

## **Estimation of agroclimatic values of chilling hours in San Pedro (province of Buenos Aires, Argentina) and future scenario**

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### **Summary**

Each plant species has its own climatic requirements and meteorological limits that determine its dispersion in the world, the broader the greater its usefulness for humanity. The combination of such requirements makes up its bioclimate and the environmental climatic availabilities that satisfy them constitute its agroclimate. The detailed phenological knowledge of particular agricultural specie allows to know its bioclimatic requirements, a basic study for suitable regions determination and the streamlining cultivation. This study will determine the agroclimatology of chilling hours in San Pedro from the period 1965-2018, an important requirement for compliance with the development of cryophilic fruit trees, and the chilling hours over two time horizons, near future climate (2015-2039) and far future climate (2075-2099) according to the methodology of Damario et al. (2008) and its comparison with the observed values of San Pedro INTA station.

**Key words:** bioclimatic requirements; chilling hours; fruit trees