

1ST EUROPEAN SORGHUM CONGRESS

WORKSHOP

CONGRESS INTRODUCTION

SNAPSHOT OF THE EUROPEAN AND GLOBAL STATE OF SORGHUM



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CLASSIFICATION OF SORGHUM

LETS FOCUS ON SORGHUM FOR GRAINS !

Grain Sorghum

Forage Sorghum

Sweet Sorghum



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SORGHUM VS CORN

A MATTER OF QUALITY

Figure : Typical nutrient composition of sorghum compare to corn

	Sorghum	Corn
Dry matter, %	89.0	89.0
Energy, kcal/lb.		
Digestible	1,533	1,598
Metabolizable	1.515	1,551
NE INRA ²	1,188	1,086
NE NRC	1,023	1,086
Crude protein, %	9.2	8.3
Calcium, %	0.03	0.03
Phosphorus, %	0.29	0.28
Available P, %	0.058	0.039
Crude fat, %	2.9	3.9
Linoleic acid, %	1.13	1.92
Crude fiber, %	2.4	2.15
NDF, %	18.0	9.6
ADF, %	8.3	2.8
Total amino acids, %		
Lysine	0.22	0.26
Isoleucine	0.37	0.28
Leucine	1.21	0.99
Methionine	0.17	0.17
Cysteine	0.17	0.19
Threonine	0.31	0.29
Tryptophan	0.10	0.06
Valine	0.46	0.39

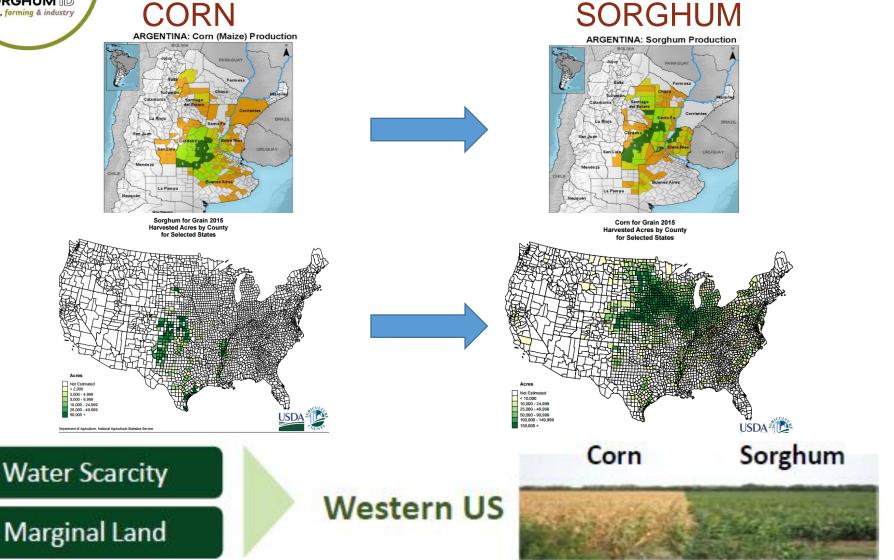
As much energy as corn but more:

ProteinAmino acids

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SORGHUM: AN INTERESTING ALTERNATIVE TO CORN



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MORE BENEFITS TO GET WITH SORGHO THAN CORN IN DRY AREAS

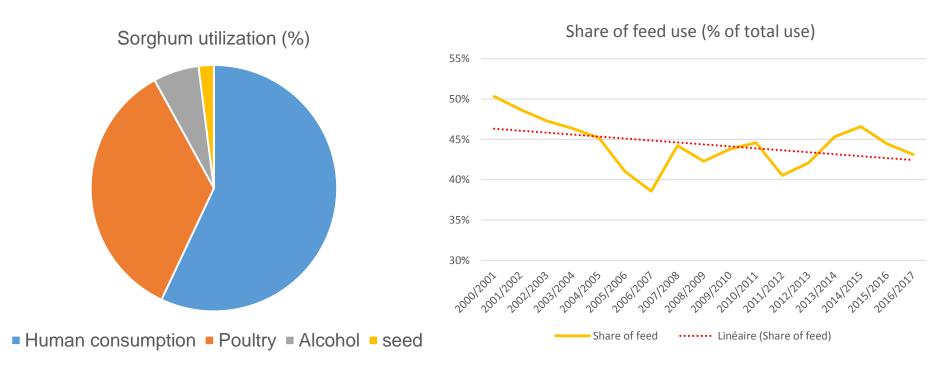
g & industry			NC Kansas Rainfed		
		in	Category	Corn	Sorghum
the second second			Yield (bu/acre)	130	120
	The second		Price per bu	3.83	4.5
Cost Per Bag: \$190	Cost Per Bag: \$300	Cost Per Bag: \$325	Total Revenue	497.90	549.6
Plant Population:	Plant Population:	Plant Population:			
60,000*	28,000*	39,000*	Seed	93.60	18.90
Total Acres: 2,500	Total Acres: 2,500	Total Acres: 2,500	Pesticides	50.01	49.30
2,300		2,500	Fertilizer	119.67	104.03
sorghum seed cost/acre \$14.25	CORN SEED COST/ACRE \$105.00	COTTON SEED COST/ACRE	Machinery &	278.94	268.47
			Other		
			Total	542.22	440.69
		/	Return over Costs	(44.32)	108.90
	TOTAL SE	ED COST			
		\$35,62	25 Sorghum		
\$262,500			Corn		
	\$144,03	34	Cotton		
	\$182,143		Soybeans		

