

AUTUMN
CATALOGUE



Our company

Apsov is longstanding established Italian company which constantly endeavours to enhance the field of agriculture.

Our commitment is to create new opportunities for ourselves and our customers. We constantly strive to strengthen and enhance the brand, by launching new varieties and offering excellent services.

We are genetic providers and are at the forefront in terms of innovation; we believe in a flexible and efficient organization, market oriented and strongly focused on a technical approach.

Our ambition is to be a leading company, with the best human and material resources.

The values which drive us and we seek to uphold are customer focus, passion for work, dynamism, fairness, cooperation, positivity.



 came into being a

Cooperative -APSOV Soc. Coop- in **1967**, when it was set up by a group of young farmers. The favourable climatic conditions of the territory, coupled with the founders' agricultural expertise have been and remain the basis for high quality seed production.

Today APSOV is still 100% owned by farmers and it is the leader of a group of companies: APSOVSEMENTI SPA (1995), Sementi Maremma (2002), GMAX seeds (2017).

Apsov is the leading Italian company in terms of production and marketing of cereals, pulses and oil crops seeds; it runs a multiplication area constantly exceeding 7.000 ha, with a seed production of about 25,000 tons / year; it generates a turnover of 22 mm, steadily increasing, which is the exclusive result of seed activity; it carries out breeding programs for bread and durum wheat, barley, triticale, employing 10 people on a full-time basis.



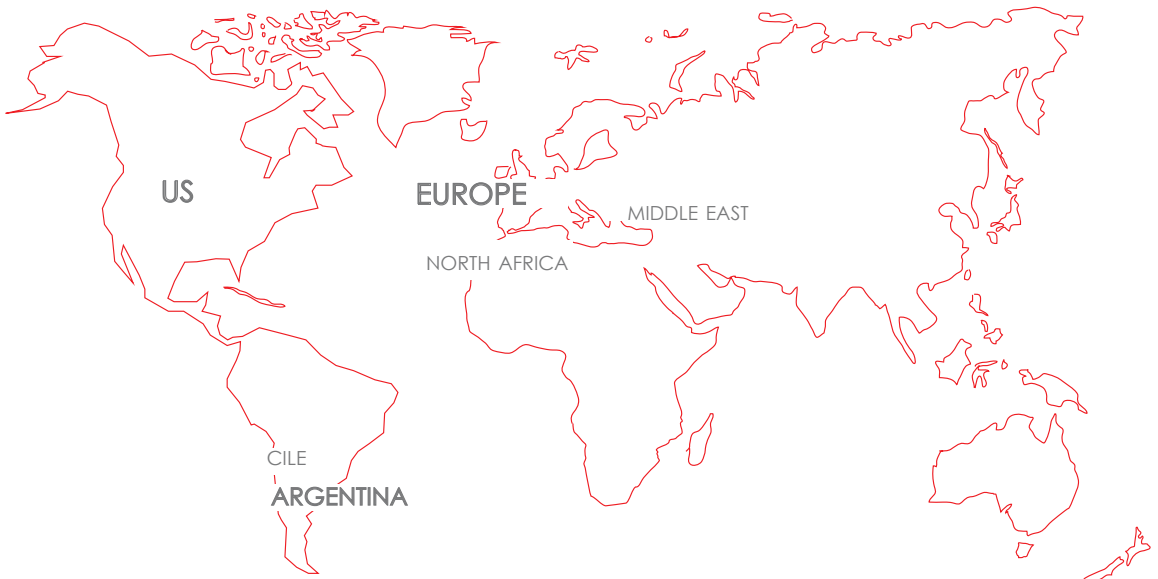
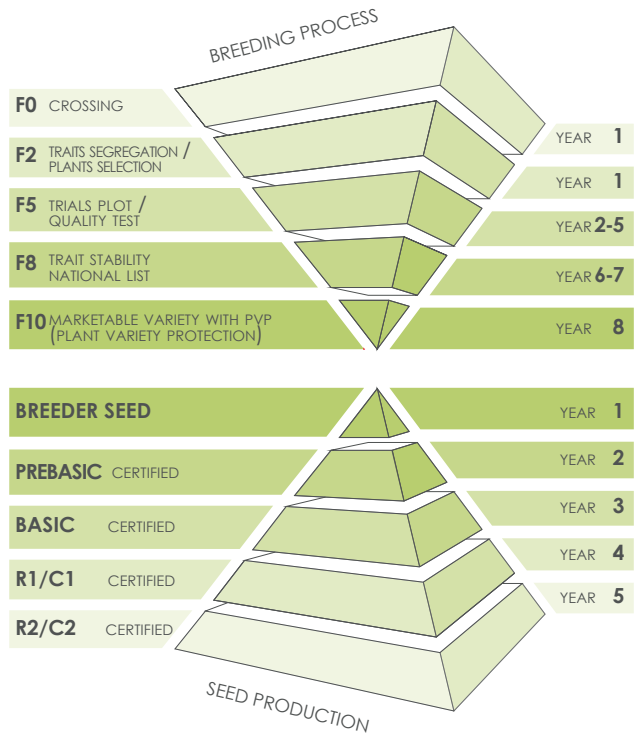
Breeding

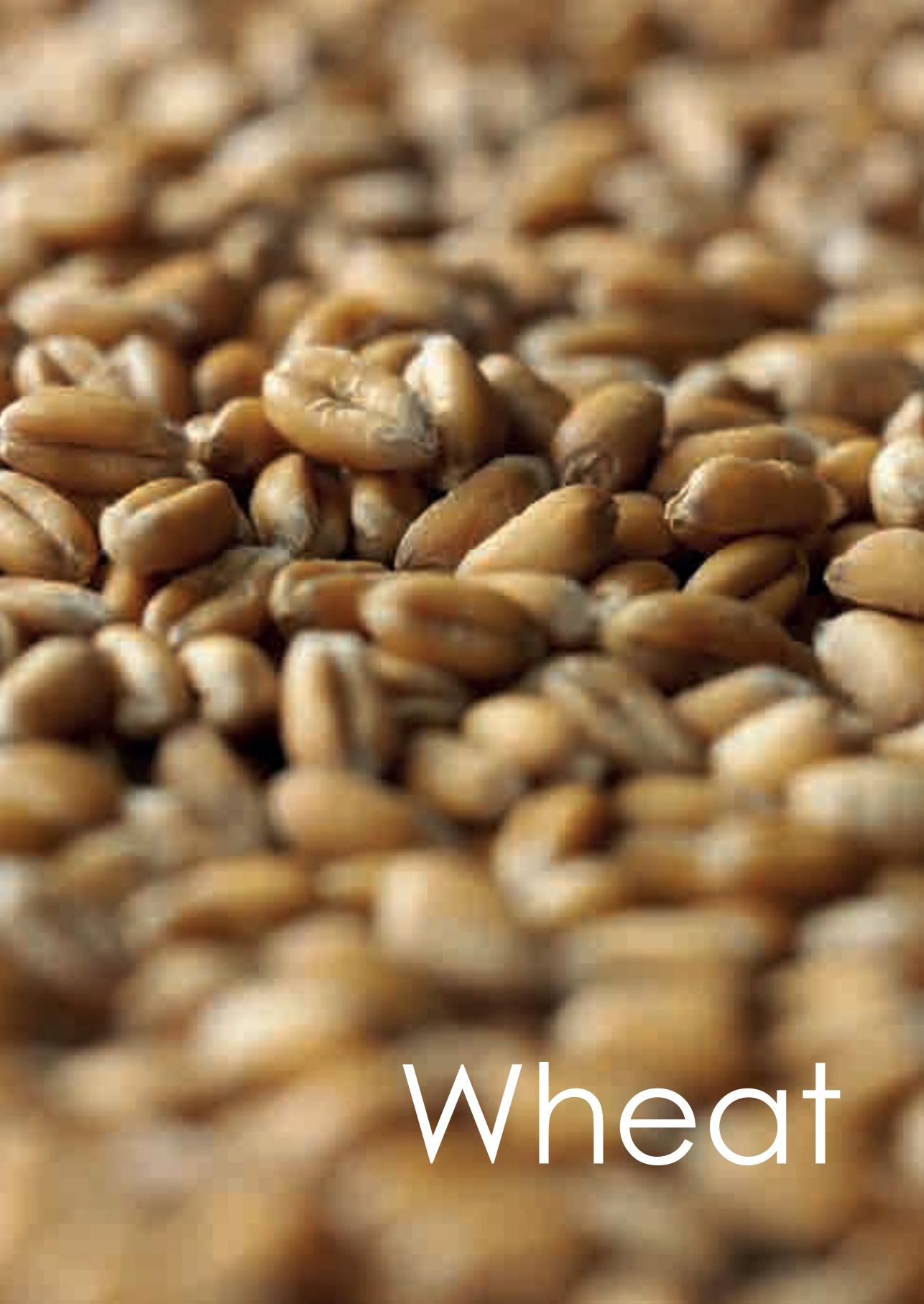
Innovation has always been **apso**'s strength, thanks to constant investments in research and development, acquired skills and international collaborations.

