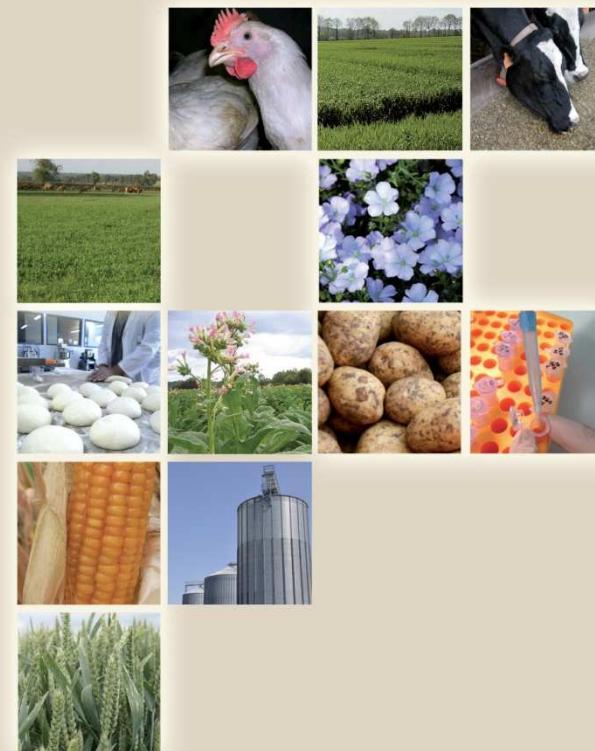




ARVALIS
Institut du végétal





French Bread Wheat Harvest 2016



Autumn 2015 : 95 % bread wheat sown



All indicators very favorable until May

Mild temperatures in autumn and early winter :

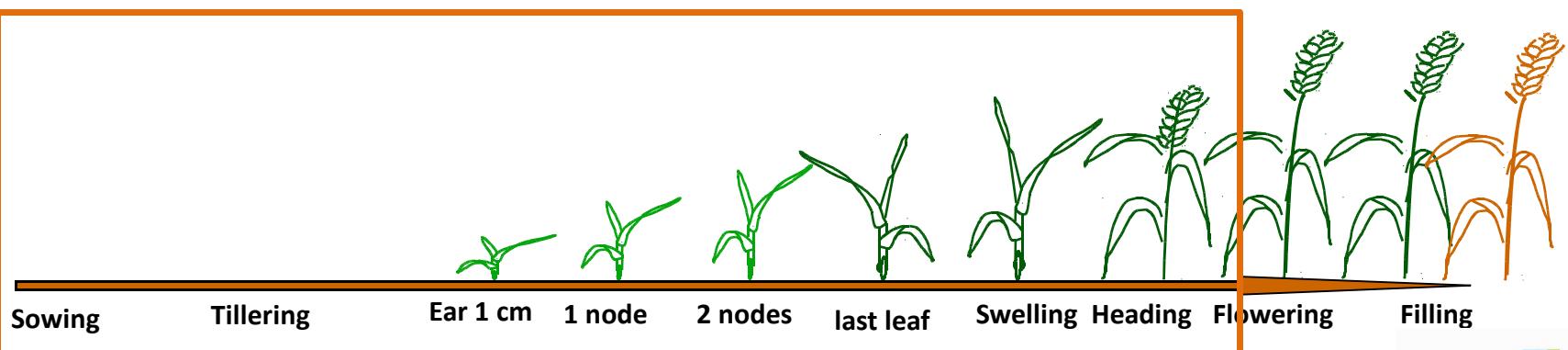
- Rapid growth
- Presence of aphids
- No winter freeze damage
- Weeds developing
- Inoculum of disease (rust)

Cool weather at end of winter and start of spring :

- Slowdown of growth stages
- Difficult weed control
- Biomass and tillering : normal - high
- Some late frosts, very limited consequences

Rainfall episodes in March and April :

- Good nitrogen uptake
- Good ear emergence
- Septoria beginning
- Good water reserves in May
- Exceptions:
 - South East very dry
 - West rather dry

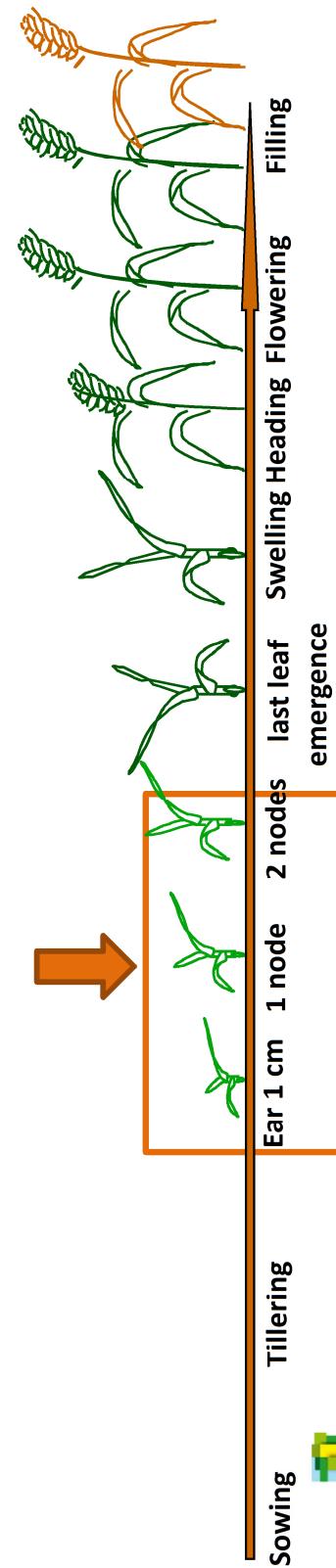
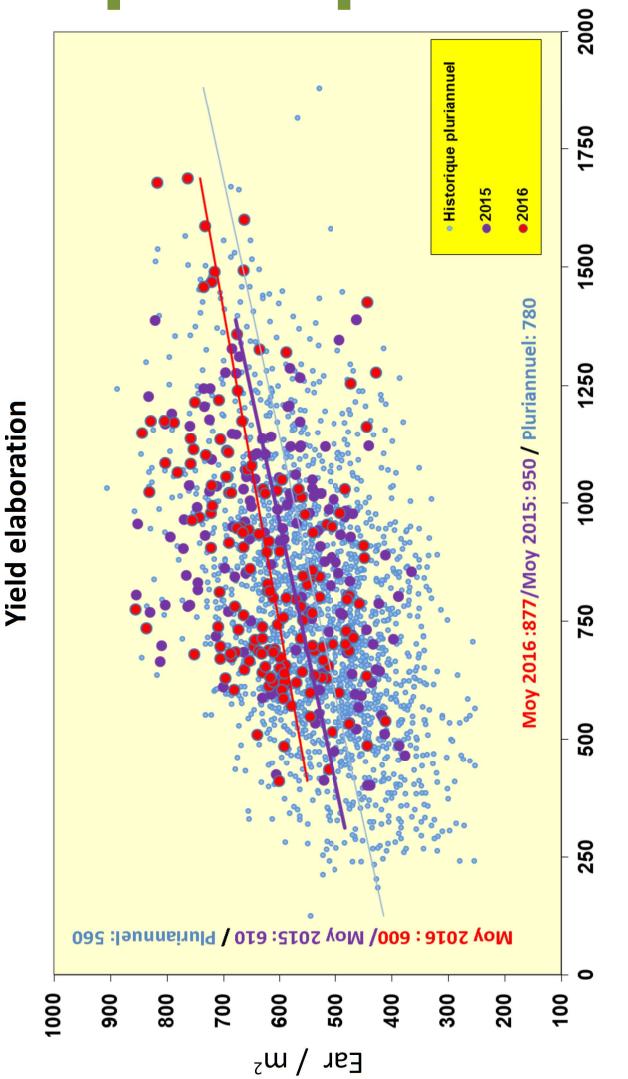


FranceAgriMer

All indicators very favorable until May



- Winter ended well,
with lots of vegetation
- Good tillering, good ear
emergence

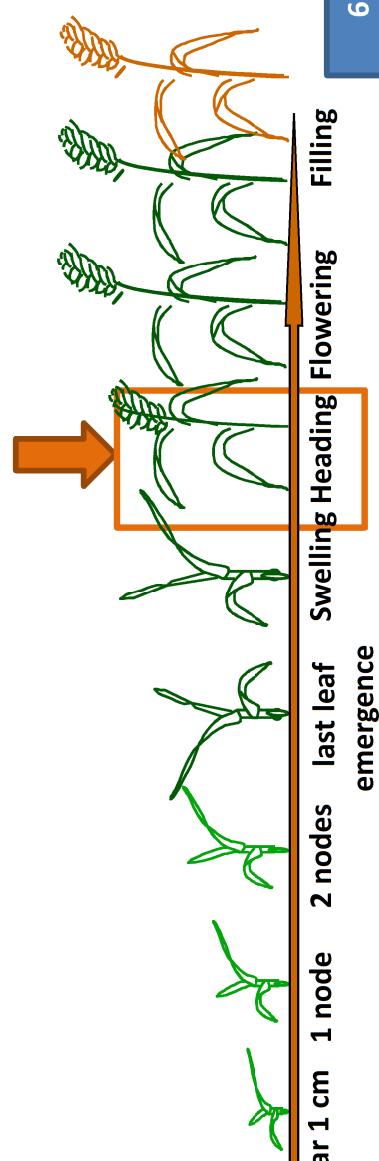
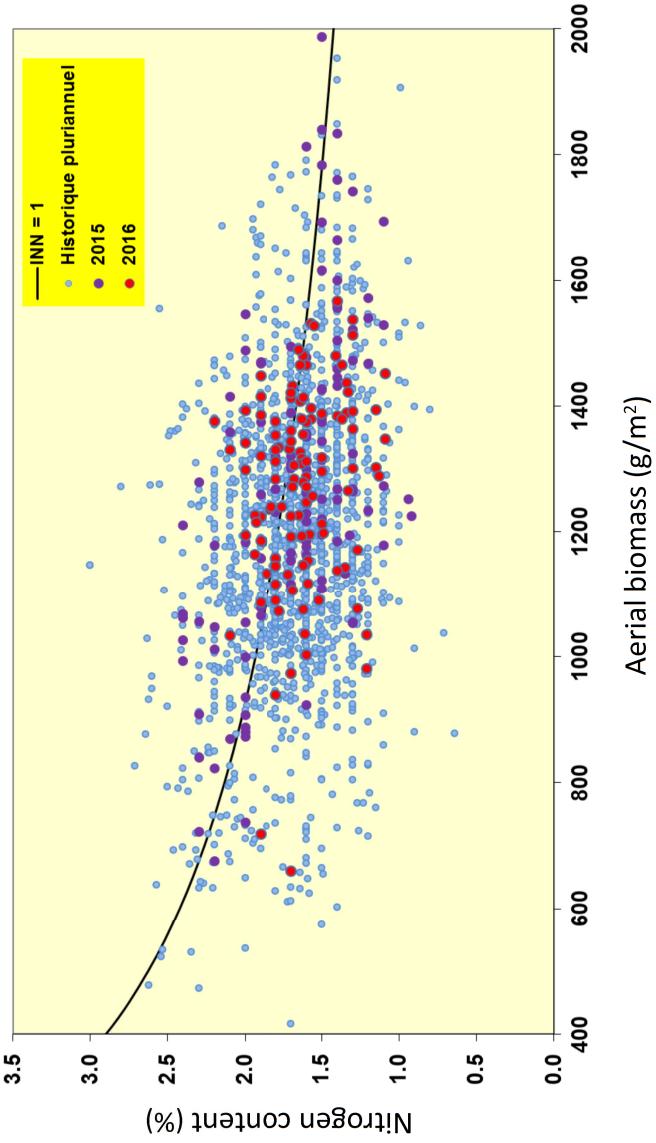


