

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 breeding new varieties and offering excellent services.

We are genetic providers and carriers 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 genetics resources.

The values which drive us are customer focus, passion for work, dynamism, fairness, cooperation, positivity.





Apsov 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 remain the basis for high quality seed production. Over the recent years Apsov business grew also through acquisition of shares of other companies: GMAX SEEDS settled in 2017; in 2023, the first foreign subsidiary, APSOV Seme Doo, was established in Serbia; over the same year APSOV entered the capital of the Spanish company HIBRISOL and purchased 100% of Sementi Maremma srl. Currently the multiplication area is 8,500 ha for winter crops and 3,500 ha for spring crops, with a production exceeding 35,000 tons per year. The group's turnover in 2022 was close to 50 million euro, exclusively generated by the seed business.

Our strengths

Research

Our goal is to develop high-yielding, consistent varieties and hybrids able to match the diverse market needs.

A wide network of trial locations and partnerships allows for precise agronomic and quality validation.

We currently have 9 active breeding programs:

Bread wheat, Durum wheat, Triticale, Barley, Oat, Chickpea, Faba bean, Sunflower, Alfalfa.





Sustainability

At our facilities in Voghera and Grosseto, we generate electricity through photovoltaic systems capable of producing 1,100,000 kWh per year—covering approximately 70% of our energy needs. In doing so, we reduce CO₂ emissions into the atmosphere around 600 tons, annually.

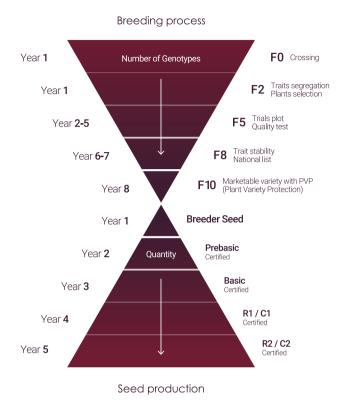
People

We stand by our employees and strive to ensure a motivating and safe working environment.

We are committed to having a positive impact on local communities by supporting projects that promote the development of education, culture, economic activities, and social initiatives.



Breeding

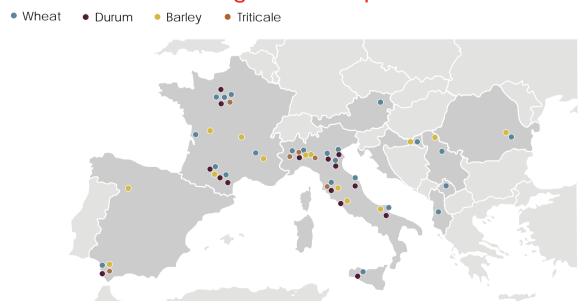


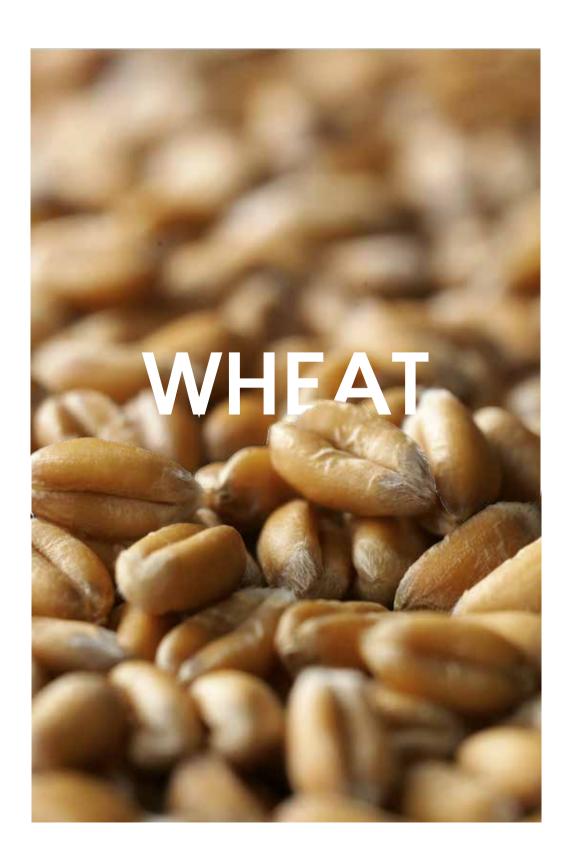
Innovation has always been APSOV strength, thanks to constant investments in research and development, acquired skills and international collaborations. APSOV carries out breeding programs for bread and durum wheat, barley, triticale, employing 12 people on a full-time basis. Creating new varieties with 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.

The network of breeding trials in Europe





Growth habitus and planting time

GROWTH HABITUS

WINT	ER	MID-WINTER	MID-ALTERN.	ALTERNATIVE	SPRING
AGEN AMISTAD AMPARA ANZIO ATLANTA AXUM REBELDE	ALAMPUR ATENE AUSTIN ARDES	ALEPPO ALGERI ANVERSA ARTEK	ACUNA	ALAGIR ALAMINOS APULIA ATAFU BISANZIO	ALBACETE ALEGRIAS ARABIA
EARLY		ME	DIUM	LAT	ſΕ

Quality and hardness

Top Quality Bread Wheat			Bisanzio Alampur Rebelde Ardes Amistad Apulia Agen — Algeri Axum — Artek—
HIGH QUALITY BREAD WHEAT			ALAMINOS ALEGRIAS* ALEPPO* ALBACETE*
BREAD WHEAT		ACUNA ATENE ANZIO AUSTIN ALAGIR ANVERSA ARABIA* ATAFU	ATLANTA
BISCUITS WHEAT	AMPARA		
	SOFT	MEDIUM	HARD

