

Driving science

Agricultural Institute Osijek

Est.1878

Catalogue 2027

Maize | Soybean | Wheat | Forage Crops | Barley

Dear Producers,

Another growing season is behind us, once again demonstrating how vulnerable agriculture is to unpredictable weather conditions. It is precisely in seasons like these that the adaptability, stability and true potential of our range of hybrids and varieties come to the fore. Across numerous locations, our hybrids and varieties have proved their worth, making the most of available resources and performing to their full potential, delivering stable yields and reaffirming the confidence growers place in them year after year.

We continue to develop genetics that meet the challenges of modern crop production, combining high yield potential with adaptability and providing greater security under conditions that cannot always be predicted.

Once again, our maize hybrid range is led by **Kulak**, **Tomasov** and **Filigran**, our most popular and widely grown hybrids in FAO maturity group 400. These hybrids have once again demonstrated their stability across a wide range of growing conditions, maintaining strong interest among growers. Our silage maize range is led by our widely grown new-generation hybrids **Singular**, **Rudolfov 60** and **Lila**.

Our newer, earlier-maturing hybrids **OS 3722** and **OS 3397** have achieved excellent results, prompting many growers to allocate land for their cultivation. Our latest hybrid in FAO maturity group 300, **Sigurson**, has delivered excellent results and demonstrated its potential, and we therefore expect it to gain ground rapidly this season.

FAO maturity group 400, the most widely grown maturity group, has been strengthened by new hybrids that have attracted considerable interest from growers since their introduction. We therefore expect them to gain ground rapidly this year as well. These are **OS 4397**, a high-quality, hard-grained dent hybrid with a pronounced stay-green characteristic, and **Decorum**, a hybrid with strong stalks and good lodging resistance.

Once again, our soybean variety range is led by **Ika**, a high-yielding variety of excellent quality and our most widely grown soybean variety in Croatia. The medium-maturing group comprises **Tena**, **OS Zora** and **Sunce**, while earlier-maturing varieties ideal for stubble and late sowing are also available: **Lucija**, **Korana** and **Ema**. Our range also includes **OS Nevena** and **OS Đurđica**, two of our newer varieties offering high yields of excellent-quality grain.

To meet the demands of the market and growers, we are once again offering two types of sunflower hybrids: **Clearfield®** and **Sulfo** hybrids The **Clearfield®** production system involves the post-emergence application of herbicides to control difficult weeds in sunflower crops tolerant to the active substance imazamox (IMI-tolerant hybrids). Our range includes the well-established hybrid **Driver CL** and **Victory CL**, a new hybrid offering high yields and excellent stability. Our Sulfo hybrid range (hybrids tolerant to herbicides containing the active substance tribenuron-methyl) includes **Stelantis SU**, a high-yielding hybrid with high oil content, and the new hybrid **Neta SU**, suitable for sowing under a wide range of growing conditions.

Our proven alfalfa (lucerne) varieties **OS 66** and **Osječka 99** remain an essential part of the Institute's range, and we are confident that they will continue to dominate domestic and international growing areas.

This year's spring barley range includes **Dado** and **Matej**, intended for livestock feed and human consumption, alongside two new varieties with excellent agronomic and economic characteristics that are also suitable for the malting and brewing industries: **Donator** and **Jarovit**.

Our priorities remain the application of the highest standards in seed processing and the selection of the most advanced and effective seed treatment systems. OS maize hybrid seed will continue to be available with a comprehensive protective seed treatment (**Redigo M fungicide + Force 20 CS** insecticide). Selected maize hybrids are available in **OS Magnum Premium** packs, which include a biostimulant treatment in addition to fungicide and insecticide treatments. **Untreated** seed suitable for organic production is also available, as is seed additionally treated with a **repellent**. Soybean seed treated with the leading inoculant **HiCoat Super Soybean** is available to all interested growers.

As we look ahead to the new season, we thank you for your trust and many years of cooperation, and wish you a successful season and a bountiful harvest with OS hybrids and varieties!

Your Agricultural Institute Osijek

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LEGEND

EAR HARVESTING
LIVESTOCK FEEDING
DRY GRAIN PRODUCTION
BIOGAS PRODUCTION
SILAGE PRODUCTION
POST-SOWING

PROPERTIES ASSESSMENTS

1	2	3	4	5

(1 - minimum value, 5 - maximum value)

- OS 3114
- OS 378
- OS 3722
- SIGURSON
- OS 3397
- OS 398
- OS 4397
- DECORUM
- DRAVA 404
- KULAK
- TOMASOV
- SEMPER
- FILIGRAN
- OS 596
- VELIMIR
- SINGULAR
- RUDOLFOV 60
- LILA



POLJOPRIVREDNI INSTITUT OSIJEK – OSIJEK –

OS MAIZE Hybrids



FAO 330 GROUP

OS 3114

HYBRID FOR FIRST AND CATCH-CROP SOWING

- Primarily used for dry grain production
- Excellent and stable performance across a wide range of growing environments
- Medium-height, robust stalk with abundant foliage and deep, branched roots
- Compact, medium-sized ears, positioned relatively high on the plant
- Relatively short growing period and rapid grain dry-down during maturation make it a suitable hybrid for early catch-crop sowing
- High adaptability to various growing conditions.