Creating new varieties with high and consistent yield, suitable to match the needs of farmers, industry, and consumers is the target of our Breeding Programs.

To achieve these goals, germplasm is imported from all over the world it is subsequently assessed and used to create segregating populations among which to select the best genotypes, through the combination of different techniques: winter nursery, single seed descent (SSD), shuttle breeding, double haploids and molecular markers.

The large trials network and the cooperation with several partners support the breeding activity and enable a timely assessment of the agronomic and quality value of the products.





Wheat

Growth habitus and planting time

GROWTH HABITUS

WINTER			MID-WINTER			SPRING		
ANTILLE				ALTEZZA			ADELAIDE	
AREZZO	PROVIDENCE			ARTICO				
ETHIC			ALGERI		ARABELLA			ARABIA
NEMO			ANVERSA	ALEPPO			BISANZIO	
REBELDE	AXUM	METROPOLIS						
EARLY			MEDIUM			LATE		

PLANTING TIME

Quality and hardness

TOP QUALITY BREAD WHEAT				REBELDE METROPOLIS AXUM ALEPPO* BISANZIO
HIGH QUALITY BREAD WHEAT				ALGERI ADELAIDE
BREAD WHEAT			ARABIA* ALTEZZA	NEMO PROVIDENCE ANTILLE AREZZO ANVERSA
BISCUITS WHEAT	ARTICO ETHIC			
	SOFT	MEDIUM	HARD	

* white kernel

Axum

Bokaro x Bologna - [2019]

Top quality bread wheat



FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	dark red
GROWTH HABITUS	winter
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	medium 37-40 g
ALVEOGRAPH	W:300-360 - P/L:0.5-0.6
HARDNESS	hard
PROTEIN CONTENT	good

RESISTANCES

LODGING		MS		
COLD				R
MILDEW				R
LEAF RUST			MR	
YELLOW RUST			MR	
SEPTORIA			MR	
FUSARIUM			MT	

ADVICES

Tolerant to Clortoluron

Rebelde

(Bologna x CH710) x Bologna- [2012]

Top quality bread wheat



FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	dark red
GROWTH HABITUS	winter
TILLERING	medium

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	low 34-36 g
ALVEOGRAPH	W:360-460 - P/L:0.6-0.9
HARDNESS	hard
PROTEIN CONTENT	very high

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST		MS		
YELLOW RUST				R
SEPTORIA				R
FUSARIUM				T

ADVICES

Tolerant to Clortoluron

Organic seed available

Metropolis

(Aquilante x Bologna) x Bologna - [2016]



Top quality bread wheat

FEATURES

HEIGHT	medium-tall
EAR	awned
GRAIN COLOUR	dark red
GROWTH HABITUS	winter
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	medium 37-40 g
ALVEOGRAPH	W:320-440 - P/L:0,4-0,6
HARDNESS	hard
PROTEIN CONTENT	high

RESISTANCES

LODGING		MS	
COLD			R
MILDEW			R
LEAF RUST		MR	
YELLOW RUST			R
SEPTORIA			R
FUSARIUM		MT	

ADVICES

Tolerant to Clortoluron



Bisanzio

Monblanc x Palladio - [2014]



Top quality bread wheat

FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	amber
GROWTH HABITUS	spring
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	high 43-45 g
ALVEOGRAPH	W:340-440 - P/L:0,7-1,0
HARDNESS	hard
PROTEIN CONTENT	high

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST		MS		
YELLOW RUST			MR	
SEPTORIA			MR	
FUSARIUM				T

ADVICES

Tolerant to Clortoluron



Algeri

Adelante x Bramante - [2020]

High quality bread wheat



FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	mid-winter
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	good 40-42 g
ALVEOGRAPH	W:280-340 - P/L:0.5-0.7
HARDNESS	mid-hard
PROTEIN CONTENT	good

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST			MR	
SEPTORIA				R
FUSARIUM				T+

ADVICES

Tolerant to Clortoluron

Adelaide

Tremie x Taylor - [2007]

High quality bread wheat



FEATURES

HEIGHT	medium-tall
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	spring
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	high 43-45 g
ALVEOGRAPH	W:200-280 - P/L:0.6-0.8
HARDNESS	hard
PROTEIN CONTENT	good

RESISTANCES

LODGING		MS		
COLD				MR
MILDEW				MR
LEAF RUST				MR
YELLOW RUST				MR
SEPTORIA				R
FUSARIUM				MT

ADVICES

Tolerant to Clortoluron

Arabia

Guadalupe x Tibet - [2009]

Bread wheat



FEATURES

HEIGHT	medium-tall
EAR	awned
GRAIN COLOUR	white
GROWTH HABITUS	spring
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	good 40-42 g
ALVEOGRAPH	W:150-205 - P/L:0,3-0,5
HARDNESS	medium
PROTEIN CONTENT	good

RESISTANCES

LODGING				MR
COLD				R
MILDEW				MR
LEAF RUST			MS	
YELLOW RUST			MS	
SEPTORIA				MR
FUSARIUM				MT

ADVICES

Sensitive to Clortoluron



Aleppo

Bologna x ((Blasco x Zena) x Enesco) - [2016]

Top quality bread wheat

FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	white
GROWTH HABITUS	mid-winter
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 81-83 kg/hl
TKW	low 34-36 g
ALVEOGRAPH	W:280-340 - P/L:0,4-0,6
HARDNESS	hard
PROTEIN CONTENT	high

RESISTANCES

LODGING				MR
COLD				R
MILDEW				MR
LEAF RUST				MR
YELLOW RUST				R
SEPTORIA				MR
FUSARIUM				T

ADVICES

Tolerant to Clortoluron





Anversa

(Sirtaki x PR22R58) x W2 - [2020]

Bread wheat



FEATURES

HEIGHT	medium
EAR	awnless
GRAIN COLOUR	red
GROWTH HABITUS	mid-winter
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	medium 37-39 g
ALVEOGRAPH	W:160-200 - P/L:0,5-0,7
HARDNESS	hard
PROTEIN CONTENT	medium

RESISTANCES

LODGING			MR
COLD			R
MILDEW			R
LEAF RUST			MR
YELLOW RUST			R
SEPTORIA			MR
FUSARIUM			MT

ADVICES

Tolerant to Clortoluron



Nemo

Pedigree unavailable - [2015]

Bread wheat

FEATURES

HEIGHT	medium-short
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	winter
TILLERING	high

QUALITIES

SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	good 40-42 g
ALVEOGRAPH	W:150-200 - P/L:0,6-0,8
HARDNESS	mid-hard
PROTEIN CONTENT	medium

RESISTANCES

LODGING				R
COLD				R
MILDEW			MR	
LEAF RUST				R
YELLOW RUST			MR	
SEPTORIA				R
FUSARIUM			MT	

ADVICES

Tolerant to Clortoluron

Antille

Pedigree Multiple Crosses [2006]

Bread wheat

FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	amber
GROWTH HABITUS	winter
TILLERING	high

