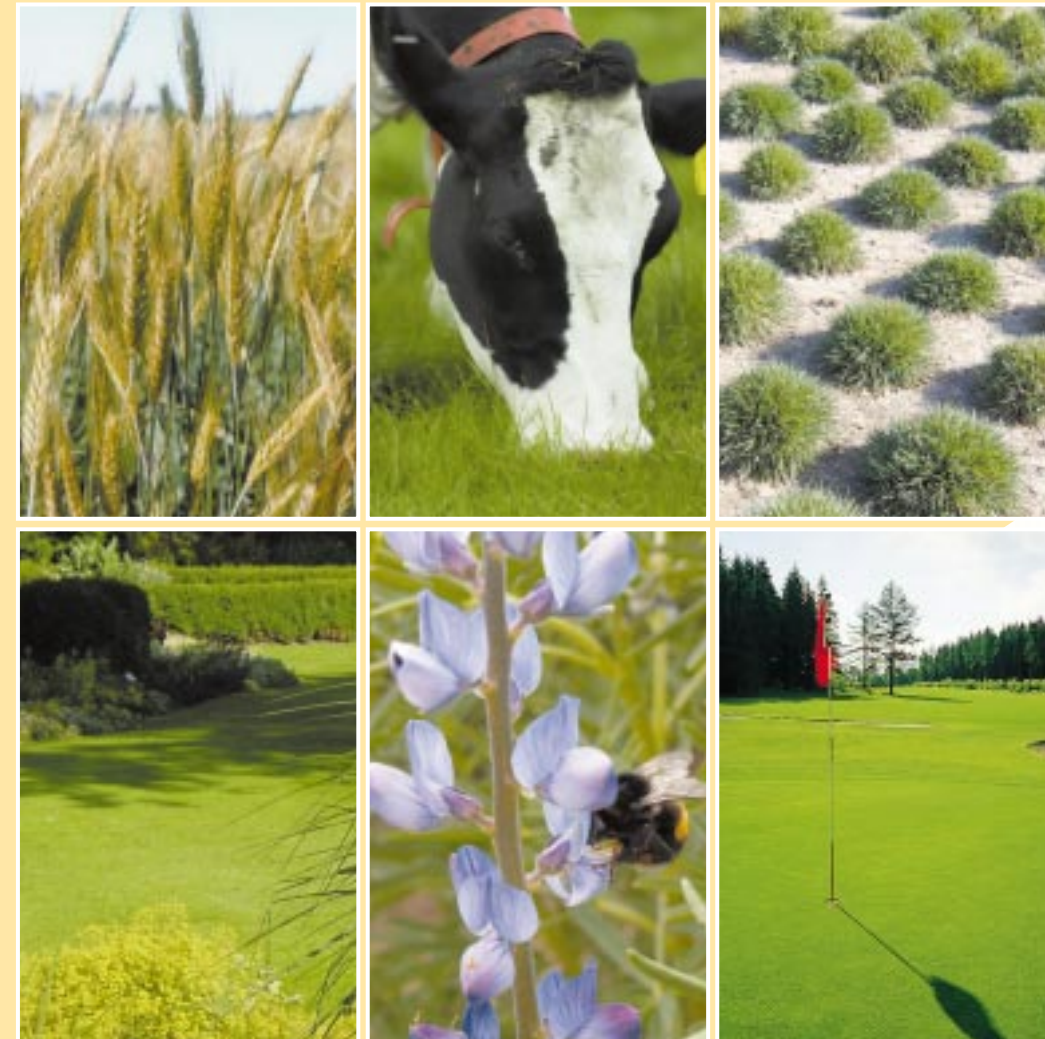


SAATZUCHT STEINACH

Valuable
Lawn Grasses

Profitable
Forage Grasses



Quality doesn't just happen

Steinach began to focus on forage crops around 1904 and as a result started to breed forage grasses. **Saatzucht Steinach** was founded in 1920. Since then a string of successful forage grass varieties have been produced that increase forage yield and quality. This in turn has improved meat and milk production for farmers. To achieve this, our breeding programmes use a combination of conventional and the latest biotechnical procedures to ensure our continued success.