All indicators very favorable until May

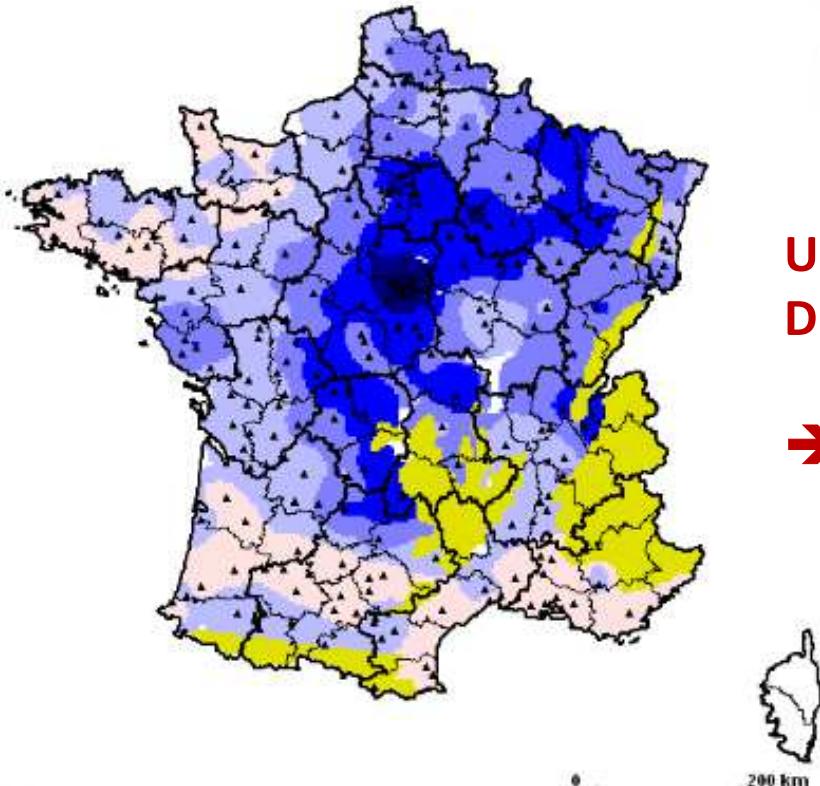


- At the end of May, the situation was favorable :
- optimum N uptake
 - good plant nutrition

Yield elaboration

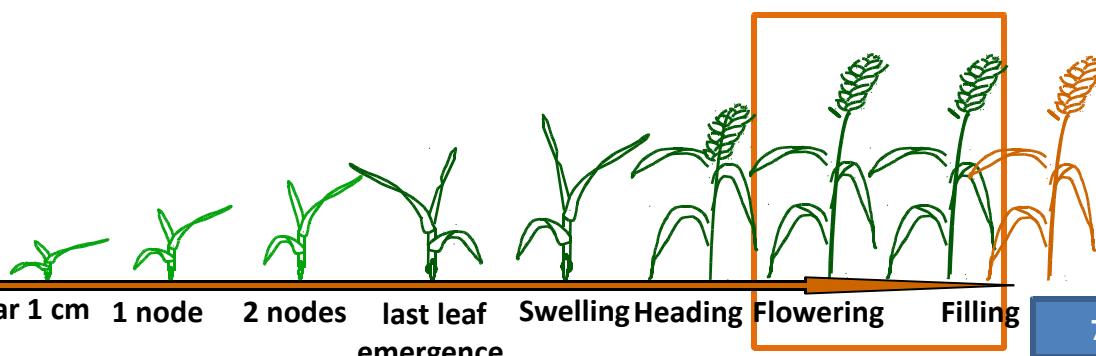


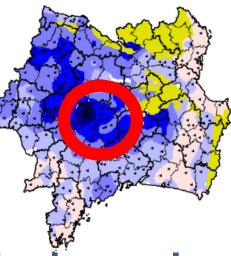
Rainfall +/- 10 days from flowering



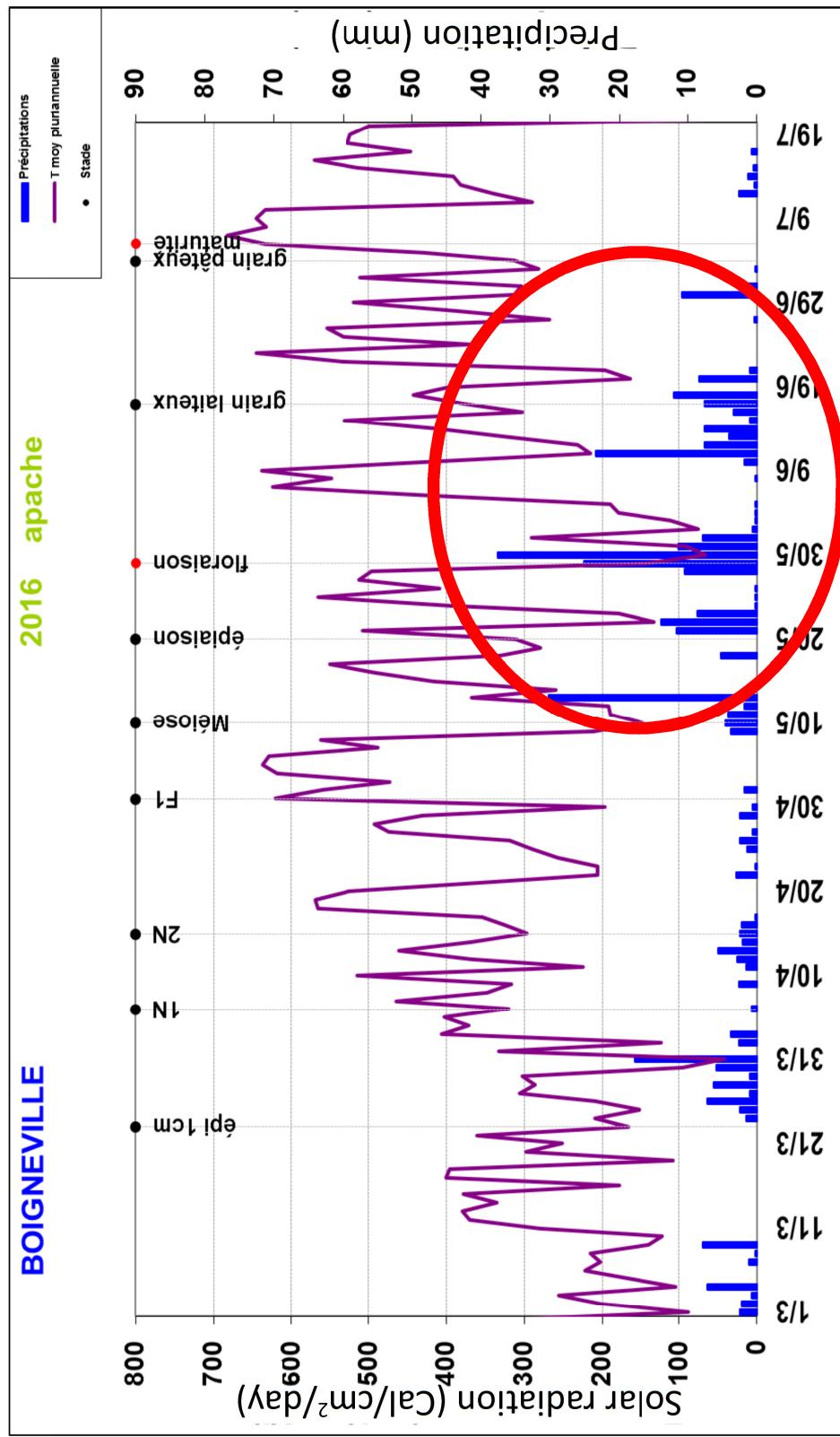
Unusual rain in QUANTITY and
DURATION

→ End of the cycle is strongly disrupted





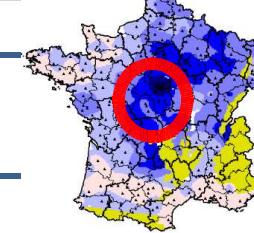
Examples of the center of France and the Parisian Basin



Unusual QUANTITY and DURATION of rain
at flowering... then throughout filling !



