought (high yields in warm climate)
- Medium resistance to root diseases and mildew
- Exported to Romania, Russia, South African Republic



Name	Early growth	Flowering	Maturity	Stem lenght	Crop height	TGW	Grain colour stability	Protein content
	9 - 1	days	days	cm	cm	g	%	%
SLOVAN	8,2	66	103	82	52	305	99	20,8
VELVET	7,5	70	104	80	64	255	97	23,1
GAMBIT	8,5	71	105	88	53	274	99	23,2
ESO	7,9	71	105	83	56	238	98	22,5
TIP	7,8	70	106	80	62	245	95	25,8
TRENDY	7,8	67	102	76	56	258	99	22,4
LUMP	8,2	69	104	79	57	229	100	22,4
AVATAR	8,4	70	105	88	53	272	98	23,3
ZEKON	7,9	68	104	78	55	258	90	22,8
PEPS	8,7	68	104	84	53	279	84	22,7
IMPULS	8,8	69	105	82	59	274	98	23,5
POSEIDON	8,0	72	104	77	58	273	96	23,0
PEPS	8,3	69	103	79	58	232	98	22,8

Trendy

- Early variety
- Stably high yields mainly in dry and warm conditions
- Spring frosts resistance
- Rapid early growth
- Very good health
- Medium tall plants with high lodging resistance
- Round, uniformly coloured grains
- Lower TGW – 247 g
- Low to medium trypsin – inhibitor activity



Lump

- Mid-early variety
- Suitable for all growing regions
- Medium tall plants
- Good lodging resistance
- Very good health (resistant to virus and root diseases)
- Round grain with very well balanced colour
- TGW around 225 g

Name	Ascochyta	Gray mold	Root diseases	Perenospora pisi	Lodging before harvesting	Trypsin inhibitor - TIU	Registered
	9 - 1	9 - 1	9 - 1	9 - 1	9 - 1	9 - 1	year
SLOVAN	6,7	6,3	5,5	6,1	4,9	4,2	2008
VELVET	-	6,8	7,0	7,2	7,3	3,9	2010
GAMBIT	7,3	7,2	6,9	6,9	5,5	3,0	2011
ESO	8,4	7,1	7,3	6,7	6,1	4,8	2012
TIP	-	6,1	7,0	6,3	6,5	4,4	2013
TRENDY	8,0	6,5	6,1	6,4	6,7	4,7	2016
LUMP	6,8	6,7	7,0	6,3	6,8	4,3	2016
AVATAR	-	6,9	7,0	7,0	5,5	2,8	2018
ZEKON	-	6,5	7,0	-	5,8	2,9	1998
PEPS	7,4	6,7	7,6	6,4	5,1	4,6	2010
IMPULS	7,5	7,8	8,2	6,8	6,1	4,1	2014
POSEIDON	-	6,6	7,2	-	6,9	3,7	2016
PEPS	-	8,0	7,5	7,0	7,1	5,8	2017

Poseidon

- Mid- early variety
- Bigger, irregular shaped grain with excellent colour stability, TGW ca. 280 g
- Shorter plants with good lodging resistance
- Suitable also for regions with humid climate
- Early spring growth, late flowering
- Long pods
- Intolerant to late spring frosts
- Excellent resistance to root diseases, especially to aphanomyces
- Very good lodging resistance
- Variety listed and marketed in France and USA

Impuls

- The highest yields among green grain varieties
- Rapid early growth
- Medium tall plants
- High lodging resistance
- Excellent health
- Very good resistance to root diseases including fusarium
- Excellent for grain production, TGW ca. 285 – 290 g
- Grain with outstanding stability of colour
- Seed rate 0,9 – 1,0 mil. germinating seeds
- High in protein content

Peps

- Variety suitable for locations with more rainfall
- Green grain with lower TGW (220 – 230 g)
- Balanced colour stability
- Medium tall plants with good lodging resistance
- Medium protein content
- Registered in France