Varietal profile

	FEATURES							RESISTANCES				QUALITIES						
	QUALIDOSE	QUALITY	HEIGHT	EAR	GRAIN COLOUR	GROWTH HABITUS	EARUNESS	LODGING	COLD	MILDEW	LEAF RUST	YELOW RUST	SEPTORIA	FUSARIUM	HECTOL. WEIGHT (kg/hl)	TKW (g)	PROTEIN CONTENT	CLORTOLURON
ACUNA	0	BR	М	AW	R	MA	E	MR	R	MR	R	R	MR	R	good 79-81	good 40-42	М	T
AGEN		TQ	М	AW	R	W	М	R	R	MR	MR	R	MR	MR	good 79-81	medium 37-39	GO	S
ALAGIR		BR	T	AL	R	А	E	R	R	MR	MR	MR	R	MR	high 81-83	medium 37-39	М	S
ALAMINOS		HQ	T	AW	R	А	ME	R	R	R	MR	MR	R	R	high 81-83	medium 37-39	GO	T
ALAMPUR		TQ	М	AW	DR	W	М	R	R	MR	MS	R	MR	MR	high 81-83	low 34-36	Н	T
ALBACETE		HQ	М	AW	WH	S	E	R	MR	R	R	R	R	MR	good 79-81	medium 37-39	Н	T
ALEGRIAS		HQ	MT	AW	WH	S	E	MR	MR	R	R	R	MS	MR	good 79-81	medium 37-39	Н	T
ALEPPO		HQ	М	AW	WH	MW	М	MR	R	MR	MR	MR	MR	MR	high 81-83	low 34-36	Н	T
ALGERI		н/т Q	М	AW	R	MW	М	R	R	R	R	MR	R	R	high 81-83	good 40-42	GO	T
AMISTAD		TQ	М	AW	DR	W	М	R	R	R	R	R	MR	R	high 81-83	low 34-36	Н	T
AMPARA		BI	MT	AL	R	W	М	R	R	R	MR	R	MR	MR	medium 77-79	high 43-45	L	T
ANVERSA		BR	М	AL	R	MW	М	MR	R	R	MR	R	MR	MS	medium 77-79	medium 37-40	М	T
ANZIO		BR	М	AW	R	W	М	R	R	MR	R	R	MR	R	good 79-81	high 43-45	М	S
APULIA		TQ	М	AW	R	А	E	MR	R	R	MS	R	R	MR	good 79-81	low 34-36	Н	T
ARABIA		BR	MT	AW	WH	S	E	MR	R	MR	MS	MS	MS	MR	high 81-83	good 40-42	GO	S
ARDES		TQ	М	AW	R	W	М	R	R	R	R	R	MR	R	good 79-81	low 34-36	Н	S
ARTEK		н/т Q	М	AW	R	W	М	R	R	R	R	R	R	R	high 81-83	good 40-42	GO	T
ATAFU		HQ	MT	AW	R	А	E	R	R	R	R	MR	MR	R	high 81-83	medium 37-40	GO	T
ATENE		BR	М	AW	R	W	L	R	R	R	R	R	R	MR	good 79-81	high 43-45	М	S
ATLANTA		BR	М	AW	R	W	ML	R	R	R	R	R	R	MR	good 79-81	good 40-42	М	T
AUSTIN		BR	М	AW	R	W	ML	R	R	R	MR	R	MR	R	good 79-81	high 43-45	М	S
AXUM		TQ	MT	AW	DR	W	М	MS	R	R	MR	MR	MR	MR	high 81-83	medium 37-39	GO	T
BISANZIO		TQ	М	AW	А	А	ME	R	R	R	MS	MS	MR	MR	good 79-81	high 43-45	Н	T
REBELDE		TQ	М	AW	DR	W	М	R	R	R	MS	R	R	R	high 81-83	low 34-36	VH	T

QUALITY: TQ= Top quality bread wheat; HQ= High quality bread wheat; BR= Bread wheat; Bl= Biscuits wheat - **HEIGHT**: S=short; M=medium; MH= medium-high; H= high - **EAR**: AL=awnless; AW=awned - **GRAIN COLOUR**: R=red; DR=dark red; WH=white - **GROWIH HABITUS**: A=alternative; W=winter; MA=midalternative; MW=midwinte; S=spring - **EARLINESS**: E= early; L=late MIL=medium-late; ME=medium-early; M=medium - **RESISTANCES**: R=resistant; MR=mid-resistant; MS=mid-sensitive; S=sensitive - **PROTEIN CONTENT**: L=low; M=medium; GO=good; H=high; VH=very high - **CLORTOLURON**: T:=tollerant; S=sensitive



Ardes

Rebelde x Nogal [2023]







Top quality bread wheat

HEIGHT	medium
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	winter
EARLINESS	medium

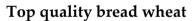
ES	HECTOLITRIC WEIGHT	good 79-81 kg/hl			
ij	TKW	low 34-36 g			
Γ	ALVEOGRAPH	W:320-410 - P/L:0,7-0,9			
O	HARDNESS	hard			
	PROTEIN CONTENT	high			

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

Sensitive to Clortoluron



(Bologna x CH710) x Bologna - [2012]







	T. C.



high 81-83 kg/hl low 34-36 g

hard

W:360-460 - P/L:0,6-0,9

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

	PROTEIN CONTENT	very high
Ω	Tollerant to Clortol	uron

RESISTANCES

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

HECTOLITRIC WEIGHT

ALVEOGRAPH HARDNESS



Amistad

Genealogy not available - [2023]







Top quality bread wheat

FEATURES

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

IES	HECTOLITRIC WEIGHT	high 81-83 kg/hl
Ę	TKW	low 34-36 g
\subseteq	ALVEOGRAPH	W:360-460 - P/L:0,6-0,8
O	HARDNESS	hard
	PROTEIN CONTENT	high

RESISTANCE

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

Tolerant to Clortoluron



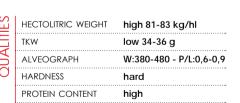
Rebelde x 7.04 7 - [2021]



Top quality bread wheat

FEATURES

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



RESISTANCES

)	LODGING			R
	COLD			R
:	MILDEW		MR	
)	LEAF RUST	MS		
	YELLOW RUST			R
	SEPTORIA		MR	
	FUSARIUM		MR	

? | Tolerant to Clortoluron

ADV



Axum

Bokaro x Bologna - [2019]





Top quality bread wheat

FEATURES

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

IES	HECTOLITRIC WEIGHT	high 81-83 kg/hl
JALITIE	TKW	medium 37-39 g
∇	ALVEOGRAPH	W:300-360 -P/L:0,5-0,6
O	HARDNESS	hard
	PROTEIN CONTENT	good

RESISTANCES

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

Tolerant to Clortoluron



Rebelde x Nogal - [FR 2025]



Top quality bread wheat

HEIGHT	medium
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	winter
EARLINESS	medium





	HEIGHT	medium
	EAR	awned
i	GRAIN COLOUR	red
	GROWTH HABITUS	winter
	EARLINESS	medium

Ш	HECTOLITRIC WEIGHT	good /9-81 kg/ni
ALITIE	TKW	medium 37-39 g
۷.	ALVEOGRAPH	W:260-320 - P/L:0,4-0,6
O	HARDNESS	hard
	PROTEIN CONTENT	good
	•	······································

RESISTANCES

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

Sensitive to Clortoluron





Algeri

Adelante x Bramante - [2020]





High/Top quality bread wheat

EATURE

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

ES	HECTOLITRIC WEIGHT	high 81-83 kg/hl
UALITIE	TKW	good 40-42 g
N	ALVEOGRAPH	W:280-340 - P/L:0,5-0,7
O	HARDNESS	hard
	PROTEIN CONTENT	good

RESISTANCES

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

Tolerant to Clortoluron











High/Top quality bread wheat

EATURES

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

UALITIES	HECTOLITRIC WEIGHT	high 81-83 kg/hl
	TKW	good 40-42 g
	ALVEOGRAPH	W:260-320 - P/L:0,4-0
O	HARDNESS	hard
	PROTEIN CONTENT	good

RESISTANCES

,	LODGING		R
)	COLD		R
	MILDEW		R
	LEAF RUST		R
1	YELLOW RUST		R
	SEPTORIA		R
	FUSARIUM		R

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Anzio

Basmati x Cipres - [2024]

Bread wheat



HEIGHT	medium
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	winter
EARLINESS	medium

HECTOLITRIC WEIGHT good 79-81 kg/hl TKW high 43-45 g ALVEOGRAPH W:190-270 -P/L:0,6-0,8 HARDNESS medium-hard PROTEIN CONTENT medium

RESISTANCES

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

Sensitive to Clortoluron





Atlanta

(Sirtaky x PR22R58) x Solehio - [2022]

Bread wheat

FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	winter
EARLINESS	medium-late

ES	Н
트	TI
ΠA	Α
O	Н

0	HECTOLITRIC WEIGHT	good 79-81 kg/hl
=	TKW	good 40-42 g
	ALVEOGRAPH	W:160-220 - P/L:0,6-0,8
J	HARDNESS	hard
	PROTEIN CONTENT	medium

RESISTANCES

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





Ampara

Artico x Bagou - [2022]







Biscuits wheat

EAIURES

HEIGHT	medium-tall
EAR	awnless
GRAIN COLOUR	red
GROWTH HABITUS	winter
EARLINESS	medium