QUALITIES

SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	good 40-42 g
ALVEOGRAPH	W:160-220 - P/L:0,5-0,7
HARDNESS	mid-hard
PROTEIN CONTENT	medium

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST			MR	
SEPTORIA				R
FUSARIUMI			MT	

ADVICES

Tolerant to Clortoluron



Providence

Pedigree unavailable - [2019]

Bread wheat



FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	mid-winter
TILLERING	good

QUALITIES

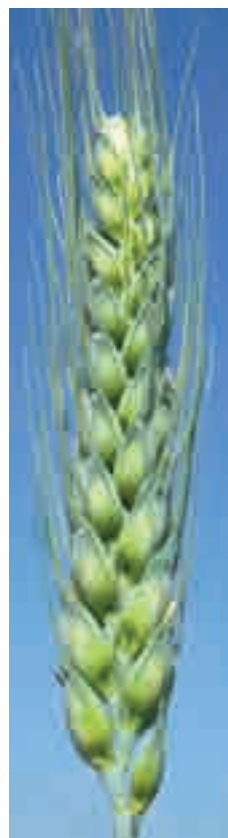
SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	high 43-45 g
ALVEOGRAPH	W:150-200 - P/L:0,6-0,8
HARDNESS	mid-hard
PROTEIN CONTENT	medium

RESISTANCES

LODGING			MR	
COLD				R
MILDEW				R
LEAF RUST			MR	
YELLOW RUST			MR	
SEPTORIA				R
FUSARIUM			MT	

ADVICES

Tolerant to Clortoluron



QUALIDOSE®

QUALIDOSE is our own exclusive  patent, complete and effective.

The use of varieties suitable for an early sowing and low-density seeding rate, makes this solution very efficient also from the economic point of view, with costs comparable to the traditional sowing.

The fields results are impressive. An excellent combination among performing genetics, ideal seeding rate, healthy and protected plants, offers the chance to constantly maximize yields.



Why Choose ?

-  High yielding varieties
-  Safety in early sowing
-  Full comprehensive protection from fungi and insects
-  Efficiency of high value treatments
-  Perfect seeding ratio
-  Outstanding value for the money

	VARIETY	TYPE	PLANTING RATE semi/mq	BAGS/HA n°	SEEDS/BAG n°
Wheat	Arezzo	Bread wheat	300	4	750.000
Durum	Platone	High quality durum w.	285	5	570.000
	Etincel	Two rows feed barley	200	4	500.000
Barley	Fenice	Six rows feed barley	200	4	500.000
	Idra	Two rows feed barley	225	5	450.000

Arezzo

Pedigree unavailable - [2007]

Bread wheat



FEATURES

HEIGHT	medium-tall
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	winter
TILLERING	high

QUALITIES

SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	good 40-42 g
ALVEOGRAPH	W:160-220 - P/L:0,5-0,8
HARDNESS	hard
PROTEIN CONTENT	medium

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST			MR	
YELLOW RUST				R
SEPTORIA				R
FUSARIUM				T

ADVICES

Tolerant to Clortoluron





Artico

Pedigree Multiple Crosses- [2000]

Biscuits wheat



FEATURES	HEIGHT	medium
	EAR	awnless
	GRAIN COLOUR	red
	GROWTH HABITUS	mid-winter
	TILLERING	medium

QUALITIES	SPECIFIC WEIGHT	medium 77-79 kg/hl
	TKW	medium 37-39 g
	ALVEOGRAPH	W:80-120 - P/L:0,3-0,4
	HARDNESS	soft
	PROTEIN CONTENT	low

RESISTANCES	LODGING			MR
	COLD			R
	MILDEW			MR
	LEAF RUST			R
	YELLOW RUST			R
	SEPTORIA			MR
	FUSARIUM			MT

ADVICES Tolerant to Clortoluron



Ethic

Pedigree unavailable - [2012]

Biscuits wheat



FEATURES	HEIGHT	medium-tall
	EAR	awnless
	GRAIN COLOUR	red
	GROWTH HABITUS	winter
	TILLERING	high

QUALITIES	SPECIFIC WEIGHT	medium 77-79 kg/hl
	TKW	good 40-42 g
	ALVEOGRAPH	W:90-130 - P/L:0,3-0,5
	HARDNESS	soft
	PROTEIN CONTENT	low

RESISTANCES	LODGING				R
	COLD				R
	MILDEW			MR	
	LEAF RUST				R
	YELLOW RUST				R
	SEPTORIA				R
	FUSARIUM				MT

ADVICES Tolerant to Clortoluron

Altezza

Pedigree unavailable - [2012]

Bread wheat



FEATURES

HEIGHT	tall
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	mid-winter
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	high 43-45 g
ALVEOGRAPH	W:150-200 - P/L:0,6-0,8
HARDNESS	mid-hard
PROTEIN CONTENT	medium

RESISTANCES

LODGING				R
COLD				R
MILDEW			MR	
LEAF RUST				R
YELLOW RUST				R
SEPTORIA				R
FUSARIUM			MT	

ADVICES

Sensitive to Clortoluron



Arabella

Pedigree unavailable - [2012]

Bread wheat



FEATURES

HEIGHT	very tall
EAR	awnless
GRAIN COLOUR	red
GROWTH HABITUS	spring
TILLERING	good

QUALITIES

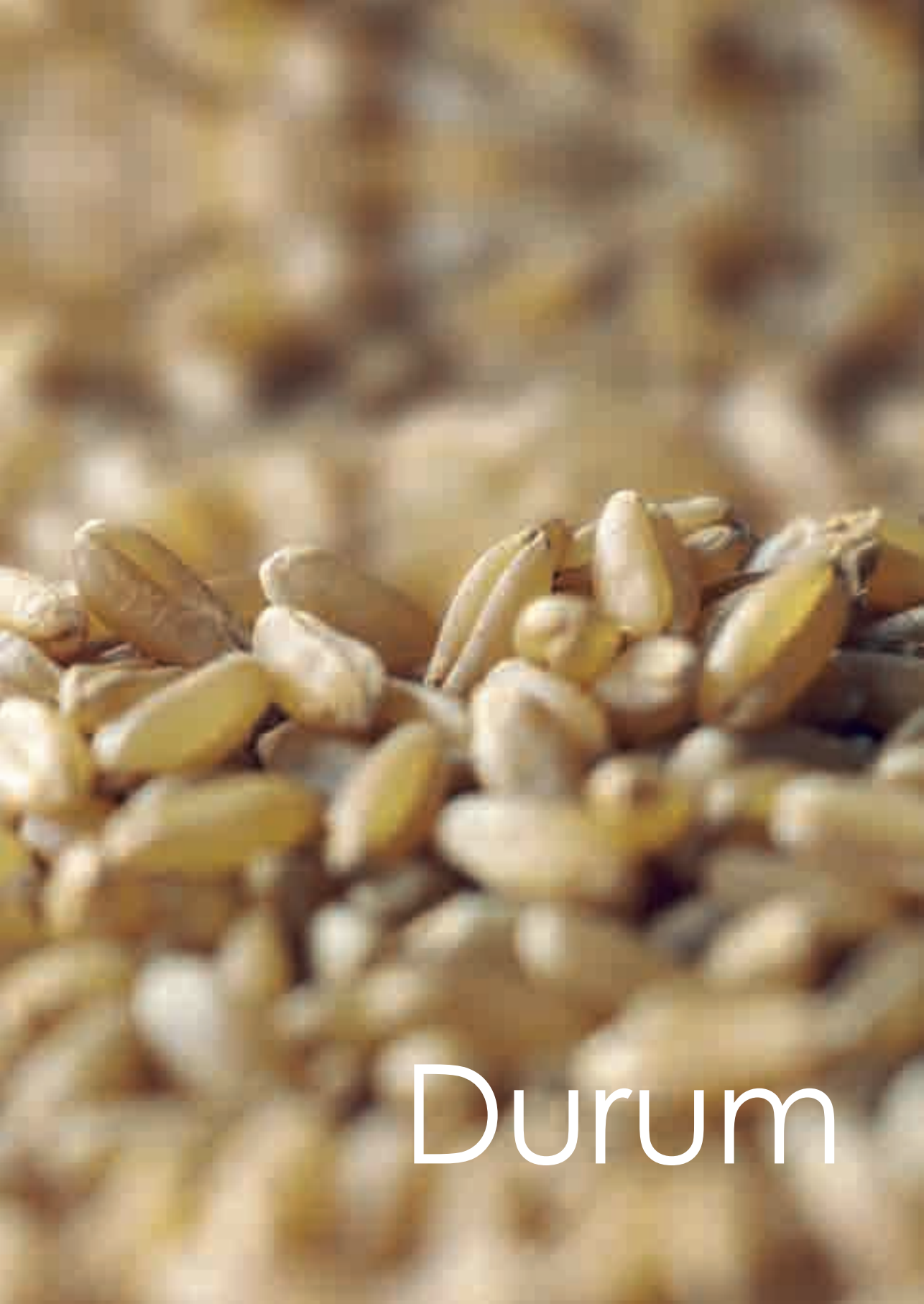
SPECIFIC WEIGHT	good 79-81 kg/hl
TKW	good 40-42 g
ALVEOGRAPH	W:180-240 - P/L:0,5-0,7
HARDNESS	medium
PROTEIN CONTENT	good