Protecta

- Mid-early variety
- Very good health of roots, very high lodging resistance
- Medium tall to tall plants
- Excellent soil coverage and competitive ability against weeds
- Suitable for organic farming
- Medium-sized ovoid seed
- Outstanding protein content

Natura

- Early to mid-early variety
- Medium long stem with very good lodging resistance
- Suitable for organic farming
- Rapid soil coverage suppressing weed
- Medium large grain, round shape
- High yields of grain / very high protein content



Arvika

- The most famous worldwide variety of forage pea
- Excellent health - highly resistant to diseases
- Low TGW (reduces seed costs)
- Suitable for cropping in spring and summer mixtures with cereals
- Ideal for green fodder, haylage and as a green manure



Mistral

- Early variety with short stems
- Very low tannin content
- Improved resistance to lodging and stem breaking
- Very good resistance to bean rust and spots
- TGW 530 – 550 g
- Medium protein level
- Suitable for grain production or as a component of forage mixtures
- Popular covering crop of perennial forage crops or caraway



Merlin

- Early variety
- White-flowering type with low tannin content
- Suitable as a cover crop
- Very good lodging and stem braking resistance
- TGW 530 – 550 g
- Suitable for fodder mixtures



Merkur

- Mid-late variety with longer stem
- Violet colour of grain
- Excellent resistance to complex of root diseases and virosis
- TGW 520 – 550 g
- Without special climatic or soil requirements
- Higher resistance to spring frosts

Atego

- Mid-early variety with low grower risks
- Rather short, very good lodging resistance
- Stable yields
- Suitable for all growing regions
- Medium sized yellow grain
- Medium high yield of oat rice
- The most popular variety in the Czech Republic over the long term

Obelisk

- Mid-early variety
- Stably high yields
- Medium long stem with good lodging resistance
- Very good health
- Medium sized grain
- High specific weight
- Registered in Austria

Kertag

- Mid-early variety
- Medium tall, non-lodging plants
- Medium sized yellow grain
- High yield of oat rice
- Mild yellow husk

Seldon

- Mid-early variety
- High specific weight
- Taller plants good lodging resistance
- Very well applicable for spring mixtures
- Suitable for all growing regions
- High quality grain with a soft husk
- Tolerant to drought



Vlastimil Chour - oat breeder Krukanice

Raven

- Mid-late variety with rather short, non-lodging stalk
- The highest specific weight
- High quality of grain (even for human consumption)
- Available in France, Denmark and Hungary
- Higher TGW
- High content of antioxidants
- Variety popular among horse breeders



Cavaliere

- Mid-late variety with dark black husk
- Taller plants (with good lodging resistance)
- Suitable for feed and food purposes
- High specific weight
- Balanced content of raw protein
- Registered in France



Saul

- Mid-late variety
- Medium to high grain yield
- Taller plants with good lodging resistance
- Very popular in food industry (muesli, flakes)
- Variety suitable as a fodder for monogastric animals
- The most popular variety in central Europe

Oliver

- Mid-late variety
- Stable high yield
- Shorter plants with good lodging resistance
- High specific weight
- Low content of husked grain
- In official trials in UK



Name	Yield	Maturity	Time of ear emergence	Plant height	Specific weight	TKW	Protein content	Fat content	Registered
	%	days	days	cm	kg/hl	g	%	%	year
SAUL	98	131	76	116	68	26	14,3	5,7	2005
OTAKAR	98	131	74	116	67	26	14,2	6,8	2011
OLIVER	102	131	76	110	67	26	13,5	6,0	2012
KAMIL	99	131	76	112	69	28	14,4	7,5	2012
PATRIK	108	132	76	114	65	26	13,0	6,6	2015

Kamil

- Mid- early variety
- High yields
- Shorter plants with excellent lodging and stem brackling resistance
- High TGW
- Low content of husked grain
- Ideal as a fodder

Patrik

- Mid-early variety
- Good lodging resistance
- Good resistance to stem rust and to powdery mildew
- Medium tall plants
- Medium TGW
- The highest yields in the official trials in the Czech Republic (2012 – 2015)