RECOMMENDED SOWING RATE

75-79
x1000 germinable seeds/ha,

44-46
x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- Rapid and uniform early growth
- Suitable for the earliest sowing dates
- Short, sturdy, robust stalk with high lodging tolerance
- Well-developed, branched root system
- Cylindrical ear positioned at medium height and firmly attached to the stalk
- Very high tolerance to the most common diseases
- Good adaptability to different soil and climatic conditions
- High tolerance to limited water availability and high air temperatures during fertilisation and grain filling



GOOD ADAPTABILITY TO DIFFERENT GROWING CONDITIONS

RECOMMENDED SOWING RATE

75-79 x1000 germinable seeds/ha,

44-46 x1000 germinable seeds/cadastral

OS 378

FAO 350 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL



NEW

OS 3722

FAO 360 GROUP

HIGH PLANT POPULATION, RAPID GRAIN DRY-DOWN

- Primarily used for dry grain production
- Medium-height stalk with deep roots
- To achieve its full yield potential, it should be sown at a higher plant population, with 18 cm spacing within the row
- Excellent results in demonstration trials in 2025
- Characterised by a slightly taller stalk compared to OS 378 and OS 398, FAO 300 group hybrids
- Lower moisture at harvest compared to OS 378 and OS 398 hybrids
- Compared to the OS 3397 hybrid, it has 1.5–2% lower moisture at harvest
- Performs well on fertile soil
- Very good tolerance to high temperatures and limited water availability
- Fixed-size ears positioned at medium height.

RECOMMENDED SOWING RATE

75-79 x1000 germinable seeds/ha,

44-46 x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- New hybrid in the FAO 300 group
- Light-yellow dent-type kernels
- Relatively tall, firm stalk with excellent lodging resistance
- Deep, branched roots
- Primarily used for dry grain production or ear harvesting
- For best results, it should be sown at a higher plant population, with 18–20 cm spacing within the row
- Healthy ears, slightly larger than OS 3722 hybrid ears
- Lower moisture at harvest compared to the OS 3397 hybrid



NEW HYBRID WITH EXCELLENT LODGING RESISTANCE

RECOMMENDED SOWING RATE

75-79
x1000 germinable seeds/ha,

44-46
x1000 germinable seeds/cadastral

sigurson

FAO 380 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL



FAO 380 GROUP

OS 3397

THE NEW STANDARD IN THE FAO 300 GROUP

- Achieves excellent yields and production stability
- In commercial production for the past two years, with a marked increase in grower demand in all countries where it has been tested
- High tolerance to the most common diseases
- Exceptional tolerance to adverse growing conditions (lower-quality soils, high temperatures or limited water availability)
- Optimal spacing within the row at sowing is 18–20 cm
- Tall, robust stalk – among the tallest hybrids in the FAO 300 group
- Deep and branched roots contribute to greater lodging tolerance
- Large ear; ear size is not fixed, so it can achieve satisfactory yields even at slightly lower plant populations.

RECOMMENDED SOWING RATE

75-79
x1000 germinable seeds/ha,

44-46
x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- Suitable for the earliest sowing dates
- Delivers stable yields under different growing conditions
- Deep, extensively branched root system enables the plant to take up water and nutrients even under drier conditions and in soils with poorer physical and chemical properties
- Very high tolerance to the most common diseases and pests
- High drought tolerance
- Consistently achieves very high grain yields even at higher plant densities



A HYBRID FOR ALL GROWING CONDITIONS

RECOMMENDED SOWING RATE

75-79
x1000 germinable seeds/ha,

44-46
x1000 germinable seeds/cadastral

OS 398

FAO 390 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL



OS 4397

FAO 410 GROUP

SUITABLE FOR EARLY SOWING DATES

- Latest hybrid in the early FAO 400 maturity group
- For all production purposes
- Prolonged stay-green period for leaves – stay-green effect with rapid grain dry-down during maturation
- Hard, high-quality dent-type kernel, with high test weight during maturation, which makes it suitable for piglet and chick feed
- Similar to OS 3722, for best results, it should be sown at a higher plant population, with 18 cm spacing within the row
- Medium-height to tall stalk with abundant foliage and deep roots give it great stability and lodging tolerance
- Elongated, medium large ear with a fixed size, positioned at a medium height
- Very good adaptability to different growing conditions and enhanced tolerance to high air temperatures in 2025.

RECOMMENDED SOWING RATE

70-75
x1000 germinable seeds/ha,

41-44
x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- New hybrid intended for all types of production
- High and stable grain yields
- Basic purpose is dry grain production, but due to large and well-filled ears, it is also suitable for ear harvesting
- Firm and robust stalk with very good lodging tolerance
- Very good adaptability to different growing areas
- Medium large, relatively high-positioned ears with deep yellow dent-type kernels.



NEW ROBUST HYBRID IN THE MOST WIDELY GROWN FAO GROUP

decorum

FAO 420 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

RECOMMENDED SOWING RATE

71-75 x1000 germinable seeds/ha,

41-44 x1000 germinable seeds/cadastral



FAO 420 GROUP

drava 404

A MULTIPURPOSE HYBRID

- Triple-purpose hybrid: for dry grain production, thanks to its rapid grain moisture dry-down during ripening; ear production, thanks to its large, high-quality kernels; and whole-crop silage production, thanks to its high biomass yield and excellent biomass-to-grain ratio
- Tall, strong, leafy stalk with deep green foliage and good lodging tolerance
- Large, cylindrical ear with a closed tip
- High germination vigour
- Very high tolerance to the most common diseases and pests
- Thanks to its versatility, it is widely grown across all agricultural regions of Croatia

RECOMMENDED SOWING RATE

70-75 x1000 germinable seeds/ha,

41-44 x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- One of the most sought-after OS maize hybrids
- Due to its quality, it is becoming more widely grown in Croatia and abroad
- Stable and high yields for all growing purposes
- Medium-height elastic stalk with large leaves, as well as deep and branched roots make it exceptionally tolerant to lodging
- Kernels have a deep reddish base and are characterised by rapid dry-down
- Increased tolerance to unfavourable climate conditions (water shortage, high air temperatures)
- High adaptability to various growing conditions.



