SHANIYA

G VERY LATE | SILAGE

NEW

- **GOOD LEVEL OF YIELD in all potential conditions**
- **GOOD FEED VALUES thanks to the digestibility of fibers**
- **GOOD CROP INSTALLATION**

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HYBRID STORY

- **GENETIC BACKGROUND:**
  - The female largely used on late silage brings yield stability agronomic insurance & high feed value.
  - The male brings big stay green & plant standability.
- **GOOD LEVEL OF YIELD**
  - in all potential conditions In high potential in south Europe, it makes big potential yield
- **GOOD FEED VALUES**
  - Balance profile of silage with high dNDF level. A better digestibility of the fibers allows to produce more milk/kg of silage.
- **GOOD EARLY VIGOR:**
  - Allows to secure early sowings, and to optimise the yield potential of the field.
- **MARKET POSITIONING: FAO 700 - G segment**
- **TARGET COMPETITORS: LG30703, P2088, PR34D99, KRETIKOS, P1951, SYLUCROSO**

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HYBRID DESCRIPTION

PRODUCT ID .....

Registration: 2018 Italy, 1A-18 TUR, MAR
Maturity: VERY LATE
Use: SILAGE

CHARACTERISTICS .....

Plant height :	HIGH
Ear insertion :	MEDIUM
Type of grain :	Dent
Nr of rows:	16
Nr of grains per row:	38-42
TKW :	360
Flowering(°C):	1070
Silage maturity 32% DRM:	1890

AGRONOMY.....

Early vigor:	9
Stay green :	9
Dry down	7
Helminthosporium :	8
Fusarium (plant):	7
Fusarium (ear):	8
Lodging:	8

FEED VALUE.....

Energie:	8
% Starch:	8
dNDF :	8

COMPETITOR COMPARISON

	PR32D99	SHANIYA	LG30703
Plant height (cm)	340	360	370
Cob height (cm)	160	160	170
Flowering (days)	-1	0	+2

POSITIONNING

	OPTIMAL SOIL	COLD SOIL	FILTER SOIL
Adaptation	++++	++++	++++

GROWING RECOMMANDATIONS

	OPTIMAL	LIMITED
Adaptation	++++	+++
Density Silage	100 000 gr/ha	90 000 gr/ha
Density Grain	90 000 gr/ha	80 000 gr/ha

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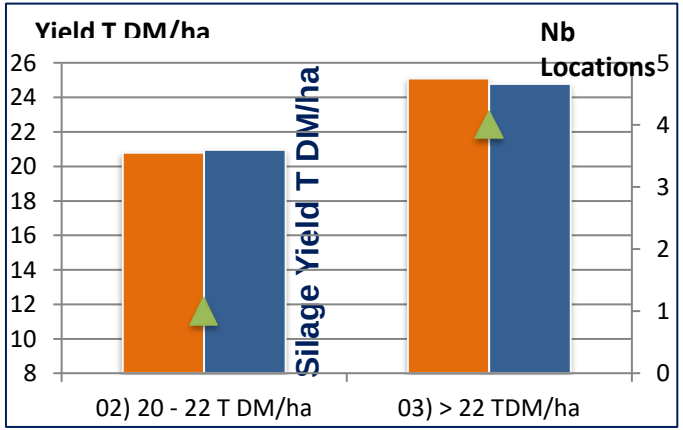
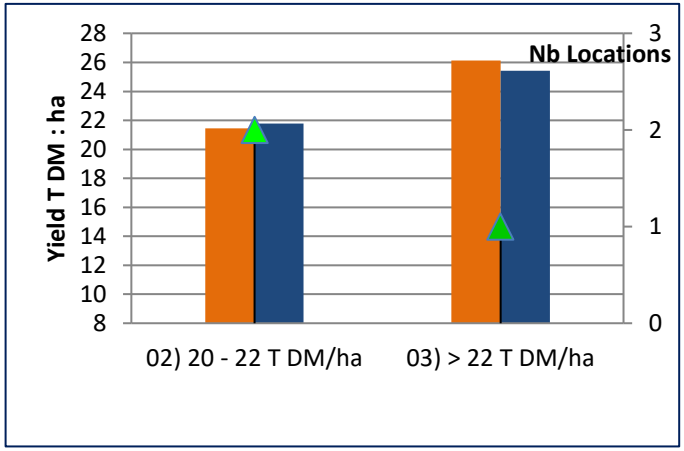
GOOD LEVEL OF YIELD in all potential conditions

An excellent yield everywhere, especially in high potential conditions



Research & development Network MAS Seeds 2016 & 2017 (5 Locations)



Research & development Network MAS Seeds 2018 (3 Locations)

Average of checks

SHANYIA

SHANIYA is at the level of the checks in low to average potentials. The hybrid is upper than the checks in high potential conditions