In the second half of the last century breeding activities were expanded to create lawn grass breeding programmes as well. The first red fescue lawn grass variety to be registered in Germany was from our own breeding programme. By the new millennium we had varieties of every lawn grass species to cover every need, from ornamental, easy to manage domestic lawns to professional sports pitches and golf courses. The

quality of our varieties is seen in the excellent reputation we have built with landscapers and many satisfied customers.

Today we offer our customers a profitable range of forage and lawn grasses, legumes, green manures as well as specialised crops. On our Steinach's breeding stations we test the varieties across a wide range of soil and climatic conditions and produce the basic seed. **We then multiply the varieties further on our own 4500 ha of land.** Valued business partners at home and abroad can have varieties that are produced to suit their own specific requirements and marketing strategies. We offer the possibility of producing „Steinach“ varieties under a license agreement, or we can organise seed production for you depending on your preference. This service is complemented with agronomic advice to ensure that the varieties are grown to their best ability.

The entire process from breeding, multiplication, processing and marketing is quality controlled internally and externally to ensure that the highest standards are maintained throughout.

We develop a trusting relationship with wholesale and production companies through our hard work and conviction. This means we can assure that **we will always deliver the finest quality seed** to our customers and farmers.



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Lawn Grasses

Perennial Ryegrass (Lolium perenne)

ABERNILE NEW
HENRIETTA
LOGGIA NEW
LORETTA
LORETTANOVA
LORINA
MARIETTA

Chewings Red Fescue (Festuca rubra commutata)

RASENGOLD
SALUT

Strong Creeping Red Fescue (Festuca rubra rubra)

ROBIN
ROLAND 21
SARAH NEW

Sheep's Fescue (Festuca ovina duriuscula)

BORNITO
BORVINA NEW

Slender Creeping Red Fescue (Festuca rubra trichophylla)

BORFEBO NEW
BORLUNA NEW
BORNADO
BORSIMO NEW

Supina Blue Grass (Poa supina)

SUPRANOVA
SUPREME

Smooth Stalked Meadow Grass (Poa pratensis)

STOLA

Brown Top Bent (Agrostis capillaris)

ABERROYAL NEW

Forage Grasses

Perennial Ryegrass (Lolium perenne)

ABERAVON NEW
ARABELLA
AROLUS NEW
ARTESIA NEW
IVANA
WEIGRA

Italian Ryegrass (Lolium multiflorum)

ALGES NEW
MUSTELA NEW

Hybrid Ryegrass (Lolium x boucheanum Kunth)

ABERANVIL NEW
LEONIS NEW
PIROL

Westerwolds Ryegrass (L. multifl. var. westerwoldicum)

BORMITRA NEW
GONZALES NEW
HANNAH NEW

Meadow Fescue (Festuca pratensis)

COSMOLIT
COSMONAUT NEW

Strong Creeping Red Fescue (Festuca rubra rubra)

CONDOR
ROLAND 21

Cocksfoot (Dactylis glomerata)

HORIZONT
HUSAR

Smooth Stalked Meadow Grass (Poa pratensis)

LATO
NIXE NEW

Golden Oat Grass (Trisetum flavescens)

TRISETT 51
TRISTAN

Tall Oat Grass (Arrhenatherum elatius)

ARONE

Meadow Foxtail (Alopecurus pratensis)

ALPHA NEW

Small Grain Legumes

Red Clover (Trifolium pratense)

LUCRUM
NEMARO
TAIFUN NEW
TITUS

Large Grain Legumes

Narrow Leafed Sweet Lupin (Lupinus angustifolius)

BORA
BOREGINE
BORLU
BORUTA
HAAGS BLAUE NEW
PROBOR
SANABOR NEW
VITABOR

Yellow Sweet Lupin (Lupinus luteus)

BORNAL

Catch Crops

White Mustard (Sinapis alba)

SIGNAL
SINUS

Phacelia (Phacelia tanacetifolia)

BORATUS

Serradella (Ornithopus sativus)

MECKLENBURGER

Cereals

Winter Rye (Secale cereale)

BORESTO

Winter Fodder Rye (Secale cereale)

BORFURO

Wild Rye (Secale multicaule)

BORWALDO



Lawn Grasses

Perennial Ryegrass

(Lolium perenne)

ABERNILE ^{NEW}

A new variety with good quality and disease resistance, that sets new standards for resistance to red thread and net blotch. Displays „Stay-Green-Effect“ in mild winters.