RESISTANCES

LODGING			MR	
COLD				R
MILDEW				R
LEAF RUST			MR	
YELLOW RUST			MR	
SEPTORIA				R
FUSARIUM				T

ADVICES



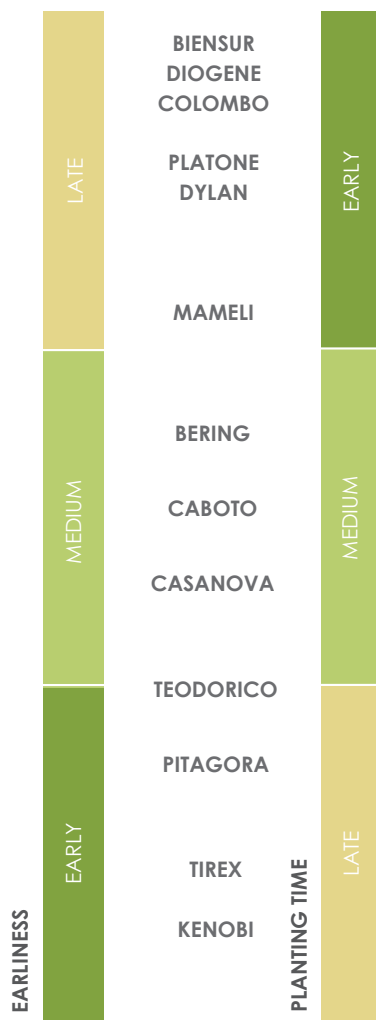


Durum

Quality classification of main durum wheat varieties

Earliness and planting time

VARIETY	POSITIVE	NEGATIVE
HIGH QUALITY (> 105)		
AUREO	protein	yield
BERING	yellow ind.+ gluten	
CABOTO		
COLOMBO	gluten	
LEVANTE	yellow ind.	protein
MAMELI	yellow ind.+ gluten	
PITAGORA	gluten	
PLATONE	yellow ind.+ gluten	
SARAGOLLA	gluten	protein
SVEVO	protein	yield
TEODORICO		
TIREX	protein	
GOOD QUALITY (105-100)		
BIENSUR	yellow ind.	
CASANOVA		
CLAUDIO		yellow ind.
DIOGENE		
DYLAN		
KENOBI		
OROBEL		low vitrosity
SIMETO (TEST)		
MEDIUM QUALITY (99-95)		
CRESO (TEST)		yellow ind.
DUILIO (TEST)		yellow ind.
LOW QUALITY (< 95)		
IRIDE		protein



Global quality index = protein (40%) + gluten index (30%) + yellow index (20%) + spec. weight (10%)

Main source: C.R.E.A. / data processing: Apsovementi



Biensur

Pedigree unavailable - [2000]

Good quality durum wheat



FEATURES

HEIGHT	medium-short
EAR	elongated
AWNS COLOUR	white
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	good 80-82 kg/hl
TKW	good 47-49 g
VITROSITY	good
PROTEIN CONTENT	good
GLUTEN INDEX	good 70-85
YELLOW INDEX	very high 26-28

RESISTANCES

LODGING					R
COLD					R
MILDEW					R
LEAF RUST				MR	
YELLOW RUST					R
SEPTORIA				MR	
FUSARIUM					T



Colombo

Biensur x Nefer - [2010]

High quality durum wheat



FEATURES

HEIGHT	medium
EAR	compact
AWNS COLOUR	white
TILLERING	high

QUALITIES

SPECIFIC WEIGHT	good 80-82 kg/hl
TKW	good 47-49 g
VITROSITY	good
PROTEIN CONTENT	good
GLUTEN INDEX	high 85-95
YELLOW INDEX	high 24-26

RESISTANCES

LODGING					R
COLD					R
MILDEW					R
LEAF RUST				MR	
YELLOW RUST					R
SEPTORIA				MR	
FUSARIUM					MT

Diogene

Anco Marzio x Colombo - [2017]

Good quality durum wheat



FEATURES

HEIGHT	medium
EAR	elongated
AWNS COLOUR	white
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	high 50-52 g
VITROSITY	high
PROTEIN CONTENT	good
GLUTEN INDEX	high 85-95
YELLOW INDEX	good 22-24

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST				R
SEPTORIA				R
FUSARIUM				T



Platone

Isildur x Tirez - [2016]

High quality durum wheat



FEATURES

HEIGHT	medium
EAR	hairy, elongated
AWNS COLOUR	black
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	high 50-52 g
VITROSITY	high
PROTEIN CONTENT	high
GLUTEN INDEX	high 85-95
YELLOW INDEX	high 24-26

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST			MR	
YELLOW RUST			MR	
SEPTORIA			MR	
FUSARIUM			MT	





Mameli

Tirex x Karur - [2018]

High quality durum wheat



FEATURES

HEIGHT	medium
EAR	compact, hairy
AWNS COLOUR	black
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	good 47-49 g
VITROSITY	high
PROTEIN CONTENT	high
GLUTEN INDEX	high 85-95
YELLOW INDEX	very high 26-28

RESISTANCES

LODGING			MR
COLD			R
MILDEW			R
LEAF RUST			MR
YELLOW RUST			MR
SEPTORIA			MR
FUSARIUM			MT



Bering

Casanova x Colombo - [2018]

High quality durum wheat



FEATURES

HEIGHT	medium-tall
EAR	big, elongated
AWNS COLOUR	white
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	high 50-52
VITROSITY	high
PROTEIN CONTENT	high
GLUTEN INDEX	high 85-95
YELLOW INDEX	high 24-26

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				MR
YELLOW RUST				MR
SEPTORIA			MS	
FUSARIUM				MT

Caboto

Saragolla x D97.15 - [2016]

High quality durum wheat



FEATURES

HEIGHT	medium
EAR	elongated
AWNS COLOUR	white
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	high 50-52 g
VITROSITY	high
PROTEIN CONTENT	high
GLUTEN INDEX	high 85-95
YELLOW INDEX	good 22-24

RESISTANCES

LODGING				R
FREDDO				R
MILDEW				R
LEAF RUST				R
YELLOW RUST		MS		
SEPTORIA				MR
FUSARIUM				MT





Casanova

(Flavio x Siene) x Duilio - [2003]

Good quality durum wheat

FEATURES

HEIGHT	medium-tall
EAR	big, elongated
AWNS COLOUR	white
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	high 50-52 g
VITROSITY	good
PROTEIN CONTENT	good
GLUTEN INDEX	good 70-85
YELLOW INDEX	good 22-24

RESISTANCES

LODGING				MR
COLD				R
MILDEW				MR
LEAF RUST				MR
YELLOW RUST				R
SEPTORIA			MS	
FUSARIUM				MT



Teodorico

Claudio x Saragolla - [2014]