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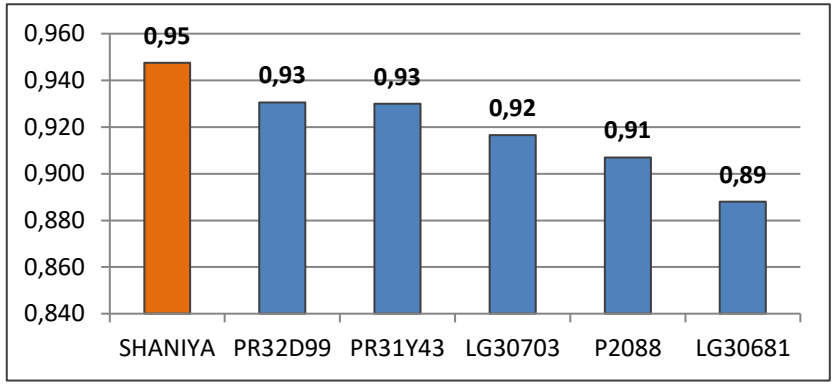
GOOD FEED VALUES
thanks to the digestibility of fibers

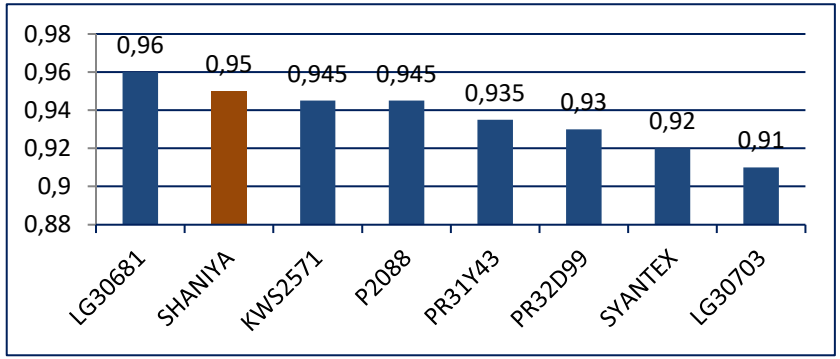
A hig level of UFL compare to best checks

- **Thanks to a very good digestibility of the fibers, SHANIYA has a very high energy content.**
- **This balanced energy hybrid allows an high production of milk and prevent from acidosid**

- 2018 more cobs in the silage stable UFL content for SHANIYA



Research & development Network MAS Seeds 2017 (2 Location)



Research & development Network MAS Seeds 2018 (2 Location)

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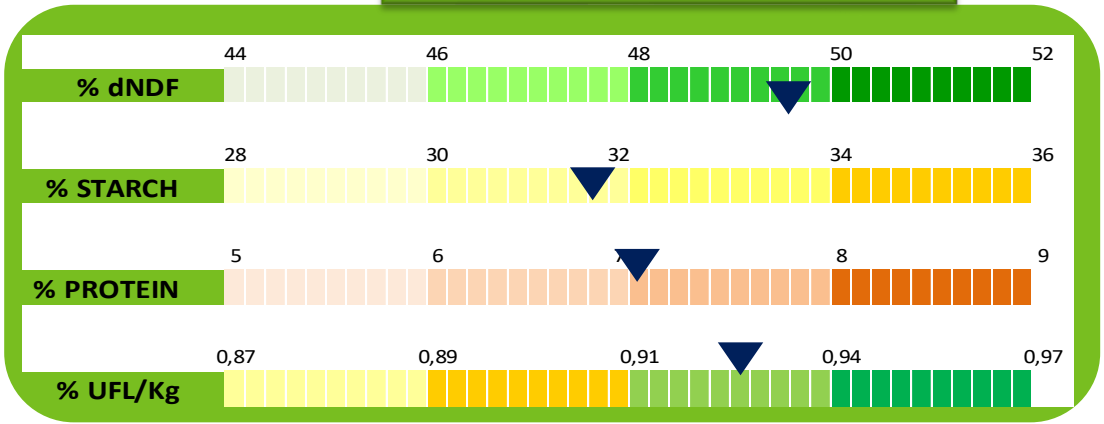
FEED VALUE PROFILE

Balance Energy

Digestibility of SHANIYA



- **Not brings a lot of Starch**

➔ Not Acidogen hybrid

➔ To increase level of starch decrease the densities

- Interesting in diet system with more than 70 % of Corn Silage in the Diet (South Europ)

