

DSV Product Information 2024

IT'S YOUR SOIL



Innovation for
your growth

www.dsv-seeds.com



As a breeding and seed company with 100 years of experience, we offer our customers innovative varieties and complex cultivation methods. Deutsche Saatveredelung AG (DSV) is a full-service provider for the entire agricultural crop rotation and turf grasses. We are a successful breeder of oilseed rape and cereals, as well as grasses and small-seeded forage legumes. Furthermore, we are specialists in cover crops and offer a wide-ranging maize portfolio as well as sorghum. We provide turf customers with several solutions, beginning with single varieties for all kind of turf use, high quality mixtures for professional or private use up to complete programmes for the do-it-yourself market. Our activities encompass not only the breeding and production of new varieties with the properties and combinations of features desired by our customers, but also expert advice, high-quality service and extensive marketing through a global distribution network. Working on the 'one-stop shop' principle, we are a full-service supplier in the seed sector.



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Let's all get back to the soil

Experience from 100 years of breeding has taught us that healthy soil is the basis for sustainable growth. Without a profound understanding of the interactions and processes, resource-conserving agriculture is not possible. We breed healthy, nutrient-efficient varieties and are experts in sustainable crop rotation systems, such as undersown crops, energy crops, forage crops and cover crops. In the grass seeds sector we tap into a wealth of expert knowledge on species and varieties to provide customised solutions.

All this is based on effective quality management which we call Integrated Quality (IQ) management. This approach encompasses all divisions of the company to implement one integrated and comprehensive quality assurance system that is based on high production standards. Our sales specialists listen to our customers and provide extensive and individual advice whilst keeping in touch with the breeders. They channel customer needs so these are taken into account as new varieties and solutions are developed.

DSV seed ensures high-quality yields and safeguarding soil fertility. So that you can continue to farm economically successfully under the current challenging conditions.



Oilseed rape bred by DSV – success as a result of innovation and tradition

We have been part of the success of oilseed rape (OSR) breeding in Europe since the 1960s, and have contributed substantially to the innovations that have been essential for the expansion of the crop. While OSR breeding technology has evolved over the decades, the goal is still the same: to deliver improved varieties for our customers' success. We offer a wide range of varieties to meet the needs of farmers all over Europe and beyond. Our European testing network ensures that we are able to identify the varieties from our global portfolio that are the optimum fit for local conditions anywhere.

Focused on hybrids

In our OSR breeding we are focusing on hybrids for more than 20 years. Apart from the higher yield achieved by hybrids, hybrid breeding allows us to introduce new disease resistances such as TuYV or clubroot more quickly than in the past. Thus, we are able to react quickly to changing farmer's needs.

International distribution

Depending on the country, our varieties are distributed under the DSV or RAPOOL brand. We are No. 1 in Europe in the Clearfield® and Clubroot segments and we are market leader in winter oilseed rape in Germany, the Czech Republic, Latvia, Lithuania, Estonia and Ukraine.

Breeding milestones



Winter oilseed rape hybrids

BATIS

The new star for early maturity

- Good development before winter and strong regrowth after winter
- Early flowering and medium maturity
- Very even maturity of pods and straw

Distribution in: CZ, LT, PL, RO, SK

CROISSANT NEW!

Advanced Clubroot genetics with strong disease package

- New CR genetic with TuYV resistance and RLM7 Phoma resistance
- Excellent yields and high oil content
- Good stem health

Distribution in: CZ, DK, EE, LT, LV, PL, SE

DESPERADO

Early maturity with broad harvest flexibility

- Full trait package with RLM7, pod-shatter and TuYV resistance
- Very good lodging resistance and harvestability
- Good autumn development and late sowing potential

Distribution in: CZ, EE, LT, LV, PL, SK

DOMINATOR

Optimal yield protection

- Outstanding stem health due to APR37
- TuYV resistance and Verticillium tolerance
- Excellent winter hardiness

Distribution in: CL, CZ, EE, LT, LV, PL, UA

DRIFTER

First Phoma Blocker variety

- Best Phoma resistance on the market with LepR1 and RLM7
- Very good lodging resistance
- Early maturity, good winterhardiness

Distribution in: DK, EE, FR, LT, LV, PL, SE



DUKE

Stronger vigour for difficult conditions

- Very strong early vigour and good adaptation to late sowing date
- TuYV resistance combined with very strong resistance to phoma
- Very good pod shatter resistance

Distribution in: AR, CZ, EE, ES, HU, LT, LV, PL, UA, UK

DUPLO

Outstanding vigour in autumn and spring

- Fast regrowth in spring and medium flowering date
- TuYV resistance in combination with outstanding phoma and pod shatter resistance
- Very stable and high grain yield

Distribution in: BG, CZ, EE, LT, LV, RO, SE, SK, UA, UK, HU

DYNAMIC

Excellent stress tolerance and widely adapted

- Broad adaptation and excellent yield stability
- Very good resistance to stem canker based on Rlm7 resistance gene
- Resistance to TuYV

Distribution in: BG, BY, EE, HU, LT, LV, PL, RO, RU

MANHATTAN NEW!

Balanced vigour in autumn to ensure the winter hardiness

- Full trait package with RLM7, pod-shatter and TuYV resistance
- Robust plant type
- Good Verticillium tolerance

Distribution in: CZ, DK, HU, LT, PL, SK

TEMPTATION

High performance TuYV resistant variety

- Strong early vigour and good adaptation to late sowing
- Good winter hardiness
- Good lodging resistance

Distribution in: BY, CZ, EE, HU, LT, LV, PL, RU, RS, SK, UA, UK

RAP20270W11 (TEXAS) NEW!

Outstanding healthiness for high and stable yields

- Very good stem health
- Robust variety with good yield stability
- TuYV+RLM7 resistance

Distribution in: CZ, EE, LT, LV, PL



Winter oilseed rape hybrids



BEATRIX CL

The new generation of Clearfield WOSR

- Strong package of disease resistances (Rlm7 + TuYV)
- Pod shatter Resistance
- Very strong early vigour

Distribution in: AUS, BG, EE, LT, LV, PL, RO, SK, UA, UK

MATRIX CL

First Quad Layered PNN Variety from DSV

- Very high grain yield potential
- Very good disease ratings and TuYV resistance
- Excellent pod shatter resistance

Distribution in: BG, HU, RO, UA, UK



HOLL refers to a range of winter oilseed rape varieties with a High Oleic and Low Linolenic (HOLL) fatty acid oil profile. It was achieved by conventional breeding methods to provide an oilseed rape oil with a specific fatty acid profile benefiting food processors, foodservice operators and consumers.

V386OL NEW!

Newcomer with strong quality

- Excellent oil Quality (oleic acid ~80%, linolenic acid <3%)
- Good yield level

Registered in: common EU catalogue, Switzerland, UA

PHOENIX CL

Fits to all types of soils and tillage systems

- Develops very vigorous in autumn and is adapted to mid-early to late sowing dates
- Very good winter hardiness and drought stress tolerance

Distribution in: AU, AR, BG, BLT, CL, LT, RO, UA, UK, US

SIMPLEX CL

Excellent plant health combined with strong early vigour

- Very good winter hardiness
- Excellent disease and pod shatter resistance
- Excellent resistance to biotic and abiotic stress factors

Distribution in: BG, CL, EE, LT, LU, LV, RO, UA

Spring oilseed rape hybrids

LAKRITZ

- Excellent stress tolerance and vigour
- Medium-late flowering and maturity
- Very high oil content

LUMEN

- Compact plant type with excellent lodging resistance
- Very vigorous juvenile development
- Excellent yield stability over all regions

LAGONDA NEW!

- Very high grain and oil yield
- Excellent lodging resistance
- Medium flowering begin and medium to late harvest date



CEBRA CL

- Mid-early maturity
- Very good lodging resistance
- Very good grain yield stability

CHIP CL

- Vigorous plant growth and robust early development
- Medium maturity and very high yield potential

CLICK CL

- Medium-late maturity
- Medium plant height
- Very high oil content

More oilseed rape varieties



DSV cereal breeding – a story of success

Wheat and barley breeding

In our winter wheat breeding programmes the focus is on developing high-yielding varieties with well-balanced agronomic features, good resistance package and baking quality. In winter barley, varieties are selected mainly for the characteristics of yield, health, resistances, straw stability, winter hardiness and grain quality. Over the last twenty years, we have steadily expanded our breeding activities in cereals. In addition to the main seed breeding station in Leutewitz, Germany, DSV has now two other seed breeding stations in European key markets – in France and in the United Kingdom. Our own Europe-wide testing network allows the selective breeding on environmentally stable varieties suited to all of the major cereal growing regions in Western and Eastern Europe. DSV has also strong partnerships in spring wheat breeding.

International distribution

DSV is one of the market leaders in cereals in Germany and DSV varieties have been introduced to the market successfully in many other countries as well. Depending on the country, DSV cereal varieties are sold through wholly-owned subsidiaries or distribution partners.

