

Earlier flowering winter cereals in Spain due to higher temperatures

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Plant phenology is modulated by climate, and closely governed by water availability and air temperature. Over the period 1986-2012, an increase both in temperature and in rainfall intensity in Spain has advanced most phenophases (such as sowing date, emergence, Sowering, seed ripening and harvest) for a number of winter cereals (oats, wheat, rye, barley and maize), mainly during the spring. For wheat and oats, for instance, sowering date advanced by about 1 day/year. Changes in phenology could in turn impact crop yield; fortunately, human intervention in crop systems is likely to minimize the negative impact.

Source: Oteros et al., 2015. Climatic Change 130: 545-558.

Photo: Steppeland (www.stckr.com)