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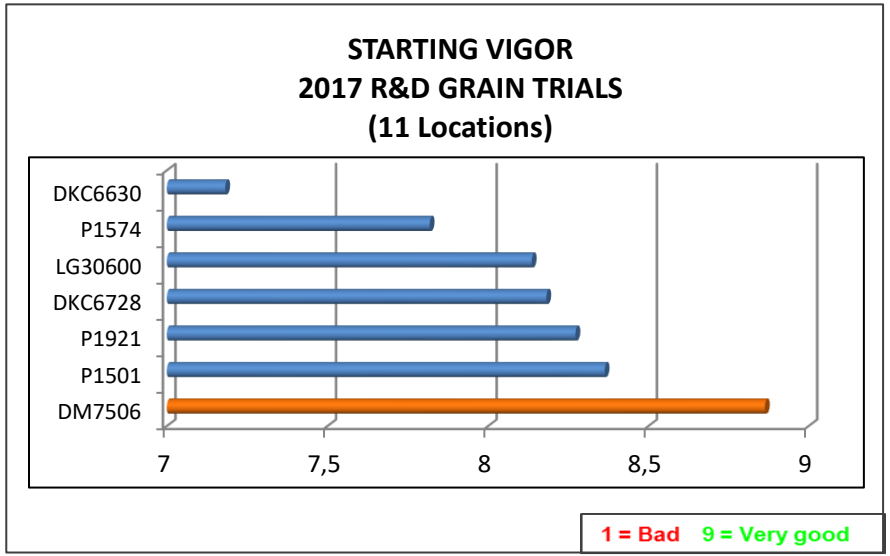
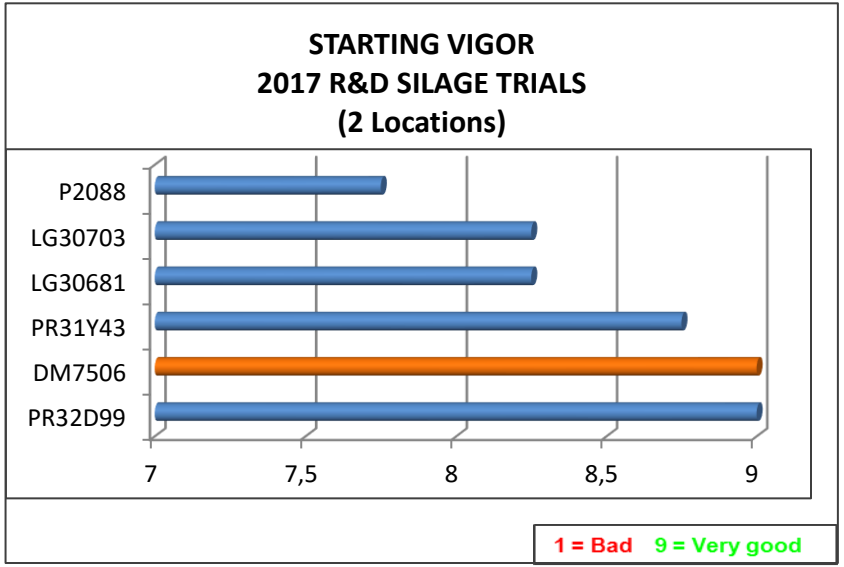
GOOD CROP INSTALLATION





- At young stages of the crop
- The greenest and most homogeneus with erected leaves

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Research & development Network MAS Seeds 2017 (11 locations)

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ANNEX

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SHANIYA

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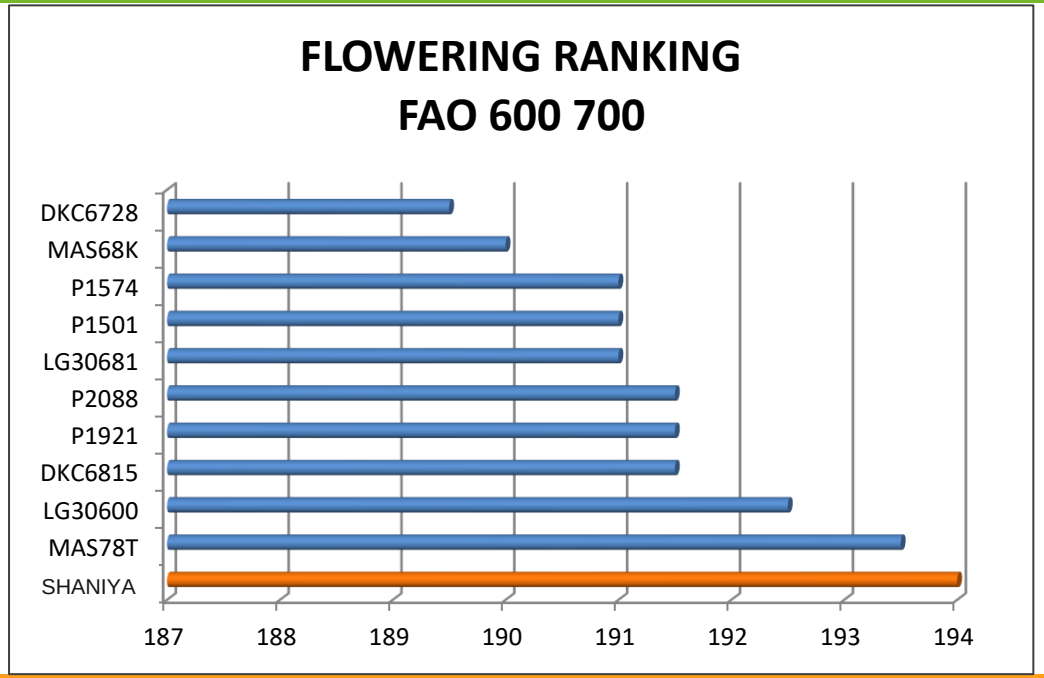
REAL 700 HYBRID