Example of the center of France and the Parisian Basin



The flood water came up to the ears !

Cedric Benoist, FDSEA 45



Une parcelle inondée dans le Loiret (FDSEA 45)

Flooding : all agricultural sectors affected in Ile-de-France

Par Lefigaro.fr avec AFP | Mis à jour le 03/06/2016 à 13:29 / Publié le 03/06/2016 à 11:34



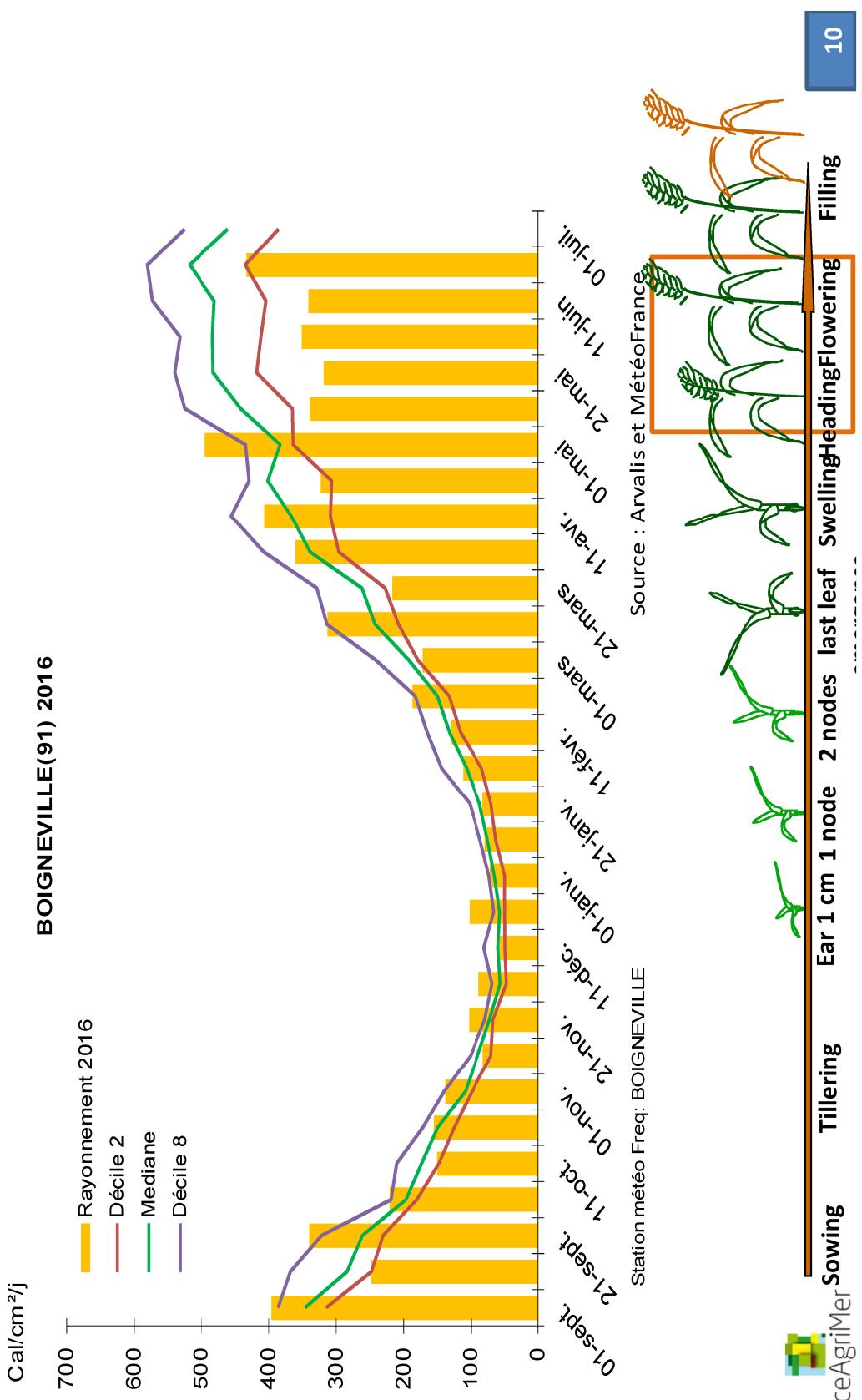
Floods that will stay in our memory.

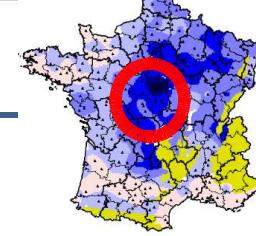




Example of the center of France and the Parisian Basin

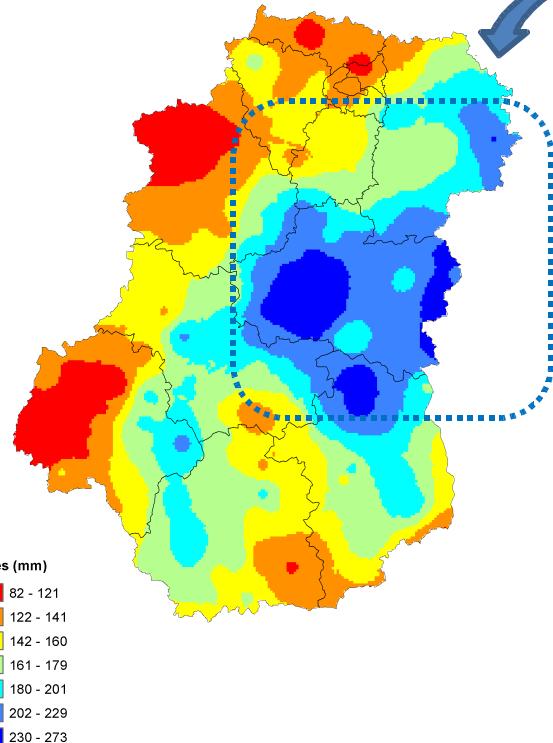
An exceptional sunshine deficit compared to historical levels





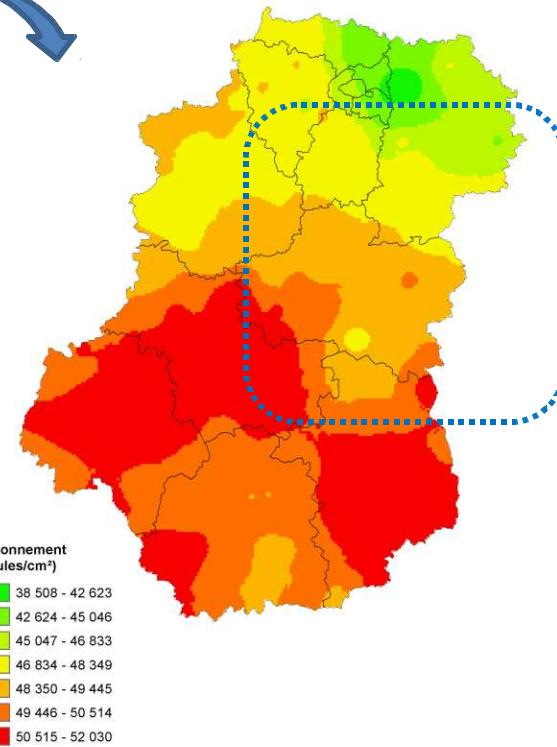
Example of the center of France and the Parisian Basin

Cumul des précipitations du
25/05/2016 au 25/06/2016

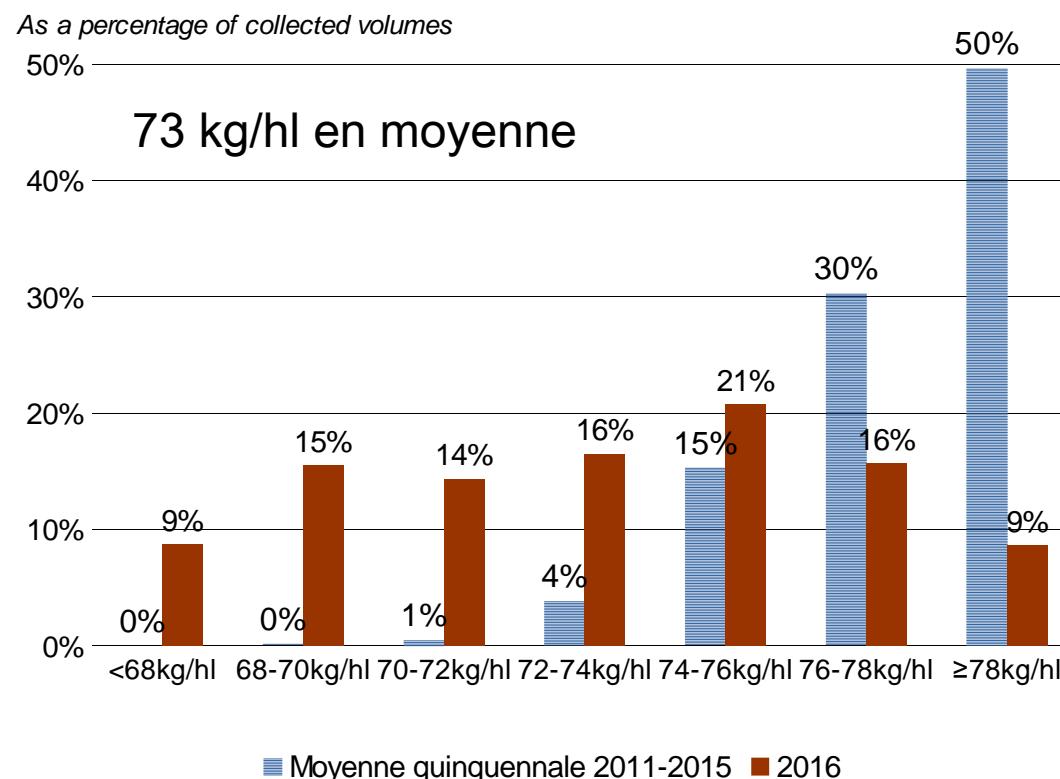


The exceptional rainfall accumulation and the low levels of sunshine overlapped in the most affected areas