LITIES	HECTOLITRIC WEIGHT	medium 77-79 kg/hl
Ę.	TKW	high 43-45 g
ΑN	ALVEOGRAPH	W:100-120 - P/L:0,2-0,3
O	HARDNESS	soft
	PROTEIN CONTENT	low

RESISTANCES

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

Tolerant to Clortoluron

ADVIC



Anversa

(Sirtaki x PR22R58) x W2 - [2020]

Bread wheat

FEATURES

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

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7	HECTOLITRIC WEIGHT	medium 77-79 kg/hl
•	TKW	medium 37-39 g
5	ALVEOGRAPH	W:160-220 - P/L:0,5-0,7
)	HARDNESS	medium-hard
	PROTEIN CONTENT	medium

RESISTANCES

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

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Tolerant to Clortoluron

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Atene

Akamar X PR22R58 [2023]





Bread wheat

EAIURES

,	HEIGHT	medium
5	EAR	awned
ì	GRAIN COLOUR	red
	GROWTH HABITUS	winter
	EARLINESS	late

	I	
Ë	HECTOLITRIC WEIGHT	good 79-81 kg/hl
QUALITIES	TKW	high 43-45 g
	ALVEOGRAPH	W:190-270 - P/L:0,4-0,7
	HARDNESS	medium-hard
	PROTEIN CONTENT	medium

RESISTANCES

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

Sensitive to Clortoluron





Austin

Diamento x Altamira [2023]

Bread wheat

FEATURES

	HEIGHT	medium
	EAR	awned
	GRAIN COLOUR	red
•	GROWTH HABITUS	winter
	EARLINESS	medium-late

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í	HECTOLITRIC WEIGHT	good 79-81 kg/hl
į	TKW	high 43-45 g
5	ALVEOGRAPH	W:140-200 - P/L:0,4-0,7
)	HARDNESS	medium-hard
	PROTEIN CONTENT	medium

RESISTANCES

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

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Sensitive to Clortoluron

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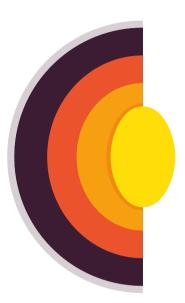




Is our own exclusive OSOV patent, complete and effective.

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.



Sepiret Silver

• film coating: ensure the adhesion of all components to the seed, reducing dust and increasing smoothness

LANGIS

 insecticide: pyrethroid insecticide effective against wireworms and other soil insects in the early stages of plant growth

Ympact[®]

• fertilizer: improves germination and availability of nutrients, thanks to the complex of organic and minerals active matter that penetrate the seed

Systiva

 fungicide: guarantees a greater number of flowering healthy plants given that it is the only treatment which thwarts foliar diseases, such as helminthosporium and septoria from planting to booting

Why Choose **QUALIDOSE**?

High yielding varieties

Safety in early sowing

Full comprehensive protection from fungi and insects

Efficiency of high value treatments

Perfect seeding ratio

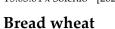
Outstanding value for the money

	VARIETY	ТҮРЕ	PLANTING RATE seeds/mq	BAGS/HA no.	SEEDS/BAG no.
Wheat	Acuna	Bread	300	4	750.000
Durum	Platone	High quality	285	5	570.000
Davida	Fenice	Six rows feed	200	5	400.000
Barley	Idra	Two rows feed	225	5	450.000



Acuna

T5.03.04 x Solehio - [2021]







1	HEIGHT	medium
	EAR	awned
i	GRAIN COLOUR	red
	GROWTH HABITUS	mid-alternative
	EARLINESS	early

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

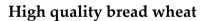
RESISTANCES

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

Tolerant to Clortoluron



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



FEATURES

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

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N.	A
O	ŀ

HECTOLITRIC 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

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







Relmo2330 x Bologna - [2022]



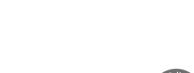
Top quality bread wheat

,	HEIGHT	medium
5	EAR	awned
ì	GRAIN COLOUR	red
	GROWTH HABITUS	alternative
	EARLINESS	early

	I	
Ĕ	HECTOLITRIC WEIGHT	good 79-81 kg/hl
LITIES	TKW	low 34-36 g
Ν	ALVEOGRAPH	W:340-440 - P/L:0,7-1,0
O	HARDNESS	hard
	PROTEIN CONTENT	high

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

Tolerant to Clortoluron





Bisanzio

Monblanc x Palladio - [2014]

Top quality bread wheat

FEATURES

HEIGHT	medium
EAR	awned
GRAIN COLOUR	amber
GROWTH HABITUS	alternative
EARLINESS	medium-early

IES	HECTO
Ę	TKW
Ω	ALVEC
O	HARDI

1	HECTOLITRIC 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

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



Alagir

Genealogy not available - [2021]

Bread wheat



FEATURES

HEIGHT	tall
EAR	awnless
GRAIN COLOUR	red
GROWTH HABITUS	alternative
EARLINESS	early

()	l	
Ĕ	HECTOLITRIC WEIGHT	high 81-83 kg/hl
\LITIES	TKW	medium 37-39 g
\int	ALVEOGRAPH	W:150-200 - P/L:0,6-0,8
O	HARDNESS	medium-hard
	PROTEIN CONTENT	medium

RESISTANCES

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

Sensitive to Clortoluron





Alaminos

SY300 x T152 - [2023]

High quality bread wheat

FEATURES

HEIGHT	tall
EAR	awned
GRAIN COLOUR	red
Growth Habitus	alternative
EARLINESS	medium-early

)	HECTOLITRIC WEIGHT	11.1.04.001(1.1
1	HECTOLITRIC WEIGHT	high 81-83 kg/hl
į	TKW	medium 37-39 g
5	ALVEOGRAPH	W:220-280 - P/L:0,6-0,8
)	HARDNESS	hard
	PROTEIN CONTENT	good

RESISTANCES

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



Alegrias

Multiple crossings - [2023]

High quality bread wheat





FEATURES

i	HEIGHT	medium-tall
	EAR	awned
i	GRAIN COLOUR	white
	GROWTH HABITUS	spring
	FARIINESS	early

ES	HECTOLITRIC WEIGHT	good 79-81 kg/hl
Ę	TKW	medium 37-39 g
$^{\triangleleft}$	ALVEOGRAPH	W:200-280 - P/L:0,7-1,0
J	HARDNESS	hard
	PROTEIN CONTENT	high

RESISTANCES

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

Tolerant to Clortoluron





Arabia

Guadalupe x Tibet - [2009]

Bread wheat



HEIGHT	medium-tall
EAR	awned
GRAIN COLOUR	white
GROWTH HABITUS	spring
EARLINESS	early

IES	HECTOLITRIC '
Ħ	TKW
Π	ALVEOGRAPH
O	HARDNESS
	PPOTEINI CON

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

RESISTANCES

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

Sensitive to Clortoluron



Albacete

Genealogy not available - [2024]

High quality bread wheat

FEATURES

زُ	HEIGHT	medium
5	EAR	awned
;	GRAIN COLOUR	white
-	GROWTH HABITUS	spring
	EARLINESS	early

IES	HECTOLITRIC WEIGHT	good 79-81 kg/hl
JALITIES	TKW	medium 37-39 g
∇	ALVEOGRAPH	W:200-280 - P/L:0,6-0,8
O	HARDNESS	hard
	PROTEIN CONTENT	hiah

RESISTANCES

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

Tolerant to Clortoluron





Atafu

Genealogy not available - [2024]