Breeding milestones



Winter wheat varieties

AKTEUR E-quality

- Good quality characteristics and high specific weight
- Good HFN stability
- Longer straw, good standing ability
- Very suitable for late sowing

Distribution in: DE, RO

ARKTIS E-quality

- Good bread making features
- Very high level of resistance to Fusarium head blight, mildew and eyespot
- Medium straw length
- Very good winter hardiness

Distribution in: BY

ARTIST B-quality

- Very high and stable grain yields, high specific weight
- Very good winter hardiness
- Medium to early ripening
- Short to medium straw length

Distribution in: EE, LT, LV, PL

ASKABAN E-quality

- High and stable yielding E-variety
- Good standing ability and winter hardiness
- Well balanced disease resistance
- Good quality characteristics

Distribution in: CZ, EE, LT, LV, PL

ASPEKT A-quality

- Early type with good baking quality (A+)
- Stable and high yield in official trials
- Good winter hardiness, good to medium standing ability
- Good suitability after legumes, oilseed rape, maize and sugar beets

Distribution in: BY, EE, FI, LT, LV, PL, RO, UA

ATTRAKTION A-quality

- Stable grain yield and high specific weight
- Very good rust and mildew resistance
- Medium to early heading and medium ripening
- Good HFN stability

Distribution in: RO, SK

ATTRIBUT A-quality

- High yielding A-quality wheat
- Good lodging resistance
- Well balanced disease resistance
- High and stable HFN and specific weight

Distribution in: DE

CHAMPION Gr. 4-quality

- Very high yielding; number one in UK in the hard wheat segment
- Strong disease resistance package especially against septoria and rust
- Included resistance against orange wheat blossom midge (Sm1)
- Good suitability after different pre-crops and high flexibility in sowing time

Distribution in: BE, DE, DK, IE, NL, UK

CIRCUS B-quality

- High yielding B-quality winter wheat
- Balanced variety profile
- Pch1 resistance gene against eyespot included
- Medium to good winter hardiness

Distribution in: PL

CH COMBIN E-quality

- Early harvest, ideal as previous crop before oilseed rape
- Short, stiff straw
- Good baking quality
- Winter hard and drought tolerant

Distribution in: RO, SK, UA

Breeder: DSP AG, Agroscope

DAVINCI E-quality

- High quality single ear type
- Robust health package
- Medium ripening and good winter hardiness
- Balanced agronomic features

Distribution planned in: PL

DEBIAN B-quality

- Very high yielding B-quality winter wheat
- Earlier heading and medium ripening
- Balanced variety profile
- Orange wheat blossom midge resistance (Sm1)

Distribution in: BE, DE, DK, PL

DJANGO BPS-quality NEW!

- French variety type with awns
- High yield stability under different conditions
- Early ripening
- Resistance to orange wheat blossom midge (Sm1)

Distribution in: FR

EMBLEM A-quality

- Early ripening
- Very good winterhardiness
- Good leaf and ear health
- Stable straw

Distribution in: RO, UA

Winter wheat varieties

ETANA A-quality

- High grain yield
- Stable quality due to the stable HFN, good protein content and high specific weight
- Good leaf and ear resistance
- Very good winter hardiness and stiff straw

Distribution in: BY, DE, EE, LT, LV, SE, SK, RU, UA

EXPO E-quality

- High treated and untreated grain yield for an E-quality wheat
- Good winter hardiness
- Well balanced disease resistance package
- Very good Fusarium head blight resistance

Distribution in: CZ, HU, PL, SK

EXSAL E-quality NEW!

- High yielding E-quality wheat
- Awned type with high lodging resistance
- Strong resistance package
- Especially against yellow rust and Fusarium head blight

Distribution in: DE

JOKER A-quality

- High treated and untreated yield
- Medium straw length, with good lodging resistance
- Good leaf and ear disease resistance
- Good Fusarium head blight resistance package

Distribution in: BG, PL, RO

KAROQUE BPS-quality NEW!

- French variety type
- Early ripening
- Well rounded resistance package
- Good kernel quality and high protein content

Distribution in: FR

OXFORD Gr.4-quality

- Very high yielding hard feed wheat
- Strong disease resistance package especially against septoria and rust
- Included resistance against orange wheat blossom midge (Sm1)
- Medium ripening

Distribution in: UK

PATRAS A-quality

- High and stable treated yield
- Good leaf and Fusarium head blight resistance
- Short to medium straw, good winter hardiness
- Good quality characteristics for an A-quality wheat

Distribution in: BY, CZ, DE, EE, LT, LV, PL, UA

POLARKAP A-quality

- Strong protein level for an A-quality wheat
- Strong resistance package
- Good kernel quality with high specific weight
- Medium ripening and good winter hardiness

Distribution in: DE

PRODUZENT A-quality

- High yielding baking wheat
- Good winter hardiness and straw stability
- Good stability of HFN
- Good leaf and Fusarium head blight resistance

Distribution in: PL, UA

THALAMUS A-quality

- High yielding milling and backing wheat
- Medium heading and ripening
- Balanced resistance package
- High resistance against rust

Distribution in: AT

THEODORE Gr. 4-quality

- Very high untreated yield performance, high treated yield
- Short straw, good standing power
- Excellent Septoria and yellow rust resistance
- Very good suitability for low input

Distribution in: UK

XERXES E-quality

- Good bread making features with a high gluten content
- Medium to good disease resistance, good Fusarium head blight resistance
- Longer straw length, medium to good standing ability
- Medium to low winter hardiness, medium-early ripening

Distribution in: AT, HR, IT

Spring wheat varieties

AKVITAN A-quality*

- Mid-early variety with high TGW
- High and stable yield
- Balanced health
- Good lodging resistance

Distribution in: CZ, EE, LT, LV, PL

Breeder: LLA Triesdorf

BASTEI A-quality NEW!

- Strong yielding A-Quality spring wheat
- Well balanced disease resistance
- Short length with good lodging resistance
- Medium to late ripening

Distribution in: EE, LT, LV

BROCA A-quality*

- High yielding, mid-late low input variety
- Strong performance also in autumn sowing
- Very healthy, short and resistant to lodging
- Suitable HFN stability and high TGW

Distribution in: DE, EE, LT, LV, RO

Breeder: LLA Triesdorf

CONTINENTAL E-quality

- Medium to long plant length but good standing ability
- Good baking qualities
- Good Fusarium head blight resistance
- High yielding variety

Distribution in: KZ **Breeder:** DSP AG, Agroscope

KOSTANAI E-quality

- High yield potential
- Good disease resistance package
- Stiff straw, medium plant height
- Medium heading

Distribution in: KZ **Breeder:** DSP AG, Agroscope

SORBAS E-quality*

- Stable HFN, good protein content and high specific weight
- Medium ear emergence and ripening
- Excellent Fusarium head blight resistance
- Balanced resistance profile

Distribution in: EE, LT **Breeder:** LLA Triesdorf

TRISO E-quality*

- Good yield stability
- Very high protein content
- High level of Fusarium head blight resistance, medium leaf health
- Wide ecological adaption

Distribution in: RU, UA **Breeder:** LLA Triesdorf

E, A, B, C, BPS, BP, BAU, Gr.1, Gr.2, Gr.3, Gr.4 = Wheat quality classes of the countries

**with the option for late autumn sowing*

More wheat varieties



Winter barley varieties

We are very pleased that we are able to offer farmers resistant varieties which enable the cultivation of barley on sites with barley yellow dwarf virus (BYDV) or additional barley yellow mosaic virus (BaYMV type 2).

AVANTASIA 6-row



- High to very high grain yield
- Balanced agronomic characteristics
- BaYMV type 1 + 2 resistance
- Early heading and medium ripening

Distribution in: BE

DEEPLO 6-row

- Winter barley with malting quality
- Good winter hardiness
- Short straw length
- Good lodging resistance

Distribution in: BY

ESPRIT 6-row

- Very high yield with easy handling
- Healthy leaf
- Lodging resistant and stem stiff
- High hectolitre weight with top sorting

Distribution in: AT, BE, CH, DE, PL, RO

FASCINATION 6-row



- Tolerance to BYDV
- High to very high grain yield
- Balanced agronomic characteristics
- Early heading and medium ripening

Distribution in: AT, DE, FR

JULIA 6-row



- Well rounded resistance profile
- Record yielding in official trials
- Resistance to BaYMV type 1 + 2
- Good kernel quality

Distribution in: AT, BE, CZ, DE, FR, PL

PARADIES 6-row



- Tolerance to BYDV and resistance to BaYMV type 1 and BaMMV
- High yield also under infection conditions
- No insecticide use necessary, early sowing dates possible
- Very good leaf health and winter hardiness

Distribution in: AT, DE, HU, LU, UA

SAPHIRA 6-row

- Early to medium heading and ripening
- Medium straw length
- Good resistance package
- Good screening >2.2 mm and >2.5 mm

Distribution in: RO

SENSATION 6-row



- World's first winter barley variety combining tolerance to BYDV and resistance to BaYMV type 1 + 2
- Top yielding and early maturing
- Good disease resistance package and good straw stability
- High specific weight

Distribution in: AT, BE, CH, DE, DK, FR, HU, UK

VIOLA 6-row

- High yielding variety
- Early heading
- Short and stem stiff
- Medium specific weight and high TGW

Distribution in: DE, RO

BYDV = Barley yellow dwarf virus

BaYMV = Barley yellow mosaic virus

BaMMV = Barley mild mosaic virus



= BYDV tolerance



= BaYMV type 1 + 2 resistance

Lupin

Since the mid 1990s, the cultivation of white lupin has rapidly decreased in Germany and other countries in Central Europe because of the fungal disease anthracnose. In collaboration with our breeding partner the development of new varieties with improved resistance is our target. The first anthracnose tolerant variety FRIEDA was registered in 2019 in Germany.

FRIEDA White Lupin

- Branching type with low content of bitter substances
- High protein yield for feed use
- Excellent drought tolerance due to taproot
- Tolerance against anthracnose

Distribution in: AT, CH, DE, NL, UK

Breeder: LLA Triesdorf

CELINA White Lupin

- Low bitter content, high tillering type
- High yield potential and stability
- Good to medium standing ability
- Tolerance against anthracnose

Distribution in: AT, CH, DE, NL, UK

Breeder: LLA Triesdorf

CARABOR Blue Lupin

- Branching type with low content of bitter substances
- High yield potential with very good agronomic features
- Good standing ability and good pod shattering resistance
- Excellent drought tolerance and medium TGW

Distribution in: DE, DK, PL

Breeder: Saatzucht Steinach

More barley varieties



Lupin grower guide



Turf grass breeding

For decades, DSV has bred outstanding varieties for all requirements – from sports pitches and golf courses to parks and private gardens. We maintain constant programmes of investment into research and breeding progress. In this way we put our motto “Innovation for your growth” into practice.

Leader in Europe

DSV is the No. 1 breeder of turf grasses in Germany, we are one of the major suppliers in the international quality turf markets. Our premium varieties head the lists of all significant turf trials in Europe. They are ideal components in turf mixtures for various purposes. The complete portfolio and essential information can be found at www.dsv-seeds.com.