Cumul du rayonnement du
25/05/2016 au 25/06/2016



Extreme and historically low Specific Weights for French wheat

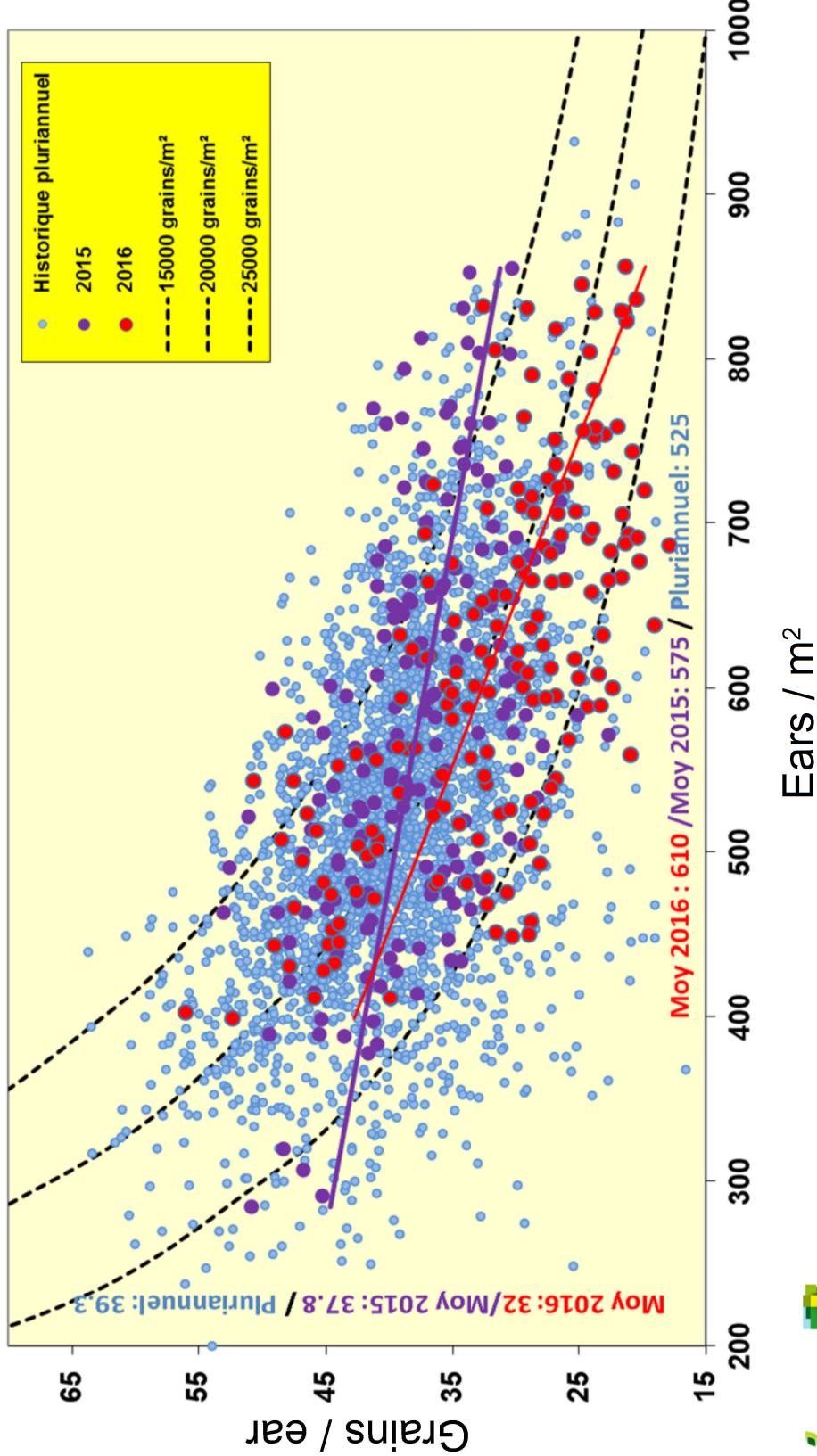


Source : FranceAgriMer / Enquête entrée collecteurs 2016



→ A lack of grains in the ear

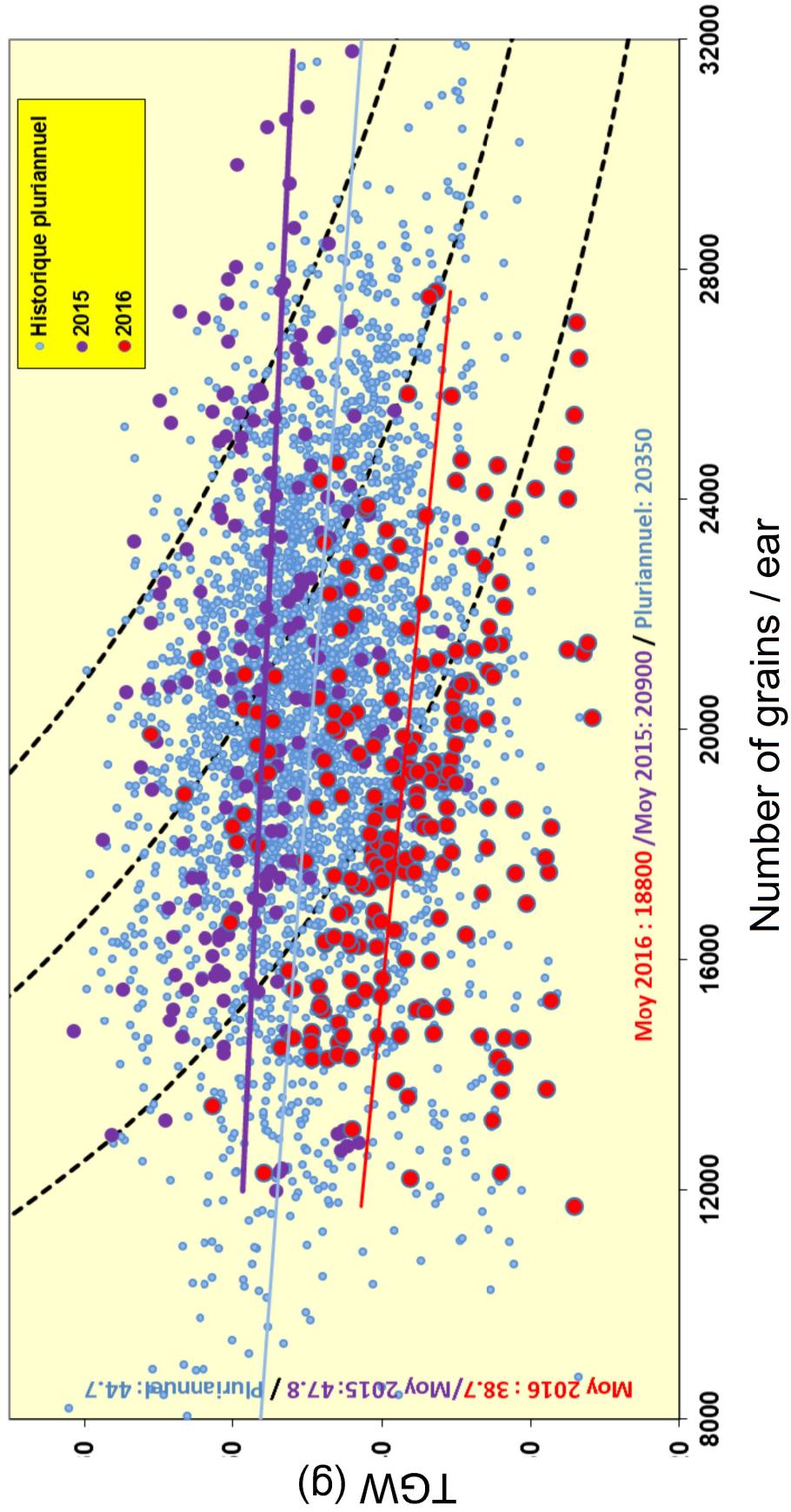
Yield elaboration : Grains per ear