High quality bread wheat

HEIGHT	medium-tall
EAR	awned
GRAIN COLOUR	red
GROWTH HABITUS	alternative
EARLINESS	early

)	HECTOLITRIC WEIGHT	high 81-83 kg/hl
]	TKW	medium 37-39 g
5	ALVEOGRAPH	W:200-260 - P/L:0,6-0,8
י ע	HARDNESS	hard
	PROTEIN CONTENT	good

RESISTANCES

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



Quality classification of main durum wheat varieties

NEGATIVE VARIETY **POSITIVE** HIGH QUALITY (> 105) AUREO (test) yield **BERING** yellow ind. + gluten **SOCRATE** yellow ind. + gluten **CARTESIO** gluten+protein **CONFUCIO GREGORIO** gluten MAMELI yellow ind. + gluten **PLATONE** yellow ind. + gluten SARAGOLLA (test) gluten protein **SVEVO** protein yield **TIREX** protein **GOOD QUALITY** (105-100) **CASANOVA** CLAUDIO (test) yellow index SIMETO (test) **MEDIUM QUALITY** (99-95) DUILIO (test) yellow ind. LOW QUALITY (< 95) **IRIDE** protein

Earliness and planting time

		SOCRATE	
	LATE	PLATONE	EARLY
		MAMELI	
	MEDIUM	CONFUCIO SENECA BERING CASANOVA	MEDIUM
EARLYNESS	EARLY	GREGORIO CARTESIO TIREX JUNE TIREX BIANTING	LATE

Global quality index =

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

Main source: C.R.E.A. / Data processing: Apsovsementi

Varietal profile

	FEATURES					RESISTANCES						QUALITIES							
	QUALIDOSE	QUALITY	HEIGHT	EAR	AWNS COLOUR	EARLINESS	LODGING	COLD	MILDEW	LEAF RUST	YELLOW RUST	SEPTORIA	FUSARIUM	HECTOL. WEIGHT (kg/hl)	TKW (g)	VIIROSITY	PROTEIN CONTENT	GLUTEN INDEX	YELLOW INDEX
BERING		HQ	MT	NH	WH	М	MR	R	R	MR	R	MS	MR	high 82-84	high 50-52	Н	Н	high 85-95	high 24-26
CARTESIO		HQ	М	NH	BL	E	MR	MR	MR	MR	MR	MR	MR	high 82-84	high 50-52	Н	Н	high 85-95	high 24-26
CASANOVA		GQ	MT	NH	WH	ME	MR	R	MR	MR	R	MS	MR	high 82-84	high 50-52	G	GO	good 75-85	good 22-24
CONFUCIO		HQ	М	NH	BL	М	MR	R	MS	R	R	MR	MR	good 80-82	good 47-49	Н	Н	high 85-95	high 24-26
GREGORIO		HQ	М	NH	BR	E	MR	R	MS	R	MR	MR	MR	high 82-84	good 47-49	Н	Н	high 85-95	high 24-26
KENOBI		GQ	MT	NH	WH	E	MR	MR	R	MS	MR	MR	MR	high 82-84	high 50-52	G	GO	good 75-85	good 22-24
MAMELI		HQ	М	Н	BR	М	R	R	R	MR	MR	MR	MR	high 82-84	good 47-49	Н	Н	high 85-95	high 24-26
PLATONE	0	HQ	М	Н	BL	М	R	R	R	MR	MR	R	R	high 82-84	high 50-52	Н	Н	high 85-95	high 24-26
SENECA		GQ	М	Н	BL	М	MR	R	MR	R	R	MR	MR	high 82-84	high 50-52	Н	GO	good 75-85	high 24-26
SOCRATE		HQ	MS	NH	WH	ML	R	R	R	MR	R	R	MR	high 82-84	high 50-52	Н	GO	high 85-95	high 24-26
TEODORICO		HQ	М	NH	WH	E	MR	MR	R	R	MR	MR	MR	high 82-84	good 47-49	Н	GO	high 85-95	good 22-24
TIREX		HQ	MT	Н	BR	E	MR	MR	R	MS	MS	MR	MR	good 80-82	high 50-52	Н	Н	high 85-95	high 24-26

QUALITY: HQ= high quality durum wheat; GQ= Good quality durum wheat - HEIGHT: S=short; M=medium; MH= medium-high; H= high - EAR: H=hairy; NH=not hairy - AWNS COLOUR: BR=brown; BL=black; WH=white - EARLINESS: E= early; L=late ML=medium-late; ME=medium-early; M=medium - RESISTANCES: R=resistant; MR=mid-resistant; MS=mid-sensitive; S=sensitive - PROTEIN CONTENT: H=high; M=medium; GO=good - VITROSITY: H=high; G=good



Socrate

Daurur x Odisseo - [2023]





High quality durum wheat

FEATURES

ارُ	HEIGHT	medium-short
5	EAR	not hairy
ζ	AWNS COLOUR	white
-	EARLINESS	medium-late

IES	HECTOLITRIC WEIGHT	high 82-84 kg/hl
ALITIES	TKW	high 50-52 g
\Box	VITROSITY	high
O	PROTEIN CONTENT	good
	GLUTEN INDEX	high 85-95
	YELLOW INDEX	high 24-26

RESISTANCE

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





Platone

Isildur x Tirex - [2016]

High quality durum wheat

FEATURES

HEIGHT	medium
EAR	hairy
AWNS COLOUR	black
EARLINESS	medium

QUALITIES

	HECTOLITRIC WEIGHT	high 82-84 kg/hl
]	TKW	high 50-52 g
5	VITROSITY	high
C	PROTEIN CONTENT	high
	GLUTEN INDEX	high 85-95
	YELLOW INDEX	high 24-26
	•	···········

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



Mameli

Tirex x Karur - [2018]

High quality durum wheat

FEATURES

]	HEIGHT	medium
5	EAR	hairy
ζ	AWNS COLOUR	brown
-	EARLINESS	medium

	HECTOLITRIC WEIGHT	high 82-84 kg/hl
5	TKW	good 47-49 g
	VITROSITY	high
\Box	PROTEIN CONTENT	high
	GLUTEN INDEX	high 85-95
	YELLOW INDEX	high 24-26



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



Bering

Casanova x Colombo - [2018]

High quality durum wheat

HEIGHT	medium-tall
EAR	not hairy
AWNS COLOUR	white
EARLINESS	medium

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	l

0	HECTOLITRIC WEIGHT	high 82-84 kg/hl
=	TKW	high 50-52 g
5	VITROSITY	high
J	PROTEIN CONTENT	high
	GLUTEN INDEX	high 85-95
	YELLOW INDEX	high 24-26

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



Seneca

Genealogy not available - [2023]

Good quality durum wheat

	HEIGHT	medium
	EAR	hairy
i	AWNS COLOUR	black
	EARLINESS	medium

2	HECTOLITRIC WEIGHT	high 82-84 kg/hl
5	TKW	high 50-52 g
5	VITROSITY	high
)	PROTEIN CONTENT	good
	GLUTEN INDEX	good 75-85
	YELLOW INDEX	high 24-26

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



Confucio

Ramirez x Dylan - [2022]

High quality durum wheat

HEIGHT	medium
EAR	not hairy
AWNS COLOUR	black
EARLINESS	medium

ES	
N	
ISTA	
RESI	
_	

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





ES	HECTOLITRIC WEIGHT	good 80-82 kg/hl
Ę	TKW	good 47-49 g
\subseteq	VITROSITY	high
O	PROTEIN CONTENT	high
	GLUTEN INDEX	high 85-95
	YELLOW INDEX	high 24-26
	• • • • • • • • • • • • • • • • • • • •	·······