HENRIETTA

Henrietta has an attractive fresh green colour and dense sward reflected in its excellent colour and ground cover scores.

LOGGIA ^{NEW}

A new and exciting perennial ryegrass variety that performed well in both amenity and sports turf trials. It combines the characters of Loretta with a darker green colour and a reduced mowing requirement.

LORETTA

Loretta has been the leading perennial ryegrass variety in generations of quality turf mixtures. Even today, Loretta Super-Lawn is highly regarded for its fine turf and easy management in domestic and municipal lawns.

LORINA

A very slow growing variety with very good shoot density and dark green colour make it an invaluable addition to mixtures with smooth stalked meadow grass.

MARIETTA

Marietta is the choice in many lawn mixtures. Its producing good seed yields.



LORETTANOVA

Loretta nova is one of the highest scoring perennial ryegrass varieties on the RSM (Recommended Seed Mixture) list for wear tolerance with a top score of 9. It combines the characteristics required for both amenity turf and sports turf, unlike many other varieties.



Perennial Ryegrass

	Ornamental Lawn	Amenity Lawn	Sports-ground Lawn	Landscape Lawn
ABERNILE	-	7	7	6
HENRIETTA	-	7	8	5
LOGGIA *				
LORETTA	-	7	8	5
LORETTANOVA	6	8	9	6
LORINA	-	6	7	5
MARIETTA	-	-	7	4

* variety is registered; official tests are not yet finished

9 = very good suitable; 4 = suitable

Variety Assessment

in the Recommended Seed-Mixtures (RSM) of the research society Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V.



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Lawn Grasses

Chewings Red Fescue

(Festuca rubra commutata)

RASENGOLD

The longest German amenity red fescue to remain on the list for extensively managed landscaping seed mixtures. The good shoot density and low maintenance requirement combined with excellent seed yields ensure that Rasengold is worth its weight in gold.

SALUT

Salut has been especially bred to produce low maintenance amenity turf. Its slow growth and high shoot density mean less time cutting and more time enjoying. The excellent seed yields make it a very attractive economic proposition.

Strong Creeping Red Fescue

(Festuca rubra rubra)

ROBIN

Long and vigorous rhizome production quickly close gaps in the turf to help suppress weeds. Suitable for both landscaping and amenity turf production.

ROLAND 21

An excellent variety for stabilising soil on steep slopes, due to its vigorous deep rooting system and mat forming rhizomes, which hold the soil together. It is an excellent seed producer that ensures good economic returns for the grower.

SARAH^{NEW}

A good variety for landscaping and produces attractive amenity lawns with its deep colour and saves on mowing costs due to its slow growth habit.



Variety Assessment

in the Recommended Seed-Mixtures (RSM) of the research society Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V.

Chewings Red Fescue	Ornamental Lawn	Amenity Lawn	Tolerance, Close Mowing	Landscape Lawn
RASENGOLD	-	-	-	6
SALUT	7	8	6	6
Strong Creeping Red Fescue	Ornamental Lawn	Amenity Lawn		Landscape Lawn
ROBIN	-	4		6
ROLAND 21	-	-		4
SARAH	-	5		6

9 = very good suitable; 4 = suitable



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Lawn Grasses

Sheep's Fescue

(Festuca ovina duriuscula)

BORNITO

This is standard variety where stabilisation of soil is required on construction projects and on dry sites. Its root system penetrates upto 2.5 m deep into the ground to stabilise soil conditions and find any water that is available. It produces an attractive dense turf even on inhospitable dry locations and its slow growth reduces mowing requirements and therefore saves money.