THE “KULAK” OF HYBRIDS

RECOMMENDED SOWING RATE

71-75 x1000 germinable seeds/ha,

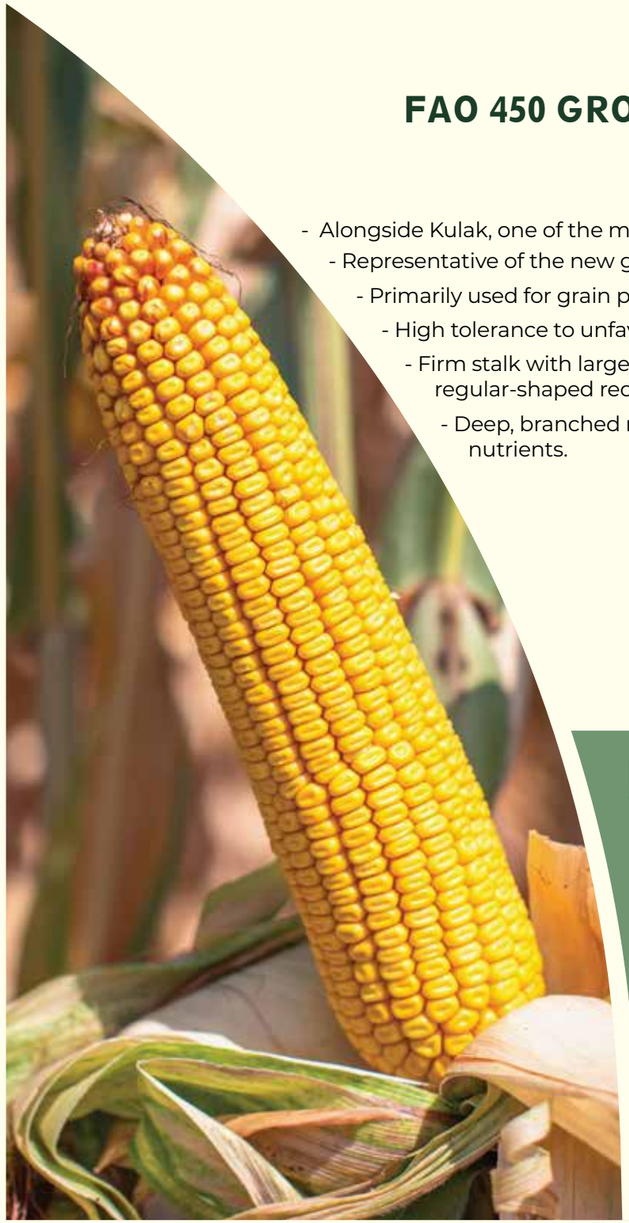
41-44 x1000 germinable seeds/cadastral

kulak

FAO 450 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL



FAO 450 GROUP

tomasov

HIGH YIELD AND HIGH STABILITY

- Alongside Kulak, one of the most sought-after OS maize hybrids
- Representative of the new generation of high-yield and high-stability hybrids
- Primarily used for grain production
- High tolerance to unfavourable climate and soil conditions
- Firm stalk with large leaves and large, well-filled and low-positioned ears with regular-shaped reddish-based kernels
- Deep, branched root system allows better absorption of water and nutrients.

RECOMMENDED SOWING RATE

71-75 x1000 germinable seeds/ha,

41-44 x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- New hybrid in the most widely grown FAO maturity group
- High yield potential
- High adaptability to various growing conditions in terms of soil, climate conditions and level of crop management
- Excellent choice for early whole-plant silage due to relatively tall stalk and large ears
- Very good tolerance to the most common diseases and pests.



HIGH YIELD POTENTIAL

RECOMMENDED SOWING RATE

71-75
x1000 germinable seeds/ha,

41-44
x1000 germinable seeds/cadastral

semper

FAO 490 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL



filigran

FAO 490 GROUP

EXCELLENT FOR ALL GROWING PURPOSES

- It has become a favourite of agricultural producers across Croatia within a short period
- Medium-height stalk with a large number of upright leaves
- Medium large to large ears
- High tolerance to the most common diseases
- Excellent adaptability to various soil and climate conditions.

RECOMMENDED SOWING RATE

71-75
x1000 germinable seeds/ha,

41-44
x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- Hybrid with exceptional grain and silage yield potential
- It has consistently broken records for grain and silage yields in recent years, both in Croatia and in several other countries
- Tall stalk with large, robust leaves
- Deep, extensively branched root system
- High tolerance to the most common diseases and pests
- High adaptability to various growing conditions.
- Large, uniformly shaped, healthy ears make this hybrid an excellent choice for ear production



IMPRESSIVE IN APPEARANCE AND YIELD

velimir

FAO 590 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

RECOMMENDED SOWING RATE

65-68 x1000 germinable seeds/ha,

38-39 x1000 germinable seeds/cadastral



singular

FAO 640 GROUP

HYBRID SUITABLE FOR EARLY SOWING

- New hybrid for all types of production
- Appropriate for earlier sowing as it is not sensitive to lower air and soil temperatures
- Rapid early growth after emergence
- Characterised by dark green leaves
- Tall and firm stalk, 20–25 cm taller than Rudolfov 60, with similar length of the growing period, which makes it suitable for silage
- Deep and branched roots give it high lodging tolerance
- Large ears with deep yellow dent-type kernels, with husks that open easily, allowing for very simple and efficient ear harvest for corn pickers and for hand harvesting
- Spacing within the row depends on the intended use, with optimal results achieved at 20–22 cm, i.e., somewhat higher plant population than is usual for earlier-generation FAO 600 group hybrids
- High tolerance to the most common diseases and pests.