High quality durum wheat



FEATURES

HEIGHT	medium-short
EAR	elongated
AWNS COLOUR	white
TILLERING	high

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	good 47-49 g
VITROSITY	high
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GLUTEN INDEX	high 85-95
YELLOW INDEX	good 22-24

RESISTANCES

LODGING				R
COLD				MR
MILDEW				R
LEAF RUST				R
YELLOW RUST				MR
SEPTORIA			MS	
FUSARIUM				MT

Tirex

Svevo x Nefer - [2007]

High quality durum wheat



FEATURES

HEIGHT	medium-tall
EAR	medium, hairy
AWNS COLOUR	black
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	good 80-82 kg/hl
TKW	high 50-52 g
VITROSITY	high
PROTEIN CONTENT	high
GLUTEN INDEX	high 85-95
YELLOW INDEX	high 24-26

RESISTANCES

LODGING				MR
COLD				MR
MILDEW				R
LEAF RUST			MS	
YELLOW RUST			MS	
SEPTORIA				R
FUSARIUM				T



Kenobi

Ariosto x Torrebianca - [2012]

Good quality durum wheat

FEATURES

HEIGHT	medium-tall
EAR	big, elongated
AWNS COLOUR	white
TILLERING	good

QUALITIES

SPECIFIC WEIGHT	high 82-84 kg/hl
TKW	high 50-52 g
VITROSITY	good
PROTEIN CONTENT	good
GLUTEN INDEX	good 70-85
YELLOW INDEX	good 22-24

RESISTANCES

LODGING				R
COLD				MR
MILDEW				R
LEAF RUST			MS	
YELLOW RUST				MR
SEPTORIA				MR
FUSARIUM				MT





Other
cereals

Alastro

Diadem x Linea Fior - [2016]

Two rows feed barley

FEATURES	HEIGHT	medium
	EAR	two rows
	GROWTH HABITUS	spring

QUALITIES	SPECIFIC WEIGHT	high 68-72 kg/hl
	TKW	high 48-54 g
	PROTEIN CONTENT	good

RESISTANCES	LODGING				MR
	COLD				MR
	MILDEW				R
	NET BLOTCH				MR
	RHYNCHOSPORIUM				MR
	BYMV				R
	BYDV		S		



Aldebaran

Rebelle x Jadoir - [2003]

Six rows feed barley



FEATURES	HEIGHT	medium-tall
	EAR	six rows
	GROWTH HABITUS	spring

QUALITIES	SPECIFIC WEIGHT	medium 59-63 kg/hl
	TKW	medium 39-43 g
	PROTEIN CONTENT	good

RESISTANCES	LODGING				MR
	COLD				R
	MILDEW				MR
	NET BLOTCH				MR
	RHYNCHOSPORIUM				MR
	BYMV				R
	BYDV		S		





Orione

Boreale x Cometa - [2017]

Two rows feed barley



FEATURES

HEIGHT	medium-short
EAR	two rows
GROWTH HABITUS	winter

QUALITIES

SPECIFIC WEIGHT	high 68-72 kg/hl
TKW	high 48-54 g
PROTEIN CONTENT	good

RESISTANCES

LODGING				R
COLD			MR	
MILDEW				R
NET BLOTCH				R
RHYNCHOSPORIUM	MS			
BYMV				R
BYDV				R



Spazio

Boreale x Fior 9433 - [2017]

Two rows feed barley



FEATURES

HEIGHT	medium
EAR	two rows
GROWTH HABITUS	winter

QUALITIES

SPECIFIC WEIGHT	high 68-72 kg/hl
TKW	high 48-54 g
PROTEIN CONTENT	good

RESISTANCES

LODGING			MR	
COLD				R
MILDEW				R
NET BLOTCH				R
RHYNCHOSPORIUM			MR	
BYMV				R
BYDV				R

Cometa

(Amillis x Fior 2377) x PO202.169 - [2006]



Two rows feed barley

FEATURES

HEIGHT	short
EAR	two rows
GROWTH HABITUS	mid-spring

QUALITIES

SPECIFIC WEIGHT	high 68-72 kg/hl
TKW	high 48-54 g
PROTEIN CONTENT	good



RESISTANCES

LODGING				R
COLD			MR	
MILDEW				R
NET BLOTCH				R
RHYNCHOSPORIUM			MR	
BYMV				R
BYDV				R

Idra

Cometa x Fior 5285 - [2012]



Two rows feed barley

FEATURES

HEIGHT	short
EAR	two rows
GROWTH HABITUS	mid-spring

QUALITIES

SPECIFIC WEIGHT	high 68-72 kg/hl
TKW	high 48-54 g
PROTEIN CONTENT	good



RESISTANCES

LODGING				R
COLD				R
MILDEW				R
NET BLOTCH				R
RHYNCHOSPORIUM			MR	
BYMV				R
BYDV				R



Bilancia

Laverda x Shangrila – [2020]

Six rows feed barley



FEATURES

HEIGHT	medium-tall
EAR	six rows
GROWTH HABITUS	mid-winter

QUALITIES

SPECIFIC WEIGHT	medium 59-63 kg/hl
TKW	medium 39-43 g
PROTEIN CONTENT	good

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
NET BLOTCH				R
RHYNCHOSPORIUM				R
BYMV				R
BYDV				S



Etincel

Pedigree unavailable - [2011]

Six rows feed barley



FEATURES

HEIGHT	medium-tall
EAR	six rows
GROWTH HABITUS	mid-winter

QUALITIES

SPECIFIC WEIGHT	good 65-67 kg/hl
TKW	medium 39-43 g
PROTEIN CONTENT	medium

RESISTANCES

LODGING				MR
COLD				R
MILDEW				R
NET BLOTCH				MR
RHYNCHOSPORIUM				MR
BYMV				R
BYDV			S	



Fenice

FIO12002 x (Sixtine x Ketos) - [2020]

Six rows feed barley



FEATURES

HEIGHT	tall
EAR	six rows
GROWTH HABITUS	mid-winter

QUALITIES

SPECIFIC WEIGHT	good 65-67 kg/hl
TKW	medium 39-43 g
PROTEIN CONTENT	medium

RESISTANCES

LODGING				MR
COLD				R
MILDEW				R
NET BLOTCH				MR
RHYNCHOSPORIUM				R
BYMV				R
BYDV				R



Trivalan

Pedigree unavailable - [2016]



FEATURES

HEIGHT	tall
EAR	long, curved
GROWTH HABITUS	spring

QUALITIES

SPECIFIC WEIGHT	medium
TKW	medium-low
PURPOSE	biomass, grain

RESISTANCES

LODGING				R
COLD				R
MILDEW			MR	
LEAF RUST				R
YELLOW RUST				R
SEPTORIA				R

Etere

Trimour x Amarillo 105 - [2020]



FEATURES

HEIGHT	medium-tall
EAR	long, erect
GROWTH HABITUS	spring

QUALITIES

SPECIFIC WEIGHT	very high
TKW	medium
PURPOSE	biomass, grain

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST				R
SEPTORIA				R

Satiro

Bienvenue x (Partout x Oceania) - [2017]



FEATURES

HEIGHT	medium
EAR	medium, erect
GROWTH HABITUS	spring

QUALITIES

SPECIFIC WEIGHT	high
TKW	medium
PURPOSE	biomass, grain

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST				R
SEPTORIA				R

Sileno

FT 723*Precocius - [2016]



FEATURES

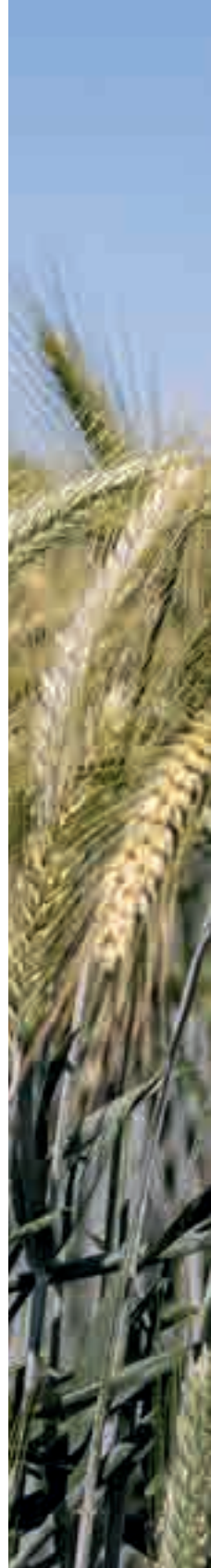
HEIGHT	tall
EAR	long, curved
GROWTH HABITUS	spring

QUALITIES

SPECIFIC WEIGHT	high
TKW	good
PURPOSE	biomass, grain

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST			MR	
SEPTORIA			MR	



Prevision

Pedigree unavailable

FEATURES

HEIGHT	medium-tall
GRAIN COLOUR	red
STEM	mid-large
GROWTH HABITUS	spring

RESIST.