Innovation is breeding

Our breeders focus on a number of different characteristics such as:

- Fast germination and establishment
- Improved wear tolerance
- Recovery after wear
- Fineness of leaf
- Tolerance to close mowing
- Colour aspect
- Persistence and disease resistance
- Tolerance to drought
- Shoot density
- Traits with specific characteristics (e.g. heat and shade)

Top varieties

Perennial ryegrass *Lolium perenne*

Cultivar	Live ground cover	Visual merit	Mean	Recovery	Shoot density	Fineness of leaf	Resistance to Red thread	Winter greenness	Summer greenness
EUROPITCH	7.8	7.9	7.9	7.3	7.8	7.5	4.1	5.4	5.0
EUROSPORT	7.6	7.5	7.5	7.4	7.2	6.9	5.6	5.7	5.6
EURODIAMOND	7.7	7.7	7.7	7.0	7.4	6.4	3.8	5.4	5.3

EUROSPORT – The European player

- Withstands toughest conditions in stadiums
- Outstanding score of recovery speed

Kentucky bluegrass *Poa pratensis*

Cultivar	Live ground cover	Visual merit	Mean	Recovery	Shoot density	Fineness of leaf	Resistance to Red thread	Winter greenness	Summer greenness
LIMOUSINE	7.2	7.2	7.3	7.8	8.0	7.3	4.9	6.2	5.4
ZEPTOR	4.6	4.8	4.7	4.6	4.6	4.6	7.1	5.2	5.7

LIMOUSINE – A legend in its own time

- High shoot density compared with very fine leaves
- Quality variety with an outstanding wear tolerance

Tall fescue *Festuca arundinacea*

Cultivar	Live ground cover	Visual merit	Mean	Recovery	Shoot density	Fineness of leaf	Winter greenness	Summer greenness
REGENERATE	7.5	7.8	7.6	6.7	8.2	7.1	6.3	6.4

REGENERATE – Generation future

- Variety with high quality concerning disease resistance
- Sports type, very good wear tolerance in combination with very fine leaves
- Outstanding recommendations in France, UK and Germany

Source: Series S, Turfgrass Seed 2023, British Society of Plant Breeders

More turf grasses



High quality varieties

Perennial ryegrass *Lolium perenne*

Cultivar	Recommended in	Sports	Lawn	Density
EVENTUS	UK, DE, FR, NL, SCAN	4	5	5
POLLEN	UK, DE, FR	3	3	4
VULCANUS	UK, DE	3	3	4
PASCAL	UK, DE, FR	2	3	3
BECKHAM	UK, DE, SCAN	4	3	3

Cultivar	Recommended in	Sports	Lawn	Density
TRANSATE	UK, DE, FR	3	3	2
TURFSUN	DE, SCAN	3	3	3
JUBILEE EG	UK, DE, SCAN	2	3	3
TETRASPORT tetraploid	UK, DE, NL	4	2	2

Range: 1-5 (5 = best); breeders classification

EVENTUS – A particularly fine perennial ryegrass

- Gives every ornamental mixture a big surplus on wear tolerance
- Extremely fine variety
- Highest quality and vitality on all desired turf parameters

Kentucky bluegrass *Poa pratensis*

Cultivar	Recommended in	Sports	Lawn	Density	Recovery
LIMOUSINE	UK, DE, FR, NL, SCAN	4	4	5	4
MARKUS	UK, NL, SCAN	3	3	3	3
DAUNTLESS	UK, DE	3	4	4	4

Range: 1-5 (5 = best); breeders classification

DAUNTLESS – A handsome US type

- US variety with high disease resistance inclusive a good winter performance
- Colourwise adapted to the European market
- High technical purity for sod production and for mixtures with high standards

Chewings fescue *Festuca rubra commutata*

Cultivar	Recommended in	Density	Appearance	Red thread tolerance	Close mowing
RAMONA	UK, DE, NL	5	5	5	5
EUROCARINA	UK, DE, FR, NL, SCAN	4	4	5	5
FILIUS	UK, DE, NL	4	4	4	5
ANTOINETTE	UK, FR	4	4	3	3

Range: 1-5 (5 = best); breeders classification

ANTOINETTE – The French beauty

- Phenomenal vegetations aspect
- Component for quality ornamental lawn
- Variety for a healthy and vital lawn

Slender creeping red fescue *Festuca rubra trichophylla*

Cultivar	Recommended in	Density	Appearance	Red thread tolerance	Close mowing
TASIDA	UK, NL	5	4	3	4
EUROMARIE	UK, DE	4	4	5	5
TOUAREG	FR	4	4	5	4
TEENIE	UK, DE, NL	4	4	3	3

Range: 1-5 (5 = best); breeders classification

TEENIE – Toughness in turf!

- Nice medium green colour and an outstanding shoot density
- Overall year a nice performance

Strong creeping red fescue *Festuca rubra rubra*

Cultivar	Recommended in	Density	Appearance	Red thread tolerance
MAGITTE	UK, DE	4	4	4
MELLORI	UK, DE, NL, SCAN	4	4	3
ROCKEFELLER	DE, NL	4	4	4
MARLENE	DE	3	4	3

Range: 1-5 (5 = best); breeders classification

MARLENE – Allrounder!

- Allrounder for lawn use with improved disease resistance
- Intensive green colour with very fine leaves

Tall fescue *Festuca arundinacea*

Cultivar	Recommended in	Sports	Lawn	Density	Fineness of leaf
MELYANE	UK, DE, FR	3	4	4	4
TATONKA	DE, FR	4	5	4	4

Range: 1-5 (5 = best); breeders classification

TATONKA – Next level European type

- Recommended newcomer in France and Germany
- European breed tall fescue with improved quality towards wear and finess of leaves

Hard and Sheep's fescue *Festuca trachyphylla*

Cultivar	Recommended in	Sports	Lawn	Density
MENTOR	UK, DE, NL, FR	2	3	4

Range: 1-5 (5 = best); breeders classification

MENTOR – The modest one!

- Low demand towards management, forms a nice dense and fine sward
- Outstanding quality within the hard fescues

Tufted hair-grass *Deschampsia cespitosa*

DESANTO – For the dark side of the ground!

- Improved wear tolerance, speed up greening in spring with a good recovery
- Deschampsia is the answer for shady areas



EUROGRASS

EUROGRASS is DSV's premium brand for turfgrass mixtures. The brand offers a framework that takes into account the different country- and market-specific requirements and needs for turf mixtures. To ensure this the brand is divided into target group-specific segments EUROGRASS Professional and EUROGRASS Home.

EUROGRASS quality turf mixtures are the product of a long-term breeding, research and trial process. Only varieties that have been officially tested, at least for two years and approved as lawn grass are going to be used in EuroGrass mixtures.



Mixture programmes

EUROGRASS Professional (EG PRO)

The EG PRO mixture programme is developed for professional usage and high requirements. We select species and varieties carefully for their different characteristics to make customised mixtures. The time of sowing, climatic and soil conditions, intention and subsequent maintenance are all important parameters which are considered within the compositions. Based on many years of research and experience, these mixtures offer our customer the best solution in the market.



The EUROGRASS PRO mixtures are divided into five groups:

- Classic • Ornamental • Shade • Sport • Renovation

EUROGRASS Home

The EUROGRASS HOME mixture programme is particular designed for the do-it-yourself market. It consists of quality class varieties that optimally complement one another in their respective characteristics. We use our knowledge to compose mixtures with the intention to offer our customers good value for money. Special attention is given to the mixtures to ensure no quality compromise in this range.

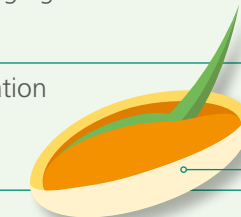


DynaSeed Plus inside:

DynaSeed Plus is DSV's innovative seed treatment for turf grasses. The customised coating mass ensures reliable germination under changing environmental conditions.




- Consistent and reliable germination
- Reliable emergence
- Health and vigour



DynaSeed coating mass



EUROGRASS mixture assortment

Mixture	Main characteristics	Composition in %										Variety examples	
		Perennial ryegrass	Italian ryegrass	Kentucky bluegrass	Chewings fescue	Slender creeping red fescue	Strong creeping red fescue	Tall fescue	Hard fescue	Tufted hair-grass	Annual ryegrass		
EG PRO 120 CLASSIC	Fast establishment, good ground cover, good soil binding capacities, low maintenance effort	50					50						BECKHAM, JUBILEE EG, PASCAL, TURFGOLD, VULCANUS, DIPPER, MELLORI
EG PRO 230 ORNAMENTAL	Fine textured, nice appearance, good ground cover, very suitable for fairways, ornamental lawns, parks and sod production	10		30	30		30						LIMOUSINE, MARKUS, ZEPTOR, DIPPER, MELLORI, ANNALENA, ANTOINETTE, JOANNA, MISSION, EVENTUS, EUROCORDUS, VULCANUS
EG PRO 320 SHADE	Shade, drought and wear tolerant, suitable under trees and building shades, very suitable where shade is combined with dry conditions	10					20	70					MELYANE, REGENERATE, DIPPER, MELLORI, PASCAL, TRANSATE, TURFGOLD, VULCANUS
EG PRO 410 SPORT	Extremely wear tolerant, fast recovery, fast establishment, very suitable for all areas under intense wear	50		50									BECKHAM, EG RESISTUS, VULCANUS, EURODIAMOND, EUROPITCH, EUROSPORT, POLLEN, LIMOUSINE, MARKUS, ZEPTOR
EG PRO 420 SPORT	Wear tolerant all-round mixture, fast recovery, drought tolerant, very suitable for all areas including wear	40		40	10	10							BECKHAM, EURODIAMOND, EUROPITCH, EUROSPORT, POLLEN, DAUNTLESS, LIMOUSINE, MIRADOR, EUROMARIE, JOANNA
EG PRO 520 RENOVATION	Fast establishment, extremely hard wearing, quick recovery from damages, ideal for renovation programmes	100											EG RESISTUS, EUROSPORT, EURODIAMOND, EVENTUS, POLLEN, BECKHAM, EUROCORDUS, PASCAL
EG DIY UNIVERSAL LAWN	Wear tolerant, fast recovery, usable for nearly all activities on the lawn	50		25			25						TURFSUN, JUBILEE EG, MARLENE, MARKUS
EG DIY LUXURY LAWN	Exclusive appearance, with very fine varieties for the luxury ornamental lawn	50			15		30		5				PASCAL, MARLENE, TURFSUN, MISSION, NEGEV
EG DIY SHADY LAWN	For shady and dry locations, only species with high shade tolerance, the solution for the problematic area					15	25	40	10	10			TROUBADIX, DIPPER, NICOLE, NEGEV, DESHADE
EG DIY SUMMER LAWN	Withstands dry periods better than other mixtures due to the focus on root growth and water consumption	20		15				65					MANITOU, STARFIRE, MARKUS
EG DIY LAWN RENOVATION	For frequent lawn renovation, fast germination and establishment, strong plus competitive di- and tetraploid perennial ryegrass varieties	100											POLLEN, LOLIUS, TRANSATE, STARFIRE, TURFSUN
EG DIY LAWN RENOVATION+	SOS repair mixture for old outworn lawns, includes tetraploids perennial ryegrasses, improved germination rate due to seed technology 	90									10		POLLEN, TURFSUN, TETRASPORT, STARFIRE, CAIRO

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Forage crops

DSV was founded 100 years ago to ensure the availability of forage seed. Even then it was clear, that high-quality forage could only be produced with high-quality seed. Since then, extensive breeding is carried out in the most important forage grass species and in small-seeded legumes. On four breeding stations and further testing sites across Europe, DSV forage breeders develop varieties, that cover all market and utilisation requirements of farmers in Europe and beyond. Apart from common breeding objectives like biomass yield, disease resistance and persistence, we especially focus on forage quality.