Name	Septoria - leaf	Powdery Mildew	Black rust	Crown rust of oats	Lodging resistance
	9 - 1	9 - 1	9 - 1	9 - 1	9 - 1
SAUL	6,2	7,3	7,0	8	4,2
OTAKAR	6,7	7,8	7,5	8,1	4,6
OLIVER	5,9	6,5	6,8	7	5,1
KAMIL	6,9	7,3	7,6	7,9	6,0
PATRIK	6,6	7,8	6,8	7,9	4,2

9 – resistant, 1 - susceptible

Bonus

- Diploid, early to mid-season variety
- Good lodging resistance
- Very good health status
- Medium resistance to clover rot
- High-performance variety – 108,5% green-mass yield compared to reference varieties
- Rapid spring growth
- The winner of Swiss recommendation trials



Garant

- Diploid, early to mid-season variety
- Rapid spring growth
- Good lodging resistance
- Excellent health - the best resistance to root diseases and to clover virosis (among the whole assortment)
- Very good perenniality (3 years of vegetation)
- Stable high yields of green and dry mass

Agil

- Diploid, mid-early variety
- Medium long stalk with good lodging resistance
- Rapid spring growth
- Resistant to crown and root rot (*Sclerotinia trifoliorum*) diseases
- High content of green and dry mass
- Very good persistence and winter hardiness

Respect

- Diploid, early to mid-season variety
- Rapid spring growth
- Good lodging resistance
- Very good health with improved resistance to viral diseases
- High yielding variety



Severka

- Adaptable early variety, suitable for all growing regions
- Very good health
- Combined use for seed production and green manure
- Good lodging resistance
- Reliable export commodity

Agent

- Mid-early variety, yellow grain
- Stable high grain yields
- Medium tall plants (152 cm)
- The highest TGW – 7,93 g (among all tested varieties)
- Medium high oil content in seed

Polarka

- Mid-early variety with good lodging resistance
- High and stable yields
- Very good health
- Ideal for green manure use
- The biggest variety in the Czech Republic
- Traded in EU countries

Andromeda

- Mid-early variety, yellow grain
- Good lodging resistance
- Ideal as a cover crop before sugar beet or other crops
- Very high yields of grain in all growing regions
- Successfully tested by GEVES (France) with higher antinematocide impact
- Variety for eliminating beet eelworm (up to 75%)
- Medium high oil content in seed
- Suitable for food industry



Lester

- 6-row variety for intensive cultivation
- Excellent winter hardiness
- Long ear even in high-population stand
- Outstanding yields in all growing regions, also good for light soil
- Good resistance to root diseases and fusarium head blight (FHB)
- Full, balanced grain
- High tillering capacity
- Significant position on eastern markets

Lancelot

- 6-row winter barley with late maturity
- Medium tall plants with good lodging resistance
- High winter hardiness
- Good stem brackling and leaf rust resistance
- Resistant to barley yellow mosaic virus (BaYMV-1 and BaMMV)
- Medium sized, full and balanced grain
- Stable yields in both variants of cultivation



Julie

- Early to mid-season variety
- Very high yields in all growing regions
- Excellent winter hardiness with very good frost resistance
- Suitable for all growing regions
- Longer stem with good lodging resistance
- High resistance to fusarium head blight (FHB)
- High TGW
- Traded in Germany, CZE, Slovakia, Croatia, Serbia

Q U A L I T Y

- Stable **E** baking quality
- High, stable specific volume
- High bread volume
- High, stable Hagberg Falling Number

Bohemia

- Mid-early variety
- Tall plant with good lodging resistance
- Excellent winter hardiness
- Stable high yields
- Very good resistance to leaf diseases
- Good lodging and frost resistance
- Variety popular on eastern markets

Q U A L I T Y

- **A** baking quality
- Good specific volume
- High bread volume and protein content
- High Hagberg Falling Number