Casanova

(Flavio x Siene) x Duilio - [2003]

Good quality durum wheat

FEATURES

3	HEIGHT	medium-tall
5	EAR	not hairy
	AWNS COLOUR	white
	EARLINESS	medium-early

IES	HECTOLITRIC WEIGHT	high 82-84 kg/hl
UALITIE	TKW	high 50-52 g
V ∩	VITROSITY	good
O	PROTEIN CONTENT	good
	GLUTEN INDEX	good 75-85
	YELLOW INDEX	good 22-24

RESISTANCES

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



Tirex

Svevo x Nefer - [2007]

High quality durum wheat

FEATURES

	HEIGHT	medium-tall				
	EAR	hairy				
	AWNS COLOUR	brown				
٠	EARLINESS	early				

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V.	ľ	
O	ľ	
	ľ	

1	HECTOLITRIC 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
	PROTEIN CONTENT GLUTEN INDEX	high high 85-95

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



Gregorio

Saragolla x Marco Aurelio - [2019]



High quality durum wheat

FEATURES

3	HEIGHT	medium
5	EAR	not hairy
	AWNS COLOUR	brown
-	EARLINESS	early

ES		
三	ľ	
MΑ	ŀ	
O	ľ	
	ľ	

	HECTOLITRIC WEIGHT	high 82-84 kg/hl					
Ę	TKW	good 47-49 g					
2	VITROSITY	high					
J	PROTEIN CONTENT	high					
	GLUTEN INDEX	high 85-95					
	YELLOW INDEX	high 24-26					

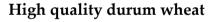
RESISTANCES

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



Cartesio

Ancomarzio x Normanno - [2020]



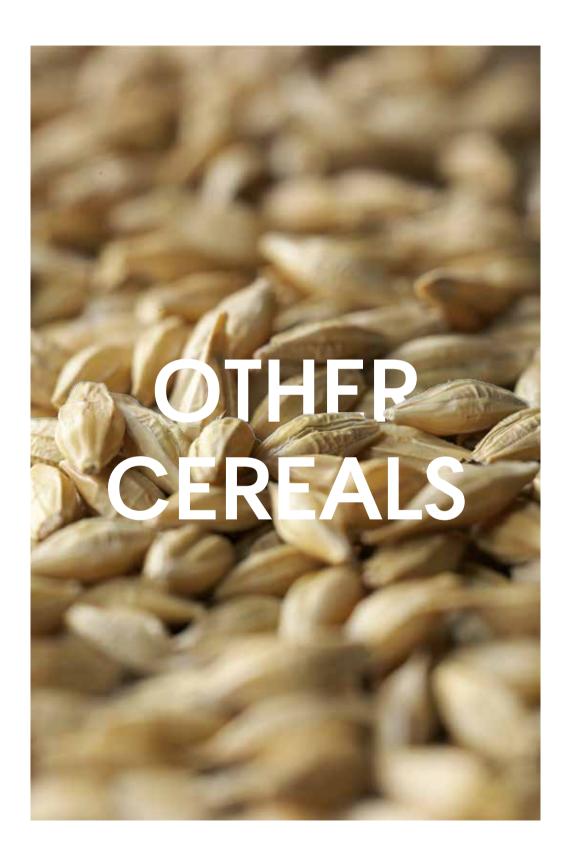
-EATURES

HEIGHT	medium					
EAR	not hairy					
AWNS COLOUR	black					
EARLINESS	early					

QUALITIES

Į.	HECTOLITRIC WEIGHT	high 82-84 kg/hl
į	TKW	high 50-52 g
5	VITROSITY	high
)	PROTEIN CONTENT	high
	GLUTEN INDEX	high 85-95
	YELLOW INDEX	high 24-26

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



Varietal profile

	FEATURES						RESISTANCES						QUALITY		
	QUALIDOSE	HEIGHT	EAR	EARLINESS	GROWTH HABITUS	LODGING	COLD	MILDEW	NET BLOTCH	RYNCHOSPORIUM	BYMV	вуру	HECTOLITRIC WEIGHT (kg/hl)	TKW (g)	PROTEIN CONTENT
ALASTRO		М	2	ME	А	MR	R	R	MR	MR	R	S	high 68-72	high 48-54	GO
AVIOR		Т	6	ME	MA	MR	R	R	R	R	R	R	medium 59-63	high 48-54	GO
BILANCIA		MT	6	ML	W	R	R	R	R	R	R	S	medium 59-63	medium 39-43	GO
COMETA		MS	2	ME	MA	R	MR	R	MR	MR	R	R	high 68-72	high 48-54	GO
DRACO		М	6	ME	MA	MR	R	R	R	MR	R	R	high 68-72	medium 39-43	GO
FENICE	0	Т	6	E	MA	R	R	R	MR	R	R	R	good 64-67	medium 39-43	GO
GEMINI		MT	6	М	MW	R	R	R	MR	R	R	S	good 64-67	high 48-54	Н
IDRA	0	S	2	E	MA	R	R	R	MR	MR	R	R	high 68-72	high 48-54	GO
ORIONE		MS	2	ME	W	R	R	R	R	MR	R	R	high 68-72	high 48-54	GO
PLUTONE		MT	6	М	MW	R	R	R	MR	MR	R	S	high 68-72	high 48-54	GO
SPAZIO		М	2	М	W	MR	R	R	R	MR	R	R	high 68-72	high 48-54	GO
TAURI		MS	2	ME	МА	R	R	R	MR	MR	R	R	high 68-72	high 48-54	М
VIRGINI		М	2	М	А	MR	R	R	R	R	R	R	good 64-67	high 48-54	Н

HEIGHT: Seshort; MS=medium-short; M=media; MT= medium-tall; T= tall - EAR: 2=two rows; 6=six rows - GROWTH HABITUS: A= alternative; MA= mid-alternative; MW= mid-winter; W=winter - EARLINESS - E=early; ME=medium-early; M=medium; ML=medium-late; L=late - RESISTANCES: R=resistant; MR=mid-resistant; MS=mid-sensitive; S=sensitive - PROTEIN CONTENT: H=high; M=medium; GO=good





Virgini

FIO1347 x Alastro - [2022]

Two rows feed barley

HEIGHT	medium
EAR	two rows
EARLINESS	medium
GROWTH HABITUS	alternative

IES	HECTOLITRIC WEIGHT	good 64-67 kg/hl
	TKW	high 48-54 g
\square	PROTEIN CONTENT	high

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



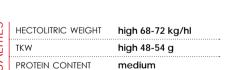
Tauri

Fior 11780 x Alastro - [2023]

Two rows feed barley

FEATURES

HEIGHT	medium-short
EAR	two rows
EARLINESS	medium-early
GROWTH HABITUS	mid-alternative

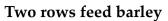


		R
		R
		R
	MR	
	MR	
		R
		R



Cometa

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



FEATURES

HEIGHT	medium-short
EAR	two rows
EARLINESS	medium-early
GROWTH HABITUS	mid-alternative

IES	HECTOLITRIC WEIGHT	high 68-72 kg/hl
Ę.	TKW	high 48-54 g
ΔU	PROTEIN CONTENT	good

RESISTANCES

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







Idra

Cometa x Fior 5285 - [2012]

Two rows feed barley

FEATURES

HEIGHT	short
EAR	two rows
EARLINESS	early
GROWTH HABITUS	mid-alternative

IES	HECTOLITRIC WEIGHT	high 68-72 kg/hl
5	TKW	high 48-54 g
	PROTEIN CONTENT	good

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



Plutone

Laverda x Azzurro - [2023]