Slender Creeping Red Fescue

(Festuca rubra trichophylla)

BORFEBO ^{NEW}

This variety is suited to general use in many different situations as it is very robust, tolerates close mowing and has a good overall appearance.

BORLUNA ^{NEW}

Borluna is a top quality variety within the trichophylla species. Excellent tolerance to close mowing and rot resistance enable it to be used in intensively as well as extensively managed turf combined with a very good winter appearance.

BORNADO

Produces a fine, dense sward with excellent appearance even in unfavourable conditions, where it maintains high standards of visual merit.

BORSIMO ^{NEW}

Good resistance to red thread and fast regeneration after winter maintain a good appearance. During the growing season Borsimo produces an excellent sward density and reduced mowing requirements from the short growth habit.



BORVINA ^{NEW}

This robust variety is suitable for landscaping, roadside verges and engineering projects where bare soil needs to be stabilised and low maintenance is required.

Variety Assessment

in the Recommended Seed-Mixtures (RSM) of the research society Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V.

Grass Variety	Sheep's Fescue		Slender Creeping Red Fescue	
	Ornamental Lawn	Amenity Lawn	Tolerance, Close Mowing	Landscape Lawn
BORNITO	-	-	-	7
BORVINA	-	-	-	6
BORFEBO	7	7	7	7
BORLUNA	7	8	8	7
BORNADO	6	6	-	-
BORSIMO	7	8	7	7

9 = very good suitable; 4 = suitable

Lawn Grasses

Supina Blue Grass

(Poa supina)

SUPRANOVA

This top quality variety produces a very dense vigorous turf with excellent wear resistance and will tolerate shade.

SUPREME

Combines the advantages of Supranova with a darker, rich green colour, which make it an invaluable addition to lawn mixtures. Very good shade tolerance and fast greening up after winter, add to Supremes list of qualities.

Smooth Stalked Meadow Grass

(Poa pratensis)

STOLA

The vigorous root system and stolon production result in excellent resistance to wear and drought. Its very good appearance throughout the summer and winter make it a prerequisite for both amenity and sports turf.

Brown Top Bent

(Agrostis capillaris)

ABERROYAL ^{NEW}

Aberroyal is one of the top performing varieties on the STRI list which produces a dense, fine leaved turf with good disease resistance and colour. It is tolerates very close mowing and the dense and vigorous sward ensure that weeds are prevented from getting established.



Variety Assessment

in the Recommended Seed-Mixtures (RSM) of the research society Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V.

Grass Variety	Amenity Lawn	Sports-ground Lawn	Ornamental Lawn	Amenity Lawn	Tolerance, Close Mowing	Landscape Lawn
Supina Blue Grass						
SUPRANOVA	8	9				
SUPREME	9	9				
Smooth Stalked Meadow Grass						
STOLA	7	5			4	
Brown Top Bent						
ABERROYAL *						

* variety is registered; official tests are not yet finished

9 = very good suitable; 4 = suitable



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Forage Grasses



Perennial Ryegrass

(Lolium perenne)

ARABELLA

This intermediate to late variety produces high yields over many different regions. It has good winter hardiness and rust resistance, a dense sward with good early spring growth which make Arabella an invaluable addition to conservation and grazing mixtures.

AROLUS ^{NEW}

A very early variety with high first cut yields and outstanding sward density and rust resistance. It has proven its winter hardiness across marginal perennial ryegrass regions.

ARTESIA ^{NEW}

Artesia is the earliest and most persistent tetraploid variety on the perennial ryegrass list. Good rust and snow mould resistance enable it to grow in unfavourable areas. Good early spring growth and high yields ensure Artesia a place in any forage mixture.

IVANA

A very early variety that combines excellent early spring growth and sward density. Extremely good winter hardiness has been proven over 6 years in trials at high altitude. Ivana can be used in grazing and conservation mixtures in regions where other varieties would fail.

WEIGRA

This early-intermediate type was especially selected for severe winters in cold regions of the Alpine foothills and Bavarian forest. It has gained a reputation for use in regions where perennial ryegrasses would not normally thrive.