- **Picture of FLOWERING maturity RANKING**
- **SHANIYA a real 700 FAO**

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Research & development Network MAS Seeds 2016 - 2017 (5 locations)

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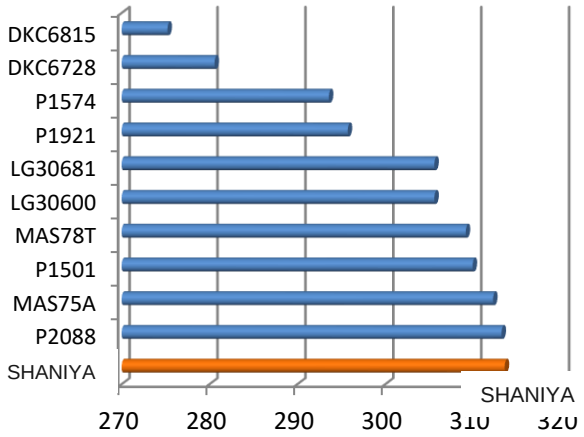
BIG PLANT SIZE with BIOMAS

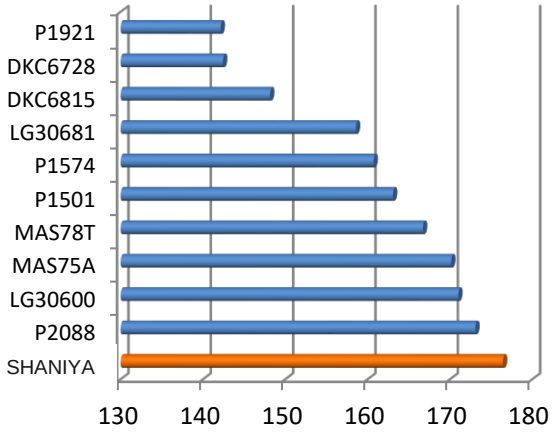
PLANT HEIGTH (cm)

Italy R&D Network (17 Locations)



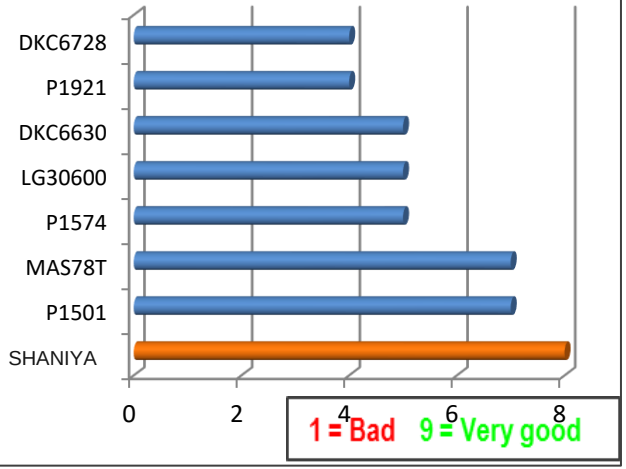
EAR INSERTION (Cm)

Italy R&D Network (17 Locations)



PLANT VOLUME

Italy R&D Network (2 Locations)



Tall Plant STRONG STEM with quite high ear insertion and density of leaves
➔ The typical SILAGE MORPHOLOGY