RECOMMENDED SOWING RATE

65-68 x1000 germinable seeds/ha,

38-39 x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

- Hybrid which stands out with record yields in its FAO group
- Like Singular, it is appropriate for earlier sowing as it is not sensitive to lower air and soil temperatures
- Medium-height, leafy and robust stalk
- Large and regularly formed ears
- Deep and branched roots, high lodging tolerance
- High adaptability and suitability for higher plant populations give this hybrid an advantage with respect to stable silage production
- In eastern growing areas for grain production



NEW GENERATION OF SILAGE HYBRIDS

rudolfov 60

FAO 650 GROUP

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	16-18
KERNEL TYPE	DENT TYPE KERNEL

RECOMMENDED SOWING RATE

68-71
x1000 germinable seeds/ha,

39-41
x1000 germinable seeds/cadastral



lila

FAO 660 GROUP

SILAGE AND BIOGAS PRODUCTION

- Produces stable and above-average yields
- Grown in all parts of Croatia due to its high adaptability to various growing conditions
- Tall, robust and firm stalk with a greater number of large leaves characterised by an extended stay-green period
- Large, high-positioned ears
- Very deep and branched roots
- Due to its large plant mass and large ears with higher-quality kernels, Lila is the preferred option for silage production for domestic animal feed.

RECOMMENDED SOWING RATE

65-68
x1000 germinable seeds/ha,

38-39
x1000 germinable seeds/cadastral

BASIC PROPERTIES

STALK HEIGHT	
EARLY GROWTH	
GRAIN DRY-DOWN	
DROUGHT TOLERANCE	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
"STAY GREEN" EFFECT	
ADAPTABILITY	
NUMBER OF KERNEL ROWS	18-20
KERNEL TYPE	DENT TYPE KERNEL

THE FIRST CROATIAN-GROWN GREEN MANURE MIXTURE

OS GREEN EFFECT

GM52HV

LEGUME AND CEREAL MIXTURE FOR GREEN MANURING

After harvesting small grains...

GREEN MANURING!

BENEFITS OF GREEN MANURING

- Improved soil fertility
- Protection against erosion
- Reduced weed growth
- Increased soil organic matter content
- Increased soil nitrogen content
- Enhanced microbial activity
- Reduced fertiliser requirements
- Improved soil structure and aeration
- Improved soil water retention
- Protection of soil and soil organisms from direct sunlight
- Environmental protection

Seed rate: 50 -125 kg/ha

- IKA
- TENA
- OS ZORA
- OS ĐURĐICA
- SUNCE
- LUCIJA
- EMA
- OS NEVENA
- KORANA



OS SOYBEAN

Varieties

- Purple flowers, grey pubescence
- The most sought-after and widely grown soybean variety in Croatia
- Rapidly expanding in international markets
- Suitable for products intended for human consumption due to its yellow hilum
- High and stable potential for high yields and high-quality seeds
- Excellent adaptability to various growing conditions.



MOST WIDELY GROWN SOYBEAN VARIETY

ika

0-I (medium early)

QUALITY AND YIELD

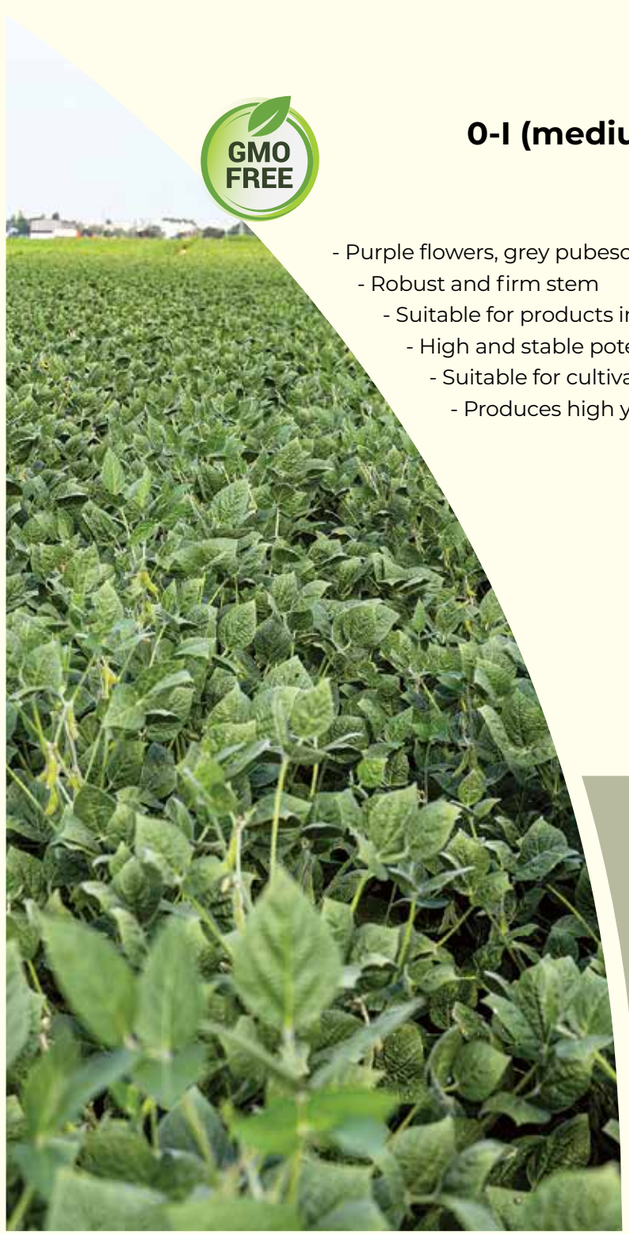
YIELD POTENTIAL	Over 5 t/ha
PROTEIN CONTENT	39 - 41%
OIL CONTENT	20 - 22%