Annie

- Mid-late variety
- The highest quality ranking of all varieties listed in CZ
- Excellent winter hardiness
- High tillering capacity
- Good lodging resistance and brown rust resistance
- Improved stem breaking resistance (gene Pch1)
- Suitable for organic farming

Q U A L I T Y

- **E** baking quality
- High to very high specific volume
- Very high Hagberg Falling Number
- Very high bread volume and protein



Turandot

- Mid-season to late variety
- High yields
- Medium tall plants (95 – 100 cm) with good lodging resistance
- Very good health and winter hardiness
- Resistant to leaf and ear diseases - high resistance to leaf rust
- Very good reaction while sowed after maize (fusarium resistance)
- The best-selling Czech variety in Germany

Q U A L I T Y

- **A** baking quality
- High specific volume
- High and stable Hagberg Falling Number
- High bread volume

Viki

- Mid-late variety
- Stable yield in all growing regions
- Excellent fusarium head blight resistance (FHB)
- High resistance to leaf rust
- High frost resistance and winter hardiness
- High tillering capacity / productive stems per m²
- Longer plants with good lodging resistance
- Newly listed in Germany
- The highest FHB resistance in whole assortment of BSA

Q U A L I T Y

- **E** baking quality
- High protein content
- Very good bread quality
- Good Hagberg Falling Number
- Excellent Farinograph values

Steffi

- Very high yields in all growing regions
- Medium lodging and frost resistance
- Good tillering capacity
- Plant height 95 – 100 cm
- Good resistance to powdery mildew
- High resistance to yellow rust
- Tested for late sowing

Q U A L I T Y

- **B** baking quality
- Protein content 12,1%
- High bulk density – 805 g/l

Penelope

- Mid-late variety
- Outstanding yield in all growing regions
- Medium tall plants with good lodging resistance
- Excellent frost resistance and winter hardiness
- Medium resistance to powdery mildew, septoria, yellow and leaf rust and FHB
- Successfully tested for sowing after cereals

Q U A L I T Y

- **A** baking quality
- High specific volume
- High and stable Hagberg Falling Number
- High bread volume
- Good protein content

Vanessa

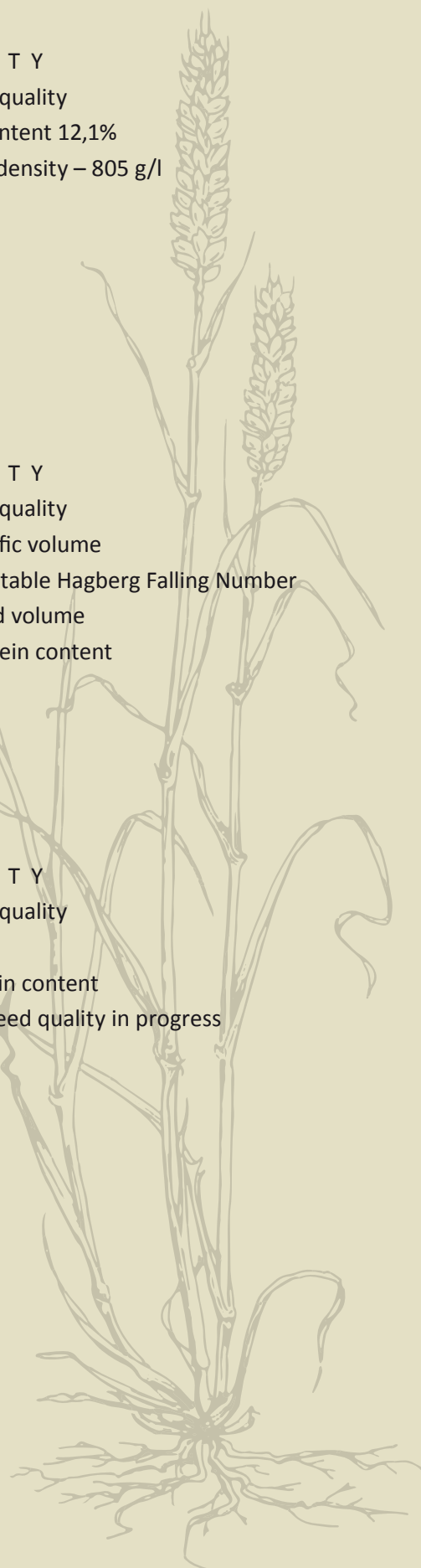
- Mid-early variety
- Very high yields in all growing regions
- Excellent frost resistance and health
- High resistance to leaf and black rust
- Short plants (85 – 90 cm) with good lodging resistance
- Successfully tested and marketed for biscuit flours