ABERAVON ^{NEW}



The first High-Sugar-Grass to be listed by the Bundessortenamt. High concentrations of water soluble carbohydrates produce increased milk yields and live weight gain through improved digestibility. Compared to other diploid varieties Aberavon produces an outstanding first cut yield and has a good rust resistance.



Variety Assessment

according to the descriptive variety list issued by the Bundessortenamt and other trials

Perennial Ryegrass	Ear Emergence	Tendency to Winterkill	Susceptibility to Rust	Persistence	Yield of Dry Matter		
					Total	1 st Cut	Further Cuts
ABERAVON * d	7	6	4	5	7	7	5
ARABELLA d	6	4	5	6	6	6	6
AROLUS d	1	4	4	6	5	4	6
ARTESIA t	1	4	3	7	5	4	7
IVANA d	1	3	6	6	5	3	6
WEIGRA d	5	4	5	6	6	6	6

*higher concentration of water soluble carbohydrates and digestibility than other comparable registered diploid varieties

9 = very strong, very high, very late; 1 = very low, very early; d = diploid; t = tetraploid



Forage Grasses



Italian Ryegrass

(Lolium multiflorum)

ALCES ^{NEW}

Alces is an intermediate variety with a high yield potential, superb regrowth and excellent crown rust resistance. Very good yields throughout the growing season and good disease resistance make this a profitable variety to grow.

Hybrid Ryegrass

(Lolium x boucheanum Kunth)

ABERANVIL ^{NEW}

Aberanvil has one of the highest first cut yield of any variety presently on the BSA list. Good quality high dry matter content produces excellent silage, combine with superb persistence and good rust resistance to make Aberanvil the ideal choice for 2 and 3 year cutting leys.

LEONIS ^{NEW}

Leonis has very high yields and outstanding disease resistance which help to enable it to persist for full two harvest years.

PIROL ^{NEW}

Pirol has the highest yields combined with the best persistence to secure its top position on the German list. Balanced growth throughout the season provides a continuous supply of forage.

MUSTELA ^{NEW}

This is the earliest Italian ryegrass variety registered in Germany at the moment. The early growth and ear emergence make it an invaluable tool in spreading the timing of the silage harvest. Good quality growth throughout the summer and autumn combined with excellent rust resistance ensure Mustela a place in every forage management regime.



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Variety Assessment

according to the descriptive variety list issued by the Bundessortenamt and other trials

Italian Ryegrass		Ear Emergence	Susceptibility to Rust	Susceptibility to Bacterial Wilt	Yield of Dry Matter		
					Total	1 st Cut	Further Cuts
ALCES	t	5	3	3	5	3	7
MUSTELA	d	3	4	3	5	4	6

Hybrid Ryegrass		Ear Emergence	Susceptibility to Rust	Persistence	Yield of Dry Matter		
					Total	1 st Cut	Further Cuts
ABERANVIL	t	2	5	7	6	7	5
LEONIS	t	2	4	7	6	7	6
PIROL	d	3	5	7	6	5	6

9 = very strong, very high, very late; 1 = very low, very early; d = diploid; t = tetraploid

Forage Grasses



Westerwolds Ryegrass

(Lolium multifl. var. westerwoldicum)

BORMITRA ^{NEW}

This tetraploid variety is suitable for catch-cropping after maize as well as annual forage production and inclusion with Italian ryegrass mixtures. Bormitra is also suitable as an energy provider for biogas plants.

GONZALES ^{NEW}

Good rust resistance ensures good quality forage in areas where there is high rust pressure. Gonzales can be used for grazing or cutting after 6 - 8 weeks. The vigorous root growth also improves soil fertility.

HANNAH ^{NEW}

Hannah has a very high growth rate and development, combined with high dry matter yield and lodging resistance. It is an ideal component in longer term leys as a nurse crop due to its upright habit.