The following tables give an overview on the key varieties of the different species. Varieties with particular forage quality can be recognized by the Milk Index symbol (see page 36). Across all forage species there are varieties in organic quality available. The full portfolio can be found at www.dsv-seeds.com.

DSV is certified at EU level to sell organic products (EU Regulation 2018/848) DE-ÖKO-039

Video insights into forage production



Annual ryegrass *Lolium westerwoldicum*






	Variety	Type	Available in organic	Maturity	Yield	Rust resistance	National listing/ Official recommendation
diploid	GEPETTO	I	✓	early-inter	5	3	AR, CO, FR, MA
	IMPERIO	I	✓	early-inter	5	4	EC, FR, MA, RU
	LIFLORIA	I		early	4	3	AT, DE, LU, UK
	LIKOLOSS	I		very early-early	5	4	AR, CO, DE, EC, UY
	RAMIRO	M/I	✓	late-very late	5	4	DE
	RODILLO	M/I		inter	5	5	BR, DE, FR
tetraploid	ALBERTO	I	✓	early	5	5	CL, DE, FR, MA, UK, UY
	FALLADINO	I		inter	4	4	EC, DE, BY
	LIBONUS	I		early	5	3	AT, DE, EC, FR, LU, MA, UK
	SOUVENIR	I		very early-early	5	4	DE
	ARNOLDO	M/I	✓	inter	4	5	AR, BY, DE, RU
	POLLANUM	M/I	✓	inter	3	3	AR, BY, DE, EC, ES, FI, KZ, LU, PT, RS, RU, TR, UA, UK
	ELUNARIA	M		inter-late	3	3	BY, CA, DE, RU, UA

I=Intercrop M=Maincrop

Italian ryegrass *Lolium multiflorum*


	Variety	Available in organic	Maturity	Yield	Rust resistance	Persistence	National listing/ Official recommendation
diploid	SHAKIRA	✓	early-inter	3	4	3	DE, UK
	BALANCE	✓	inter	4	4	4	BY, DE, LU
	PINACO	NEW!	inter	3	4	3	UK
	SENDERO		inter	5	4	4	CA, DE, UK
tetraploid	HUNTER	✓	early	5	4	3	AR, BY, DE, RU, UK
	DOLOMIT	✓	early-inter	5	4	3	BY, CA, DE
	DORIKE	✓	early-inter	5	5	4	AR, BY, DE, GB, RU, UY
	FABIO	✓	early-inter	4	3	3	CA, DE, FI, GB, IE, LU, NL, PL
	KINGSGREEN		early-inter	5	4	4	DE, UK
	LIPSOS		early-inter	5	4	3	CL, DE, LU, NO
	NABUCCO		early-inter	4	5	4	CA, CO, DE, EC, LU, NL, UY
ARMAN		inter	4	4	4	UK	

Perennial ryegrass *Lolium perenne*

		Variety	Available in organic	Yield	Sward density	Winter hardiness	Rust resistance	Pers-istence	Forage quality	National listing/ Official recommendation	
early	diploid	TEMPRANO		3	4	4	3	2	2	AR, BY, DE, DK, RU, TR, UA, UK	
	tetraploid	ALGIRA	✓	4	4	5	5	5	5	CH, LU	
		KARATOS (M)	✓	4	4	4	4	4	3	DE, RU	
		MIRTELLO (M)	✓	4	4	4	5	5	3	AR, BE, DE, LU	
		PRANA		3	4	4	3	2	2	AR, AT, BY, EC, NL, NO, RU, TR, UA	
diploid	ARELIO (M)	✓	4	4	4	3	4	4	DE, EC, NL, RU, UK		
	ARSENAL	✓	4	5	3	3	3	3	BY, DE, KZ, NL, RU, UA		
	ASTONCONQUEROR	✓	4	4	2	3	3	3	DE, IE, UK		
	GUSTO	✓	4	4	2	4	4	3	IE, UK		
inter	tetraploid	ALLIGATOR	✓	5	4	5	3	5	2	AT, CH, DE, LU	
		ASTONENERGY 	✓	4	3	3	4	3	5	FR, AR, BY, CL, CO, GB, IE, UY	
	diploid	ASTONHOCKEY (M)	✓	4	4	4	3	5	4	BE, DE	
		ASTONVISION		4	5	3	5	4	4	NL, UK	
		BOTOND		4	4	4	4	5	4	DE, NL	
		EUROCONQUEST (M) 	✓	4	4	5	4	4	5	DE, LU	
		EXPLOSION (M) 	✓	5	4	5	5	4	5	BY, DE, NL, UK	
		TRIVOS	✓	4	4	4	4	5	3	CH, CO, DE, EC, LU, NL, RU, UA	
		diploid	ARNANDO		4	4	4	4	3	3	DE, NL
			ASTONCHIEFTAIN		4	4	2	3	2	4	DE, UK
ASTONKING			4	4	2	4	3	3	IE, NL, UK		
KAIMAN 	✓		5	4	3	4	4	5	DE, LU, NL		
MAIKO (M)			3	5	4	5	4	4	DE, NL		
ROSSERA	✓		3	4	3	3	5	5	DE, FR, NL, RU, UK		
late	diploid	ROSSIMONTE 		5	4	3	3	4	4	DE, NL	
		BEAU		4	4	2	4	3	3	FR, NL	
	tetraploid	CHEVALIER (M)		5	4	4	4	4	3	DE	
		NEUVILLE		5	4	4	5	3	4	DE, FR, NL	
		RIVALDO	✓	4	4	4	4	3	3	DE, NL	
		SHERLOCK (M)	✓	4	4	4	5	4	3	CA, DE	
		VALERIO (M)	✓	5	4	5	4	5	4	BE, BY, CA, DE, LU, RU, UK	

M=especially suitable for peat soils

Hybrid ryegrass *Lolium hybridum*

		Variety	Available in organic	Type	Maturity	Yield	Sward density	Winter hardiness	Rust resistance	Pers-istence	Forage quality	National listing/ Official recommendation
diploid	tetraploid	PIROL	✓	Lm	inter	4	3	3	3	4		AT, DE, IE, LU, UK
		ASTONCRUSADER	✓	Lm/Lp	early-inter	5	3	3	4	4		CO, DE, GB, LU, RU
		IBEX	✓	Lm	early-inter	5	2	4	4	5		CH, CL, DE, EC, FR, LU, UY
		PERKINS 		Lm/Lp	inter-late	5	3	4	4	4		NL, UK



Lm=Lolium multiflorum; Lp=Lolium perenne

Festulolium *Festulolium*

Variety	Available in organic	Type	Maturity	Yield	Sward density	Winter hardiness	Rust resistance	Persistence	National listing/ Official recommendation
FEDORO	✓	Fp x Lm	late	4	2	4	4	4	BY, DE, RU, UA, UK

Fp=Festuca pratensis; Lm=Lolium multiflorum

Meadow fescue *Festuca pratensis*


		Variety	Available in organic	Maturity	Yield	Sward density	Winter hardiness	Rust resistance	Pers-istence	Forage quality	National listing/ Official recommendation
diploid	tetraploid	LIHEROLD	✓	early	5	4	5	4	5	4	BY, DE, KZ, LU, NO, RU, UA, UK
		BALTAS		early-inter	5	4	5	4	5	3	BY, CA, DE
		PREVAL	✓	early-inter	4	3	5	4	5	3	BE, CA, CH, CZ, DE, FR, LU, NL, SK
		ALFIO		late	4	4	5	4	4	4	FR
		SCHWETRA 		inter	4	2	5	4	4	5	BY, CA, DE, GB
		TETRAX 	✓	inter	4	2	5	4	4	5	FR, AT, BY, CA, CH, RU

Tall fescue *Festuca arundinacea*


Variety	Available in organic	Maturity	Yield	Winter hardiness	Rust resistance	Leaf flexibility	National listing/ Official recommendation
FERGUSON		early	4	3	3	2	DE
LIPALMA	✓	early	3	3	3	2	BY, CL, DE, KZ, RU, UA, UY
ROSCATI		inter	4	5	4	4	DE, FR
ROSPARON	✓	inter	5	5	5	3	AR, BY, CA, CL, FR
ROSTUQUE	✓	early-inter	4	4	4	3	AR, CA, DE, FR
ROTINO		late	5	4	5	5	DE, FR

Range: 1-5 (5 = best); breeders classification

Cocksfoot *Dactylis glomerata*

Variety	Available in organic	Maturity	Yield	Sward density	Winter hardiness	Rust resistance	Persistence	National listing/ Official recommendation
LIDACTA	✓	early-inter	4	-	3	3	4	AR, AT, CA, CL, DE, LU, RU, UA, UK
PASADO		inter	4	-	4	3	4	BY, SK
REVOLIN	✓	inter	5	-	3	4	4	BY, DE, RU, UA, UY
ROSSEUR 	✓	inter	5	-	4	4	4	AR, DE, FR
HUSAR	✓	inter-late	5	-	4	2	4	DE
DUERO		late	4	-	4	3	4	BE, CA, CO, EC, FR, UY