Q U A L I T Y

- **C** baking quality
- Soft grain
- Low protein content
- Tests for feed quality in progress



Pavel Horčíčka - wheat breeder Stupice



Ibarra

- Mid-late variety
- Very good resistance to FHB
- Excellent baking quality
- Very good frost resistance and winter hardiness
- Good resistance to powdery mildew, leaf rust and septoria
- Susceptible to yellow rust

Q U A L I T Y

- **E** baking quality
- High specific volume
- High Zeleny test
- High and stable Hagberg Falling Number
- High protein content

Butterfly

- Mid-late variety
- Stable yields in all growing regions in combination with excellent quality
- Medium tall – tall plants with resistance to lodging
- Good frost resistance and winter hardiness
- Medium resistance to FHB, septoria and yellow rust, high resistance to brown rust
- Successfully tested for sowing after maize and cereals

Q U A L I T Y

- **E** baking quality
- High specific volume
- High Zeleny test
- High and stable Hagberg Falling Number
- High protein content

Izabela

- Mid-early variety
- Outstanding yields in all growing regions
- Medium tall plants with medium lodging resistance
- Very good frost resistance and winter hardiness
- Good resistance to FHB, septoria and yellow rust, medium resistance to powdery mildew and leaf rust
- Recommended for sowing after maize

Q U A L I T Y

- **B** baking quality
- High specific volume
- Medium Hagberg Falling Number
- Medium protein content



Sultan

- Mid-early variety
- Excellent health
- High resistance to septoria and mildew
- Medium lodging resistance
- High yields in main production regions
- Tolerant to late sowing and sowing after cereals

Q U A L I T Y

- **A** baking quality
- High specific volume
- High protein content
- High bread volume

Carmina

- Very late variety
- High yields
- Resistant to leaf spot diseases, excellent fusarium head blight resistance (FHB)
- Tall plants (105 cm) with good lodging resistance
- Large ears with high TGW

Q U A L I T Y

- **A** baking quality
- High specific volume
- Stable Hagberg Falling Number



Name	Frost resistance	Heading	Lodging before harvest	Plant height	TGW	Falling number	Protein content	Zeleny test	Specific weight	Mildew leaf	Mildew - ear	Septoria tritici / DTR	Septoria nodorum	Brown rust	Yellow rust	Fusarium head blight
	9-1	days	9-1	cm	g	s	%	ml	g.l ⁻¹	9-1	9-1	9-1	9-1	9-1	9-1	9-1
JULIE E	7,8	-1	6,0	90	48	369	13,3	63	810	6,0	6,0	5,0	7,0	6,0	6,0	7,0
ANNIE E	7,9	+1	7,0	95	48	415	14,5	63	821	5,0	6,5	5,5	7,0	6,0	7,0	6,0
VIKI E	7,4	+3	6,5	100	48	350	13,5	62	810	6,0	7,5	7,0	8,0	6,3	7,0	8,5
BUTTERFLY E	7,7	+3	6,6	100	48	397	13,6	62	811	7,2	7,9	6,0	6,7	6,1	7,0	7,0
IBARRA E	5,8	+6	6,5	102	51	359	13,8	55	811	7,0	7,0	6,0	7,5	8,0	4,5	8,0
BOHEMIA A	8,1	0	6,5	105	49	392	13,5	65	796	7,0	7,0	5,0	8,0	5,8	5,0	6,7
CARMINA A	5,7	+8	5,5	105	50	337	13,7	58	809	6,5	7,0	6,5	8,0	7,8	4,5	8,1
PENELOPE A	7,2	+3	7,0	100	45	340	13,2	61	807	7,0	7,0	5,5	7,0	5,5	6,0	6,7
TURANDOT A	6,5	+4	5,0	95	50	322	13,0	47	801	7,0	8,0	6,0	7,0	6,0	6,0	7,5
SULTAN A	4,6	+2	5,0	90	42	320	13,3	54	798	6,0	7,0	6,0	8,0	5,0	6,0	6,9
IZABELA B	7,1	+2	7,0	95	47	333	12,5	43	804	7,0	7,0	5,5	7,0	6,0	6,5	7,0
STEFFI B	4,7	-2	5,0	95	46	286	12,3	35	805	7,1	7,0	6,0	7,0	5,5	8,8	7,5
VANESSA C	6,9	+3	7,0	90	44	314	12,2	26	762	6,5	7,0	5,0	7,0	5,5	6,5	5,8