SOWING

SOWING SEASON	April
SOWING RATE	100 - 120 kg/ha
RECOMMENDED PLANT DENSITY	580 - 600.000 plants/ha

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	0-I (medium early)
FLOWER COLOUR	Purple



0-I (medium early)

tena

- Purple flowers, grey pubescence
- Robust and firm stem
- Suitable for products intended for human consumption due to its yellow hilum
- High and stable potential for high yields and high-quality seeds
- Suitable for cultivation on all soil types
- Produces high yields even in modest crop management conditions.

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	0-I (medium early)
FLOWER COLOUR	Purple

HIGH POTENTIAL FOR HIGH YIELDS AND HIGH-QUALITY SEEDS

QUALITY AND YIELD

YIELD POTENTIAL	Over 5 t/ha
PROTEIN CONTENT	40 - 41%
OIL CONTENT	21 - 23%

SOWING

SOWING SEASON	April
SOWING RATE	100 - 120 kg/ha
RECOMMENDED PLANT DENSITY	580 - 600.000 plants/ha

- Purple flowers, grey pubescence
- Suitable for products intended for human consumption due to its yellow hilum
- High tolerance to most economically important pathogens
- Stability in plant height and seed quality
- It achieves good results even on poorer structure and less fertile soils, as well as in drought conditions.



HIGH DISEASE TOLERANCE

os zora

0-I (medium early)

QUALITY AND YIELD

YIELD POTENTIAL	Over 5 t/ha
PROTEIN CONTENT	39 - 41%
OIL CONTENT	21 - 23%

SOWING

SOWING SEASON	April
SOWING RATE	100 - 120 kg/ha
RECOMMENDED PLANT DENSITY	580 - 600.000 plants/ha

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	0-I (medium early)
FLOWER COLOUR	Purple



0-I (medium early)

os đurđica

- Purple flowers, grey pubescence
- Suitable for products intended for human consumption due to its yellow hilum
- High and stable yield in various growing conditions
- High-quality seeds, particularly in terms of protein content
- High adaptability to various growing conditions.

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	0-I (medium early)
FLOWER COLOUR	Purple

HIGH SEED PROTEIN CONTENT

QUALITY AND YIELD

YIELD POTENTIAL	Over 4,5 t/ha
PROTEIN CONTENT	43 - 45%
OIL CONTENT	21 - 23%

SOWING

SOWING SEASON	April
SOWING RATE	100 - 120 kg/ha
RECOMMENDED PLANT DENSITY	580 - 600.000 plants/ha

- White flowers, grey pubescence
- High and stable seed yield
- High nutritional value of the seeds
- Excellent adaptability to various growing conditions
- Excellent tolerance to limited soil moisture and the most common diseases.



EXCELLENT TOLERANCE TO LIMITED SOIL MOISTURE

sunce

0-I (medium late)

QUALITY AND YIELD

YIELD POTENTIAL	Over 5 t/ha
PROTEIN CONTENT	41 - 42%
OIL CONTENT	21 - 23%

SOWING

SOWING SEASON	April
SOWING RATE	115 - 125 kg/ha
RECOMMENDED PLANT DENSITY	580 - 600.000 plants/ha

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	0-I (medium late)
FLOWER COLOUR	White



lucija

00-0 (very early)

- Purple flowers, yellow pubescence
- High ratio of four-seed pods on the plant
- Greater first pod height, reducing harvest losses
- Rapid and uniform early growth even in colder springs and on heavier soils
- Suitable for regular sowing in western Croatia and for regular and delayed sowing in eastern Croatia.

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	00-0 (very early)
FLOWER COLOUR	Purple

RAPID AND BALANCED EARLY GROWTH EVEN IN COLDER SPRINGS

QUALITY AND YIELD

YIELD POTENTIAL	Over 4 t/ha
PROTEIN CONTENT	Up to 42%
OIL CONTENT	21 - 23%

SOWING

SOWING SEASON	Late April - May
SOWING RATE	135 - 145 kg/ha
RECOMMENDED PLANT DENSITY	600 - 700.000 plants/ha

- Purple flowers, yellow pubescence
- Greater first pod height, reducing harvest losses
- Rapid and uniform early growth
- Excellent tolerance to the most common diseases
- Suitable for regular sowing in western Croatia and for regular and delayed sowing in eastern Croatia.



RAPID AND UNIFORM EARLY GROWTH

ema

00-0 (very early)

QUALITY AND YIELD

YIELD POTENTIAL	Over 4,5 t/ha
PROTEIN CONTENT	Up to 41%
OIL CONTENT	Up to 22%

SOWING

SOWING SEASON	May - June
SOWING RATE	140 - 145 kg/ha
RECOMMENDED PLANT DENSITY	650 - 700.000 plants/ha

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	00-0 (very early)
FLOWER COLOUR	Purple



00-0 (very early)

os nevena

- Purple flowers, grey pubescence
- High ratio of four-seed pods on the plant; very narrow, elongated leaves
- Greater first pod height, reducing harvest losses
- Suitable for regular sowing in western Croatia and for regular and delayed sowing in eastern Croatia
- Good tolerance to heat stress during pollination and grain filling.

