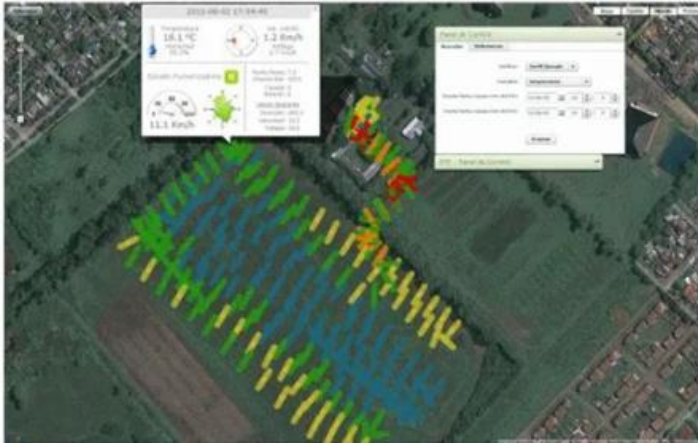


#108-22-CIA

Technology

Precision Agriculture

Remote Monitoring System for Spray Applications and their Drift



Agro-Industry Research Service of Argentina (CIA)

Rural Engineering Institute of Argentina (IIR)

Ana Laura Zamit

zamit.analaura@inta.gob.ar

Andrés Moltoni

Agro-Electronic Laboratory

Rural Engineering Institute of Argentina (IIR)

Andrés Moltoni

#monitoring | #spraying | #drift | #agro-chemicals | #climate | #wind | #humidity | #temperature | #phytosanitary | #sensors | #server

<https://www.argentina.gob.ar/inta/tecnologias/sistema-de-monitoreo-remoto-de-pulverizaciones-y-su-deriva>

Precision in the application of agrochemicals in urban areas.

The Rural Engineering Institute (IIR, as per the Spanish acronym) developed a real-time system that transmits the relevant variables for agrochemicals' applications: environmental conditions (temperature, humidity, wind speed and direction, among others) and the application variables (equipment speed, liters per hectare, operating pressure, among others). These data are recorded by a small meteorological station embedded in the system and the sprayer.

This technology enables to monitor the quality of applications of agrochemicals and mitigate drift risks. It is highly useful in peri-urban areas, since it enables municipalities to stop

applications in the vicinity of towns in the event of inadequate climatic and equipment conditions.

Municipalities

Certifying the application of sprays in real time according to wind conditions, humidity and temperature. Given its compact format, it may be installed on the sprayer.

Degree of progress: system completed, validated and transferred to the private sector.

Obtained the CITA 2011 technological innovation award in the Precision Agriculture category.