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Variety Assessment

according to the descriptive variety list issued by the Bundessortenamt and other trials

Westerwolds Ryegrass

		Ear Emergence	Susceptibility to Rust	D.M.-Yield 1 st Cut
BORMITRA	t	5	5	5
GONZALES	t	5	3	6
HANNAH	d	2	5	7

9 = very strong, very high, very late; 1 = very low, very early; d = diploid; t = tetraploid

Forage Grasses



Meadow Fescue

(Festuca pratensis)

COSMOLIT

This is an improvement on Cosmos 11 with respect to dry matter yield and winter hardiness. Selected specifically for low seed shatter it produces higher more reliable yields of seed with reduced drying costs. It is a marked improvement on previous meadow fescue varieties and has a promising future.

COSMONAUT ^{NEW}

Cosmonaut is an improvement on Cosmolit for dry matter yield and therefore forage production. Seed growers like it because of the good rust resistance and its low tendency for seed shattering.

Strong Creeping Red Fescue

(Festuca rubra rubra)

CONDOR

Condor produces high yields in many different situations, from the favourable conditions in the lowlands to the harsher conditions of the highlands. It is recommended for both intensively and extensively managed pasture.

ROLAND 21

This has been the standard forage red fescue for many years. It maintains a dense base to the sward against treading from livestock, stabilises soil on steep slopes and provides good sward density due to the deep root system and stolon production. It produces high stable yields of seed.



Variety Assessment

according to the descriptive variety list issued by the Bundessortenamt and other trials

Meadow Fescue	Panicle Emergence	Tendency to Winterkill	Susceptibility to Rust	Persistence	Yield of Dry Matter		
					Total	1 st Cut	Further Cuts
COSMOLIT *	4	5	4	6	6	5	
COSMONAUT	4	4	3	6	5	6	

Strong Creeping Red Fescue	Panicle Emergence	Tendency to Winterkill	Susceptibility to Rust	Persistence	Total	1 st Cut	Further Cuts
ROLAND 21	6	4	5	6	6	7	5

* lower affinity to grain drop out and bacterial wilt in comparison to other varieties

9 = very strong, very high, very late; 1 = very low, very early



Forage Grasses



Cocksfoot

(*Dactylis glomerata*)

HORIZONT

A late variety that produces a well proportioned yield throughout the growing season. Good rust resistance and a fine leaf structure provide good quality characters. It is particularly recommended for grazing mixtures. The short stems reduce lodging and ensure a stable seed yield.

HUSAR

A late variety that has the highest first cut yields available on the BSA list and produces high yields in all subsequent cuts. Husar has good rust resistance and is suitable for inclusion in both cutting and grazing mixtures.

Smooth Stalked Meadow Grass

(*Poa pratensis*)

LATO

The highest yielding variety currently available on the Smooth Stalked Meadow Grass list, combined with good persistence ensure it is indispensable component within any cutting or grazing mixtures.

NIXE ^{NEW}

High first cut yield, good rust resistance and winter hardiness with excellent persistence demand your consideration. It has also produced high yields in trials throughout Germany and Switzerland at high altitudes.



Variety Assessment

according to the descriptive variety list issued by the Bundessortenamt and other trials

				Yield of Dry Matter			
				Total	1 st Cut	Further Cuts	
Cocksfoot							
	Panicle Emergence	Tendency to Winterkill	Susceptibility to Rust				
HORIZONT	5	4	4	6	6	6	
HUSAR	6	4	4	6	7	6	
Smooth Stalked Meadow Grass							
	Panicle Emergence	Tendency to Winterkill	Susceptibility to Rust	Persistence	Total	1 st Cut	Further Cuts
LATO	7	5	3	6	7	7	6
NIXE	5	4	2	7	5	7	4

9 = very strong, very high, very late; 1 = very low, very early

Forage Grasses



Golden Oat Grass

(Trisetum flavescens)

TRISETT 51

Triset 51 has been the standard variety used in grazing and cutting mixtures throughout highland and alpine regions for decades. The renowned winter hardiness and drought resistance with a fine leaf and vigour have ensured its continued success.

Tall Oat Grass

(Arrhenatherum elatius)

ARONE

Arone is a new variety which is highly resistant to bacterial wilt and suitable for both cutting and grazing. This is the first variety to have no awns and therefore producing high yields of seed that is easy to harvest.