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	00-0 (very early)
FLOWER COLOUR	Purple

HIGH RATIO OF FOUR-SEED PODS

QUALITY AND YIELD

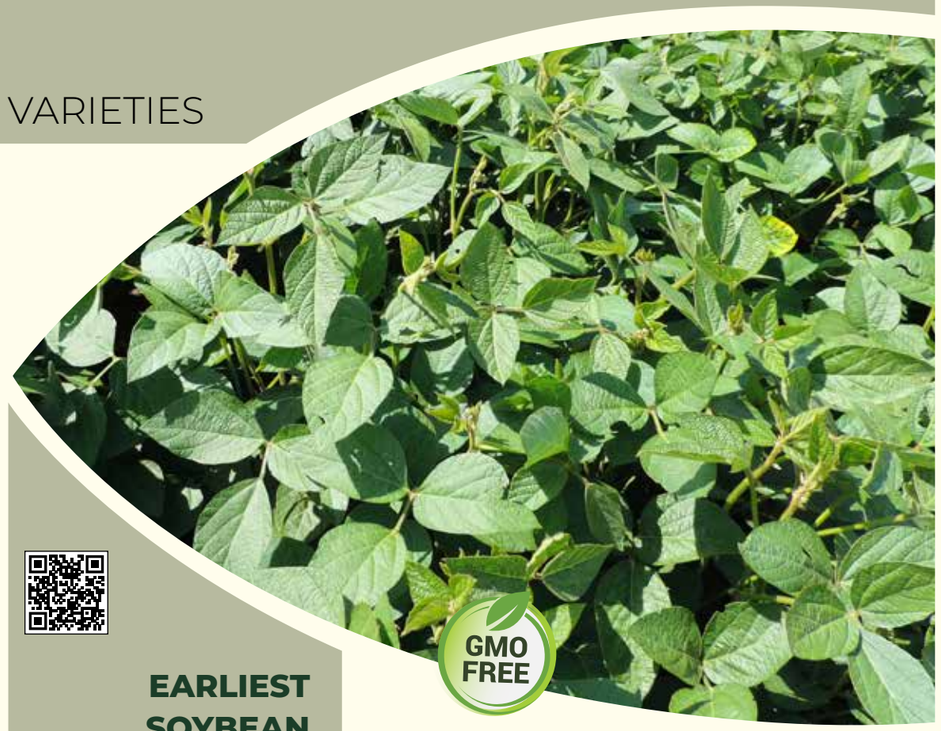
YIELD POTENTIAL	Over 4 t/ha
PROTEIN CONTENT	Up to 43%
OIL CONTENT	22- 23%

SOWING

SOWING SEASON	May - June
SOWING RATE	120 - 130 kg/ha
RECOMMENDED PLANT DENSITY	600 - 650.000 plants/ha

OS SOYBEAN VARIETIES

- The earliest soybean variety from the breeding programme of the Agricultural Institute Osijek
- Purple flowers, yellow pubescence
- Optimal first pod height, reducing harvest losses
- Exceptionally high yield potential for an early-maturing variety
- Due to a shorter growing period, it is suitable as a second crop and catch crop, achieving notable results.



EARLIEST SOYBEAN VARIETY

korana

00 (very early)

QUALITY AND YIELD

YIELD POTENTIAL	Over 4 t/ha
PROTEIN CONTENT	Up to 42%
OIL CONTENT	22 - 23%

SOWING

SOWING SEASON	May - June
SOWING RATE	135 - 145 kg/ha
RECOMMENDED PLANT DENSITY	700 - 750.000 plants/ha

BASIC PROPERTIES

PLANT HEIGHT	
LODGING TOLERANCE	
TOLERANCE TO DISEASES AND PESTS	
DROUGHT TOLERANCE	
POD SHATTERING TOLERANCE	
ADAPTABILITY	
MATURITY GROUP	00 (very early)
FLOWER COLOUR	Purple

- **DRIVER CL**
- **VICTORY CL**
- **STELANTIS SU**
- **NETA SU**



HYBRIDS

Sunflower

Clearfield®
Production System for Sunflower

THE DRIVING FORCE BEHIND RELIABLE YIELDS

- Strong stalk
- High drought tolerance
- Favourable head position
- High oil content



driver cl

QUALITY AND YIELD

OIL CONTENT	48 %
GROWING PERIOD	105 - 110 days
TEST WEIGHT	47 kg/hl
MAX. SEED YIELD	6 t/ha

BASIC PROPERTIES

SEED YIELD	
OIL CONTENT	
DISEASE TOLERANCE	
LODGING TOLERANCE	
DROUGHT TOLERANCE	
OPTIMAL NUMBER OF PLANTS/ha	65 – 75 000
IN-ROW SPACING (cm)	19 – 22

Clearfield®
Production System for Sunflower

victory cl

A HYBRID FOR WINNING YIELDS

- High lodging tolerance
- Excellent tolerance to stressful growing conditions
- Very good tolerance to the most common diseases
- High yield and oil content potential



NEW

BASIC PROPERTIES

SEED YIELD	
OIL CONTENT	
DISEASE TOLERANCE	
LODGING TOLERANCE	
DROUGHT TOLERANCE	
OPTIMAL NUMBER OF PLANTS/ha	65 – 70 000
IN-ROW SPACING (cm)	18 – 20