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UTILIZATION OF SORGHUM

MOSTLY USED FOR HUMAN CONSUMPTION



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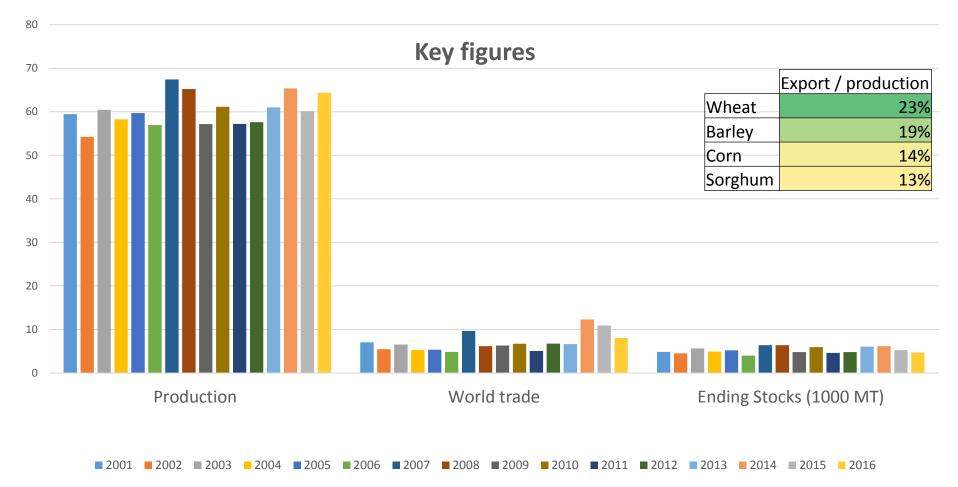
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WHAT ABOUT FUNDAMENTALS?

ONE KEY WORD = STABILITY

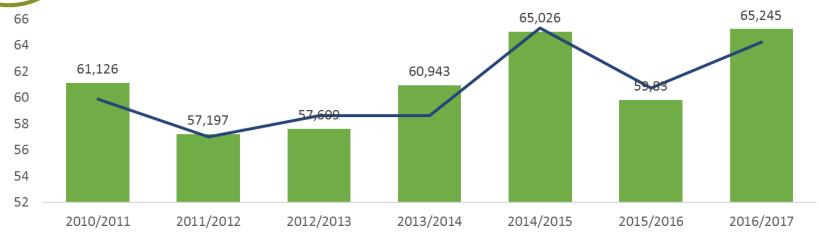


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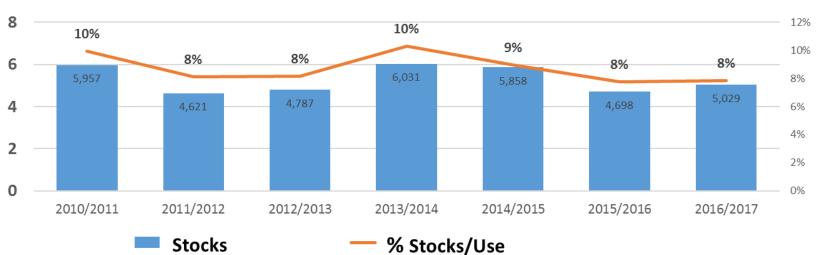
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RECORD OUTPUT IN 2016