Six rows feed barley

FEATURES

3	HEIGHT	medium-tall
5	EAR	six rows
	EARLINESS	medium
-	GROWTH HABITUS	mid-winter

LITIES	HECTOLITRIC WEIGHT	high 68-72 kg/hl
Ę.	TKW	high 48-54 g
\bigcap	PROTEIN CONTENT	good

RESISTANCE

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



Avior

Rafaela x Atlante - [2023]

Six rows feed barley

FEATURES

HEIGHT	tall
EAR	six rows
EARLINESS	medium-early
GROWTH HABITUS	mid-alternative

ES	HECTOLITE
블	TKW
⋖	DDOTEIN

TOLITRIC WEIGHT	medium 59-63 kg/hl
	high 48-54 g
TEIN CONTENT	good

ES	LODGING		MR	
N	COLD			R
ΤA	MILDEW			R
RESISTANCES	NET BLOTCH			R
RE	RHYNCHOSPORIUM			R
	BYMV			R
	BYDV			R



Draco

Etincel x Cometa - [2023]



Six rows feed barley

FEATURES

,	HEIGHT	medium
5	EAR	six rows
ì	EARLINESS	medium-early
	GROWTH HABITUS	mid-alternative

ITIES	HECTOLITRIC WEIGHT	high 68-72 kg/hl
늘	TKW	medium 39-43 g
٦.	PROTEIN CONTENT	good
\sim		

RESISTANCES

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



Fenice

FIO12002 x (Sixtine x Ketos) - [2020]

Six rows feed barley

HEIGHT	tall
EAR	six rows
EARLINESS	early
GROWTH HABITUS	mid-alternative







HECTOLITRIC WEIGHT good 64-67 kg/hl TKW medium 39-43 g PROTEIN CONTENT good

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



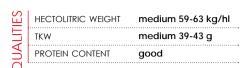
Bilancia

Laverda x Shangrila – [2020]

Six rows feed barley



3	HEIGHT	medium-tall
5	EAR	six rows
	EARLINESS	medium-late
	GROWTH HABITUS	winter



RESISTANCES

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



Gemini

Explora x (Laverda x Azzurro) - [2022]

Six rows feed barley

FEATURES

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

HECTOLITRIC WEIGHT good 64-67 kg/hl
TKW high 48-54 g
PROTEIN CONTENT high

			R
			R
			R
		MR	
			R
			R
S			
	S	S	



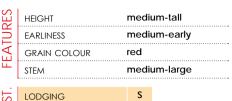


Prevision

Genealogy not available

COLD

CROWN RUST





ES	HECTOLITRIC WEIGHT	medium
늘	TKW	high
۷.	PROTEIN CONTENT	medium
O	PURPOSE	forage and grain

Genziana

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

MS

MS MS

SES.	HEIGHT	medium	1		
	EARLINESS	medium	n-early		
FEATURES	GRAIN COLOUR	white			
正	STEM	medium	1		
SIST.	LODGING				R
ESI	COLD		M	R	

IES	HECTOLITRIC WEIGHT	high
늘	TKW	high
٩	PROTEIN CONTENT	good
O	PURPOSE	grain, food
	.	

Hamel

CROWN RUST

Johanna x Coolabah - [2000]

RES	HEIGHT	medium-ta	all	
I.F	EARLINESS	medium-la	ite	
FEATURES	GRAIN COLOUR	white		
正	STEM	medium		
ا نے	1000000			
S	LODGING		MR	
RESIST	COLD		MR	
8	CROWN RUST		MR	



IES	HECTOLITRIC WEIGHT	good
	TKW	high
V.	PROTEIN CONTENT	good
O	PURPOSE	forage and grain



Rossella

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

Spelt wheat

FEATURES

HEIGHT	medium-tall
GROWTH HABITUS	alternative
EARLINESS	medium-early

ES	TKW	good 42-54 g
Ę	PROTEIN CONTENT	good
\subseteq	PURPOSE	bread
\cap	• • • • • • • • • • • • • • • • • • • •	

RESISTANCES

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



Giovanni Paolo

Multiple crossings - [2008]

Emmer wheat

FEATURES

i	HEIGHT	medium
,	GROWTH HABITUS	alternative
i	EARLINESS	medium

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

RESISTANCES

5	LODGING		R
)	COLD		R
2	MILDEW		R
5	LEAF RUST		R
-	YELLOW RUST	MR	
	SEPTORIA	MR	



Trivalan

Genealogy unavailable - [2016]



tall
long, curved
medium
mid-alternative

RESISTANCES FEATURES

GROWTH HABITUS	mid-alte	rnative	
LODGING			R
COLD			R
MILDEW		MR	
LEAF RUST		MR	
YELLOW RUST		MR	
SEPTORIA			R

QUALITIES

7	HECTOLITRIC WEIGHT	medium
•	TKW	medium
5	PURPOSE	biomass, grain





Narciso

Genealogy unavailable - [2024]

HEIGHT	tall
EAR	long, curved
EARLINESS	medium
GROWTH HABITUS	winter

RESISTANCES FEATURES

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

IES	HECTOLITRIC WEIGHT	high
Ę	TKW	medium
ΔU	PURPOSE	biomass, grain
\sim		

Sileno

FT723 x Precocius - [2016]



HEIGHT	tall	
EAR	long, curved	
EARLINESS	medium-early	
GROWTH HABITUS	mid-alternative	
LODGING		R

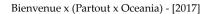
RESISTANCES FEATURES

GROWTH HABITUS	mid-al	lterna	itive	
LODGING				R
COLD				R
MILDEW				R
LEAF RUST				R
VELLOW BUST		NAC.		
YELLOW RUST		MS		
SEPTORIA			MR	



E2	HECTOLITRIC WEIGHT	high
<u>∃</u> [TKW	good
	PURPOSE	biomass, grain

Satiro





FEATURES

2	HEIGHT	medium-tall
5	EAR	medium, erect
	EARLINESS	early
-	GROWTH HABITUS	alternative

ES	HECTOLITRIC WEIGHT	high
Ę	TKW	medium
\subseteq	PURPOSE	biomass, grain
\bigcirc	······	······································

RESISTANCE

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

Etere

Trimour x Amarillo 105 - [2020]



FEATURE!

HEIGHT	medium-tall
EAR	long, erect
EARLINESS	early
GROWTH HABITUS	alternative

ITIES	HECTOLITRIC WEIGHT	high
\vdash	TKW	medium
√NZ	PURPOSE	biomass, grain

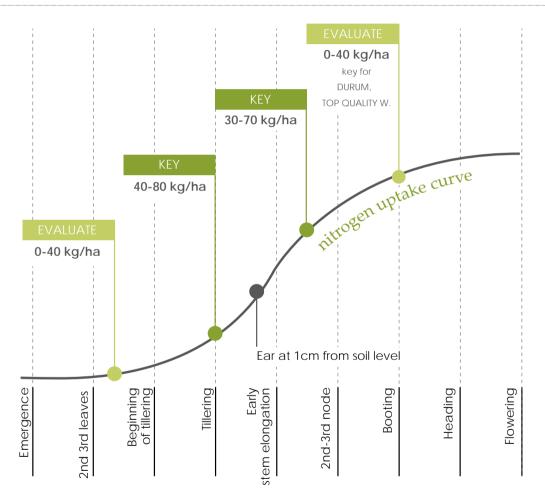
RESISTANCES

		R
		R
	MR	
	MR	
		R
		R

Nitrogen fertilization for straw cereals

Average nitrogen requirement per Ton of grain produced

Species/or quality class	DURUM TOP QUAL. BREAD	HIGH QUAL. 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.

