





Regional Alert System for Locusts in the Americas

Development of a locust management, monitoring and alert system

London, 21 – 23 **September** 2022

International Plant Health Conference





Cooperation project IICA - COSAVE: Phytosanitary Intelligence

Alert System for Locusts in the Cosave Region











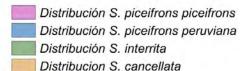




Locusts of the American continent

DISTRIBUCIÓN DE LAS LANGOSTAS DE AMÉRICA

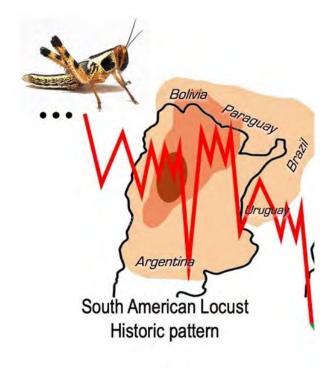








Ing. Agr. Hector E. Medina





Locust Potential Impact



Production at risk

USD 3.7

billion dollars

(Only in Argentina)



Consultoría Beneficio - Costo (2020, IICA)



Objectives



General Objective:

Contribute with the response system and risk assessment to reduce locust damage.

Specific Objectives:

- Implement an Information System for the surveillance and alert responses in COSAVE Region.
- Develop a System for the management and assessment of data using GIS.





1) Mobile App at regional level

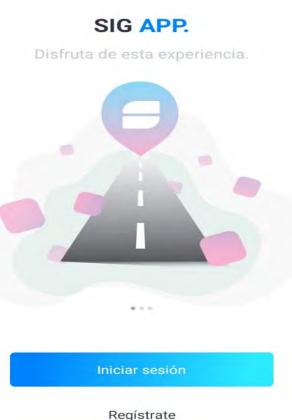
What for?

Collect data and information from the field

How?

By the mobile APP (SIGAPP Senasa AR)







Términos de servicio -4.1.1 - aps2





1) Mobile App at regional level

Advantages

- Harmonization of surveillance criteria
- Information in real time (it works offline)
- Information is centralized in the Locust GIS.











2) Locust Alert System

What for?

- Improve the communication between NPPOs and notify farmers about the locust location in real time.
- Improve the response capacities for locust outbreak.

How?

• Using the information from the Mobile App, through the Locust Alert System and the implementation of a website.









2) Locust Alert System

Advantages:

- Constant and synchronized communication between NPPOs
- Fast decision making
- Countries can increase anticipation capacity and response
- Communication with the stakeholders









3) GIS Locust

What for?

• To improve the management of the information, response capacities, risk assessment, decision making and pest control.

How?

• Use the system to analyze and manage surveillance data to facilitate decision making and pest control.

3) GIS Locust

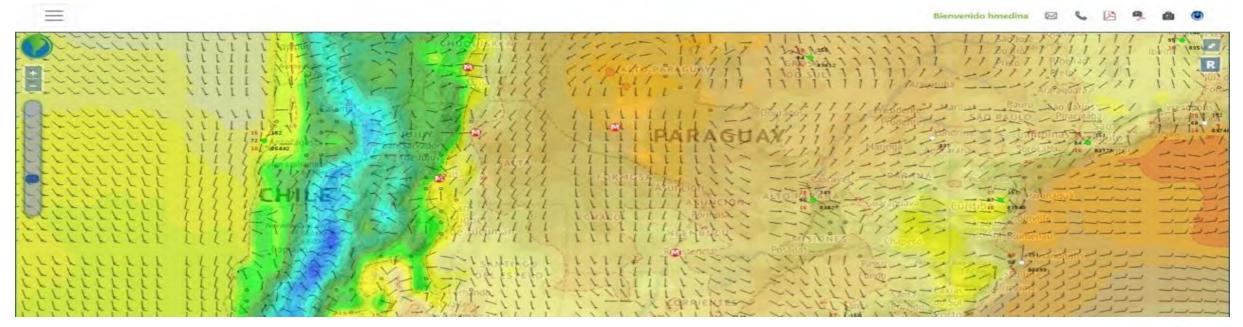
Sistema desarrollado por SENASA Argentina con el apoyo de IICA













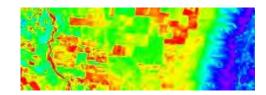


3) GIS Locust

Features:

- Integrated GIS System.
- Analyze, manage and download data.
- Upload layers in kml, csv, txt. formats.
- Share information and layers with users.
- Collect information from other systems.
- Incorporate information through WMS.











Conclusion

- System available for pest surveillance, management and alerts of Locust in South America
- Easy system to be used by experts of different countries
- Integrated System to Strengthen Pest
 Outbreak Alert and Response Systems





https://test.senasa.gov.ar/langostas





Next Steps

- Improve and develop the system, adding new features (\$)
- Use the system for other pests, E.g HLB,
 Lobesia botrana, Fruit Fly in Argentina
- Implement this system at continental level (or similar system), through Inter American Coordinating Group in Plant Protection (GICSV)













Thanks for your attention

London, 21 - 23 September 2022

International Plant Health Conference

Hector E. Medina hmedina@senasa.gob.ar

Contingencies and Emergencies General Coordinator - Senasa ARGENTINA OSAVE Locust Technical Group - Coordinator GICSV Locust Technical Group - Coordinator