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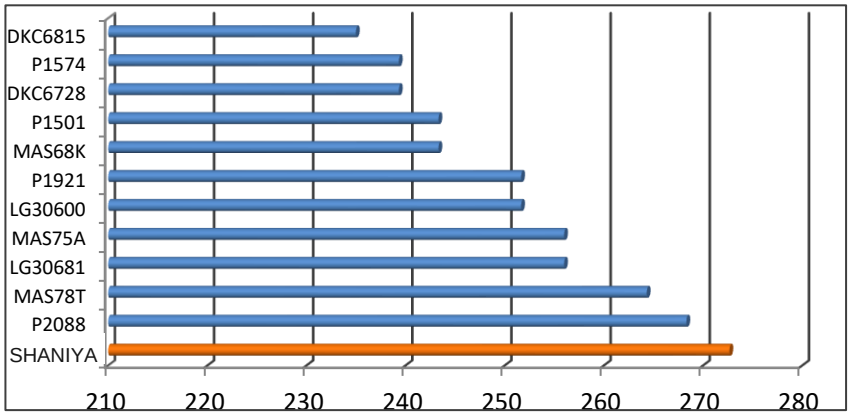
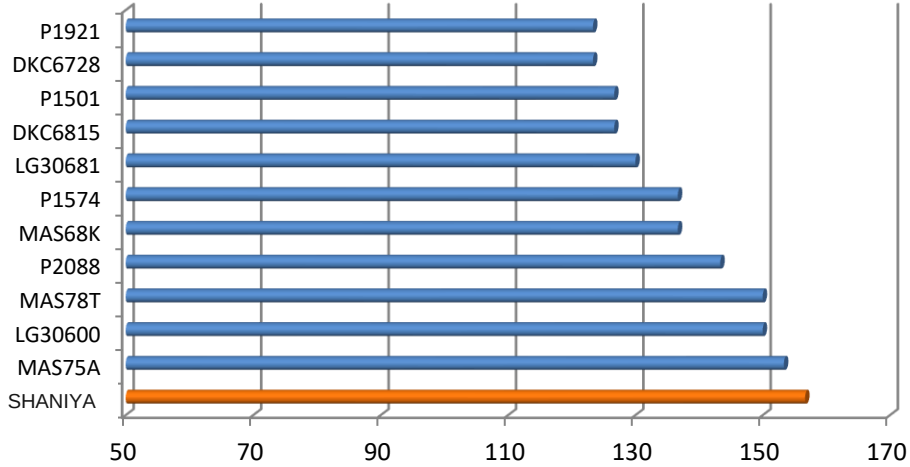
BIG PLANT under HEAT STRESS

PLANT HEIGTH (cm)
R&D Network Spain 2016 (3 Locations)



EAR INSERTION (cm)
R&D Network Spain 2016 (3 Locations)



This plant keeps the size under heat stress & light situations of SOUTH EUROP

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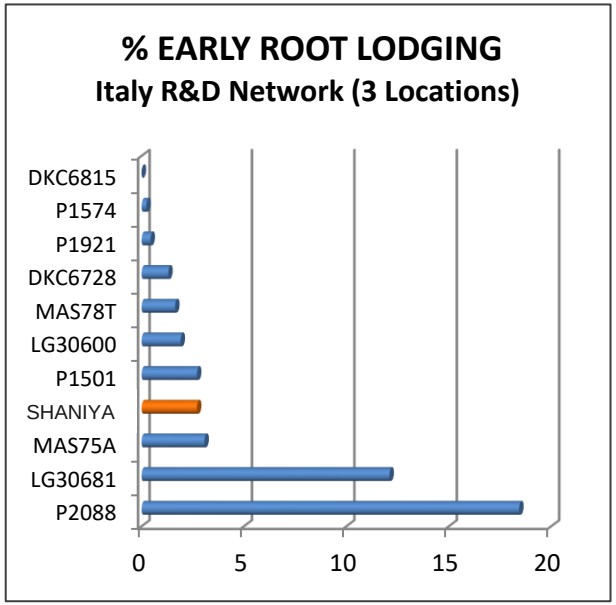
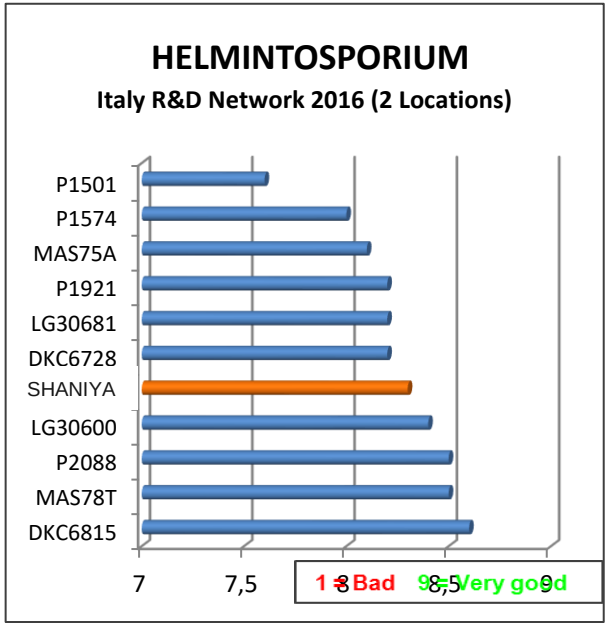
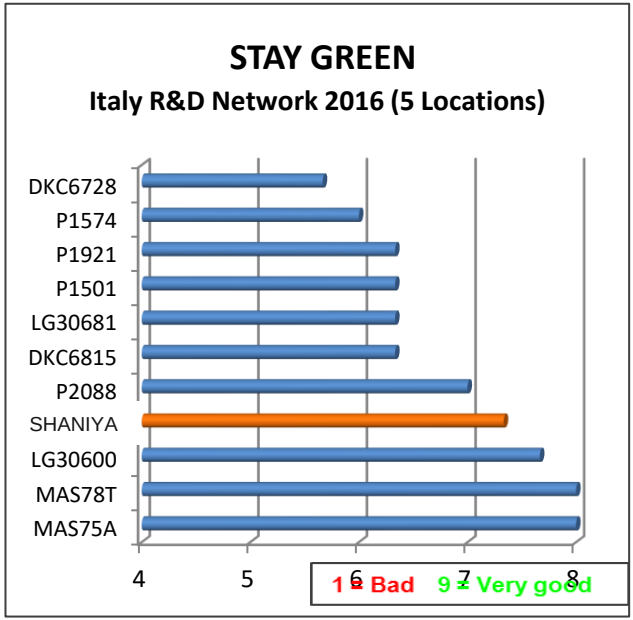
GOOD AGRONOMY