QUALITY AND YIELD

OIL CONTENT	47 %
GROWING PERIOD	105 – 115 days
TEST WEIGHT	48 kg/hl
MAX. SEED YIELD	6,2 t/ha

SULFO
TECHNOLOGY

RELIABLE YIELDS IN ALL CONDITIONS

- Strong stalk with good resistance to breakage and lodging
- Very good tolerance to the most common diseases
- Adapted to all growing regions
- Suitable for early sowing



neta su

QUALITY AND YIELD

OIL CONTENT	45 - 48 %
GROWING PERIOD	105 - 110 days
TEST WEIGHT	51 kg/hl
MAX. SEED YIELD	6 t/ha

BASIC PROPERTIES

SEED YIELD	
OIL CONTENT	
DISEASE TOLERANCE	
LODGING TOLERANCE	
DROUGHT TOLERANCE	
OPTIMAL NUMBER OF PLANTS/ha	60 – 65 000
IN-ROW SPACING (cm)	23 – 25

SULFO
TECHNOLOGY

stelantis su

STABLE POTENTIAL, RELIABLE YIELDS

- Medium-height hybrid with a very strong stalk
- Reliable yields even under less favourable growing conditions
- Consistently high oil content
- Excellent disease tolerance (Phomopsis, Sclerotinia)



BASIC PROPERTIES

SEED YIELD	
OIL CONTENT	
DISEASE TOLERANCE	
LODGING TOLERANCE	
DROUGHT TOLERANCE	
OPTIMAL NUMBER OF PLANTS/ha	70 – 75 000
IN-ROW SPACING (cm)	19 – 22

QUALITY AND YIELD

OIL CONTENT	47 %
GROWING PERIOD	105 – 110 days
TEST WEIGHT	48 kg/hl
MAX. SEED YIELD	6 t/ha

- OS 66
- OSJEČKA 99



OS FORAGE

Crops



OS 66

medium-late variety

- The best-known and most widely grown variety in Southeast Europe
- Adaptable to various growing conditions
- Synthetic variety developed from selected types of Pannonian alfalfa and certain European varieties
- Its longevity and leaf ratio have been increased through breeding
- Upright, medium height plants with relatively robust stems that have excellent lodging tolerance
- The majority of plants have light purple and medium purple flowers, with a lower ratio of dark blue flowers
- Excellent performance in drought conditions
- Excellent overwintering ability
- Average plant height at cutting time (bud stage to early flowering) 80–90 cm, moderately fast regrowth after cutting.

AGRONOMIC CHARACTERISTICS

PERSISTENCE	●●●●●
REGROWTH AFTER CUTTING	●●●●○
DISEASE TOLERANCE	●●●●○
DROUGHT TOLERANCE	●●●●●
LODGING TOLERANCE	●●●●●
TOLERANCE TO LOW TEMPERATURES	●●●●●

YIELD AND QUALITY

DRY MATTER YIELD	16 t/ha
PROTEIN CONTENT	3,2 t/ha
1000-KERNEL WEIGHT	1,8 - 2,1 g

PROVEN AND RELIABLE VARIETY

SOWING

SOWING SEASON	mid-March - early September
AVERAGE YIELD	> 16 t/ha of dry matter
RECOMMENDED PLANT POPULATION (plants/m²)	350 - 400
NUMBER OF CUTTINGS PER YEAR	4 - 6



- Stable, persistent and widely grown variety, highly adaptable to different climate conditions
- High biomass yield and excellent forage quality
- Suitable for a range of uses: fresh forage, hay, haylage, silage, dehydration
- Tall plants with medium-thin stems, tolerant to lodging, with an excellent leaf share in total yield (more than 50%)
- Plants are dark green and have a relatively high ratio of dark purple flowers
- Performs excellently under intensive use
- Average plant height at cutting exceeds 85 cm
- Excellent drought and low temperature tolerance
- Tolerance to the most significant diseases and pests
- High hay yield (≥ 20 t/ha) with high protein content (around 23% in dry matter)

BEST CHOICE FOR TOP YIELDS OF HIGH-QUALITY FORAGE

osječka 99|

medium early variety

YIELD AND QUALITY

DRY MATTER YIELD	18 t/ha
PROTEIN CONTENT	3,5 t/ha
1000-KERNEL WEIGHT	1,9 - 2,2 g

SOWING

SOWING SEASON	mid-March - early September
AVERAGE YIELD	> 3.5 t/ha of protein
RECOMMENDED PLANT POPULATION (plants/m²)	350 - 400
NUMBER OF CUTTINGS PER YEAR	5 - 6

AGRONOMIC CHARACTERISTICS

PERSISTENCE	■■■■■■
REGROWTH AFTER CUTTING	■■■■■■
DISEASE TOLERANCE	■■■■■□
DROUGHT TOLERANCE	■■■■■■
LODGING TOLERANCE	■■■■■■
TOLERANCE TO LOW TEMPERATURES	■■■■■■

- DADO
- MATEJ
- DONATOR
- JAROVIT



POLJOPRIVREDNI INSTITUT OSIJEK – OSIJEK –

OS BARLEY

Varieties

- Basic purpose: livestock industry and human consumption
- Medium-height stem that is tolerant to lodging
- Two-row medium lax spikes, horizontal to semi-nodding during grain development and at full maturity
- Very large, rounded, uniform, well-formed grains
- High test weight of grains
- Long awn that easily separates from the glume during harvesting
- Tolerance to the most common diseases and pests
- Good drought tolerance
- Variety included in the EU Plant Variety database
- Due to its early maturity and length of the growing period, it is well-adapted to spring barley growing conditions in Croatia and Southeast Europe.