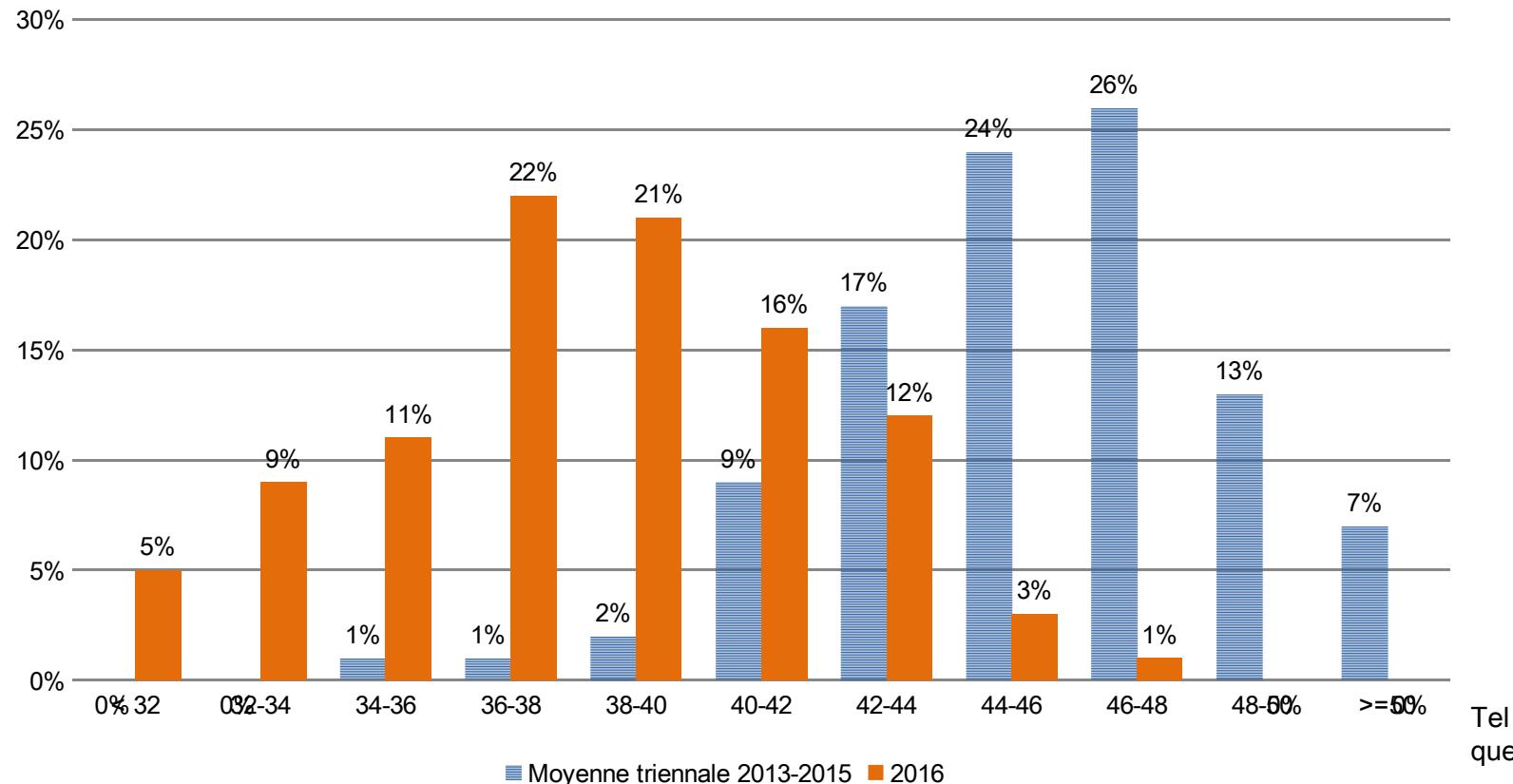
And the grains are
↑

Yield elaboration : Ear filling



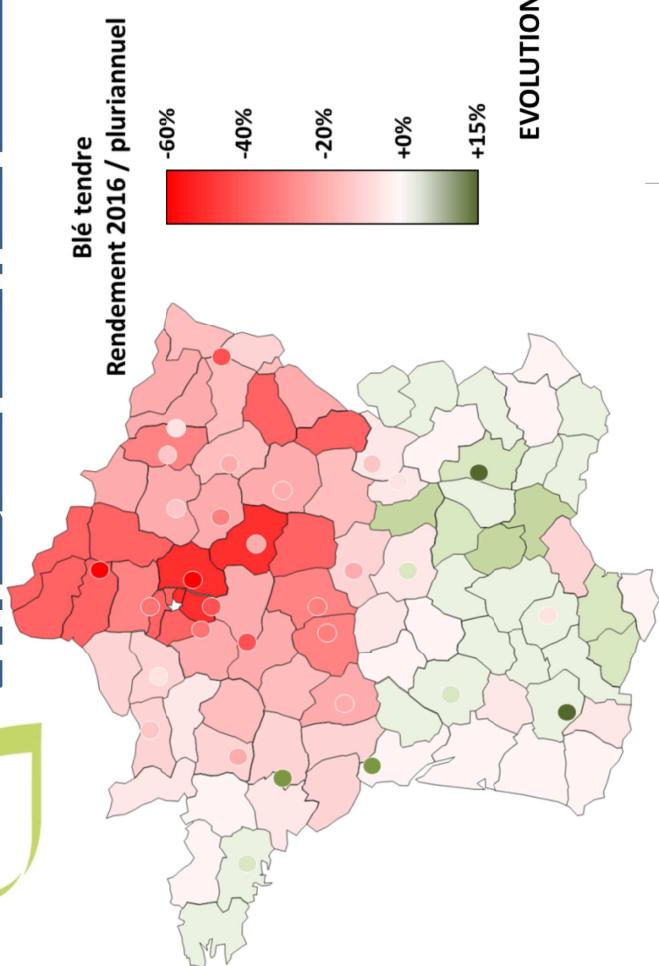


As a percentage of collected volumes



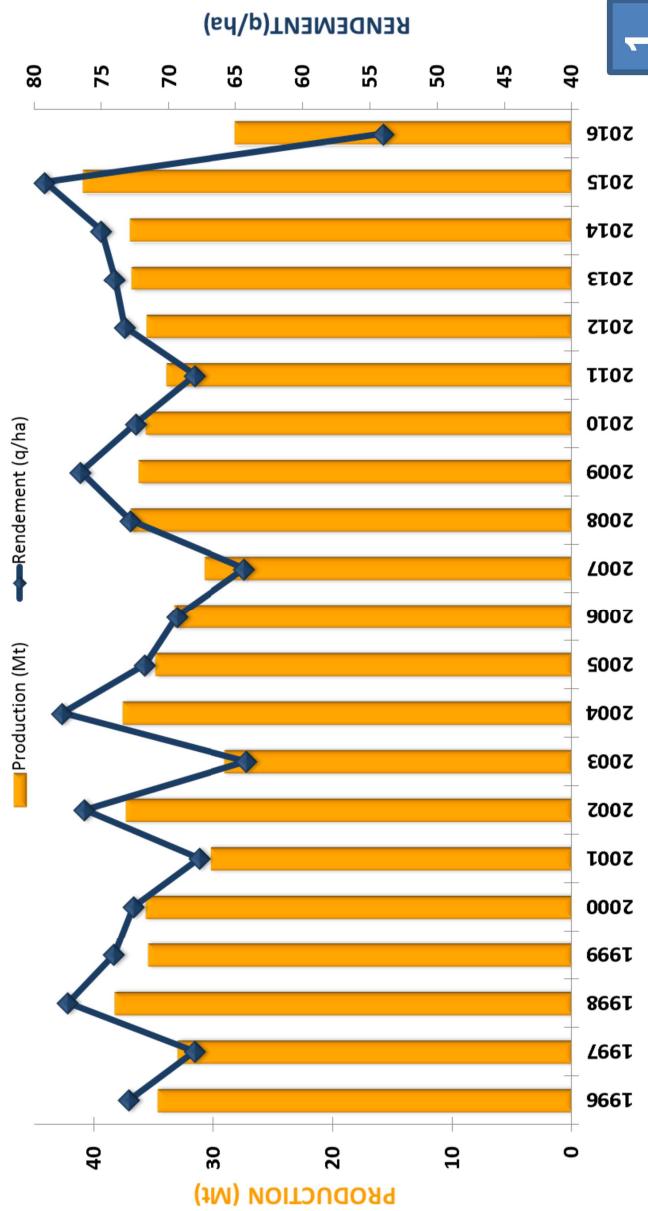
Source : FranceAgriMer / ARVALIS - Institut du végétal / Enquête qualité collecteurs 2016