Research & development Network MAS Seeds 2016 - 2017 (5 locations)







- Very good standability under sunmer storms of 2016
  ➔ Allows to save yield.
- Good quality of leaves
  ➔ Allows to save easier the silage quality

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VERY GOOD STAY GREEN

Research & development Network MAS Seeds 2017

And a good stay green and disease tolerance

- To enlarge the harvest windows
- To have a quicker fermentation of the silo and a better conservation to keep the quality
- To have a slow drydown during the harvest period and more green matter and digestible starch on the silo

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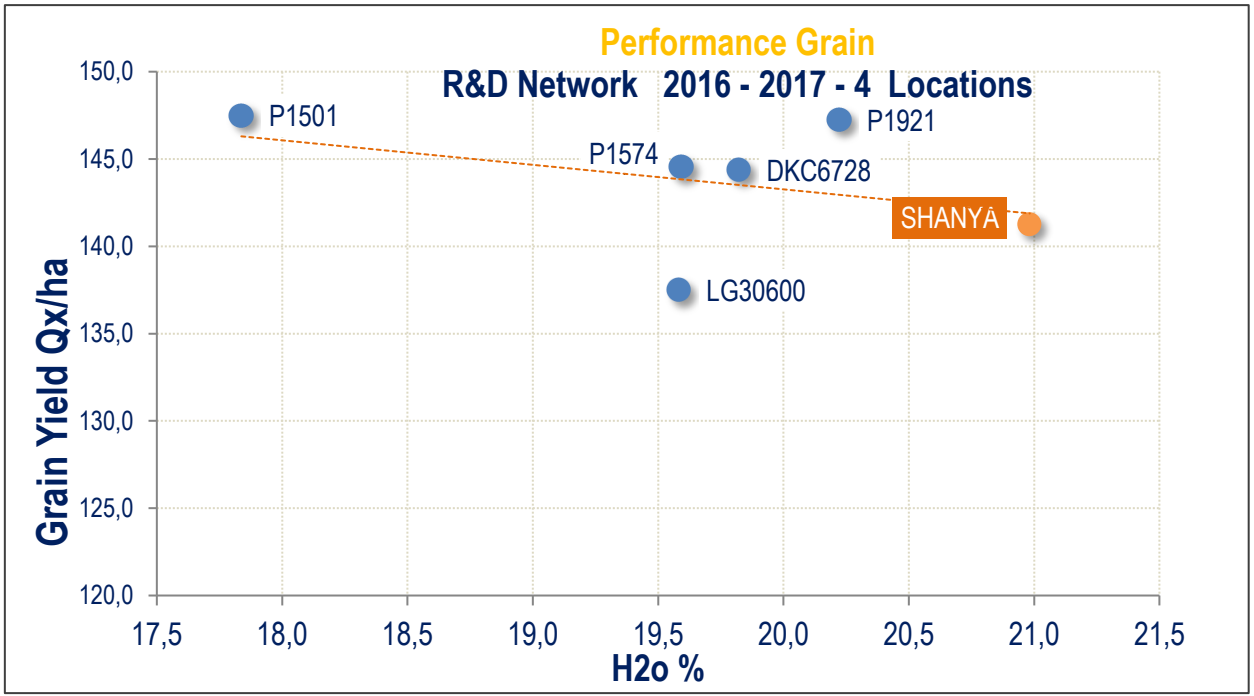
Grain Performance 2016 2017: Lerida, El Temple, BadaJoz (Potential > 130 Qx / ha)