Production



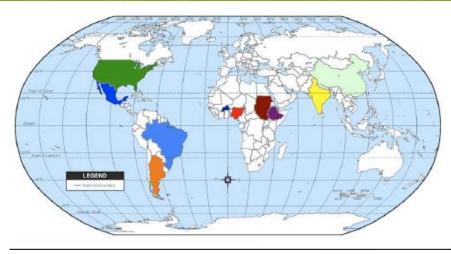


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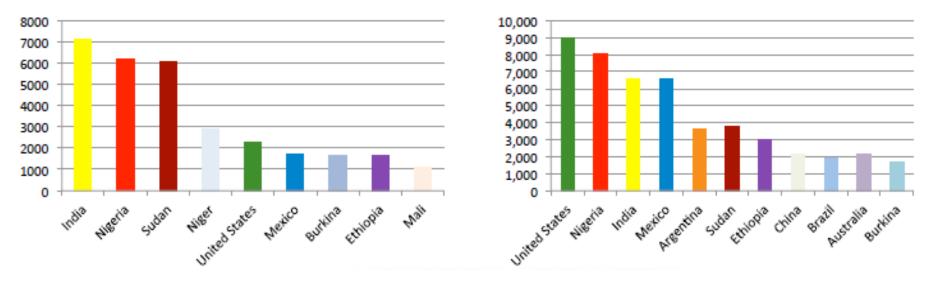
SORGHUM

US AS THE MAIN PRODUCER



Harvested Area (1000 HA)

Production (1000MT)



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SORGHUM

CHINESE AS FIRST CONSUMER

IT SUGGESTS A SIGNIFICANT FLOW OF GOODS

Production (1000 MT)

SORGHUM

1 United States	12,408.00
2 Mexico	6,500.00
3 Nigeria	6,500.00
4 India	5,500.00
5 <u>Sudan</u>	5,500.00
6 Ethiopia	3,700.00
7 Argentina	3,400.00
8 China	3,200.00
9 Australia	2,200.00
10 Brazil	2,000.00

Domestic Consumption (1000 MT)

1 China	8,800.00
2 Mexico	7,200.00
3 Nigeria	6,400.00
4 United States	5,588.00
5 Sudan	5,500.00
6 India	5,400.00
7 Ethiopia	3,650.00
8 Argentina	2,950.00
9 Brazil	1,900.00
10 Burkina Faso	1,800.00





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A BIPOLAR ORGANISATION

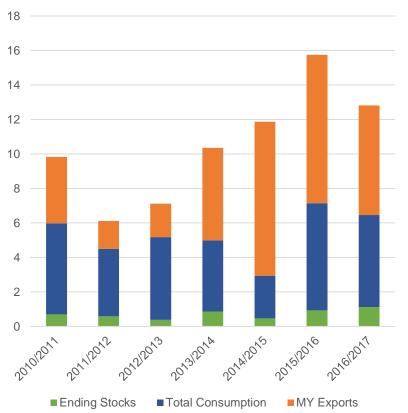
Rank Country	Exports (1000 MT)
73% <u>1 United States</u>	6,350.00
2 Argentina	900.00
3 Australia	900.00
4 Ukraine	150.00
5 Nigeria	100.00
6 India	50.00
7 Kenya	25.001
8 Ethiopia	25.00
9 <u>Brazil</u>	25.001
10 South Africa	25.001
Rank Country	Imports (1000 MT)
69% <u>1 China</u>	5,500.00
2 Japan	730.00
3 <u>Mexico</u>	700.00
4 <u>EU-27</u>	150.00
5 <u>Chile</u>	150.00
6 Kenya	100.00
7 <u>Sudan</u>	100.00
8 Taiwan, Province Of China	
9 <u>Ethiopia</u>	50.00
10 <u>Pakistan</u>	50.00

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US: BUSINESS ORIENTED!

READY TO SACRIFICE THE CONSUMPTION FOR EXPORT



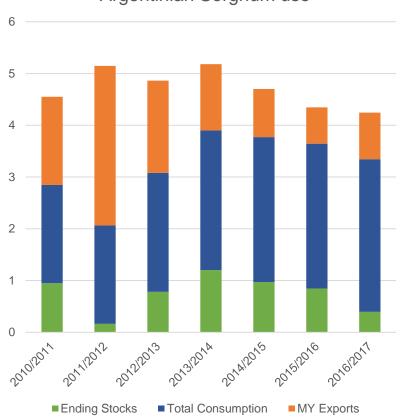
US Sorghum use

- Export oriented production
- Capacity of the US to switch for other coarse grain when the demand for export is increasing