**Yields observed by Agreste and Arvalis (colored circles),
- expressed in % of the multi-year average (2006-2015)**

EVOLUTION DU RENDEMENT ET DE LA PRODUCTION DE BLÉ TENDRE EN FRANCE DEPUIS 1996

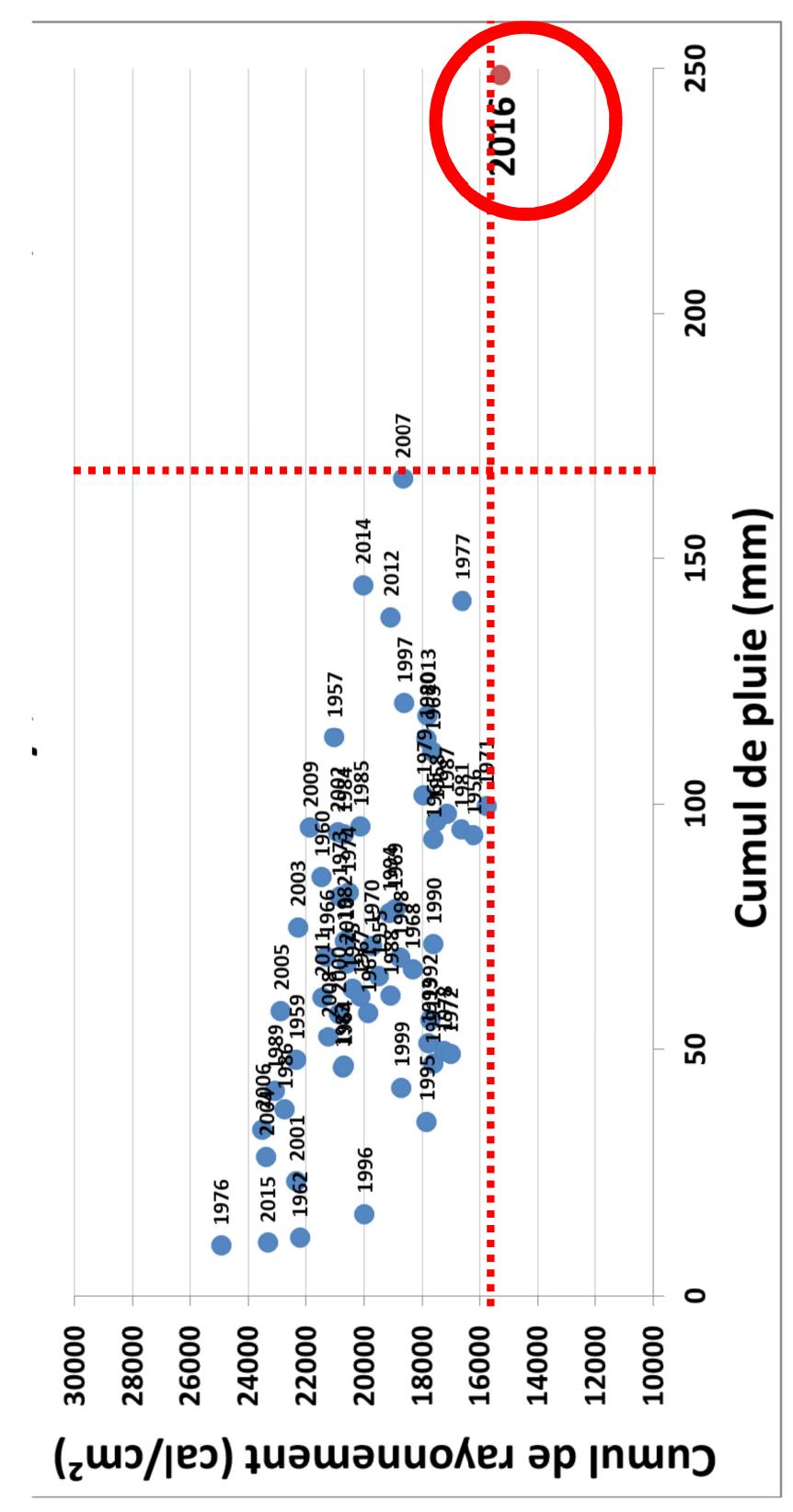


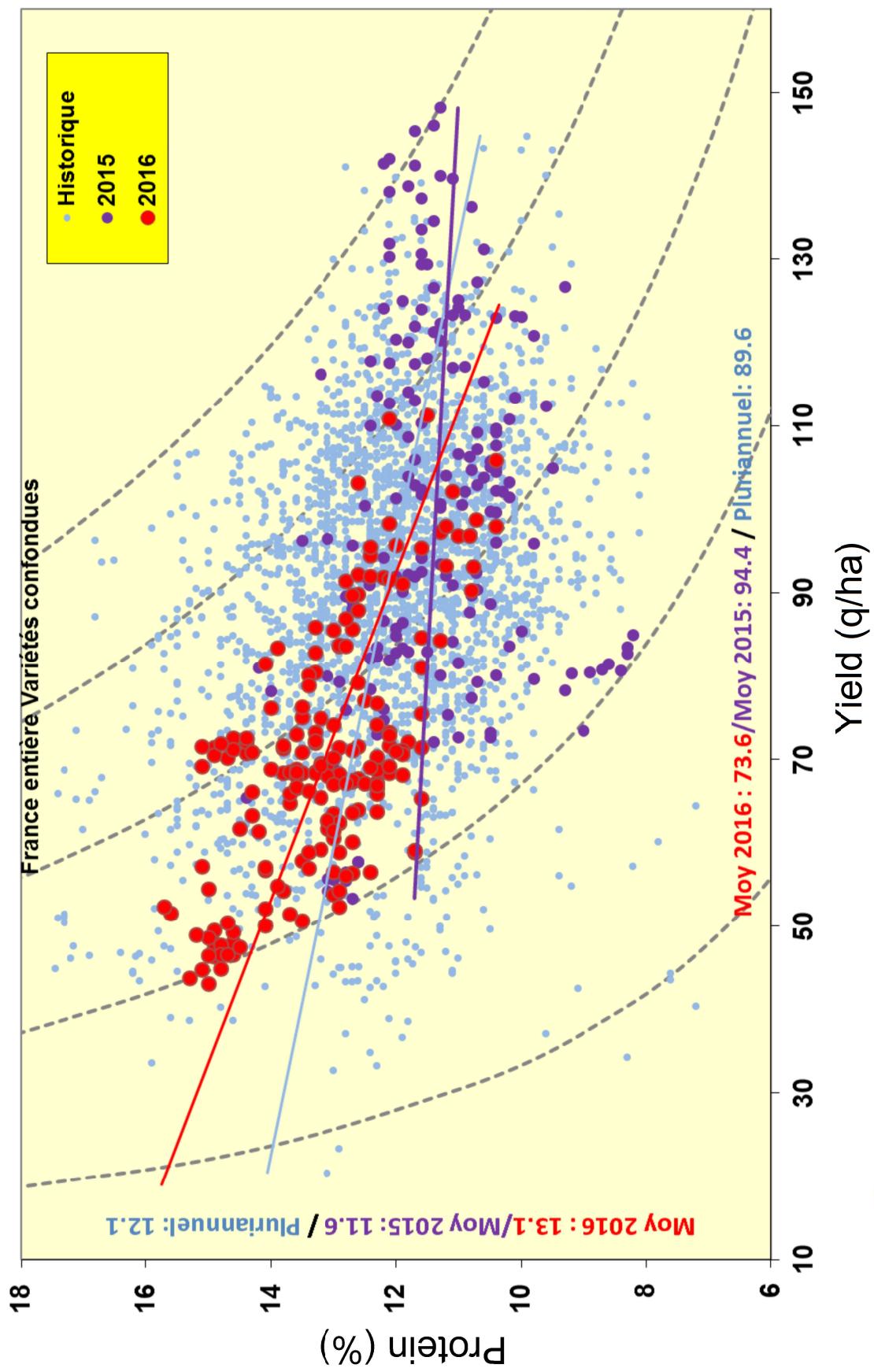
Sources : Agreste, estimation août-septembre 2016,
et ARVALIS - Institut du végétal



