



Studies of planted area and weather variables in Argentine agriculture

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Weather







Weather







2019/20 estimates



Soybean 17.4 MHa



Maize 6.3 MHa

Sunflower 1.6 MHa



Wheat 6.6 MHa



32 million hectares for four crops















Winter Crops: BAGE / UM

Soybean: UM

Corn and Soybean: BU

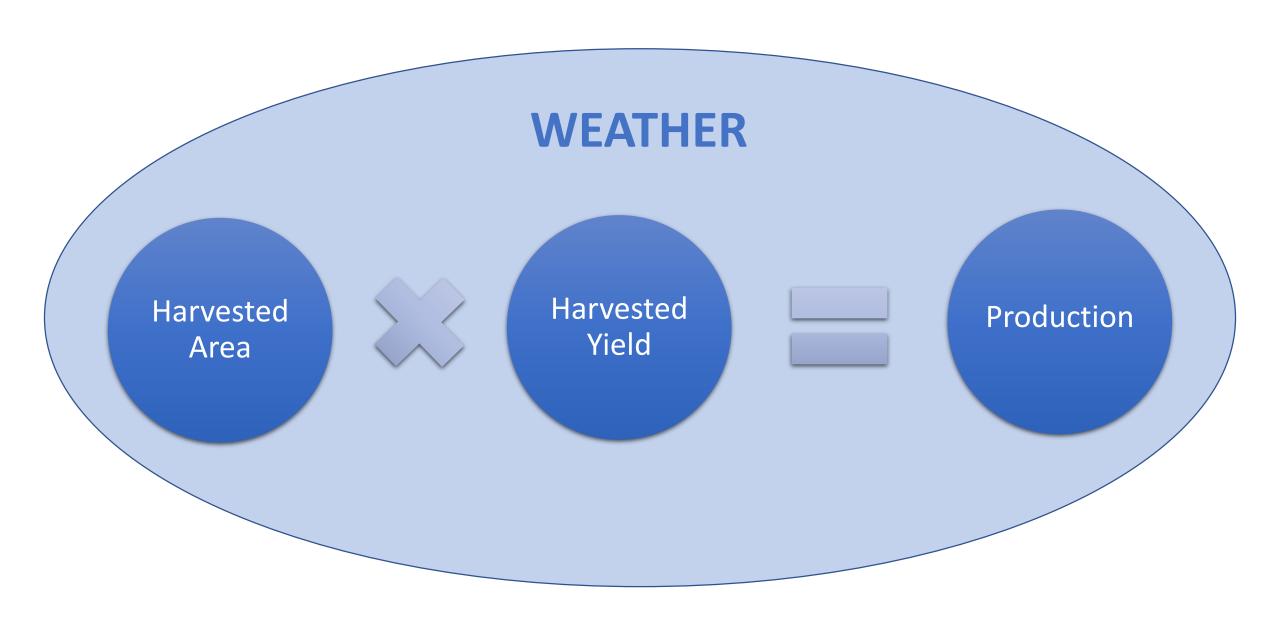






Weather







Weather - Planting Windows









Weather - Phenological Development

























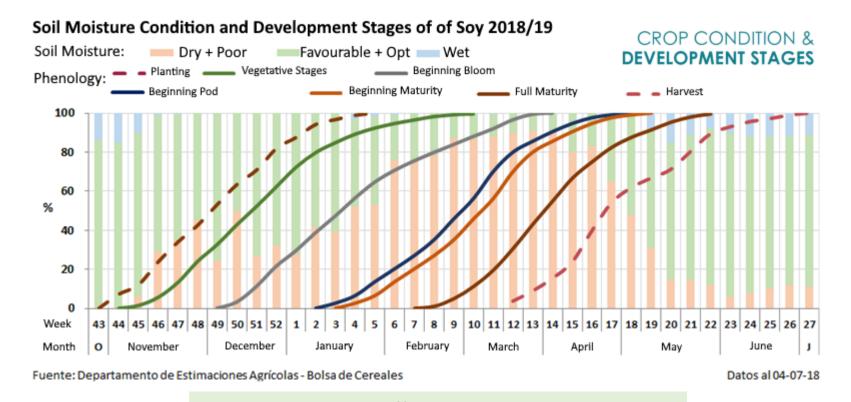


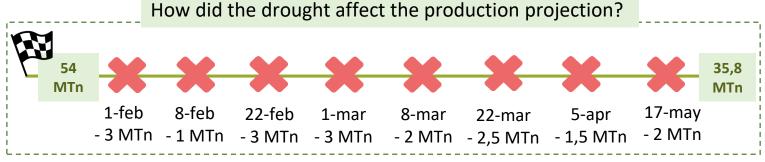




Weather - Phenological Development











Climate – Harvest Window













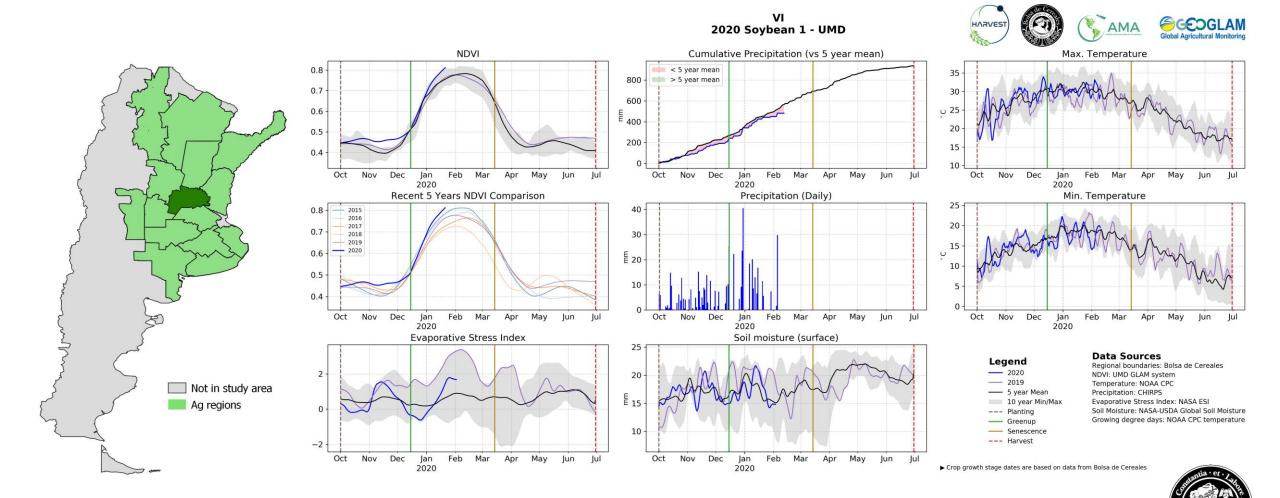






Weather - Dashboard

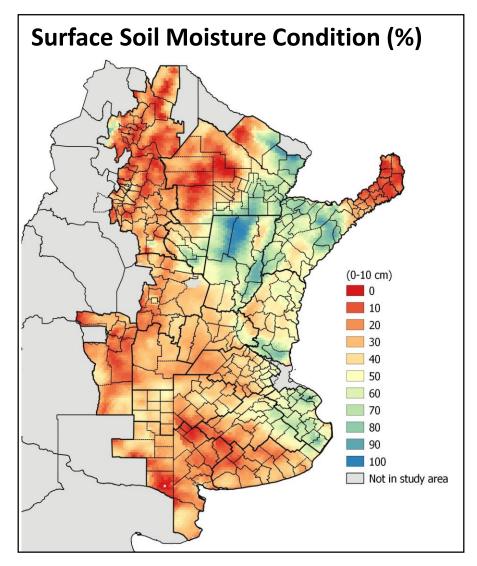


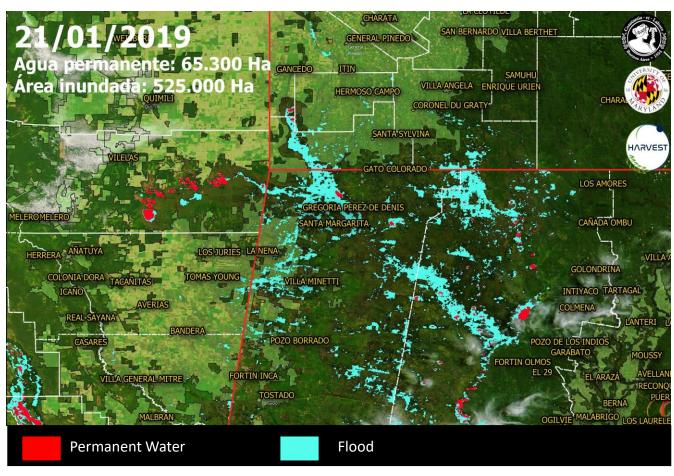




Weather - Maps







The visual representation of georeferenced data offers a more comprehensive approach to our work.







Weather





Future Lines of Research



Analyzing crop rotation on a large scale.

 Comparing soil moisture in two regions with contrasting levels of notillage soil management.

 Studying soil carbon in two regions with contrasting levels of notillage soil management.

Modeling yield forecast.





Final Remarks



- Studies of planted area are crucial to improve the accuracy of food production estimates and reduce the uncertainty of the market.
- The analysis of weather variables are as important as studies of planted area.
- All this information is essential to the designing of accurate yield prediction models.
- Once we make progress in these areas of study we will be better prepared to evaluate the sustainability of our food production systems on a large scale.





Thank you

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