ARGENTINA: LESS PRESENT

REDUCING ITS SHARE ON THE INTERNATIONAL SCENE



Argentinian Sorghum use

- Export volumes are weaker than 1Mt/year
- Stable internal consumption
- Production decline as a explanation for export reduction

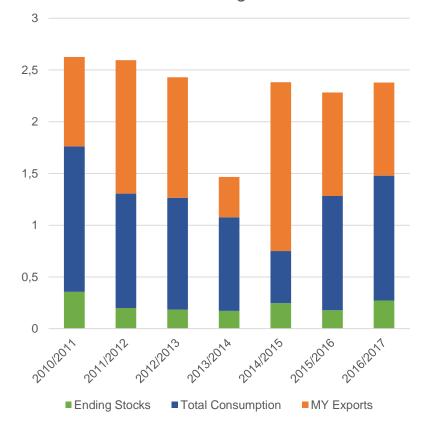
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AUSTRALIA: THIRD EXPORTER

+/- 1MT: STABLE EXPORT

Australian Sorghum use

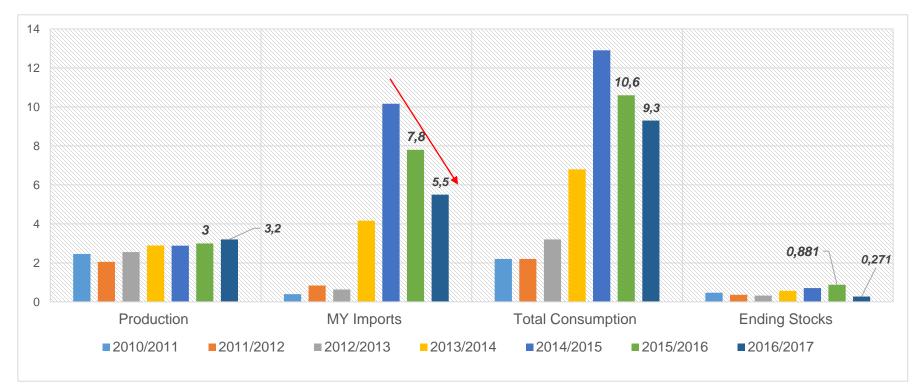


- Weak production
- Significant reducing in case of drought

Ability to be always present on the international scene

CHINA: IMPORT TO BE REDUCED?

REDUCTION OF IMPORTS FOR THE SECOND YEAR IN A ROW



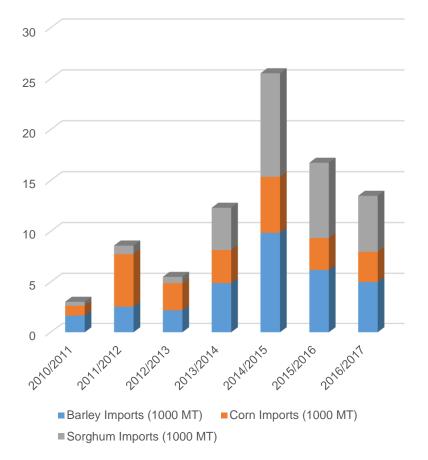
- Weak production
- Significant reducing in case of drought
- Ability to be always present on the international scene

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SORGHUM



LOWER DEMAND FROM CHINA, NOT ONLY FOR SORGHUM

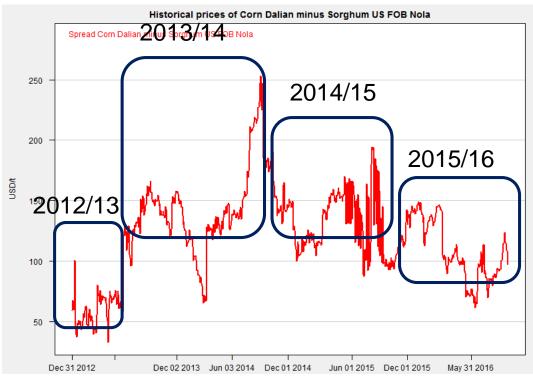


The import of China is reducing because of their willingness to use their internal stocks in order to decrease import needs in feed grains. That's why import needs were voluntarily reduced.