Lowest sunshine levels ever
seen
+ Highest cumulative rainfall

*This combination is
statistically improbable*



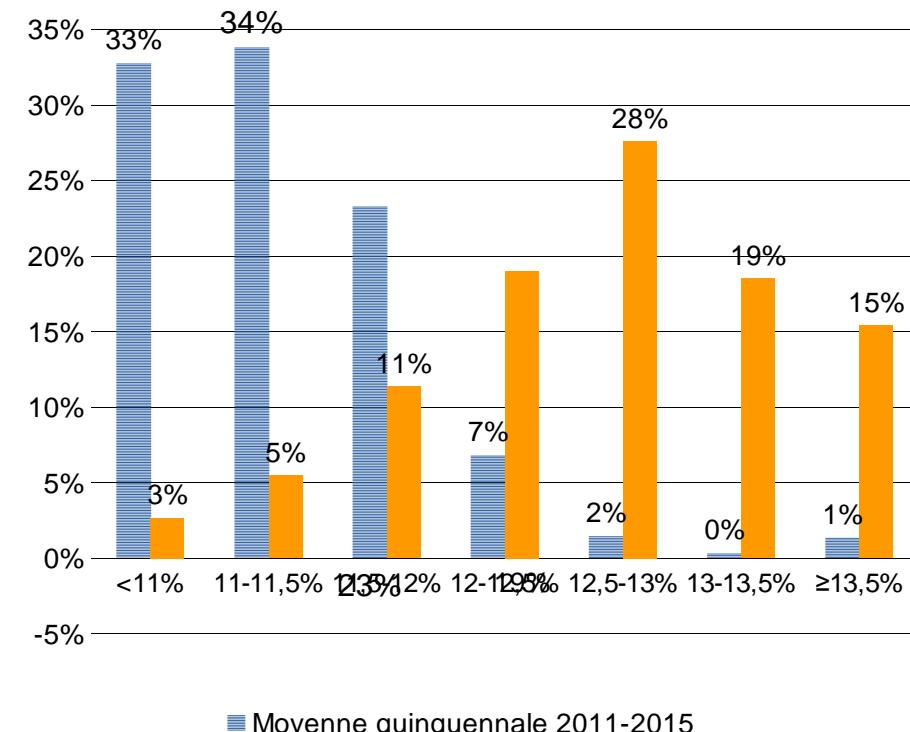




Protein content

12,6 % average

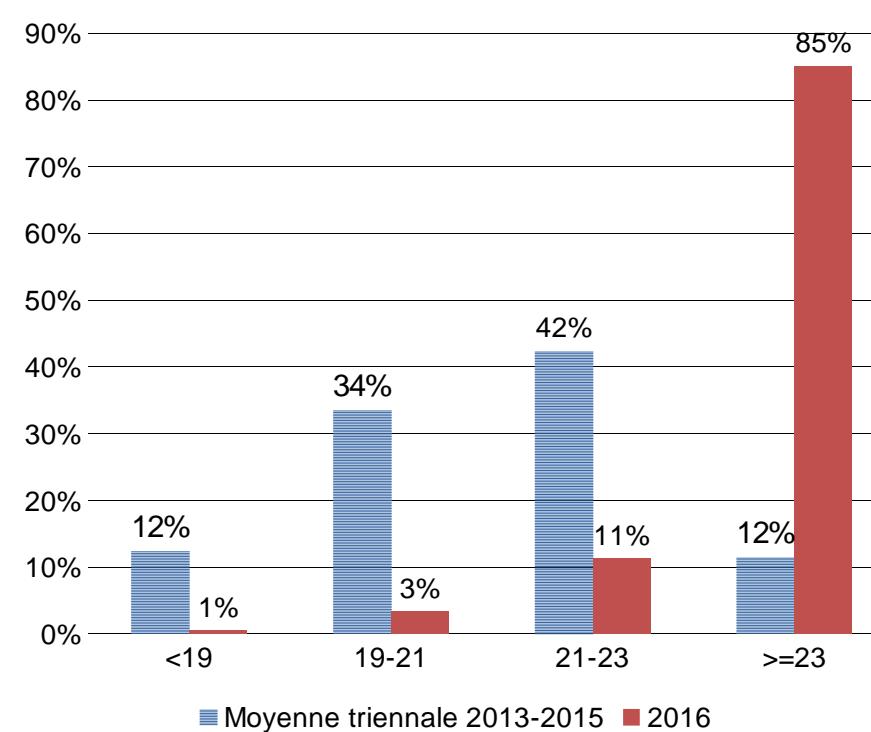
As a percentage of collected volumes



high wet gluten content

25,3 average

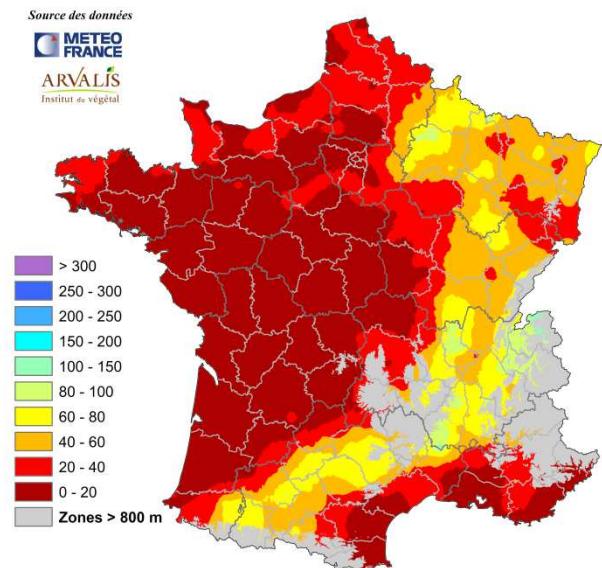
As a percentage of collected volumes



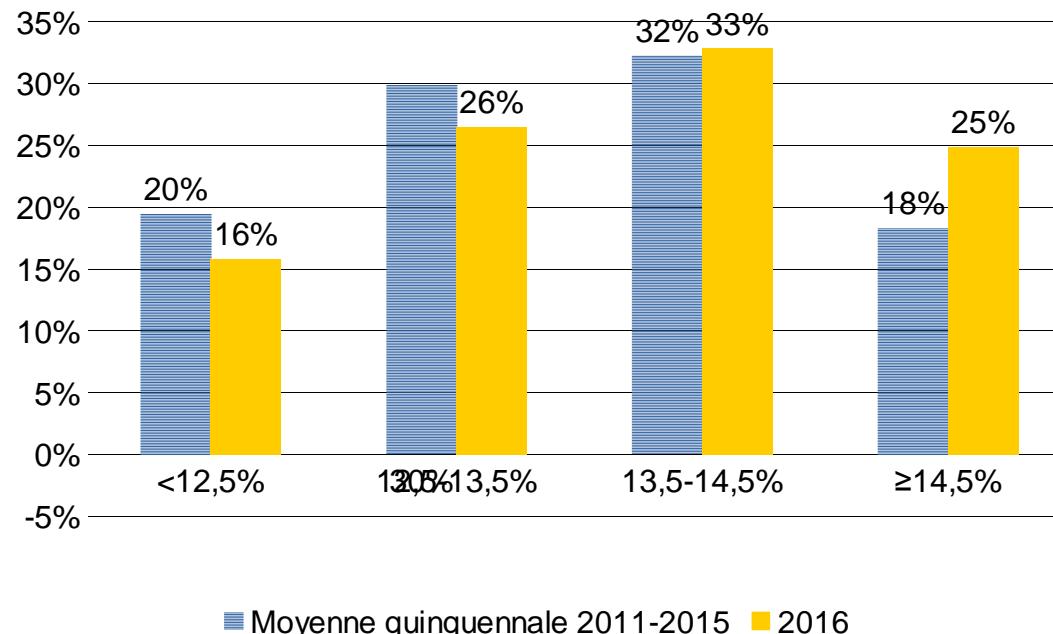


M.C on intake at silos : 13,6 % average

Cumul de précipitations (mm)
du 1er au 31 juillet 2016



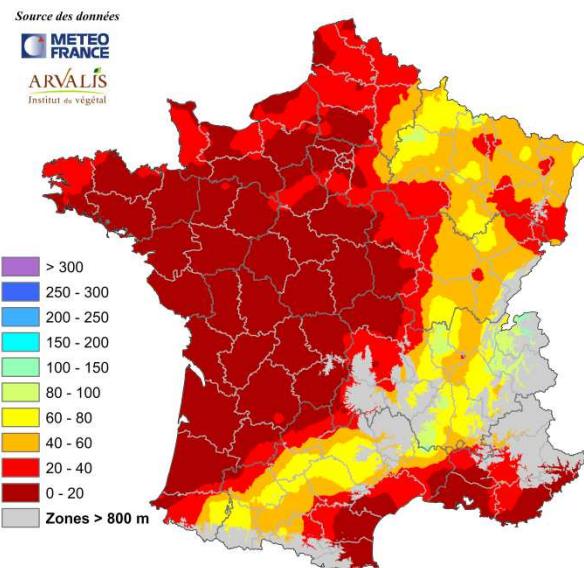
As a percentage of collected volumes



Source : FranceAgriMer / Enquête entrée collecteurs 2016

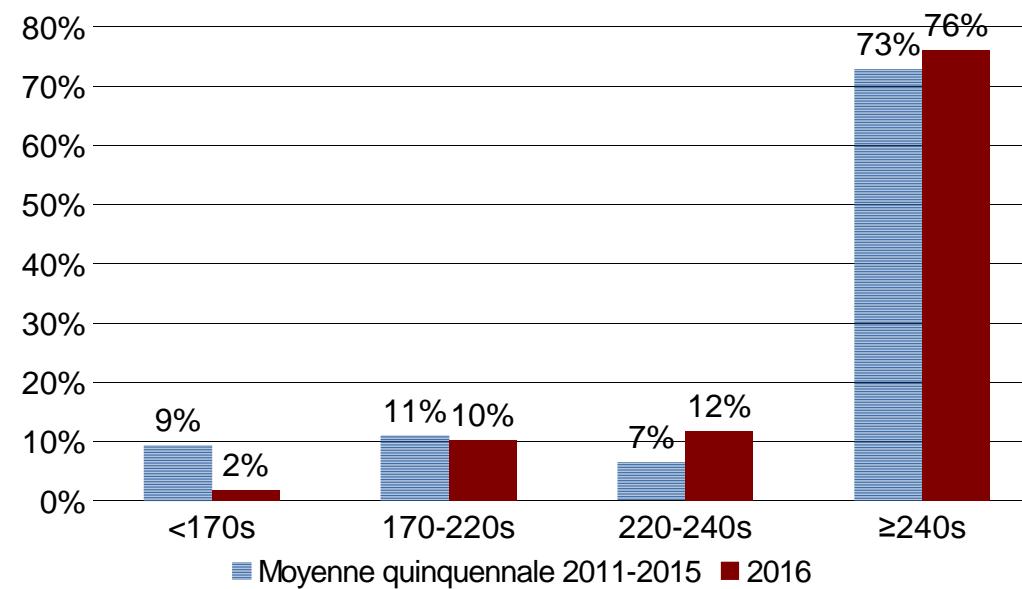


Cumul de précipitations (mm)
du 1er au 31 juillet 2016



Hagberg Falling Numbers : **88% > 220s**

As a percentage of collected volumes

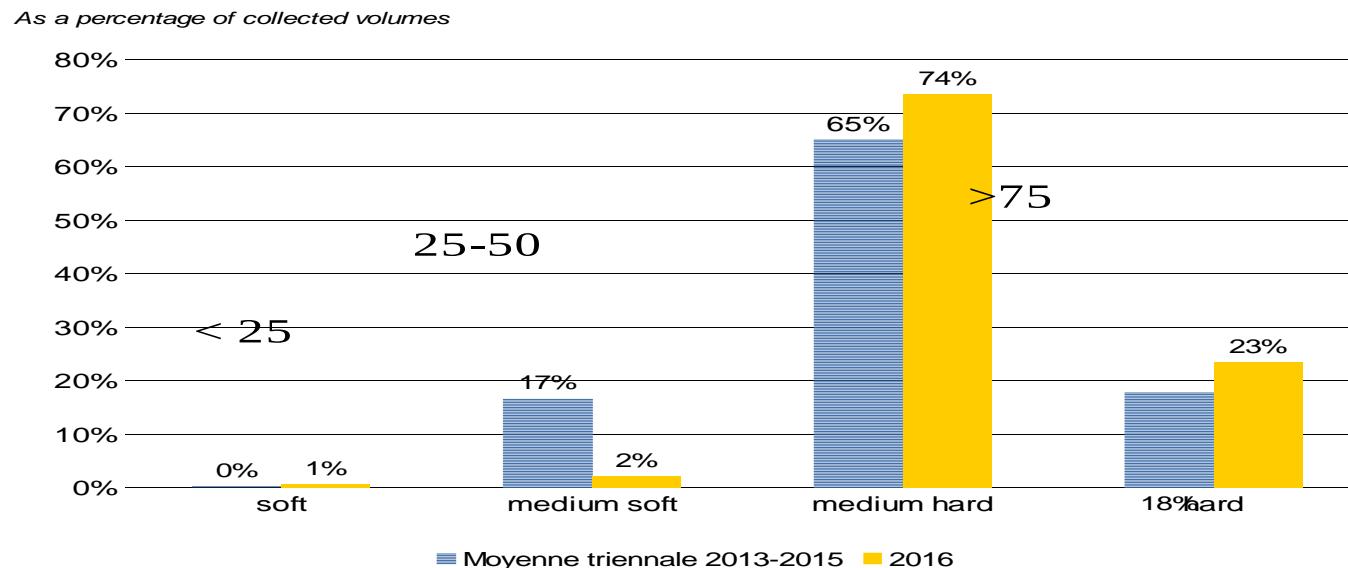


Source : FranceAgriMer / Enquête entrée collecteurs 2016



Hardness : French wheat is generally Medium Hard

50-75



Sources : FranceAgriMer / Enquête qualité collecteurs 2016, US Wheat Associates

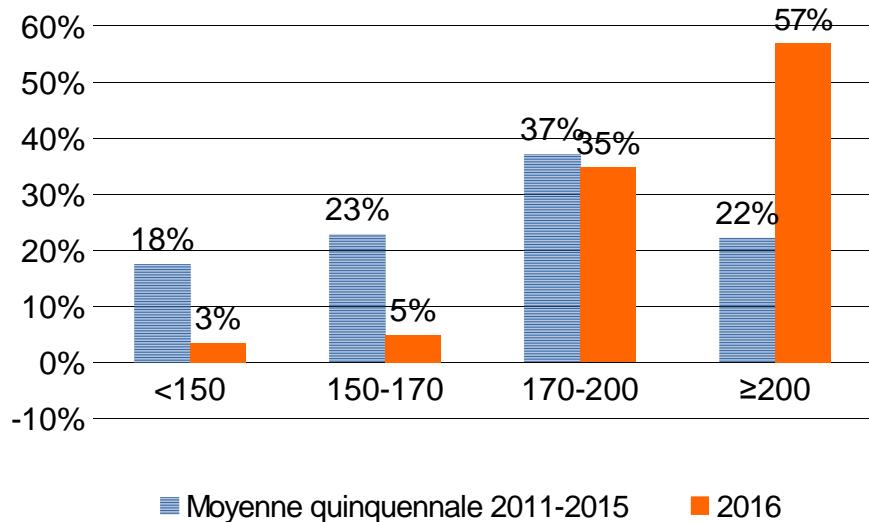


Baking strength

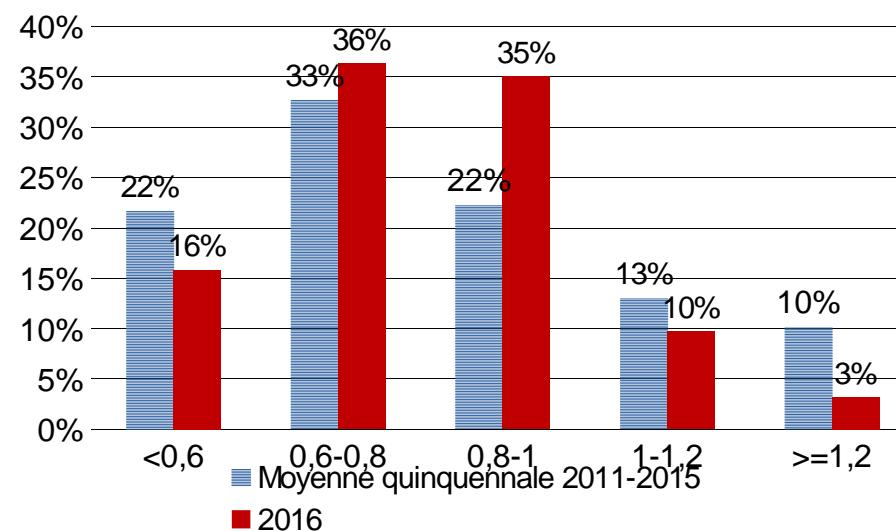
W = **205** on average

P/L = **0.8** on average

As a percentage of collected volumes