LODGING		S	
COLD			MS
CROWN RUST			MS

QUALITIES

SPECIFIC WEIGHT	medium
TKW	high
PROTEIN CONTENT	medium
PURPOSE	forage and grain



Teo - BD40

Fabiam x Manoire - [2003]

FEATURES

HEIGHT	medium-tall
GRAIN COLOUR	black
STEM	medium-thin
GROWTH HABITUS	spring

RESIST.

LODGING				MR
COLD				MR
CROWN RUST			MS	

QUALITIES

SPECIFIC WEIGHT	medium
TKW	good
PROTEIN CONTENT	medium
PURPOSE	forage and grain



Genziana

(Bulban x Weibull 17578) x (Moore x Angelica) - [2002]

FEATURES

HEIGHT	medium
GRAIN COLOUR	white
STEM	thin
GROWTH HABITUS	spring

RESIST.

LODGING					R
COLD				MR	
CROWN RUST			MS		

QUALITIES

SPECIFIC WEIGHT	high
TKW	high
PROTEIN CONTENT	good
PURPOSE	grain



Hamel

Johanna x Coolabah - [2000]

FEATURES

HEIGHT	medium-tall
GRAIN COLOUR	white
STEM	thin
GROWTH HABITUS	spring

RESISTANCES

LODGING				MR
COLD				MR
CROWN RUST				R

QUALITIES

SPECIFIC WEIGHT	good
TKW	high
PROTEIN CONTENT	good
PURPOSE	forage and grain

Rossella

(Altgold rotkorn x Spada) x linea Altgold - [2016]

Spelt wheat



FEATURES

HEIGHT	medium-tall
GROWTH HABITUS	spring
TILLERING	high

QUALITIES

TKW	good 42-54 g
PROTEIN CONTENT	good
ALVEOGRAPH	W:170-210 P/L:0,4-0,6
PURPOSE	bread

RESISTANCES

LODGING				MR
COLD				R
MILDEW				R
LEAF RUST				MR
YELLOW RUST				R
SEPTORIA				MR



Giovanni Paolo

Pedigree Multiple Crosses - [2008]

Emmer wheat



FEATURES

HEIGHT	medium
GROWTH HABITUS	spring
TILLERING	good

QUALITIES

TKW	good 48-56 g
PROTEIN CONTENT	high
PURPOSE	pasta, whole grain

RESISTANCES

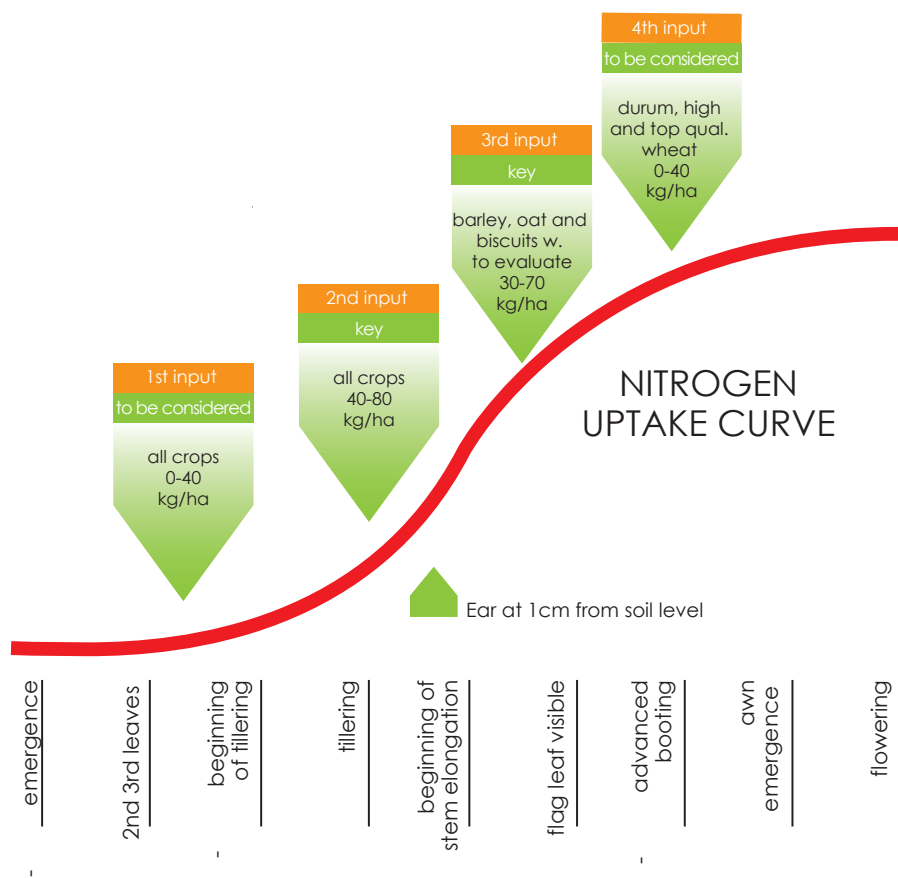
LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST				MR
SEPTORIA				MR



Nitrogen fertilization for straw cereals

Average nitrogen requirement per Ton of grain produced

Species/or quality class	DURUM - TOP Q. BREAD WHEAT	HIGH Q. BREAD WHEAT	BREAD WHEAT	TRITICALE	BISCUITS WHEAT	BARLEY - OAT
Kg of Nitrogen	31	28	25	23	21	18



IT'S IMPORTANT TO REMEMBER THAT:

- Nitrogen input must be scheduled with the aim of supplying the plant with the right amount of this nutrient, taking into account the plant development stage, the growing environment and the yield target.
- High inputs in the early stages can lead to an hyper-vegetation, with the following possible effects: increased risk of diseases and lodging, imbalance between the vegetative and the reproductive phase.
- Later nitrogen applications - from the stem elongation phase onwards - directly impact on the accumulation of proteins in the kernels.
- Staggered nitrogen inputs are always recommended to improve the absorption efficiency of nutrients and to match the growing needs of the crop.