REASONS TO IMPORT RALLY

SPREAD EVOLUTION (CHINA CORN-US SORGHUM)



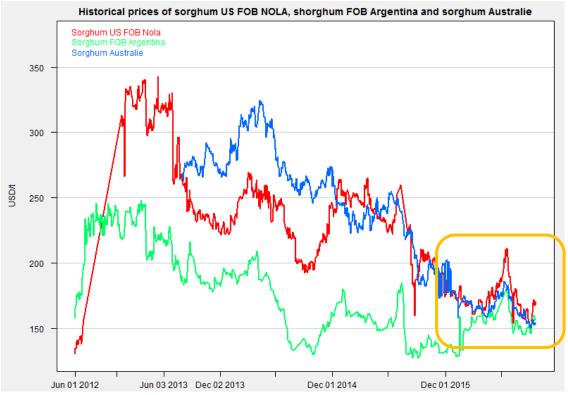
High import of sorghum took place during the seasons when price difference stood at high level.

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MAJOR SORGHUM SUPPLIERS

PRICE COMPARISON AMONGST MAJOR ORIGINS



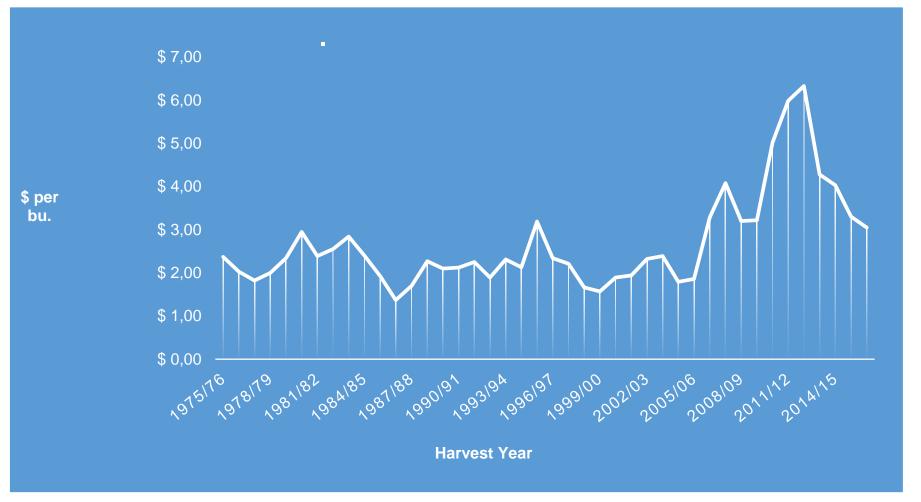
Sorghum price (fob basis) of different origins converged since the removal of export tax in Argentina.

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U.S. AVERAGE SORGHUM

A WELL-KNOW DYNAMIC ...