9 - resistant, 1 - susceptible

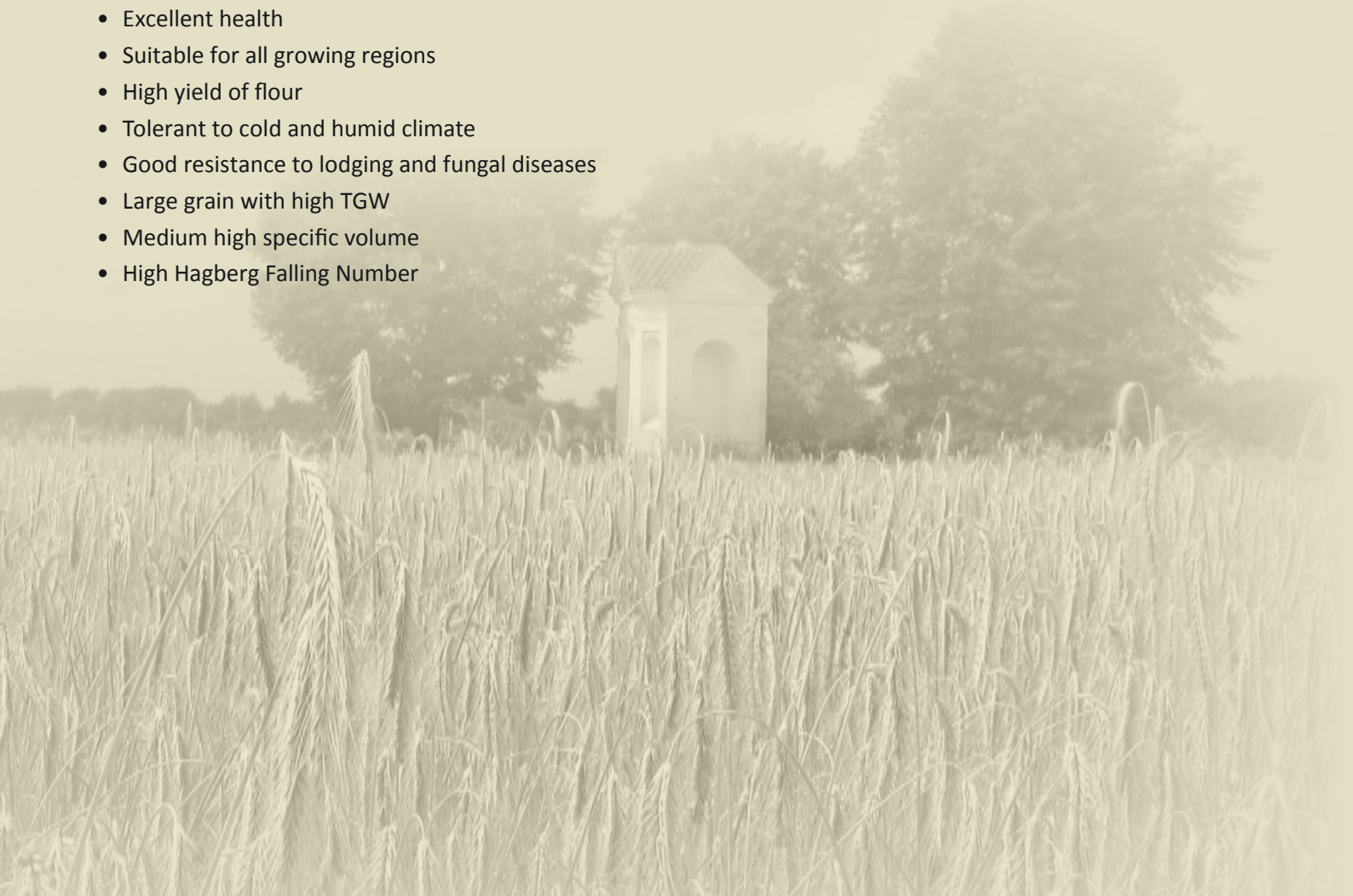
Kinerit

- Early variety with high tillering capacity
- Strong, non-lodging stalk
- Very good resistance to leaf diseases and rust
- Very good frost resistance
- Suitable component for bio-gas stations
- Commercially successful in southern Europe



Aventino

- Mid-late, population type variety
- Medium tall to tall plants
- Excellent health
- Suitable for all growing regions
- High yield of flour
- Tolerant to cold and humid climate
- Good resistance to lodging and fungal diseases
- Large grain with high TGW
- Medium high specific volume
- High Hagberg Falling Number



Cortes

- Very early variety with long flowering
= excellent pollination in any weather
- High seed yield
- Short, widely branching plants (138 cm)
= reduce harvesting costs = accelerate the harvest
- Good resistance to fungal diseases
- Excellent winter hardiness and frost resistance
- High lodging resistance

Q U A L I T Y

- Higher oil content (46,9%)
- High TGW – 5,99 g
- Without erucic acid, low in glucosinolates

Orex

- Mid-late, dihaploid variety
- High seed yield
- Good health
(gray mold and pathogen verticillium resistance)
- Shorter plants (ca 150 cm) with good lodging resistance
- Late and long flowering
= excellent pollination in any weather
- Excellent winter hardiness
- Strong intensity of branching

Q U A L I T Y

- Higher TGW – 5,07 g
- Low content of glucosinolates
- High oil content

Cedrik

- Early to mid-season variety
- Shorter plants (144 cm) with good lodging resistance