Meadow Foxtail

(Alopecurus pratensis)

ALPHA ^{NEW}

Alpha has excellent resistance to rust and net blotch. It has been especially selected to have high first cut yields which improve its total conservation yields. High and stable seed yields are achieved by an even ear emergency and improved resistance to seed shatter.

TRISTAN

This new variety was selected for its high first cut yields and so it is particularly suited to conservation mixtures. The high proportion of stems and low caliginogenous substances content ensure good forage quality. The aftermath forage yields are less than Triset 51 but are of better quality for subsequent grazing. Good stable seed yields are obtained by a more even panicle emergence.



Variety Assessment

according to the descriptive variety list issued by the Bundessortenamt and other trials

	Panicle Emergence	Tendency to Winterkill	Susceptibility to Rust	Yield of Dry Matter		
				Total	1 st Cut	Further Cuts
Golden Oat Grass						
TRISETT 51	3	5	5	5	5	5
TRISTAN	3	5	-	5	6	4
Tall Oat Grass						
ARONE *	4	5	4	5	6	4
Meadow Foxtail						
ALPHA	4	5		5	5	5

* seed have no awns

9 = very strong, very high, very late; 1 = very low, very early; - = does not apply



Small Grain Legumes

Red Clover

(Trifolium pratense)

LUCRUM

Excellent winter hardiness and resistance to sclerotinia are outstanding characters of this variety. It can be used in both one and two year leys.

NEMARO

Nemaro produces a high, even yield throughout the growing season and has good stem nematode resistance. It is particularly suited to organic farming systems.

TAIFUN^{NEW}

Taifun sets new standards for winter hardiness and dry matter yields for red clover varieties. It is ideal for conservation and combined management systems and produces stable high yields in the second year as well. Seed yields are also very high.

TITUS

Very high forage yields are obtained due to the good persistence and resistance to stem nematodes and clover rot. Seed yields are exceptionally high.



Variety Assessment

according to the specifying sort list issued by the Bundessortenamt and other trials

Red Clover		Beginning of Blooming	Tendency to Winterkill	Persistence	Yield of Dry Matter			
					Total	1 st Cut	Further Cuts	Total D.M.-Yield 2 nd Year
LUCRUM	d	7	5	6	4	4	3	4
NEMARO *	d	4	5	6	5	6	4	5
TAIFUN	t	4	3	7	7	8	6	8
TITUS	t	4	4	6	7	7	6	7

* under controlled conditions lower affection with stem nematodes (Ditylenchus dipsaci) than other comparable registered varieties

9 = very strong, very high, very late; 1 = very low, very early; d = diploid; t = tetraploid



Large Grain Legumes

Narrow Leaved Sweet Lupin

(Lupinus angustifolius)

BORA

Bora is a medium-early variety that has the highest grain seed yields available. The low thousand seed weight mean less seed is required for sowing, therefore saving money. It has good resistance to mycosis and viral diseases and can be grown on light to medium soils.

BOREGINE

Boregine has one of the best grain and protein yields available. It grows on light to medium soils with the best results achieved on the light soils.

BORLU

Borlu produces very high grain yields with high protein content, especially on light land. It has a low proportion of hulls and extremely low residual alkaloid content. Borlu is predominantly used in industrial processing of protein isolates and lupin whole-meal, grit and bran.

BORUTA

This is our first determinate variety which offers the advantages of being taller which reduces losses before and during harvest. The low alkaloid content and light grains are also worth highlighting.

Yellow Sweet Lupin

(Lupinus luteus)

BORNAL

In favourable conditions this variety will produce very high grain and raw protein yields. Resistance to Fusarium oxysporum ensures a economical growth on susceptible land.



HAAGS BLAUE ^{NEW}

A healthy stress resistant variety, with resistance to secondary shoot formation, which enables early and even ripening on fertile soils. It is mainly suited to maritime climates or higher rainfall areas.

PROBOR

Probor has the highest raw protein yields on the list combined with medium to high grain yields and good lodging resistance.

SANABOR ^{NEW}

Sanabor has good overall disease resistances with even ripening and resistance to secondary shoot formation.