Irena

Faba bean

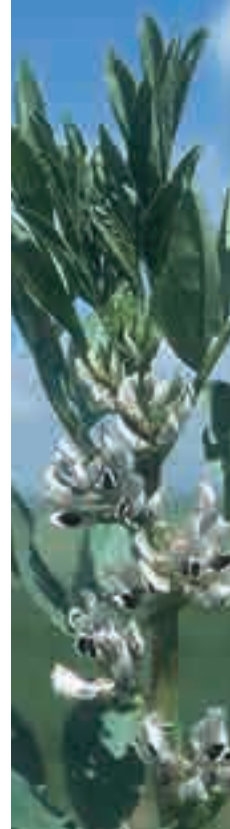
FEATURES

HEIGHT	medium
GRAIN COLOUR	light brown

COLD RESISTANCE				R
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QUALITIES

TKW	high: 550-700 g
PROTEIN CONTENT	good
ANTINUTRITIONAL FACT.	low
PURPOSE	animal feed



Prothabat

Faba bean

FEATURES

HEIGHT	medium
GRAIN COLOUR	light brown

COLD RESISTANCE			MR
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QUALITIES

TKW	high: 550-700 g
PROTEIN CONTENT	good
ANTINUTRITIONAL FACT.	medium
PURPOSE	animal feed

Lorenzo

Common vetch

FEATURES

HEIGHT	medium-tall
GROWTH TYPE	branched
FLOWER COLOUR	purple-pink

COLD RESISTANCE			MR
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QUALITIES

TKW	medium
PURPOSE	forage, cover crop



Latigo

Hairy vetch

FEATURES

HEIGHT	medium
GROWTH TYPE	very branched
FLOWER COLOUR	blue

COLD				R
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NEW

QUALITIES

TKW	basso
PURPOSE	forage, cover crop



Faquir

Pedigree unavailable

FEATURES	HEIGHT	medium-tall
	GRAIN COLOUR	green
	GROWTH HABITUS	winter

RESIST.	LODGING				R
	COLD				R
	DEHISCENCE				R

Dove

Pedigree unavailable

FEATURES	HEIGHT	medium-tall
	GRAIN COLOUR	green
	GROWTH HABITUS	winter

RESIST.	LODGING				MR
	COLD				R
	DEHISCENCE				R

Furious

Pedigree unavailable

FEATURES	HEIGHT	medium-tall
	GRAIN COLOUR	yellow
	GROWTH HABITUS	winter

RESIST.	LODGING				R
	COLD				R
	DEHISCENCE				R



QUALITIES	SPECIFIC WEIGHT	good
	TKW	220-240 g
	PROTEIN CONTENT	good
	PURPOSE	food grain



QUALITIES	SPECIFIC WEIGHT	high
	TKW	150-200 g
	PROTEIN CONTENT	good
	PURPOSE	food grain, biomass



QUALITIES	SPECIFIC WEIGHT	high
	TKW	190-230 g
	PROTEIN CONTENT	good
	PURPOSE	grain



Angelus

Ulisse x 8158 - [2013]

FEATURES

HEIGHT	tall
GRAIN COLOUR	yellow
GROWTH HABITUS	spring

RESIST.

LODGING				R
COLD			MR	
DEHISCENCE				R

Galactic

Pedigree unavailable

FEATURES

HEIGHT	medium
GRAIN COLOUR	yellow
GROWTH HABITUS	spring

RESIST.

LODGING				R
COLD			MR	
DEHISCENCE				R

Bluemoon

Pedigree unavailable

FEATURES

HEIGHT	tall
GRAIN COLOUR	green
GROWTH HABITUS	spring

RESIST.

LODGING				R
COLD			MR	
DEHISCENCE				R



QUALITIES

SPECIFIC WEIGHT	high
TKW	210-260 g
PROTEIN CONTENT	high
PURPOSE	grain



QUALITIES

SPECIFIC WEIGHT	good
TKW	200-240 g
PROTEIN CONTENT	good
PURPOSE	grain



QUALITIES

SPECIFIC WEIGHT	good
TKW	200-240 g
PROTEIN CONTENT	good
PURPOSE	food grain





Lump

Pedigree unavailable

FEATURES

HEIGHT	tall
GRAIN COLOUR	yellow
GROWTH HABITUS	spring

RESIST.

LODGING					R
COLD				MR	
DEHISCENCE					R

Peps

Pedigree unavailable

FEATURES

HEIGHT	tall
GRAIN COLOUR	green
GROWTH HABITUS	spring

RESIST.

LODGING					R
COLD				MR	
DEHISCENCE					R

Poseidon

Pedigree unavailable

FEATURES

HEIGHT	tall
GRAIN COLOUR	green
GROWTH HABITUS	spring

RESIST.

LODGING					R
COLD				MR	
DEHISCENCE					R



QUALITIES

SPECIFIC WEIGHT	good
TKW	200-240 g
PROTEIN CONTENT	good
PURPOSE	grain



QUALITIES

SPECIFIC WEIGHT	good
TKW	200-240 g
PROTEIN CONTENT	good
PURPOSE	food grain



QUALITIES

SPECIFIC WEIGHT	high
TKW	230-270 g
PROTEIN CONTENT	good
PURPOSE	food grain



CHICK PEA: crop management

From December to April, later planting is possible in certain areas where spring and summer are not too hot and dry.

A minimum temperature of 9°-10°C is required for germination. To obtain 35-40 plants/m² seeding rate is 45-50 seeds/m² (130-250 kg/ha based on TKW). The distance between the rows is 45-50 cm for hoed crops and 30-35 cm with cereal planter. Tamping should be performed in order to protect the seeds from the anti-germination effect of herbicide as well as facilitating harvesting.

Chickpea is a pulse with nitrogen-fixing activity carried out by symbiotic bacteria of the genus *Rhizobium*. We therefore recommend a pre-planting of 60-120 units/ha or localized at sowing time 5-20 units of Phosphorus.

In order to speed up the process should conditions be harsh (significant nitrogen deficiency, strong runoff before sowing, crop precessions particularly exploiting), 20-30 units/ha of Nitrogen could be added. Pre-emergence: - pendimethalin (ex. Stomp Aqua 1,0-1,75 lt/ha; Inca 1,5 -2,5 l/ha). – pendimethalin + acclonifen (Challenge 2,0 lt/ha).

Post-emergence: pyridate (ex. Lentagran 45 WP 1,2 – 1,8 kg/ha) for the dicotyledons control.

It is possible once 14% moisture content is reached, by using preferably axial-flow combine harvester, with beater speed setting of 350-500 rpm, large holed sieves, maximum ventilation.

SOWING

NUTRITION

WEED CONTROL

HARVEST

Alamo



Purpose: food

FEATURES

HEIGHT	medium 60-70 cm
PLANT	mid-erect
FLOWER COLOUR	white
GROWTH HABITUS	spring

QUALITIES

GRAIN TYPE	rough
TKW	380-470 g
CALIBER >9	45%
CALIBER >8	45%
CALIBER >7	10%

*average data based on TKW of 420 g

RESISTANCES

LODGING				R
COLD			MR	
DEHISCENCE				R
ASCOCHYTA R.			MR	





Forage

Super OM

Purpose **hay and silage**

Awnless barley blend



FEATURES

HEIGHT	tall
GROWTH HABITUS	spring

COMPOSITION

TWO ROWS		
AWNLESS BARLEY	weight 60%	n . of seeds 50%
SIX ROWS AWNLESS BARLEY	40%	50%

RESISTANCES

LODGING				MR
COLD				R
MILDEW				MR
NET BLOTCH				MR
RHYNCHOSPORIUM				MR

Super TM

Purpose **hay and silage**

Awnless triticale and wheat blend



FEATURES

HEIGHT	very tall
GROWTH HABITUS	spring

COMPOSITION

AWNLESS SOFT WHEAT	30%	29%
AWNLESS TRITICALE	weight 35%	n . of seeds 35%
TALL SIZE	35%	35%
AWNLESS TRITICALE		
VERY TALL SIZE	35%	36%

RESISTANCES

LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
YELLOW RUST			MR	
SEPTORIA				R

Realfieno

Forage mixtures

FEATURES

HEIGHT	medium-tall
REGROWTH	high
PURPOSE	hay, pasture, cover crop

COMPOSITION

LATE DACTYLIS GLOMERATA	30%
LATE FESTUCA ARUNDINACEA	20%
LOLIUM PERENNE TETRA	15%
LOLIUM PERENNE DIPLO	10%
PHLEUM PRATENSE	10%
TRIFOLIUM PRATENSE	10%
TRIFOLIUM REPENS	5%

RESISTANCES

LODGING					R
COLD					R

Italturbo

Raygrass mix

FEATURES

HEIGHT	tall
GROWTH HABITUS	winter
REGROWTH	good
PURPOSE	hay and silage

COMPOSITION

LOLIUM ITALICUM TETRA	50%
LOLIUM ITALICUM DIPLO	30%
LOLIUM WESTERVOLDICUM TETRA	20%

RESISTANCES

LODGING					R
COLD					R



Adrenalin

Purpose **hay and silage**

Lolium westervoldicum tetra



HEIGHT	tall
STEM DIMENSION	medium

GROWTH HABITUS	spring
REGROWTH	good

RESIST.