- Excellent health
- Very good winter hardiness (96%)

Q U A L I T Y

- Medium
TGW – 4,81 g
- High oil content



Rescator

- Early to mid-season variety
- Very high yields of grain in all growing regions
- Strong position on Czech and Polish market

Q U A L I T Y

- High oil content (48,5%)
- Regular seed maturity

Arkta

- Early variety suitable for cereal mixtures
- Excellent winter hardiness
- Low TGW – approximately 120 – 130 g

SOWING RATE:

a) In pure culture:

1,2 million germinating seeds/ ha (depth about 5 cm)

b) In mixtures:

between 1,5 – 2 mil. germinating seeds

of cereals/ha and 0,6 – 0,8 mil. germinating seed/ha of Arkta.

During trials with mixtures, the best results were reached

with bottom sowing of cereals and top sowing of fodder pea.



Frostica

- Newly listed variety of winter forage pea
- Early variety suitable for cropping in pure culture, or in mixture with cereals
- Very good frost resistance
- Improved health status
- High yields of green and dry mass
- Low TGW (100 – 120 g)



Dětenická Panonská

- Well adaptable for all growing regions
- High quality feed in pure culture or mixtures
- Frost resistance
- Half-upright leafy stem



Kardinal

- Mid-early variety
- Winter “annual” cut crop, sown in a late summer
- Suitable as a pure culture or as a component of the early winter fodder mixtures
- Excellent winter hardiness
- Generally perfect pre-crop, also used for improvement of sandy soils fertility





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