

CLIMATE DETECTIVES 2020 - 2021

THE CLIMATE APPLE Asturias Investigation CP Manuel Alvarez Iglesias

RESEARCH QUESTION

Does climate change affect apple production and cider in Asturias?

SUMMARY OF PROJECT

Students have researched temperature (weather stations), sulfur (EO Browser, Sentinel) and apple production data in Asturias (certificate of origin of Asturian apple). They've sorted them on charts for years, and they've been looking for their relationship. It has also been very important to provide experts in the cultivation of apples, to understand the behavior of this fruit in terms of flowering and development (SERIDA)



Over time the planet is warming, but there is no direct relationship to the variations of apple kilogrames collected. Sulphur (S) levels have declined in recent years. Appletree needs a few hours of annual cold and hot for its production to be effective, so it is anticipated that if the upward trend in temperature continues, production may be compromised in the future.





Figure 3: Apple blossom

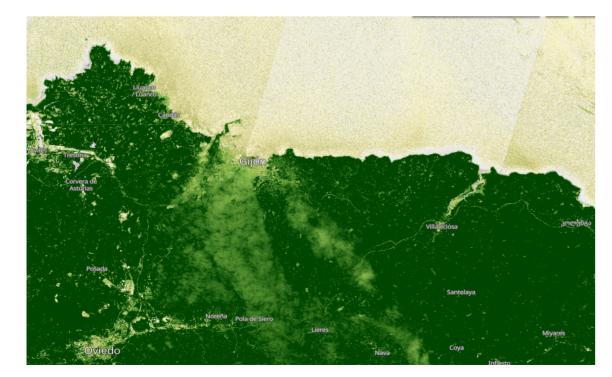


Figure 1: Gijón





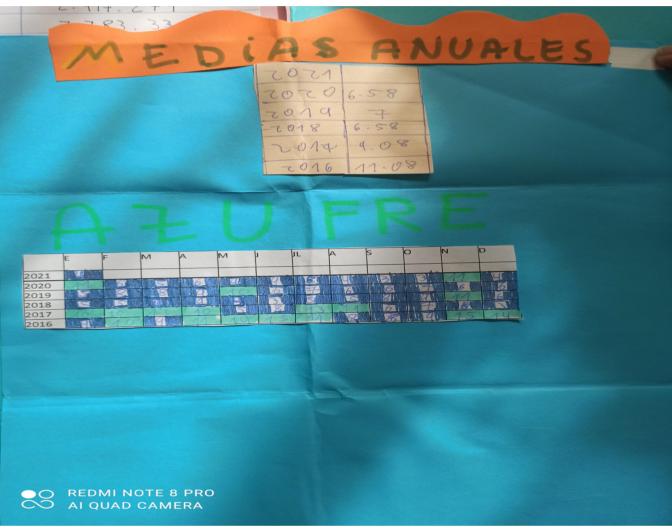


Figure 2: Mail results

Actions to make a difference and to mitigate the problem: Running CO2 reduction campaigns; building heated greenhouses