CHICKPEA: crop management

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

SOWING

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.

NUTRITION

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.

WEED CONTROL

In order to speed up the process should conditions be harsh (significant nitrogen deficiency, strong run-off before sowing, crop precessions particularly exploiting), 20-30 units/ha of Nitrogen could be added.

Pre-emergence: - pendimethalin. - pendimethalin + aclonifen.

Post-emergence: pyridate 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.

HARVEST



Alamo

Purpose:food



ES	HEIGHT	medium 60-70 cm
Ę	PLANT	mid-erect
EA.	EARLINESS	medium
正	FLOWER COLOUR	white
	GROWTH HABITUS	alternative

IES	GRAIN TYPE	rough
LTE	TKW	380-470 g
√N;	CALIBER >9	45%
O	CALIBER >8	45%
	CALIBER >7	10%

*average data based on TKW of 420 g

CES	LODGING			R
NC	COLD		MR	
SISTAN	DEHISCENCE			R
SIS	ASCOCHYTA R.		MR	
Щ.				



Faquir Genealogy unavailable

FEATURES

HEIGHT	medium-tall
EARLINESS	medium-late
GRAIN COLOUR	green
GROWTH HABITUS	winter

. 101	LODGING		MR	
א ע	COLD			R
	DEHISCENCE			R



HECTOL. WEIGHT good 220-240 g PROTEIN CONTENT good grain, food **PURPOSE**

Furious

Genealogy unavailable

HEIGHT	medium-tall
EARLINESS	medium
GRAIN COLOUR	yellow
GROWTH HABITUS	winter

. 101	LODGING		MR	
א ע	COLD			R
	DEHISCENCE			R

HECTOL, WEIGHT	high
TKW	190-230 g
PROTEIN CONTENT	good
PURPOSE	grain

LG Auris

Genealogy unavailable

TURES	HEIGHT	medium
٩TU	EARLINESS	medium-early
FE/	GRAIN COLOUR	yellow
	GROWTH HABITUS	alternative

LODGING		MR	
COLD			R
DEHISCENCE			R





HECTOL, WEIGHT	high
TKW	200-240 g
PROTEIN CONTENT	good
PURPOSE	grain





Galactic

Genealogy unavailable

FEATURES HEIGHT

medium EARLINESS early GRAIN COLOUR yellow alternative **GROWTH HABITUS**

LODGING	MR	
COLD		R
DEHISCENCE		R



HECTOL, WEIGHT good 200-240 g good PROTEIN CONTENT **PURPOSE** grain

Peps

Genealogy unavailable

HEIGHT medium medium **EARLINESS** GRAIN COLOUR green GROWTH HABITUS spring

LODGING		MR
COLD		MR
DEHISCENCE		



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

Poseidon

Genealogy unavailable

HEIGHT medium **EARLINESS** medium GRAIN COLOUR green GROWTH HABITUS spring

MD	
MR	
MR	
	MR



	HECTOL, WEIGHT	high
	TKW	230-270 g
)	PROTEIN CONTENT	good
	PURPOSE	grain, food





Irena

Fava bean

IERI	HEIGHT	medium
RATTE	EARLINESS	early
CAF	GRAIN COLOUR	light-brown
	FLOWER COLOUR	white
	COLD	R

ΠÀ	TKW	high 550-700 g
UALIT,	PROTEIN CONTENT	good
O	ANTINUTR. FACTORS	low
	PURPOSE	animal feed
	l	······································

Prothabat

Fava bean

HEIGHT medium

EARLINESS early

GRAIN COLOUR light brown

FLOWER COLOUR white

COLD MR

Η	TKW	high 550-700 g
NAL	PROTEIN CONTENT	good
O	ANTINUTR. FACTORS	medium
	PURPOSE	animal feed



Lorenzo

Common vetch

HEIGHT	medium-tall
EARLINESS	medium-early
GRAIN COLOUR	branched
FLOWER COLOUR	purple pink

ĮΙ	TKW	medium
NAI	PURPOSE	forage, cover crop
\circ		

Villotta

Hairy vetch

<u>-</u>	HEIGHT	medium
CARALIER	EARLINESS	medium
Ę)	GRAIN COLOUR	very branched
	FLOWER COLOUR	blue
	COLD	R



ΠÀ	TKW	low
JUAL	PURPOSE	forage, cover crop

MR





Realfieno

Purpose: hay, pasture, cover crop

Forage mixtures

FEATURES

HEIGHT	medium-tall
EARLINESS	medium
GROWTH HABITUS	winter
REGROWTH	high

IES	late dactylis glomerata	30%
UALITIES	LATE FESTUCA ARUNDINACEA	20%
√.	PERENNIAL TETRAPLOID LOLIUM	15%
O	PERENNIAL DIPLOID LOLIUM	10%
	PHLEUM PRATENSE	10%
	TRIFOLIUM PRATENSE	10%
	trifolium repens (white clover)	5%

RESISTANCES

LODGING		R
COLD		R

Italturbo

Purpose: hay, silage

Raygrass mix

FEATURE

HEIGHT	tall
EARLINESS	medium-late
GROWTH HABITUS	winter
REGROWTH	good

LITIES	TETRAPLOID LOLIUM ITALICUM	50%
Ę	DIPLOID LOLIUM ITALICUM	30%
Ν	tetraploid lolium westervoldicum	20%

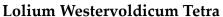
RESISTANCES

LODGING			R
COLD		MR	



Peleton

Purpose: hay, silage





H SES	EIGHT	tall
EATUR	iem dimension	medium

LODGING		MR	
COLD			R

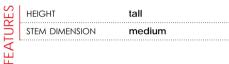
IES	EARLINESS	late	
Ę	GROWTH HABITUS	alternative	
ZUA	REGROWTH	high	

Galactico

Purpose: hay, silage

RESISTANCES

Lolium Westervoldicum Tetra



ES	LODGING		MR	
ANC	COLD			R
ΙA				
RESIST/				
RE				

ES	EARLINESS	early
Ę	GROWTH HABITUS	alternative
∇	REGROWTH	low

Surrey Nova

Purpose: hay

Lolium Westervoldicum Diplo

(ES	HEIGHT	tall	
₫	stem dimension	thin	
4	•		

ý	LODGING		R
2	COLD		R

IES	EARLINESS	early
	GROWTH HABITUS	alternative
∇	REGROWTH	low
\cap	•	***************************************



Super OM

Purpose: hay and silage





Awnless barleys blend

ļ	HEIGHT	tall
5	EARLINESS	early
5	GROWTH HABITUS	alternative

LITIES	TWO ROWS AWNLESS BARLEY	60%	50%	
OUA	SIX ROWS AWNLESS S	40%	о. 5 0%	

	LODGING		MR
)	COLD		MR
	MILDEW		MR
5	NET BLOTCH		MR
:	RHYNCHOSPORIUM		MR



Super TM

Purpose: hay and silage





Awnless triticales and wheats blend

j	HEIGHT	very tall
5	EARLINESS	medium
1	GROWTH HABITUS	alternative

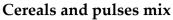
IES	AWNLESS SOFT WHEAT		30%	ş	29%	
UALITIES	AWNLESS TRITICALE TALL SIZE	weight	35%	of seed	35%	
O	AWNLESS TRITICALE VERY TALL SIZE		35%	no	36%	