Timothy *Phleum pratense*

Variety	Available in organic	Maturity	Yield	Sward density	Winter hardiness	Rust resistance	Persistence	National listing/ Official recommendation
ATURO	✓	early	4	4	3	-	4	DE, FR, GB, LU, RU
LISCHKA	✓	early	4	4	4	-	4	AT, BY, CA, DE, KZ, LU, PL, RU, TR, UA, UK
RADDE 		early	5	3	4	-	4	CA, BY, DE, SE
PRESTO 	✓	inter	4	4	4	-	4	BY, FR, LU, NL, UA, UK

Smooth-stalked meadow-grass/Kentucky bluegrass *Poa pratensis*

Variety	Available in organic	Yield	Sward density	Winter hardiness	Rust resistance	Persistence	National listing/ Official recommendation
LIBLUE	✓	3	5	4	4	5	BE, DE
LIMAGIE	✓	4	4	4	3	5	AT, BY, DE, DK, KZ, LU, NO, RU, UA, UK

Creeping red fescue *Festuca rubra*

Variety	Available in organic	Yield	Sward density	Winter hardiness	Rust resistance	Persistence	National listing/ Official recommendation
RAFAEL	✓	4	5	4	-	5	BY, DE, RU, TR, UA

White clover *Trifolium repens*

Variety	Available in organic	Yield	Winter hardiness	Crude protein content	Sward density	Leaf size	National listing/ Official recommendation
BIANCA		4	4	4	4	medium	BY, DE, FR
LIFLEX	✓	4	3	4	5	medium	BY, CO, DE, NL, NO, RU, TR, UA, UK
VYSOCAN		5	4	4	4	medium	CH, CZ, DE, LU
MUNIDA		4	4	-	4	large	AT, CH, LU

Red clover *Trifolium pratense*

Variety	Available in organic	Yield	Winter hardiness	Crude protein content	Persistence	Resistance to			National listing/ Official recommendation
						Stem rot	Anthraxnose	Mildew	
diploid DIPLOMAT		3	4	3	3	3	3	4	AT, CH, DE, FR, LU, UK
diploid HARMONIE	✓	4	4	5	4	4	4	4	BY, CH, DE, EE, FR, GB, UA
diploid MILVUS**	✓	3	4	3	5	3	4	4	AT, CH, DE, GB, LU, PL, UA
diploid SEMPERINA**		4	3	4	4	4	3	4	AT, CH, DE, GB
tetraploid LARUS**	✓	5	5	3	5	4	4	4	CH, DE, LU
tetraploid TAIFUN	✓	5	5	5	4	3	4	2	AT, BY, CH, DE, KZ, RU, SE, UA

**Mattenklee-type

Lucerne/Alfalfa *Medicago sativa*

Variety	Available in organic	Dormancy group	Yield	Winter hardiness	Crude protein content	National listing/ Official recommendation
FLEETWOOD 		4-5	4	3	5	AT, DE, LU
FRAVER		4	4	4	4	AT, BY, CH, DE, RU, UA
MADALINA		4	4	4	3	BY, RO, RU, UA
PLANET	✓	3	4	5	4	BY, DE, KZ, RU, TR, UA

Crimson clover *Trifolium incarnatum*

Variety	Available in organic	Yield	Winter hardiness	Crude protein content	National listing/ Official recommendation
LINKARUS	✓	5	3	3	BY, DE

Range: 1-5 (5 = best); breeders classification





COUNTRY: Your guide to achieve the best basic ration

To guarantee highest forage quality from your grassland, the crop stand has to be perfectly adapted to the site-conditions: this means, the best performing varieties of suitable species in the perfect mixing ratio.

Based on DSV's unique experiences in breeding, production and usage of forage grasses and legumes, DSV's COUNTRY mixture programme provides comprehensive, customised forage crop solutions for all sites and usages. By using only varieties from the top of international recommendation lists, COUNTRY has become the biggest brand range programme for forage seed mixtures in Germany and Poland. Over several years COUNTRY has expanded into more international markets (e.g. the Netherlands, Austria, Hungary, Belarus, the Baltic States and Russia).

COUNTRY is divided into four sub programmes (see next pages), within which the mixtures are adapted to different sites, uses and intensities (e.g. cutting, grazing, intercropping, new sowing, overseeding).



COUNTRY sub programmes

COUNTRY Energy
The highest forage quality and digestibility

COUNTRY Grassland
Site-adapted and high-performance grassland mixtures

COUNTRY Field forage
Forage production at the highest level

COUNTRY Horse
Professional mixtures for horse owners



In all COUNTRY mixtures with legumes:

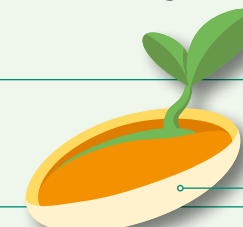
DynaSeed LegumeMaxx – for a maximum yield



DynaSeed LegumeMaxx is DSV's innovative seed treatment for alfalfa and clovers. The customised coating-mass ensures improved root growth and a faster establishment. The addition of species-specific rhizobia and molybdenum promotes nodulation and thus nitrogen fixation and yield.



- High N-fixation
- More yield
- Disburdened fertilizer balance





DynaSeed coating mass



COUNTRY Energy – the highest forage quality and digestibility

COUNTRY Energy mixtures provide the best forage quality. For highest forage performance, the mixtures ensure the establishment of high performance swards on all sites, with maximum breeding progress in every mixture.

Mixture	Designation	Overseeding	New sowings	Seeding rate for new sowings in kg/ha	Description	Composition in %										Site					Use								
						Lolium perenne inter	Lolium perenne late	Phleum pratense	Festuca pratensis	Poa pratensis	Dactylis glomerata	Festulolium	Festuca arundinacea	Trifolium repens	Trifolium pratense	Cichorium intybus	Plantago lanceolata	dry	normal	wet	peat soil	high altitudes	grazing	grazing and cutting	cutting				
COUNTRY E 2020	Late with clover	X	X	35–40	Intensive cutting and grazing on fresh mineral sites with good nutrient supply	40	45	10											••	•••	•••	••	•••	•••	•••	•••	•••	•••	
COUNTRY E 2021	Medium to late without clover	X	X	35	Intensive cutting on mineral and peat soils	60	15	25											•	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••
COUNTRY E 2022	Medium to late with clover	X	X	40	High yielding mixture for cutting and grazing	50	40								10				••	•••	••	•	••	•••	•••	•••	•••	•••	•••
COUNTRY E 2023	Late for high quality forage	X	X	40	Highest energy densities and flexibility of use		100													•••	•••	••	••	•••	•••	•••	•••	•••	•••
COUNTRY E 2024	Peat soils and higher altitudes	(X)	X	30–35	Top performance in yield and quality on peat soils and in low mountain ranges	70		20		10									•	••	•••	•••	•••	•••	•••	•••	•••	•••	•••
COUNTRY E 2025	Special	(X)	X	35–40	Best forage quality on difficult sites: dry, cold, peat soils and low mountain ranges	10	10	25	40	15									•••	••	••	•••	••	•••	••	•	••	•••	•••
COUNTRY E 2026	Protein	X	X	35–40	High yielding, protein-optimized quality mixture with clover	40	35							5	20				••	•••	•••	•	•••	•	••	•••	•	••	•••
COUNTRY E 2027	Milk Index 	X	X	40	High-performance mixture for maximum forage quality	40	60													•••	•••	••	••	•••	•••	•••	•••	•••	•••
COUNTRY E 2030	HerbMeadow MultiLife	X	X	35–40	Intensive mixture with herbs for cutting and grazing	40	42	10						5		2	1		••	•••	•••	••	•••	•••	•••	•••	•••	•••	•••
COUNTRY E 2031	HerbCloverGrass MultiLife	(X)	X	35–40	HerbCloverGrass for perennial field forage		22	12	15		5	10	12	5	15	2	2		•••	•••	•••	•	•••	•	••	•••	•	••	•••

With DSV's innovative seed treatment programme 

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••• highly suitable •• suitable • conditionally suitable

Species-rich grassland

Under the name MultiLife, the COUNTRY Energy mixtures 2030 and 2031 combine at least 5 species from at least 3 plant families. Beside forage and clover species, these mixtures contain herbs like plantain and chicory. The intelligent combination of different grass, legume and herb species leads to deeper and more intensive root systems. These allow better growing conditions and more robust plant stands even under difficult conditions.

COUNTRY Grassland – site-adapted and high-performance grassland mixtures

COUNTRY Grassland stands for persistent mixtures with high yields and quality niveaus. Due to the combination of different species and maturity groups, the mixtures are adapted to the needs of the various permanent grassland sites.