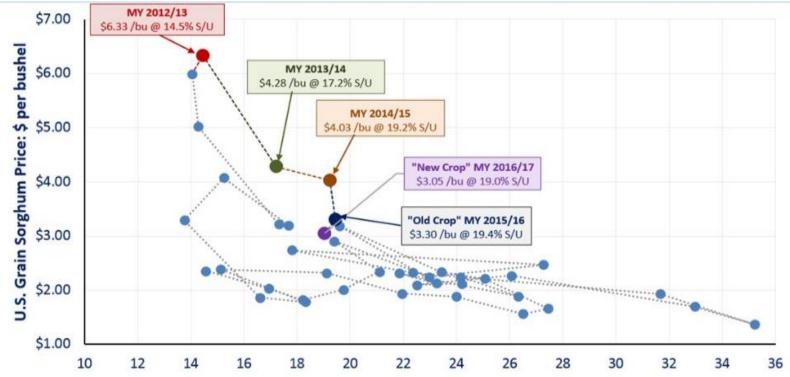


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PRICE FORMATION

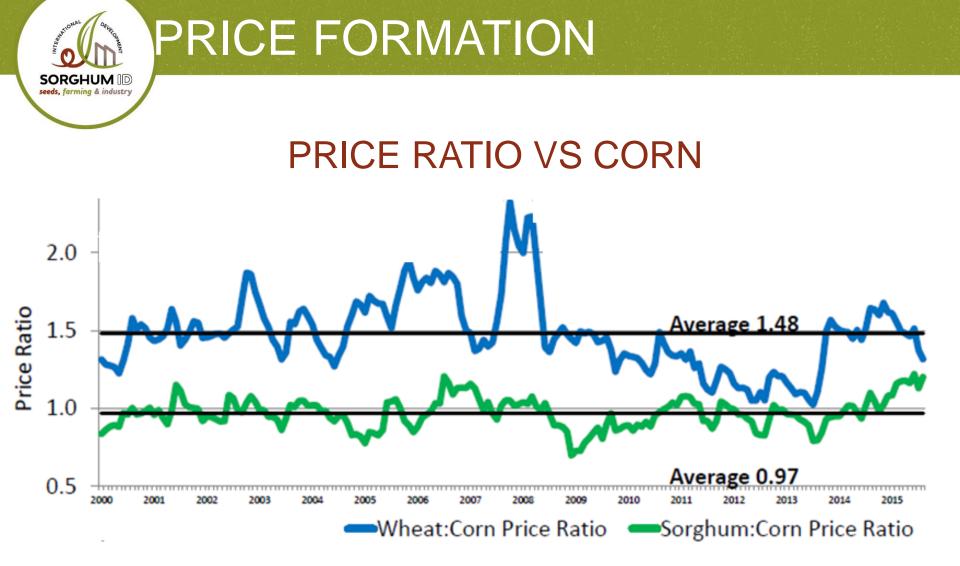
U.S. SORGHUM PRICE VS % U.S. FEED GRAIN STOCKS-TO-USE



Percent World Coarse Grain Stocks-to-Use

Sorghum prices formation largely depending on the availability of feed grains

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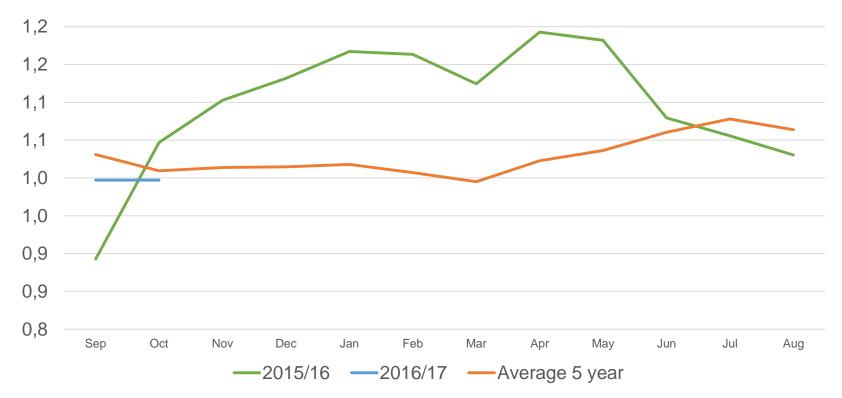
Interesting dynamics for the past three years

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PRICE FORMATION

SORGHUM MORE EXPENSIVE THAN CORN IN US

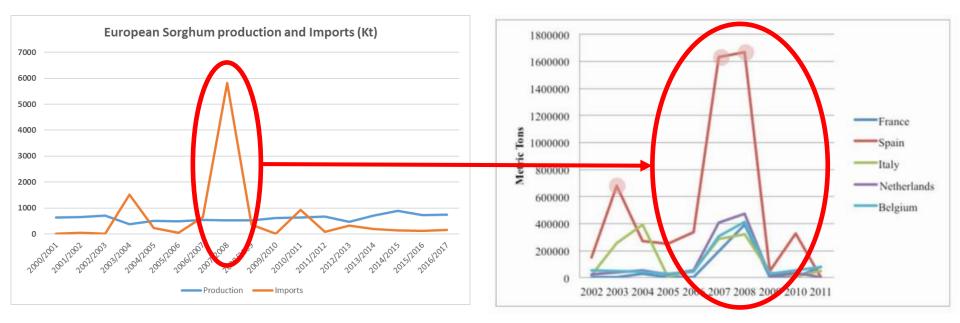


In average, sorghum is more expensive than corn (average of US EXW prices)

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EUROPE: NOT A KEY ACTOR BUT...

READY FOR OPPORTUNITIES



- The 2007/08 event clearly demonstrated the opportunistic behavior of EU.
- Spain as a key importer indicates that sorghum is a good alternative of switch for the feed industry.
- It suggests possible new opportunities for this crop for the future !

SORGHUM



CONCLUSION

- Europe doesn't appear so far to be a key actor in the production as well as in the world trade, but is listening for opportunities
- Sorghum grain production is concentrated in dry areas.
- The global trade is rather concentrated with 3 main exporters and China is from far the hugest importer.
- Good parallel between sorghum and corn prices
- With reducing demand from China, the outlook for prices in middle-term (2016/17) remains not so optimistic as for corn...



THANK YOU VERY MUCH FOR YOUR ATTENTION!

Olivier BOUILLET I Directeur Ukraine



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