**Portugal: Review / Rebuild current pricing approach based on burn cost analysis**

Olives / meeting 29.4.25

* Has broker. No claims for the last 3 years, not almonds not olives
* Damage: very strong hail that fruit falls
* Losses are after deductable. We only register what we pay.

Purpose: we want to develop our own view on the tariffs for Portugal.

* By crop type and commune, but also at the client/farm level
* Based on our own approach
* Based on portfolio / claims data (let weather data aside for the moment)

Data base: country-wide claims, premium and sums insured per crop type, from 2014 to 2023

* Not always (more precise: most often not...) the time series are complete
* Check with FC if 2024 is available as well
* Check if claims are fgu --> I don’t think so, so we need to check with FC what is in the data
* Hail tarifs: using lightning data an Tarifs in Fance ("Z:\PT\Projects\Hail\data\_out")

Outputs / Intermediate steps

* Mapping postal codes to NUTS
* Analysing portfolio updates (commune) and final portfolio (plots)
* Identify a way to fill the gaps in the observations at commune level
  + Use data for other (similar?) crops in the same commune/district
  + Bayesian approach
* Loss frequency curves & Risk rates per crop type and commune
  + Burn cost & Area Yield approach (AY is currently set-up for yield / lack of yield, but can also be used on historical loss costs
* Risk rates per crop type and plot/farm
* Risk rates per crop type and deductible
* Risk rates per crop type and peril (perils split can be derived from govt data)
* Credit/deductible curves per crop

Resources:

* Data: "Z:\PT\Projects\Tarification2025\Input\20250125\_BD.xlsx"
* Area Yield Script: http://gitlab11.hagel.local/rnd/research\_projects/area\_yield
* Further government data: "Z:\PT\Projects\Tarification2025\Archiv\data from CropSafe\CROP\202408\_CROP\Colheitas 5.8\_vs2023.xlsm" --> perils split
* Hail tarifs: using lightning data an Tarifs in Fance ("Z:\PT\Projects\Hail\data\_out")

