



AGRO-METEOROLOGICAL CONDITIONS

**Committee for the Common Organisation
of Agricultural Markets**

30 January 2019

Content

1. Agrometeorological overview
2. Hardening stage of winter cereals / frost tolerance

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JRC MARS Bulletin
Crop monitoring in Europe
January 2019

Continued mild winter
Improved hardening of winter cereals in central and eastern Europe

WINTER WHEAT
Simulated hardening stage

Hardening simulations are based on weather data up to 12 Jan 19

Data source: MARS crop yield forecasting system, 12/12/2018
Model output and data based on: C. Challinor, MARS
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According to our frost-kill model simulations, winter crops in western and southern Europe, have acquired little frost tolerance, due to mild winter temperatures so far.

Meanwhile, in central and eastern Europe, the frost tolerance of winter cereals has increased considerably since mid-December, following the arrival of colder wintry weather conditions. Since the start of winter, frost damage in the EU has been mostly limited to minor occurrences. In the coming days, frost tolerance of winter cereals is expected to further increase in central, northern and eastern parts of Europe. No further frost-kill damage is expected until the end of the forecast period (22 January).

Content:
1. Winter hardening and frost-kill analysis
2. Agro-meteorological overview
3. A&S
Covers the period from 1 December 2018 to 15 January 2019

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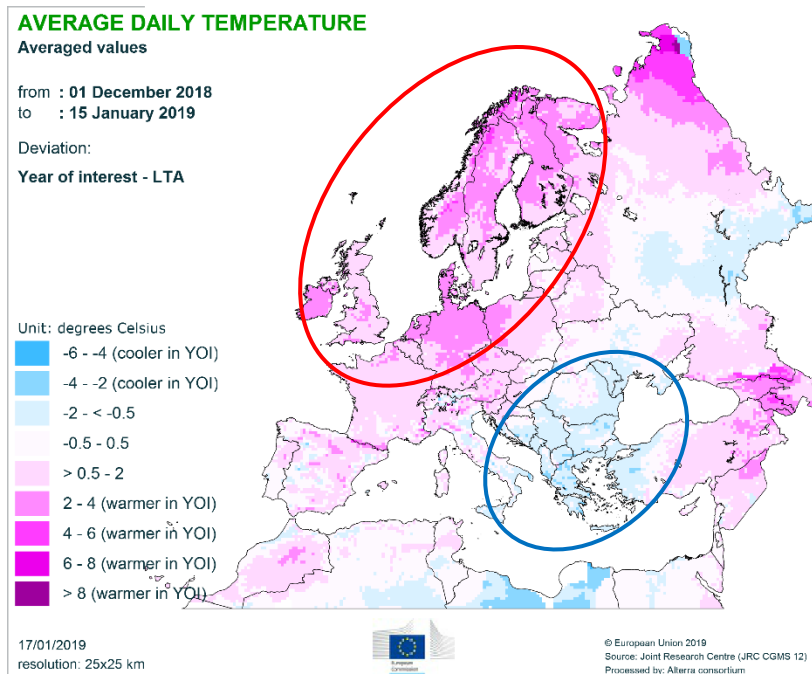
1. Agrometeorological overview

• Warmer than usual

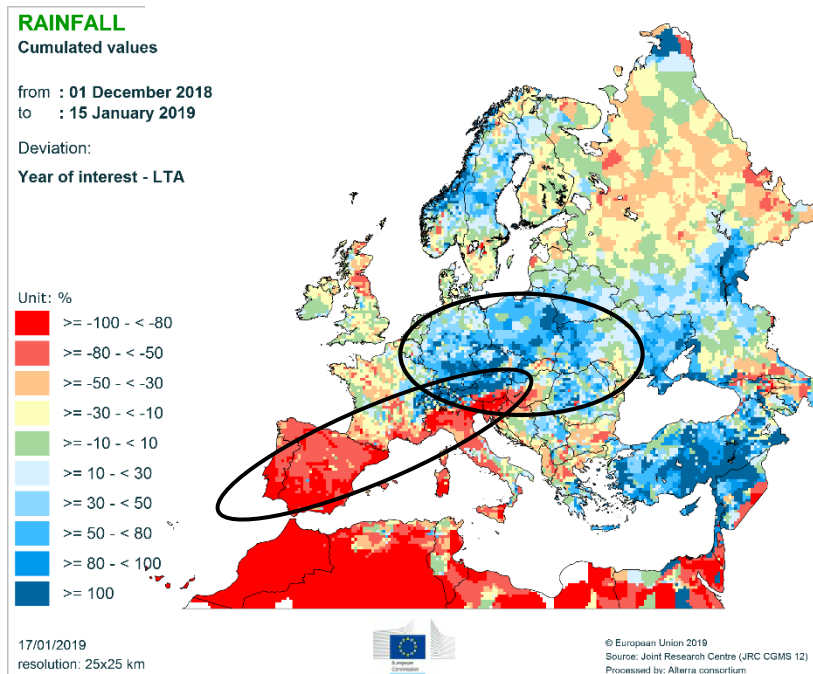
- + 0.5 to 2 °C: in most of Europe
- + 2 to 4 °C: IE, NL, DK, DE, SE, FI