As a percentage of collected volumes

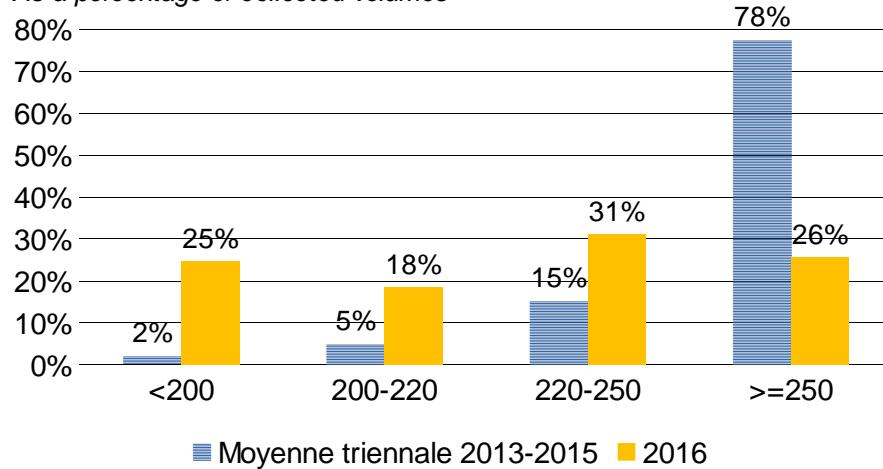


Source : FranceAgriMer / Enquête entrée collecteurs 2016



Breadmaking value(/300)

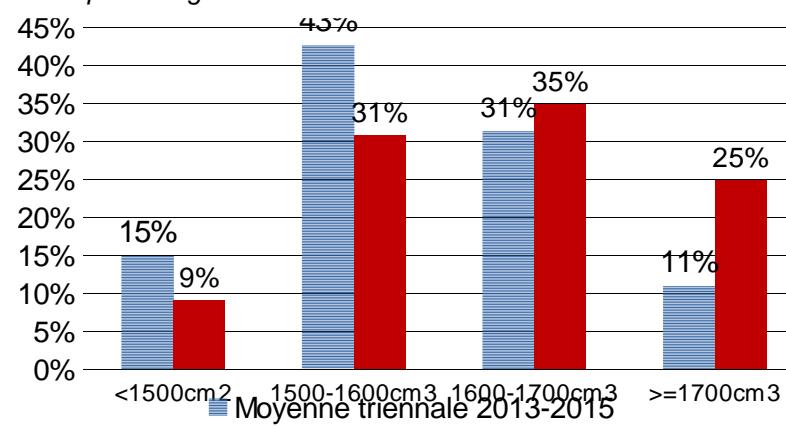
As a percentage of collected volumes



■ Moyenne triennale 2013-2015 ■ 2016

Volume (cm³)

As a percentage of collected volumes



■ Moyenne triennale 2013-2015 ■ 2016

Source : FranceAgriMer / ARVALIS - Institut du végétal / Enquête qualité collecteurs 2016





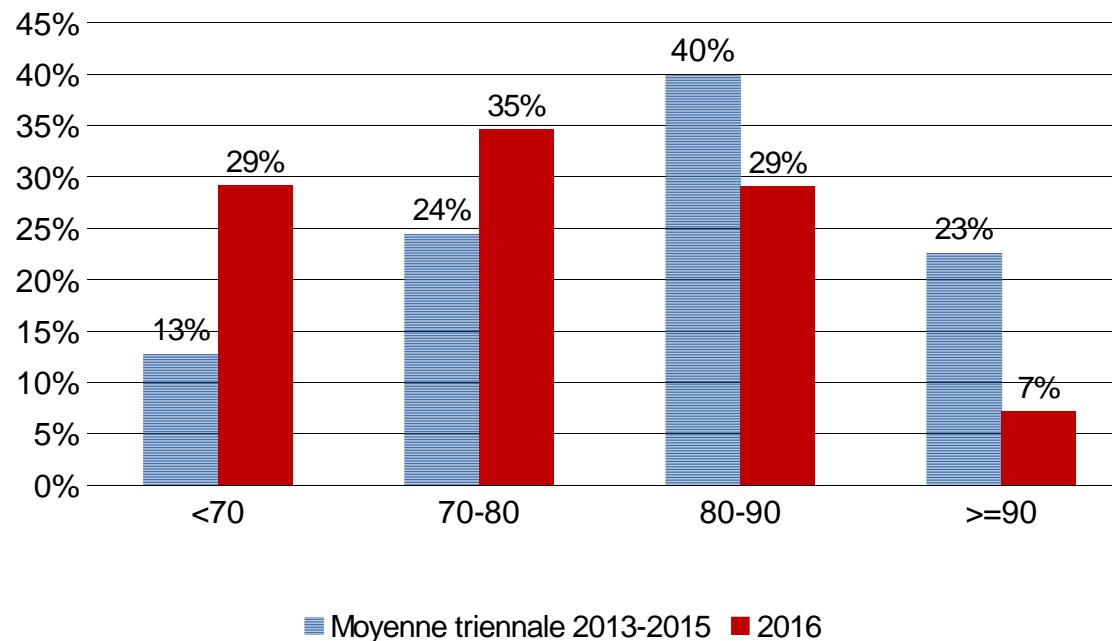
Gluten Index shows more extensibility than usual



Gluten Index levels are lower than those typically known

75.3 on average

As a percentage of collected volumes

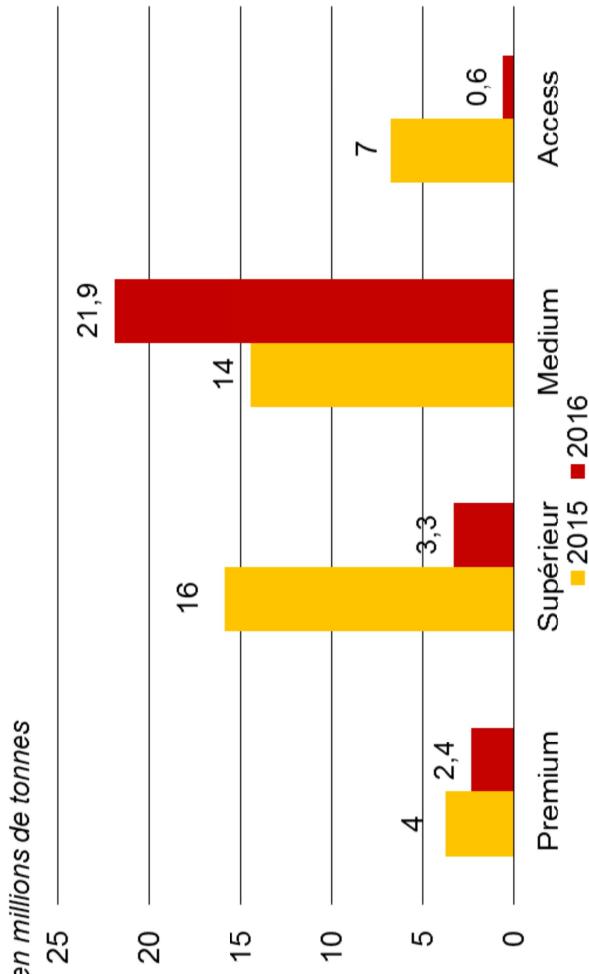


■ Moyenne triennale 2013-2015 ■ 2016

Source : FranceAgriMer / ARVALIS - Institut du végétal / Enquête qualité collecteurs 2016

The French wheat in 2016 is not a reflection of the typical offer

Classes	Protéines	W	Poids spécifique	Indice de chute de Hagberg	Répartition nationale 2016	Répartition nationale 2011-2015
Premium	≥ 11,5 %	≥ 170	≥ 77	≥ 240	8 %	15 %
Supérieur	≥ 11 %	non spécifié	≥ 76	≥ 220*	12 %	30 %
Médium	≥ 10,5 %	non spécifié	non spécifié	≥ 170*	78 %	37 %
Access	Spécifié au contrat	non spécifié	non spécifié	non spécifié	2%	18%





FranceAgriMer

Thank you for your attention

