

Agroclimatic and economic assessment of the adverse impacts of excessive moisture in the Argentine pampas region

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Summary

The moisture excesses during the occurrence of El Niño events in 1997/98, 2002/03, 2009/10 y 2015/16 were identified by the Palmer indices $PDSI > CMI$. There is a large geographic variability of the indices in the crop seasons analyzed and the negative impacts also. The adverse effects of the moisture excesses were established for each province county of Buenos Aires, Córdoba, Entre Ríos y Santa Fe for the recent 2015/16 agriculture summer season and the economic losses were established. The agriculture losses for soybean only reached 483 million US dollars.

Key words: Palmer indices, El Niño, soybean, agriculture production