SHANYA:
Very good agronomy
Performance at 3 % of the TOP YIELDING competitors

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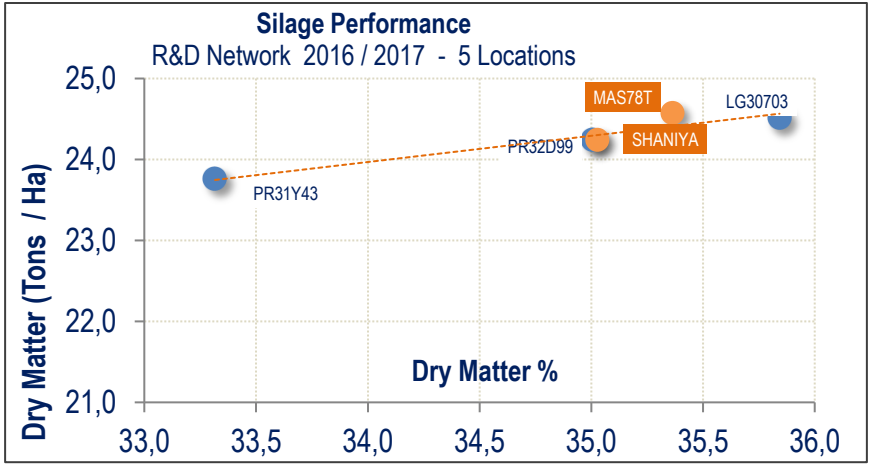
SILAGE in ITALY COMPARING to MAS78T

Research & development Network MAS Seeds 2016 - 2017 (5 locations)

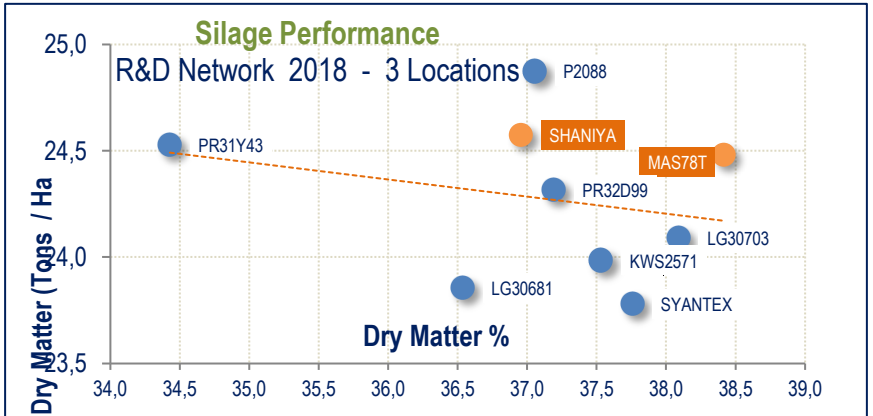


- Close results & behaviour between in 3 Years
- Same Flowering Date

Research & development Network MAS Seeds 2018 (3 locations)

CREMONA

NOVENTA VICENTINA, CASALMORANO



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CONFIDENTIAL

ANNEX

SHANIYA

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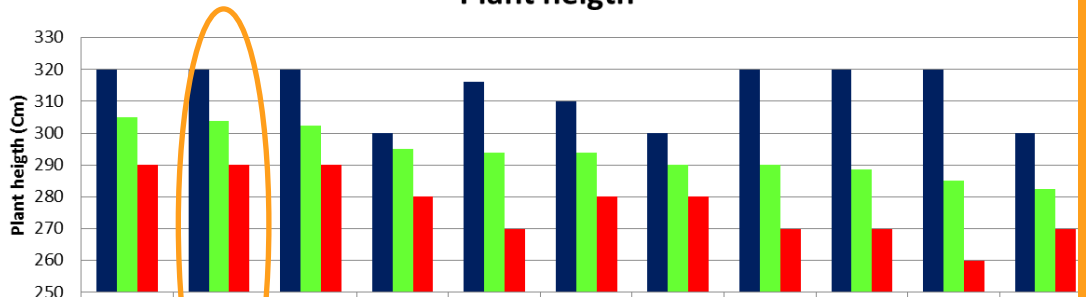
August 2018
AGRONOMIC CONFIRMATION

Research & development Network MAS Seeds Italy 2018

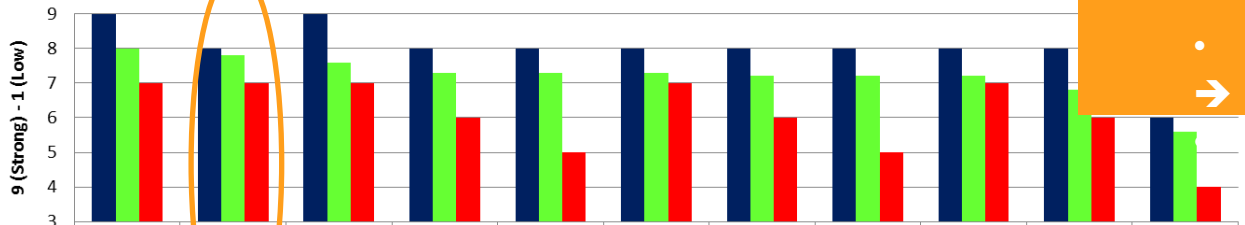
Plant heigth



	PR31Y43	SHANYIA	LG30703	PR32D99	P2088	CALCIO	MAS75A	LG30681	KWS2571	SYANTEX	MAS78T
MAX	320	320	320	300	316	310	300	320	320	320	300
AVG	305	303,75	302,5	295	294	293,75	290	290	288,75	285	282,5
Min	290	290	290	280	270	280	280	270	270	260	270