Organic mixtures



Mixture	Designation	Overseeding	New sowings	Seeding rate for new sowings in kg/ha	Description	Composition in %										Site					Use					
						Lolium perenne early	Lolium perenne inter	Lolium perenne late	Phleum pratense	Festuca pratensis	Poa pratensis	Dactylis glomerata	Festulolium	Festuca arundinacea	Festuca rubra	Trifolium repens	Trifolium pratense	dry	normal	wet	peat soil	high altitudes	grazing	grazing and cutting	cutting	
COUNTRY G 2001	Common site conditions	X	X	40	Top performing mixture for intensive grassland	20	20	60											•••	•••	•	•	•••	•••	•••	
COUNTRY G 2002	Higher altitudes and peat soils	X	X	40	For difficult peat soils, mineral sites and altitudes	25	25	40	10										•••	•••	•••	•••	•••	•••	•••	
COUNTRY G 2003	Dry sites	X	X	40	Suitable for dry sites	50	30						20						•••	••	•	•	••	••	•••	
COUNTRY G 2004	With clover	X	X	40	Top performing mixture with clover for intensive grassland	25	25	45								5			•	••	•••	•	••	•••	•••	
COUNTRY G 2010	Universal with clover		X	35–40	Broad site suitability for cutting and grazing	15	20		15	35	10					5			••	•••	•••	•••	•••	•	••	•••
COUNTRY G 2011	Universal without clover		X	35–40	Broad site suitability for cutting and grazing	15	25		15	35	10								••	•••	•••	•••	•••	•	••	•••
COUNTRY G 2012	Hay and silage		X	35–40	Intensive cutting and grazing for medium to good sites	5		30	20	20	10	5				5	5		••	•••	•••	••	•••	•	•••	•••
COUNTRY G 2013	Hay and silage for dry sites		X	35–40	Intensive cutting and grazing for dry areas	10	10					45	20		10	5			•••	••	•	•	•••	•	••	•••
COUNTRY G 2014	High yielding on dry sites		X	40	Secures good yields on dry sites with soft-leafed and high-digestible tall fescue		25	10	10	10		5		40					•••	••	••	••	••	•	••	•••
COUNTRY G 2015	Permanent meadow for extensive sites		X	25–30	Mixture for extensive meadows on dry sites with white clover	10	10	10	5	25	10				10	10	10		•••	••	••	•	•••	•	•••	•••
COUNTRY G 2016	For higher altitudes	X	X	30–35	For a late start of vegetation, persistence and winterhardiness	25	20	10	20		10	5				5	5		••	•••	•••	•	•••	••	•••	•••
COUNTRY G 2018	For higher altitudes, intensive	X	X	35–40	Mixture for high use intensities and a high basic ration	10	40	25	10		10						5		•	•••	•••	•	••	•••	•••	•••

With DSV's innovative seed treatment programme

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••• highly suitable •• suitable • conditionally suitable

Grassland management

Correctly timed maintenance measures, such as harrowing and reseeding, help to introduce valuable forage species in the sward and keep them here. Deficient grassland management leads to degenerated swards with undesirable species, which have a negative impact on the quality and profitability of the grassland.

COUNTRY Field Forage – forage production at the highest level


COUNTRY Field Forage mixtures bring highest yields and forage quality through the intelligent combination of grasses, clovers and alfalfa.

Organic mixtures



Seeding rate for new sowings in kg/ha

Use in years

With DSV's innovative seed treatment programme 

Composition in %

Site

Lolium multiflorum italicum
Lolium multiflorum westerwoldicum
Lolium hybridum
Lolium perenne
Phleum pratense
Dactylis glomerata
Festuca pratensis
Festuca arundinacea
Festulolium
Trifolium repens
Trifolium pratense
Trifolium resupinatum
Medicago sativa

dry
normal
wet
peat soil
high altitudes

Mixture	Designation	Seeding rate for new sowings in kg/ha	Use in years	Description	Lolium multiflorum italicum	Lolium multiflorum westerwoldicum	Lolium hybridum	Lolium perenne	Phleum pratense	Dactylis glomerata	Festuca pratensis	Festuca arundinacea	Festulolium	Trifolium repens	Trifolium pratense	Trifolium resupinatum	Medicago sativa	dry	normal	wet	peat soil	high altitudes
COUNTRY F 2048	Robust and dry	35–40	2–4	Perennial field forage growing on very dry areas						35	25	40						•••	••	••	•	•••
COUNTRY F 2049	Without clover, intercropping	40–45	1	Fast growing grass mixture for intercropping use	100													•	•••	•••	••	••
COUNTRY F 2050	Without clover, annual	40–45	1	Mixture for annual field forage growing on medium to good areas	50	50												•	•••	•••	••	••
COUNTRY F 2051	Without clover, 1–2 years	40–45	1–2	Mixture for annual field forage growing for 1-2 years on medium to good sites	85	15												•	•••	•••	••	••
COUNTRY F 2052	Without clover, 2–4 years	35–40	2–4	Two to four years forage growing mixture for medium to good areas	10	10	30	10	20	20								••	•••	•••	••	••
COUNTRY F 2053	Intercropping Turbo	40	1	Fast growing clovergrass mixture for intercropping purpose		80									20			•	•••	•••	••	••
COUNTRY F 2054	Clovergrass, 1–2 years	40	1–2	One to two years clovergrass mixture for medium to good sites	55	10								10	25			•	•••	•••	••	••
COUNTRY F 2055	Clovergrass, 2–3 years	20–25	2–3	Two to three years clovergrass mixture for medium to good sites				20	20	30					30			••	•••	•••	••	••
COUNTRY F 2056	Alfalfa grass	20–25	2–3	Persistent alfalfa mixture for all sites where alfalfa is well suited					5	15						80		•••	•••	••		••
COUNTRY F 2057	Alfalfa grass robust	20–25	2–3	Robust alfalfa grass for perennial field forage								20				80		•••	•	••		••
COUNTRY F 2058	Perennial field forage dry	40	2–4	Two to four years field forage for medium to very dry areas				20		20	20	20	20					•••	••	•••	••	•••
COUNTRY F 2059	Perennial alfalfa-clovergrass dry	35–40	2–3	Perennial alfalfa-clovergrass for medium to dry sites				20	10	20	10			10		30		•••	••	••		••
COUNTRY F 2060	Alfalfa Powermix	20	2–3	Persistent alfalfa mixture for perennial use on all areas where alfalfa is well suited												100		•••	•••	••		•••
COUNTRY F 2061	Alfalfa grass, very dry	20–25	2–3	Persistent alfalfa mixture for very dry sites						10						90		•••	•••	••		•••

••• highly suitable •• suitable • conditionally suitable

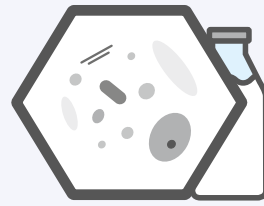
All specified information is given to the best of our knowledge and belief, but without guarantee on completeness and correctness. Despite care we cannot guarantee that the described characteristics are repeatable/comprehensive in agricultural practice in each case. Deutsche Saatveredelung AG excludes adhesion for damage or claims for damages, resulting of the use for the variety specified in this description.



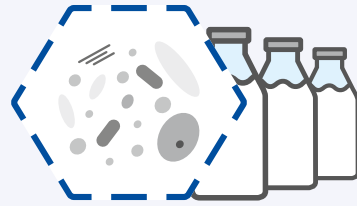
The sign for high forage quality

For many years, DSV breeders have been selecting new forage crops not only for yield and tolerance to diseases and abiotic stress factors, but they also place a special focus on forage quality. The aim is to select highly digestible and nutrient-rich forage plants for a high milk yield. Only our best varieties of forage grasses, legumes, maize and sorghum receive the Milk Index quality award. Milk Index varieties are not only tested by DSV: Their outstanding forage quality is also proven by results of independent European institutes (like the Chamber of Agriculture in Germany) or recommended lists (e.g. NIAB list for recommended grass and clover varieties).

More Milk with Milk Index



Average digestibility of a plant cell



Milk Index digestibility of a plant cell



Forage grasses:

At the optimum cutting date, Milk Index grass varieties contain **less of the indigestible cell wall component lignin** than conventional varieties of each species. This accelerates the digestibility of the remaining cell wall consisting of cellulose and hemicullose. It **increases feed intake** and ensures a better and more stable energy supply as the nutrients of the cell content are more quickly available to the ruminant, resulting in higher animal performance.



Legumes:

As a homegrown protein source, clover and alfalfa grass stands are particularly good at meeting protein needs in ruminant diets. Milk Index varieties are characterized by particularly **high crude protein contents** and thus **increase the protein value and content in the fodder**.



Maize and Sorghum:

The DSV also provides premium cultivars with top-notch fodder quality. In addition to the starch content, the plant fiber has a considerable breeding potential to enhance the digestion of the maize stover. **Increased starch levels** in maize plants result in **higher starch contents in silages**. Thus, the amount of **feed consumed is increased** through a reduced resistance period of the fodder in the rumen. The digestibility of the structure-rich plant fiber is crucial, particularly in daily diets with a high share of maize. The starch content and ELOS* of a variety are used to describe its digestibility.



*ELOS: enzyme-soluble organic substance ≈ digestibility

DSV's top Milk Index forage grass and legume varieties:

ROSSIMONTE

Stable yield meets quality
Perennial ryegrass, late, diploid

- High digestibility of cell wall fraction
- High yielding, especially in second cut
- Combined with a good sward density

KAIMAN

Healthy genetics with high forage value
Perennial ryegrass, late, diploid

- Very good persistence, very good rust resistance
- High sugar content
- High yielding, especially further cuts

SCHWETRA

Unique in forage quality
Meadow fescue, tetraploid

- High digestibility and sugar content, verified in official trials
- Best forage quality of all meadow fescues
- Top palatability based on good rust resistance because of little susceptibility to rust

TETRAX

All-rounder with high forage value
Meadow fescue, tetraploid

- Especially robust, healthy and winter hardy variety
- Digestibility above average
- Fast early growth and high persistence

EXPLOSION

A unique variety
Perennial ryegrass, intermediate, tetraploid

- High sugar contents combined with excellent digestibility
- Outstanding forage quality meets high dry-matter yields
- Based on good rust resistance and winter hardiness

EUROCONQUEST

Forage quality, yield and peat soil suitability
Perennial ryegrass, intermediate, tetraploid

- High dry matter yield over all cuts, especially of further cuts
- Good rust resistance and persistence
- Suitable for peat soils

ASTONENERGY

Leader in digestibility
Perennial ryegrass, intermediate, tetraploid

- Extraordinary forage quality (approved in trials of the German chamber of agriculture)
- High sugar content and high digestibility of the cell wall
- Recommended for a broad range of sites

FLEETWOOD

When it comes to crude protein
Alfalfa, dormancy 4–5

- By far highest crude protein content on the German National list
- High quality variety in alfalfa segment
- Combined with good yield and persistence characteristics

More about Milk Index



Maize

DSV offers high-quality forage plants in its portfolio. Accordingly, this also includes maize. In addition to yield, our breeders pay attention to the highest forage quality in silage and energy maize. Our Milk Index varieties convince with a very high digestibility of the whole plant as well as a pronounced starch content. Our grain maize hybrids impress with the best agronomic properties, early maturity in their respective segment and very high yields.