VITABOR

Vitabor has one of the lowest alkaloid contents available on the BSA list. It is grown for the human consumption market and therefore suitable for contract growing.



Variety Assessment

according to the specifying sort list issued by the Bundessortenamt and other trials

Narrow Leaved Sweet Lupin

		Beginning of Blooming	Maturity	Thousand Kernel Weight	Seed Yield	Crude Protein Yield
BORA	b	3	5	3	7	6
BOREGINE	b	3	5	6	8	7
BORLU	b	3	5	5	7	8
BORUTA	d	4	4	4	6	5
HAAGS BLAUE	d	3	3	4	5	4
PROBOR	b	3	5	3	7	8
SANABOR	b	4	5	5	7	6
VITABOR *	b	4	5	4	4	4

Yellow Sweet Lupin

		Beginning of Blooming	Maturity	Thousand Kernel Weight	Seed Yield	Crude Protein Yield
BORNAL	b	6	6	2	6	6

* variety has a lower alkaloid content than other comparable registered varieties

9 = very strong, very high, very late; 1 = very low, very early; d = determined shoot; b = branched shoot

Catch Crops



White Mustard

(*Sinapis alba*)

SIGNAL

A conventional variety that is widely popular because of its growth rate and high yields. Good root formation produces an open soil structure and holds onto nutrients which make it invaluable as a green manure crop.

SINUS

It is a nematode resistant variety with good bolting resistance and high growth rate during early development. The fast ground cover protects against wind and water erosion and winter kill ensures no later problems with volunteers.

Phacelia

(*Phacelia tanacetifolia*)

BORATUS

A quick growing variety that can be sown late, is neutral to turnip nematodes is therefore an invaluable catch crop in brassica rich sugar beet crop rotations. Quick early development and good soil shading make it an ideal green manure crop as well as for mulch sowing in the spring. Reliable winter kill ensures no problems with volunteers.

Serradella

(*Ornithopus sativus*)

MECKLENBURGER

A valuable leguminous summer catch crop for sandy soils in temperate or semi dry locations. Provides forage in periods of fodder shortage while also improving the soil fertility. This is the only variety available in Germany and has been selected for disease resistance.



Variety Assessment

according to the specifying sort list issued by the Bundessortenamt and other trials

White Mustard		Tendency of Blooming	Tendency to Lodging	First Mass Growth	D.M.-Yield
SIGNAL		7	4	7	6
SINUS		6	3	7	6
Phacelia		Tendency of Blooming	Tendency to Lodging	First Mass Growth	D.M.-Yield
BORATUS		5	5	5	5

9 = very strong, very high, very late; 1 = very low, very early

Cereals

Winter Rye

(Secale cereale)

BORESTO

The best variety for light soils and extensive cultivation. This conventional variety is of medium height and produces high yields especially on dry sites. Good resistance to mildew, brown rust, eye-spot and lodging ensure an economic crop. The grain also provides good bread making qualities.

Winter Fodder Rye

(Secale cereale)

BORFURO

A very productive and adaptable fodder rye which has been bred over many years under dry conditions and severe cercospora infection on dry sandy soils. The high quality fodder with good energy and protein levels is suitable for the period between winter feeding and spring forage production. It has also been shown to produce good quality silage.

Wild Rye

(Secale multicaule)

BORWALDO

Secale multicaule is generally used in land reclamation and game cover mixtures. Borwaldo is an excellent choice for these situations due to its low vigour, winter hardiness and perennial nature.



Variety Assessment

according to the specifying sort list issued by the Bundessortenamt and other trials

Winter Rye		Maturity	Tendency to Lodging	Susceptibility to Brown Rust	Susceptibility to Mildew	Thousand Kernel Weight	Seed Yield
BORESTO	p	5	5	4	3	6	4
Winter Fodder Rye		First Mass Growth	Tendency to Lodging	D.M.-Yield	Crude Protein Yield		
BORFURO	p	4	4	6	5		

9 = very strong, very high, very late; 1 = very low, very early; p = Population Variety





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