Research & development Network MAS Seeds Italy 2018

Plant volume



	CALCIO	SHANYIA	PR31Y43	MAS75A	SYANTEX	MAS78T	LG30703	PR32D99	P2088	LG30681	KWS2571
Max	9	8	9	8	8	8	8	8	8	8	6
Avg	8	7,8	7,6	7,3	7,3	7,3	7,2	7,2	7,2	6,8	5,6
Min	7	7	7	6	5	7	6	5	7	6	4

4 R&D Locations & 10 Production fields

➔ **Always same comments:**

- On the highest & strongest plants everywhere: (see charts ranked).
- Even under heat stress & high light intensity of south Italy

➔ **it keeps the volume**

- On the most stay green plant
- Big ear programmation, Can make 2° ear in big situations
- Big plant who never “FILATO”

➔ **Possibilities for intensification**

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POSITIONING & OPTIMISATION

- **NEW GENERATION of VOLUME HYBRID:**
  - Larger adaptation & less sensible to environment conditions
    - CONSTANT PLANT VOLUME
    - PERFECT AGRONOMY
    - LONGER STAY GREEN
    - COB FERTILITY ADAPTED TO STRESS
      - Alaways the same size cobs & double cobs in very favourable growing condition

- **POSSIBILITY of STUDIES to animate 2019 CAMPAIGN:**
  - Early & late sowing
  - Increase & seed density

- **MANAGE our PORTFOLIO:**
  - Keep & continue to developp Mas 78.T on « measured uses »
    - Agronomy quantity of DRM & energy argument
  - Developp SHANIYA in the big volume look segment
    - silage which wants volume agronomy: & fibers.

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SHANIYA

CARACTERISTICS

CRITERIAL	SHANYIA
Early vigor	+
Plant volume	+
Plant size	+
Size & volume stability	+
FAO index	+
Leaves diseases	+
Ldgjing standability	+
NDF	+

POSITION

USE	SHANYIA
Early sowing	+
Late sowing	+
Look value	+
DNDF Need	+
High Yield Silage	+
Later hybrid silage	+

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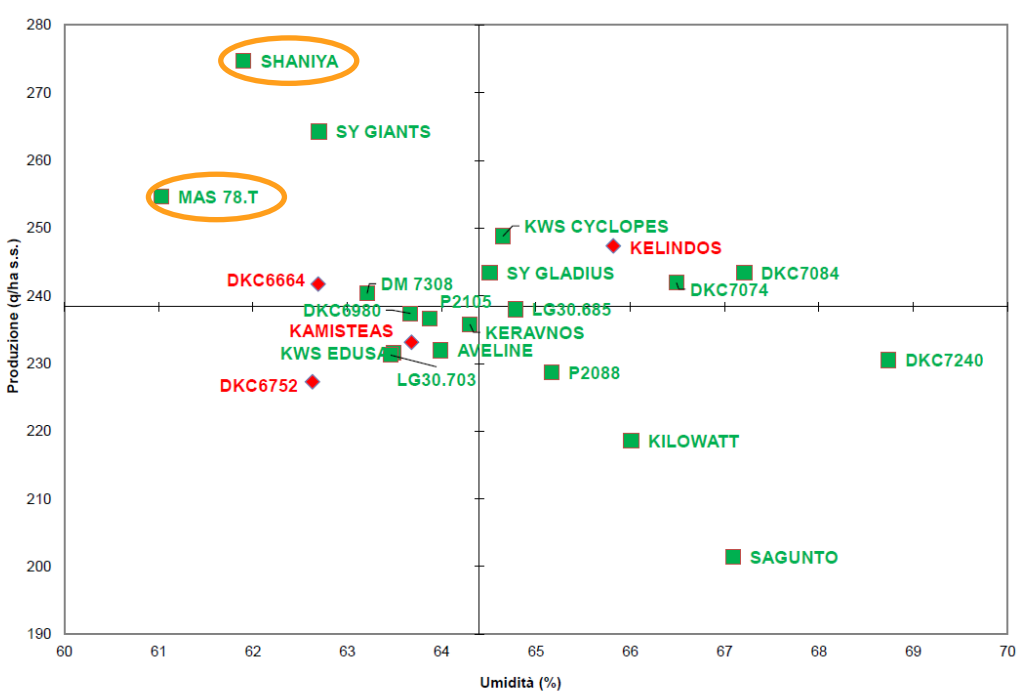
CREA-CI Centro di ricerca Cerealicoltura e Colture Industriali, Sede di Bergamo

Produzione s.s e umidità alla raccolta (media 4 località 2019)



- **SHANIYA 1st silage FAO 700 in Italy official results**