# Providing precipitation accumulation forecasts with a probabilistic approach to help farmers during the severe drought episode of summer 2022 in France 

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Summer 2022 one of the most severe episodes
 France Hydrological Situation
on 1 August 2022 (source MF)

## What probabilistic information on rainfall forecasts can help farmers?

=> Provide probability of reaching a certain rainfall accumulation ( $10 \mathrm{~mm}, 15 \mathrm{~mm}$ and 30 mm ) over the next 7 days and the 7 following days.

At each point and member sum of precipitation over the next 7 days and the following week


Application of EPS for crop irrigation (cf présentation of
Bachar Tarraf)

## Research action Ensemble Weather forecast for Agriculture Ensemble Weather forecast for Agriculture

POST-DOC

During Summer 2022

Daily posts on the web
Forecast : Probability of cumulative rainfall $>30 \mathrm{~mm}$ (26 August 2022)
at 7 days, the whole territory should not reach a cumulative rainfall of 30 mm ( $10 \%$ in red or $<30 \%$ in light red).
probabilité somme précipitation $>=30 \mathrm{~mm}$ sur 7 jours


Social networks
Linked in twitter Diffusion

For Summer 2023
A simple app for french farmers

aleapluie.modelia.org