SPRING BARLEY VARIETY FOR THE MALT INDUSTRY

AVERAGE STEM HEIGHT	75 cm
1000 - KERNEL WEIGHT	50 g
STANDARD MASS PER STORAGE VOLUME	>68 kg/hl
YIELD POTENTIAL	>7,8 t/ha
PROTEIN CONTENT	11 - 14 %

dado

early-maturing variety

BASIC PROPERTIES

PLANT HEIGHT	●●●○○
DISEASE TOLERANCE	●●●●○
LODGING TOLERANCE	●●●○○
FIRST-GRADE GRAIN YIELD	●●●●●

RECOMMENDED SOWING DENSITY	germinable seeds/m^2	450-500
	kg/ha	209-235
OPTIMAL SOWING SEASON	as early as possible in the spring	



matej

medium-early variety

- Basic purpose: livestock industry and human consumption
- Medium-height, firm and elastic stem that is tolerant to lodging
- Two-row lax spikes, nodding during grain development and at full maturity
- Very large, uniform, well-formed grains
- High test weight of grains
- Long awn that very easily separates from the glume during threshing
- Tolerance to the most common diseases and pests
- Variety included in the EU Plant Variety database
- Variety recognised in Bosnia and Herzegovina
- Due to its early maturity and length of the growing period, it is well-adapted to spring barley growing conditions in Croatia and Southeast Europe.

BASIC PROPERTIES

PLANT HEIGHT	●●●●○
DISEASE TOLERANCE	●●●●●
LODGING TOLERANCE	●●●●○
FIRST-GRADE GRAIN YIELD	●●●●●

RECOMMENDED SOWING DENSITY	germinable seeds/m^2	450-500
	kg/ha	209-235
OPTIMAL SOWING SEASON	February / early March	

TWO-ROW SPRING BARLEY WITH GOOD COMMERCIAL PROPERTIES

AVERAGE STEM HEIGHT	76 cm
1000 - KERNEL WEIGHT	47 g
STANDARD MASS PER STORAGE VOLUME	>68 kg/hl
YIELD POTENTIAL	>7,5 t/ha
PROTEIN CONTENT	11 - 14 %

- Very high-yielding variety with a sowing window similar to that of winter barley varieties, although slightly later in the fall
- Characterized by stable grain yield and quality
- Primarily intended for the malting and brewing industries, livestock production, and human consumption
- Very good to excellent agronomic and economic performance
- Short, strong, and flexible stem with very good resistance to lodging
- Very good tolerance to the most common diseases
- Two-row medium lax nodding spikes, with awn that easily separates during harvesting
- Rounded, very large, well-formed kernels with finely wrinkled, light-yellow husks
- High proportion of first-grade grains
- Very good to excellent malt quality parameters, with a lower grain protein content suitable for the malting industry
- High extract content and very good to excellent malt modification parameters



VARIETY OF VERY GOOD TO EXCELLENT MALTING QUALITY

AVERAGE STEM HEIGHT	70 cm
1000 - KERNEL WEIGHT	around 54 g
STANDARD MASS PER STORAGE VOLUME	approximately 68 kg/hl
YIELD POTENTIAL	>8,5 t/ha
PROTEIN CONTENT	approximately 11%

donator

medium-late variety

BASIC PROPERTIES

PLANT HEIGHT	●●○
DISEASE TOLERANCE	●●●●○
LODGING TOLERANCE	●●●●○
FIRST-GRADE GRAIN YIELD	●●●●●

RECOMMENDED SOWING DENSITY	germinable seeds/m²	450-500
	kg/ha	210-240
OPTIMAL SOWING SEASON	February / early March, November	



jarovit

medium-late variety

- Basic purpose: malt and brewing industry, livestock industry and human consumption
- Variety suitable for sowing in late autumn
- Very good to excellent production and economic performance
- Relatively short, firm and elastic stem with very good lodging tolerance
- Very good tolerance to the most common diseases
- Two-row medium lax nodding spikes, with awn that easily separates during harvesting
- Rounded, very large, well-formed grains with finely wrinkled light-yellow husks
- High proportion of first-grade grains
- Excellent malt quality indicators and lower protein content in the grains
- Characterised by high extract content and very good to excellent starch degradation cytolysis and proteolysis parameters.

BASIC PROPERTIES

PLANT HEIGHT	●●●○
DISEASE TOLERANCE	●●●●○
LODGING TOLERANCE	●●●●○
FIRST-GRADE GRAIN YIELD	●●●●●

RECOMMENDED SOWING DENSITY	germinable seeds/m²	450-500
	kg/ha	210-240
OPTIMAL SOWING SEASON	February / early March, November	

TWO-ROW SPRING BARLEY WITH GOOD COMMERCIAL PROPERTIES

AVERAGE STEM HEIGHT	72 cm
1000 - KERNEL WEIGHT	50 g
STANDARD MASS PER STORAGE VOLUME	>70 kg/hl
YIELD POTENTIAL	>8,5 t/ha
PROTEIN CONTENT	10,5 %

AGRICULTURAL INSTITUTE OSIJEK IN NUMBERS

148
YEARS OF OPERATION

20+
countries where our varieties and hybrids are grown

500+
registered varieties and hybrids

95
years of plant breeding experience, with breeding stations in Croatia and Turkye



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Driving science

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