LODGING				MR
COLD				R

Canigo

Purpose **hay and silage**

Lolium westervoldicum tetra



HEIGHT	tall
STEM DIMENSION	medium

GROWTH HABITUS	spring
REGROWTH	high

RESIST.

LODGING				MR
COLD				MR

Galactico

Purpose **hay and silage**

Lolium westervoldicum tetra



HEIGHT	tall
STEM DIMENSION	medium

GROWTH HABITUS	spring
REGROWTH	low

RESIST.

LODGING				MR
COLD				R

Surrey Nova

Purpose **hay**

Lolium westervoldicum diplo

HEIGHT	tall
STEM DIMENSION	thin

GROWTH HABITUS	spring
REGROWTH	low

RESIST.

LODGING				R
COLD				R



Mantova Pro



Purpose **hay and silage**

FEATURES

HEIGHT	tall
GROWTH HABITUS	winter

RESIST.

LODGING					R
COLD					R

* NUTRITIONAL DATA

DM	29,0	[%]
PROTEIN	12,5	[%DM]
FAT	2,9	[%DM]
ADF	32,0	[%DM]
ADL	5,0	[%DM]
NDF	55,0	[%DM]

*average analysis data on silage

COMPOSITION

WHEAT	74%	70%
OAT	13%	17%
VEITCH	13%	13%

weight n. of seeds

QUALITIES

ASH	8,0	[%DM]
LACTIC ACID	2,4	[%DM]
ACETIC ACID	0,8	[%DM]
AMMON. NITROGEN	6,0	[%NH4/N]
PH	4,0	
NDF DIGEST. AT 30H	62,0	[%NDF]

Silos Pro



Purpose **silage**

FEATURES

HEIGHT	tall
GROWTH HABITUS	winter

RESIST.

LANGING					R
COLD					R

* NUTRITIONAL DATA

DM	29,0	[%]
PROTEIN	13,3	[%DM]
FAT	2,7	[%DM]
ADF	33,0	[%DM]
ADL	5,5	[%DM]
NDF	51,0	[%DM]

*average analysis data on silage

COMPOSITION

WHEAT	22%	40%
TRITICALE	16%	25%
PEA	52%	25%
VEITCH	10%	10%

weight n. of seeds

QUALITIES

ASH	8	[%DM]
LACTIC ACID	2,4	[%DM]
ACETIC ACID	0,8	[%DM]
AMMON.L NITROGEN	7,0	[%NH4/N]
PH	4,2	
NDF DIGEST. AT 30H	57,0	[%NDF]

Loietto Pro



Purpose **hay and silage**

FEATURES	HEIGHT	medium-tall
	GROWTH HABITUS	winter

COMPOSITION	RAYGRASS	10%	51%
	WHEAT	60%	31%
	OAT	15%	10%
	VETCH	15%	8%

RESIST.	LODGING			MR
	COLD			R

* NUTRITIONAL DATA	DM	35,0	[%]
	PROTEIN	12,0	[%DM]
	FAT	2,5	[%DM]
	ADF	28,0	[%DM]
	ADL	4,1	[%DM]
	NDF	52,0	[%DM]

QUALITIES	ASH	7,5	[%DM]
	LACTIC ACID	1,6	[%DM]
	ACETIC ACID	0,5	[%DM]
	AMMON. NITROGEN	2,9	[%NH4/N]
	PH	4,0	
	NDF DIGEST. AT 30H	58,0	[%NDF]

*average analysis data on silage after 1 withering day

Trilo Pro

Purpose **green forage, hay and pasture**

FEATURES	HEIGHT	medium-tall
	GROWTH HABITUS	winter

COMPOSITION	RAYGRASS	10%	36%
	CEREALS	30%	11%
	OAT	35%	19%
	VETCH	15%	4%
	ALESS+CRIM. CLOVER	10%	30%

RESIST.	LODGING			MR
	COLD			R

* NUTRITIONAL DATA	DM	86,0	[%]
	PROTEIN	14,5	[%DM]
	FAT	3	[%DM]
	ADF	37,0	[%DM]
	ADL	6,0	[%DM]
	NDF	57,0	[%DM]

QUALITIES	ASH	9,0	[%DM]
	SOLUBLE PROTEIN	45,0	[%Nsol/Ntot]
	NDF DIGEST. AT 30H	55	[%NDF]

*average analysis data on hay





Akenaton

Alessandrino clover

FEATURES	HEIGHT	tall		
	FLOWER	white flower head		

QUALITIES	REGROWTH	very fast
	PRODUCTIVITY	high
	PURPOSE	green forage, hay, pasture

RESIST.	COLD				MR
	DISEASES				MR

Maremma

Alessandrino clover

FEATURES	HEIGHT	tall		
	FLOWER	white flower head		

QUALITIES	REGROWTH	very fast
	PRODUCTIVITY	high
	PURPOSE	green forage, hay, pasture

RESIST.	COLD				MR
	DISEASES				MR

Rosa

Crimson clover

FEATURES	HEIGHT	medium-tall		
	FLOWER	red flower head		

QUALITIES	REGROWTH	good up to flowering
	PRODUCTIVITY	high
	PURPOSE	green forage, hay, pasture

RESIST.	COLD					R
	DISEASES				MR	

Biancofiore

Squarrose clover

FEATURES	HEIGHT	tall		
	FLOWER	white flower head		

QUALITIES	REGROWTH	single cut
	PRODUCTIVITY	high
	PURPOSE	green forage, hay, pasture

RESIST.	COLD			MS
	DISEASES			MR

La Torre

Clones selected from the Vogherese ecotype - [1994]

FEATURES

PLANT	erect
HEIGHT	medium-tall
STEM DIMENSION	medium-thin
BRANCHING	high
DORMANCY	dormient
AFTER WINTER REGROWTH	mid-early

QUALITIES

SPEED REGROWTH	very fast
STEM/LEAVES RATIO	good
LONGEVITY	high
TOLER. TO TRAMPILLING	high
PURPOSE	Hay and silage, dehydrated



Isola

Clones selected from the Vogherese ecotype - [2001]

FEATURES

PLANT	erect
HEIGHT	tall
STEM DIMENSION	medium-thin
BRANCHING	high
DORMANCY	dormient
AFTER WINTER REGROWTH	mid-early

QUALITIES

SPEED REGROWTH	fast
STEM/LEAVES RATIO	high
LONGEVITY	good
TOLER. TO TRAMPILLING	good
PURPOSE	Hay and silage, dehydrated



Greening e cover crop

Our mixtures guarantee the highest yield, in compliance with the greening regulations.

Arezzo Efa ensures full grain production and soil covering after the harvest. Suitable for organic cropping.

Greening Pro guarantees maximum biomass production together with best silage and hay quality. Intended for the production of biogas as well as fodder for lactating dairy cows .

Cover Pro is a mixture of early species and varieties with fast green covering, suitable for any conditions. Low set-up cost.

Arezzo Efa

FEATURES	HEIGHT	medium-tall
	GROWTH HABITUS	winter
	PURPOSE	grain

QUALITIES	AREZZO WHEAT	88%	n . of seeds	44%
	ALESS. CLOVER	6%		25%
	SQUARR. CLOVER	6%		31%

RESIST.	LODGING					R
	COLD					R

Greening Pro

FEATURES	HEIGHT	tall
	GROWTH HABITUS	spring
	PURPOSE	hay and silage

QUALITIES	AWNESS TALL WHEAT	24%	n . of seeds	21%
	FORAGE OAT	25%		24%
	PEA	46%		11%
	ALESS. CLOVER	5%		45%

RESIST.	LODGING					R
	COLD					R

Cover Pro



FEATURES	HEIGHT	medium
	GROWTH HABITUS	spring
	PURPOSE	green manure, hay

QUALITIES	STRIGOSA OAT	19%	n . of seeds	32%
	SATIVA OAT	20%		17%
	VILLOSA VETCH	26%		25%
	SATIVA VETCH	35%		26%

RESIST.	LODGING				MR
	COLD				R



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