Maize varieties

For the next season, DSV offers a portfolio of high-performing maize varieties which provides solutions for all uses.

FORTARIS FAO 180/180

- Early maturing silage hybrid with a significant share of dent genetics
- Suitable for early harvest dates due to a rapid water release
- Good yield performance, even in trials in the Baltic states

MOVANNA FAO 220/210

- Early maturing silage maize with a strong cold tolerance and a good juvenile development
- High starch and energy outputs
- Good stem stability and resistance to eyespot and fusarium

GLUTEXO FAO 250/250

- Mid-early maturing dual purpose variety
- For the production of energy-rich silages
- Cobs with a double tip and two kernel rows more than an average cob
- Good stress resilience and an excellent stem and leaf health

AKANTO FAO 260/260

- Medium-late maturing maize hybrid with high grain yields
- High disease resistance and good stem stability
- Alternative use as high quality silage maize hybrid

PROPULSE FAO 270/350 east

- Medium-late maturing grain maize
- High grain yields due to its excellent cob filling
- Good health and great stem stability till harvest

PURPLE FAO 260/260

- Mid-late maturing and energy rich forage maize
- Good results for fodder quality and high yields in German and Swiss trials

GALAKTION FAO 320/370

- Late maturing dual purpose variety
- Medium-length hybrid with a great yield potential for grain and biomass
- Quick dry-down behavior of the kernels



Maize varieties

More
DSV maize

Variety	Maturity forage/ grain	Use	Available in organic	Hybrid	Type of grain	Seeding date	Seeding rate Kernels/m ²		Location	Dry matter yield	Energy yield	Starch yield	Starch-%	Digestibility	Grain yield	Lodging	Susceptibility to			Growth habit/Structure of yield
							Silage	Grain									Maize smut	Fusarium	Helmintho-sporium	
AMBIENT	120/130	grain, silage, energy	✓	three-way-cross	flint	early-very late	10–12	9	fresh-medium	6	5	6	6	5	6	3	2	3	5	compact plant, high stability
JOY	150/160	silage, energy	✓	double-hybrid	flint	early-very late	10–12	–	fresh-medium	6	5	5	5	5	–	2	3	4	5	mid-compact plant, cobs are set on the lower stem's part
FORTARIS	180	silage		double-hybrid	dent/flint	early-late	8–11	–	fresh-medium	6	7	6	5	5	–	3	3	3	5	early maturing hybrid with a significant share of dentgenetics, strong cob development
LIKEit	180/180	grain, silage, energy	✓	single-cross	flint	early-late	8–10	8–9	fresh-medium	7	7	7	6	6	7	3	2	2	3	tall plant with a good cob development, good cold tolerance
LIROYAL	190/190	silage		single-cross	flint	early-late	9–10	–	fresh-medium	7	7	7	6	6	7	3	2	2	3	tall plant with a strong cob development
DAVOS	210/220	grain, silage, energy		single-cross	flint/dent	early-late	9–10	8–9	all	6	6	7	6	6	7	3	2	4	4	medium tall plant, visible dent genetics
MOVANNA	220/210	silage, energy	✓	single-cross	flint	early-late	–	–	fresh-medium	7	5	6	6	5	–	5	3	3	4	tall, robust plant with broad leaves and a very good health status
PETROSCHKA	230/230	silage, energy		single-cross	flint/dent	early-medium	8–9	7–8.5	all	7	–	7	7	5	–	4	3	3	4	tall plant, dense foliage
CRUSH	250/230	grain		single-cross	dent	early-medium	9–10	7–8.5	fresh-medium	6	7	6	7	6	8	3	2	4	4	long cobs, good health status
GLUTEXO	250/250	silage, grain, energy	✓	single-cross	flint	early-medium	8–9	7–8.5	all	7	8	7	5	6	8	2	2	4	3	good yields due to rapid cob growth in all environments
WAKEFIELD	260/240	grain, energy		single-cross	dent	early	8–10	7–8.5	medium-drought	7	8	7	7	6	8	3	3	4	3	medium tall plant
AKANTO	260/260	grain, silage		single-cross	dent/flint	early	8–10	7–8.5	all	7	6	6	5	6	9	2	2	2	3	mid-early grain type with very high grain yields and a good health status
PURPLE	270/260	silage, energy		single-cross	flint/dent	early	8–10	–	all	7	8	7	6	7	–	4	3	4	4	high digestible forage maize, strong trial results in Middle Europe
BADIANE	270/360 east	grain		single-cross	dent	early	8–10	7–8.5	medium-drought	–	–	–	–	–	4	4	4	4	4	maize for dry locations
PROPULSE	270/350 east	grain		single-cross	dent	early	8–10	7–8.5	medium	8	8	7	6	6	8	3	3	3	3	high grain yields, good cob filling
PIATOV	290/350 east	grain		single-cross	dent	early	8–10	7–8.5	fresh-medium	–	–	–	–	–	5	4	4	4	4	dent genetics, yield stability
GALAKTION	320/370 east	grain, silage, energy		three-way-cross	dent	early	8–10	7–8.5	medium	7	7	7	6	5	8	3	3	3	3	dual-purpose variety

Range: 1–9 (1 = low, 9 = very high); breeders classification

Sorghum – the drought-tolerant alternative

Many farmers are reviewing their choices for making feed and cultivating arable crops in the future after the recent droughts. Due to the species' great stress tolerance to abiotic factors, sorghum is receiving more attention in this context.

It uses nitrogen very efficiently while tolerating less water and it even has low demands on soil. Assessing the production area of cereals, sorghum is the fifth-largest crop in the world. The crop is very versatile and is used for human or animal nutrition as well as for biomass production.

Cover crops

Cover crops, grown between two main crops (i. e. cereals, sugar beets, maize, potatoes), improve quality and yield of the main crop, promote soil fertility and beneficial micro-organisms, improve soil structure, soil water regime and erosion control. Therefore, DSV offers a large range of different single components (e.g. oil radish, phacelia, buckwheat) and well balanced mixtures.

POWER-STARCH-MIX

Maturity: early	Use: silage	Grain colour: brown
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DUAL sorghum hybrid

- Very early maturing
- Medium tall plant
- Good forage quality

Early maturing, grain-focused DUAL sorghum types with heights of 1.80 to 2.50 m have been developed by DSV. Due to their high fodder value, the combination of several DUAL-hybrids is attractive for cow feeding. The mixture is a great supplement or substitute for maize silage due to its high GTM yield and high starch content.



How TerraLife® works: more nutrients for the main crop

MORE SOIL LIFE

REINFORCED HUMUS BUILD-UP

BETTER NUTRIENT AVAILABILITY

HIGHER QUALITY YIELDS

Each cover crop has specific nutrients in the shoot and root. After they die, soil organisms decompose the cover crop biomass. In this process, the nutrients from the cover crop are mineralised and into a form that is available to plants. By combining different species, a broader spectrum of nutrients can be tapped from the soil, decomposition is controlled and transfer to the main crop is optimised.

Preceding crop

Main crop

TerraLife®-MaizePro DT
mixture of 12 species



Measured nutrient concentration (mg g⁻¹) in the catch crop before maize within the CATCHY project

Practical solutions for your requirements

Mixtures	Key areas							Companion cropping
	Legumes Free	Legumes Focused	Early sowing	Allround	Beet crop rotation	Potato crop rotation	Late sowing	
AquaPro	●		●		●			
VitaMaxx DT	●						●	
N-Fixx	●	●						
WarmSeason	●		●					
MaizePro DT				●				
Rigol DT				●				
BetaMaxx DT					●			
BetaMaxx					●			
BetaSola					●	●		
SolaRigol	●					●		
SolaRigol DT						●		
SoilProtect							●	
ForageRooter		●					●	
BrassicaPro	●	●						●
SolanumPro						●		●
Organic Mixtures								
AquaPro Organic	●		●					
BioMaxx Organic	●			●			●	
GreenPower Organic	●	●						
MaizePro Organic	●			●				
BetaMaxx Organic	●				●			
Solanum Organic	●					●		
Landsberger Gemenge Organic	●						●	

Composition can differ, depending on the legal framework within different countries or availabilities of single components.
 ●● = especially suitable for oilseed rape crop rotations ●● = especially suitable ●● = also suitable for | DT = Radish Deep till

N Potential
approx. 60 kg/ha



Early Sowing:

TerraLife®-WarmSeason

It's time for growth

- Suitable for early sowing
- Also for dry conditions
- Maximum photosynthesis

Composition	Niger, egyptian clover, linseed, abyssinian cabbage, sorghum, common vetch, field pea
Sowing rate	20 – 30 kg/ha
Sowing date	Mid-August to early September
Crop rotations	Cereals, maize, legumes, sugar beets

Leguminous:

TerraLife®-N-Fixx

Rapid soil coverage and nitrogen fixation

- Freezing off very well
- Very good nitrogen accumulation
- Rich bee forage

Composition	Egyptian clover, serradella, phacelia, linseed, persian clover, common vetch, field pea, niger, sunflower, sorghum
Sowing rate	40–45 kg/ha
Sowing date	Mid-August to early September
Crop rotations	Cereals, maize, oilseed rape, sugar beets

N Potential
approx. 100 kg/ha



Composition can differ, depending on the legal framework within different countries or availabilities of single components.