• Colder than usual

- - 2 to 0.5 °C: IT, HR, EL, CY, BG, RO

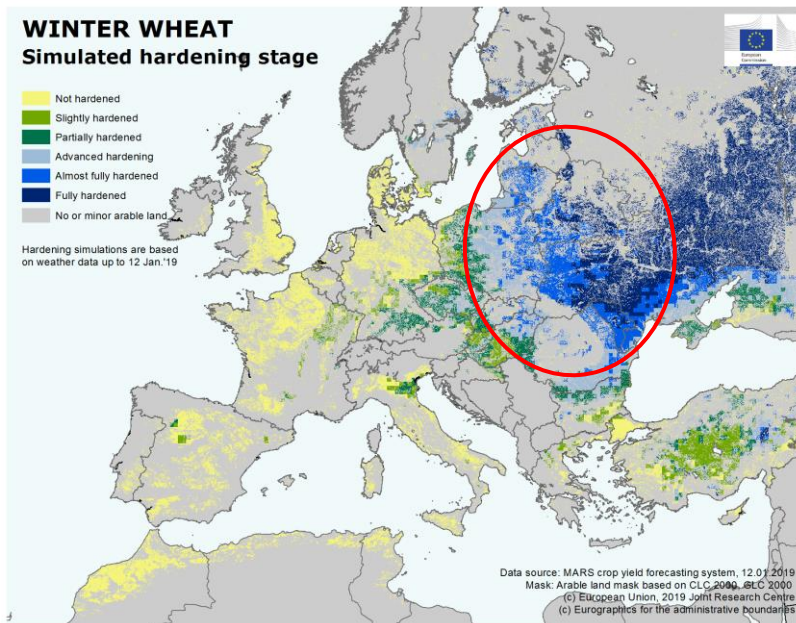


1. Agrometeorological overview



- **Warmer than usual**
 - + 0.5 to 2 °C: in most of Europe
 - + 2 to 4 °C: IE, NL, DK, DE, SE, FI
- **Colder than usual**
 - - 2 to 0.5 °C: IT, HR, EL, CY, BG, RO
- **Drier than usual**
 - Precipitation below 50-100% LTA: ES, PT, IT, HR, SI, HU
- **Wetter than usual**
 - Precipitation above 50-100% LTA: central and eastern Europe

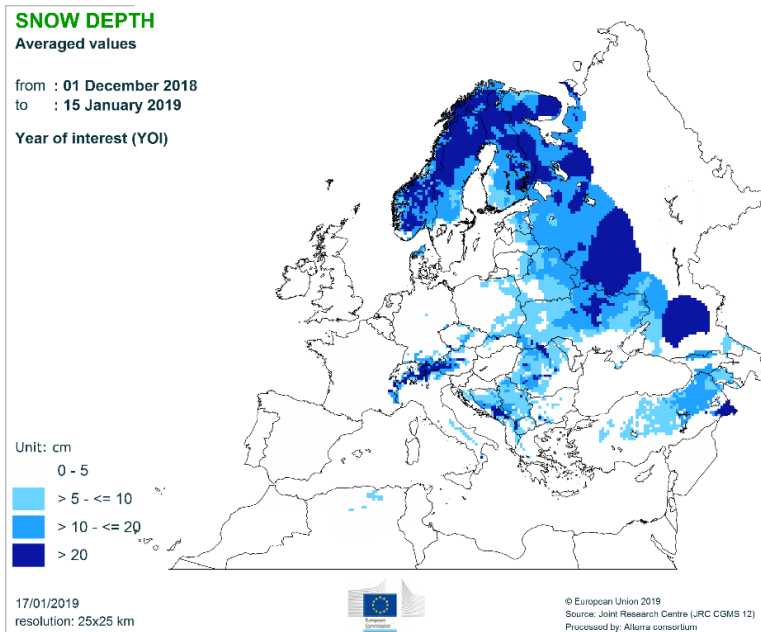
2. Winter hardening / frost tolerance



- **Hardening stage**

- Advanced or full hardening: PL, SK, north HU, RO, LT, LV, EE.
- No or just slight hardening: Mediterranean, parts of FR, UK, DE, DK, NL, BE, LU.

2. Winter hardening / frost tolerance



- **Hardening stage**
 - Advanced or full hardening: PL, SK, north HU, RO, LT, LV, EE.
 - No or just slight hardening: Mediterranean, parts of FR, UK, DE, DK, NL, BE, LU.
- **Snow blanket**



Thank you for your attention!

Presentation available at:

https://ec.europa.eu/agriculture/market-observatory/crops_en