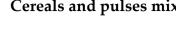
ű	LODGING		MR	
2	COLD			R
1	MILDEW			R
2				



Mantova Pro

Purpose: hay and silage







NO	WHEAT		74%	S	70%	
SITIO	OAT	ght	13%	see	17%	
MPC	VETCH	wei	13%	<u>.</u>	13%	
SON						

IST.	LODGING		R
RES	COLD		R

^{*}average analysis data on silage

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

Silos Pro

Purpose: silage

Cereals and pulses mix

URES	HEIGHT	tall
ATU	EARLINESS	medium
Æ	GROWTH HABITUS	winter

O	WHEAT		22%	qs	40%
SITIO	VETCH	ght	10%	see	10%
MPC	TRITICALE	wei	16%	o.	25%
Ö	PEA		52%		25%

. 101	LODGING		R
א ער	COLD		R

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

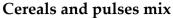
^{*}average analysis data on silage

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



Loietto Pro

Purpose: hay and silage







N O	WHEAT	60%	Sp	31%
SITI	OAT TAO	15%	see	10%
1PC	VETCH ₹	15%	o.	8%
Ö	RAYGRASS	10%	5	51%

RESIST.	LODGING		MR	
RES	COLD			R

	DM	35,0	[%]
	PROTEIN	12,0	[%DM]
	FAT	2,5	[%DM]
)	ADF	28,0	[%DM]
	ADL	4,1	[%DM]
•	NDF	52,0	[%DM]

^{*}average analysis data on silage after 1 withering day

O	ASH	7,5	[%S.S.]
SITI	LACTIC ACID	1,6	[%S.S.]
OMPOSITIO	ACETIC ACID	0,5	[%S.S.]
Ö	AMMON. NITROGEN	2,9	[%Nsol/Ntot]
O	PH	4,0	•••••••••••••••••••••••••••••••••••••••
	NDF DIGEST. AT 30H	58,0	[%NDF]

Trilo Pro

Purpose: green forage, hay and pasture

Cereals and pulses mix

RES	HEIGHT	medium-tall
ATU	EARLINESS	medium
Ħ	Growth Habitus	winter

ON	WHEAT	30% <u>~</u>	3 11%
SITIO	OAT TAO	35% g	19%
OMPC	VETCH ₹	15%	4%
Ö	RAYGRASS	10%	36%
O	EGYPT.+CRIM. CLOVER	10%	30%

SIST.	LODGING		MR	
RES	COLD			R

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

^{*}average analysis data on silage after 1 withering day

TIES	ASH	9,0	[%S.S.]
ALI	NDF DIGEST. AT 30H	55	[%NDF]
O	SOLUBLE PROTEIN	45	[%Nsol/Ntot]



Akenaton

Berseem clover

KE C	HEIGHT	tall
2	EARLINESS	medium-early
7	FLOWER	white flower head

IST.	COLD DISEASES	MR
RES	DISEASES	MR

IIES	REGROWTH	very fast
A	PRODUCTIVITY	high
	PURPOSE	green forage, hay,
		nasture

Maremma

Berseem clover

7 1 1	HEIGHT	tall
2	EARLINESS	medium-early
5	FLOWER	white flower head

RESIST.	COLD	MR
RES	DISEASES	MR

LITIES	REGROWTH	very fast
JALI	PRODUCTIVITY	high
O	PURPOSE	green forage, hay,
	•	nasture

Redhead

Crimson clover

medium-tall
medium-late
red flower head

IST.	COLD			R
RESI	DISEASES		MR	

TIES	REGROWTH	good up to flowering
ΑĽ	PRODUCTIVITY	high
O	PURPOSE	green forage, hay,
	•	pasture

Squarroso

Squarrose clover

HEIGHT	tall
EARLINESS	medium
FLOWER	white flower head

RESIST.	COLD	MS		
RES	DISEASES		MR	

TIES	REGROWTH	single cut
Ψ	PRODUCTIVITY	high
O	PURPOSE	green forage, hay,
		pasture



La Torre

Selected plants from vogherese landrace - [1994]

FEATURES

PLANT	erect
HEIGHT	medium-tall
stem dimension	medium-thin
BRANCHING	high
EARLINESS	mid-early
DORMANCY	dormient (5-6)
AFTER WINTER REGR.	mid-early

UALITIES	REGROWTH SPEED	very fast
	STEM / LEAVES RATIO	good
	LONGEVITY	high
O	TOLER, TO TRAMPLING	high
	STRESS TOLERANCE	good
	PURPOSE	hay, silage, dehydrated



Isola

Selected plants from vogherese landrace - [2001]

FEATURES

,	PLANT	erect
)	HEIGHT	tall
ì	stem dimension	medium-thin
	BRANCHING	high
	EARLINESS	early
	DORMANCY	dormient (5-6)
	AFTER WINTER REGR.	mid-early

QUALITIE

1	REGROWTH SPEED	fast
į	STEM / LEAVES RATIO	high
5	LONGEVITY	good
)	TOLER. TO TRAMPLING	good
	STRESS TOLERANCE	high
	PURPOSE	hay, silage, dehydrated



Greening Pro

Purpose: hay and silage

Greening

FEATURES

HEIGHT	tall
EARLINESS	medium-late
Growth Habitus	alternative

N	EGYPTIAN CLOVER	5%	s	45%
SITIC	TALL AWNLESS WHEAT 5	24%	еес	20%
OS	OAT TAO	25%	of	24%
MP	PEA	46%	_	11%
CO				

RESISTANCES

LODGING		R
COLD		R

Cover Pro

Purpose: green manure, hay

Cover crop

, L	HEIGHT	medium
5	EARLINESS	early
	GROWTH HABITUS	alternative

N	BLACK OAT		19%	<u>s</u>	32%	
\exists	WILD OAT	ght	20%	eeq	17%	
OS	HAIRY VETCH	wei	26%	of	25%	
\forall	COMMON VETCH		35%	_	26%	
$\overline{}$						

È,	LODGING	MR	
2	COLD		R
◂			

Contacts

CEO Carlo Invernizzi

mob. +39 335 6383 8145 * c.invernizzi@apsovsementi.it

EXPORT MANAGER Cesare Ramponi

mob. +39 344 0871376 * c.ramponi@apsovsementi.it

TECHNICAL SALES AGRONOMIST BALKANS Stevan Popic

mob. +381 697 22 235 * s.popic@apsovsementi.it

Stranhinja Sekulic

mob. +381 697 22 236 * s.sekulic@apsovsementi.it

TECHNICAL SALES AGRONOMIST UKRAINE Mykola Rubinskyi

mob. +380 506 31 72 71 *m.rubinskyi@apsovsementi.it

Ivan Ostapets

mob. +380 50 648 82 95 * i.ostapets@apsovsementi.it

Customer service

Lorena Perini

mob. +39 329 3939568 * l.perini@apsovsementi.it

Nicolò Cervetti

mob. +39 348 7474242 * n.cervetti@apsovsementi.it

Yuliia Kimasova

mob. +39 3371043461 * y.kimasova@apsovsementi.it

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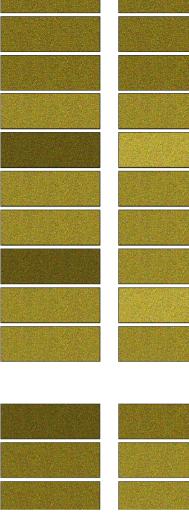
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Apsovsementi s.p.a. strada Torremenapace, 40 27058 Voghera (PV) - ITALY tel. 0383 214437 - www.apsovsementi.it