DT = Radish Deeptill

N Potential
approx. 80 kg/ha



Allrounder:

TerraLife®-MaizePro DT

Balanced, partly hardy cover crop for maize crop rotations

- Leaves an optimal soil structure
- Promotes root penetration
- Very good N-utilisation

Composition	Linseed, phacelia, niger, rye, abyssinian cabbage, deep-rooted radish, persian clover, sorghum, crimson clover, winter vetch, field pea, sunflower, white clover
Sowing rate	40–45 kg/ha
Sowing date	End of July until end of August
Crop rotations	Cereals, maize, oilseed rape

Potato rotations:

TerraLife®-SolaRigol Available as DT mixture

The cover crop mix for potato crop rotations

- Reduces disease susceptibility in potato crop rotations
- Soil fertility enhancing
- Ensures rapid root penetration of the potato

Composition	Niger, egyptian clover, linseed, bristle oat, bitter lupin, common vetch, serradella, persian clover, field pea
Sowing rate	55–60 kg/ha; SolaRigol DT: 30–35 kg/ha
Sowing date	Mid-August to early September
Crop rotations	Oilseed rape, potatoes, cereals, maize, sugar beets

N Potential
approx. 80 kg/ha



N Potential
approx. 30 kg/ha



Allrounder:

TerraLife®-Rigol DT

Strong root formation stabilises the soil structure

- Proven in practice over the long term
- Very deep rooting
- For compacted soils

Composition	Linseed, phacelia, false flax, niger, abyssinian cabbage, bristle oat, egyptian clover, field pea, sorghum, deep-rooted radish, common vetch, sunflower
Sowing rate	20–22 kg/ha
Sowing date	Mid-August to early September
Crop rotations	Cereals, maize, oilseed rape

Sugarbeet rotations:

TerraLife®-BetaMaxx Available as DT mixture

The cover crop mix for sugar beet cultivation

- Freezes off very well
- Creates ideal seedbed conditions for sugar beet
- Also for rapeseed crop rotations

Composition	Egyptian clover, niger, phacelia, linseed, bristle oat, serradella, common vetch, bitter lupin, field pea
Sowing rate	40–45 kg/ha; BetaMaxx DT: 30–35 kg/ha
Sowing date	Mid-August to early September
Crop rotations	Oilseed rape, sugar beets, cereals, maize

N Potential
approx. 80 kg/ha



Composition can differ, depending on the legal framework within different countries or availabilities of single components.

DT = Radish Deeptill

N Potential
approx. 30 kg/ha



Winterhard mixture for late sowing:

TerraLife®-SoilProtect

Winter-hardy base mix

- For winter-hardy soil cover
- For a long greening and photosynthesis performance
- As pure seed and hardy combination with other TerraLife® mixtures

Composition	Perennial ryegrass, ribwort-plantain, linseed, crimson clover, winter vetch, alsike clover
Sowing rate	30–35 kg/ha, as undersown crop: 15–20 kg/ha
Sowing date	End of August to mid-September, from mid-May in undersowing
Crop rotations	Oilseed rape, cereals, maize, potatoes, sugar beets

N Potential
approx. 80 kg/ha



Winterhard mixture for late sowing:

TerraLife®-ForageRooter

A high-yielding classic

- High protein forage
- Good winter hardiness
- Excellent improvement of the crumb structure

Composition	Italian ryegrass, crimson clover, winter vetch
Sowing rate	50 kg/ha
Sowing date	End of August to mid-September
Crop rotations	Oilseed rape, potatoes, sugar beets, cereals, maize

The interactive combination with the main crop:

Companion cropping

Benefits:

- Stabilisation of the soil structure
- Improvement of the nutrient dynamics
- Increase of the photosynthetic active leaf area
- Optimum nutrition of the microbiom



TerraLife®-BrassicaPro

The companion cropping mixture for oilseed rape experts

- Supports the nitrogen supply
- Increasing biodiversity
- Possible support weed supression and distraction of insect pests

Composition	Serradella, linseed, field bean, egyptian clover, persian clover, niger
Sowing rate	15–20 kg/ha
Sowing date	Shortly before or at the same time as the rape
Crop rotations	Oilseed rape, cereals, maize



TerraLife®-SolanumPro

The companion cropping mixture for potato experts

- Temperature control in potato ridges
- Promotes soil life
- Strengthens the vitality of the potato plant

Composition	Summer vetch, oilseed rape, perennial ryegrass, niger, persian clover
Sowing rate	15 kg/ha
Sowing date	Depending on the growth type of the potato varieties, approx. EC 9
Crop rotations	Oilseed rape, potatoes, sugar beet, grain, maize

Our best single components

Our intercrop varieties ensure the success of the cultivated species. DSV offers a wide range of catch crop varieties and has solutions for different requirements.

White mustard and oil radish have always been very common in cover cropping. Breeding of nematode reducing varieties often secures or even allows the intensive cultivation of beets and vegetables in many regions. Our varieties combine just the best characteristics.

Name	Available in organic	Species	Susceptibility for <i>H. schachtii</i>	Other nematode resistances	Matter production at the beginning	Tendency for flowering	Sowing time		
							Early sowing*	Medium sowing*	Late sowing*
RADETZKY	✓	oil radish	2	<i>Meloidogyne chitwoodi</i> , <i>M. falax</i> , <i>M. minor</i>	5	3			
RESET		oil radish	1	<i>Meloidogyne chitwoodi</i>	6	3			
TRIDENT		oil radish	2	<i>Meloidogyne chitwoodi</i> , <i>M. hapla</i>	7	3			
BRUTUS	✓	oil radish	2**						
PASSION		white mustard	2		6	3			
CONVEX		white mustard	2		4	2			
ConceptOne	✓	white mustard	1		6	3			
POLE POSITION		white mustard	1		6	3			
LITEMBER	✓	white mustard			7	5			

Based on BSA-results, Germany 2021
 *in warm temperate climate zones like in Central Europe
 Range: 1–9 (1 = low expression degree, 9 = high expression degree)
 **based on Belgium trial results

Oil radish (*Raphanus sativus*)

RADETZKY

Combines four resistances

- Resistances: *Heterodera schachtii* (cat.2); *Meloidogyne chitwoodi*, *falax* and *minor*
- Far window for sowing due to good standing ability and low tendency for flowering

RESET

Best for sugar beets

- Highest possible resistance against *Heterodera schachtii*
- Low tendency to lodging and flowering

Mustard (*Sinapis alba*)

CONVEX

The waxy type

- Very thick cuticle → more lipids to feed the soil life
- Well adapted to early sowings
- Resistance to beet nematods

TRIDENT

Three times excellent against nematodes

- Resistances: *Heterodera schachtii* (cat.2); *Meloidogyne chitwoodi*, *hapla*, and clubroot
- Nematode control in intensive crop rotations with sugar beets, potatoes and vegetables
- Fast early growth for good weed suppression combined with a low tendency to flowering

POLE POSITION

Late all-rounder

- Tolerates late sowing
- Offers much organic matter
- Short, stable growth type

Abessinian mustard (*Brassica carinata*)

PURPLEFIRE

Fast growing and storing nitrogen

- Very dark purple leaves
- In most areas winterhard
- Very good nitrogen uptake

Winter forage rape (*Brassica napus*)

GORILLA

High yield and dry matter content

- The dark purple green and re-growing forage rape
- Early sown (late spring) GORILLA can be grazed or cut two times in the same year
- Very good standing ability and tolerant to club root

Crimson clover (*Trifolium incarnatum*)

LINKARUS*

Suited for many uses

- Overwintering crimson clover with flexible usage (cover crop, forage, green manuring)
- Characterised by fast growth, intermediate flowering, mass of fibrous roots and dense foliage
- Very good bee pasture

Buckwheat (*Fagopyrum tataricum*)

LIFAGO*

Large leaves for excellent ground cover

- Especially bred for cover crop use
- Impressive high organic matter production based on fast early growth
- Freezes off reliably

Linseed (*Linum usitatissimum L.*)

LIRINA*

Blue flowering and deep rooting

- Medium-early heading
- Good drought tolerance
- Good competitiveness

Camelina (*Camelina sativa*)

LIGENA

Great adaptability to different conditions

- Suitable for cultivation under low-input conditions
- Low susceptibility to disease
- Good weed suppression

*also available in organic quality

Turnip (*Brassica rapa rapa*)

MARCO

Grazing preference

- Early maturing tetraploid variety
- Mid-summer sowing for grazing in autumn and winter
- Resistant to bolting and tolerant to clubroot and alternaria

LICAPO

Palatability and high digestibility

- High-yielding 00 forage rape → free of erucic acid and low content of glucosinolates
- Good general resistance and high leaf to stem ratio ensure a good palatability and digestibility
- Well-suited for silage production or grazing

Hairy vetch (*Vicia villosa*)

Otsaat Dr. Baumann's*

N-fixing and soil improving

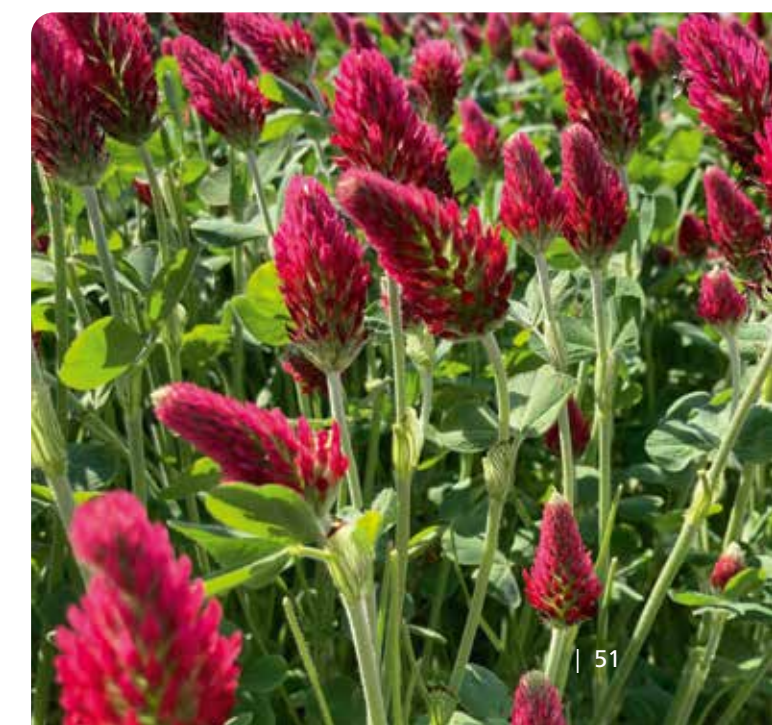
- For winter cover crop cultivation with a good winter hardiness and tillering as well as lush foliage
- Ideal overwintering green manure previous to maize and root crops
- Part of the cover crop mixture TerraLife® ForageRooter

Field pea (*Pisum sativum*)

LIVIOLETTA*

Top variety for green manuring

- One of the top field pea varieties for green manuring or forage use
- Shows good standing ability
- High protein contents and dry matter yields





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