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# Strengthening Response Capacity to Fusarium TR4: Nicaragua's Regional Simulation Success

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## APPROVAL OF EXECUTIVE RESOLUTION NO. 005-2

- ✓ Phytosanitary Alert Device for fusarium TR4
- ✓ It is declared a quarantine plague.
- ✓ Strengthen the surveillance system.
- ✓ Strengthen diagnostic capacity.
- ✓ Approve “Action plan to strengthen prevention, preparedness, response and recovery capacity”.
- ✓ IPISA in coordination with the National System for Disaster Prevention, Mitigation and Care (SINAPRED) will implement joint actions “Action Protocol”.
- ✓ Prohibit the importation of host plants, museum plant products or regulated items originating from countries with presence.

 <b>LA GACETA</b> DIARIO OFICIAL Teléfonos: 2228-3791 / 2222-7344		
Tiraje: 255 Ejemplares 28 Páginas	Managua, Martes 18 de Abril de 2023	Valor C\$ 45.00 Cobros
AÑO CXXVII		No. 66
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Colección Digital "La Gaceta"  <b>ASAMBLEA NACIONAL</b> Digesto Jurídico Nicaragüense		



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## SIGNING OF AN INTER-INSTITUTIONAL ACTION PROTOCOL (IPSA AND SINAPRED)

- ✓ It allows the action of all institutions of the State of Nicaragua in the event of a Phytosanitary emergency caused by fusarium wilt disease (Foc R4T) in musaceae.
- ✓ IPSA in coordination with SINAPRED (National System for Disaster Prevention, Mitigation and Attention), coordinate and direct the participation of more than 60 Nicaraguan State institutions in case of an emergency (Police, Army, Customs, Migration, Universities, Ministry of Agriculture, among others); as well as international agencies such as FAO and OIRSA.





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## REGIONAL SIMULATION DEVELOPMENT SIMULATIONS AT AIR AND GROUND ENTRY POINTS



INSPECTION



ASPERSION TREATMENT

USE OF CANINE TECHNIQUE – AT THE AIRPORT



## REGIONAL SIMULATION DEVELOPMENT IN THE FIELD – GALILEA FARM – TOLA, RIVAS

- Developed an international field simulation, for strengthening surveillance and prevention capabilities, toward a possible Foc R4T outbreak, with the participation of 15 countries and 230 entities (160 males and 70 females) among specialists, producers, national technicians, institutions and universities . . . .





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## DEVELOPMENT OF REGIONAL FIELD SIMULATION WITH MOBILE LAB

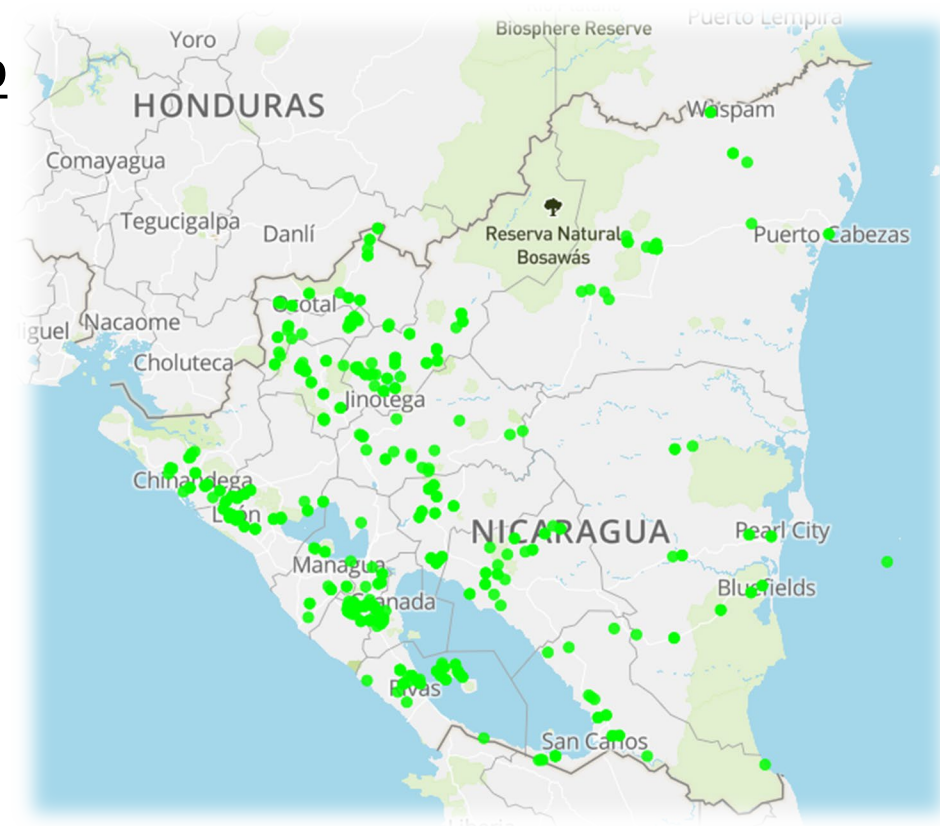
- Developed laboratory simulation in field, with the use of mobile unit for diagnosis of Foc R4T at field level with the LAMP technique, and other pathogens such as viruses and moko (Ralstonia) with the use of reactive strips.





## Foc R4T SURVEILLANCE (2023 – 2024)

- **5,968** hectares of mussels explored with **negative results to Foc R4T**, with the use of mobile application.
- **2,571** visits to backyard sites, wild, urban and other explored, with **negative results to Foc R4T**.
- **740** farm visits conducted, with **negative results to Foc R4T**.
- **522** samples were collected and analyzed with **negative results to Foc-R4T**, keeping the free-country condition (PCR-C, PCR-RT and LAMP).
- **215** analyzes performed with the LAMP technique, with **negative results to Foc-R4T**.





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**Thank you**

**IPPC Secretariat**

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