

Texas Phoenix Palm Decline: A New Palm Phytoplasma in Florida



Photo: Monica Elliott, University of Florida, Bugwood.org, #5475315



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Texas Phoenix Palm Decline (TPPD)



Phoenix sp. decline due to TPPD

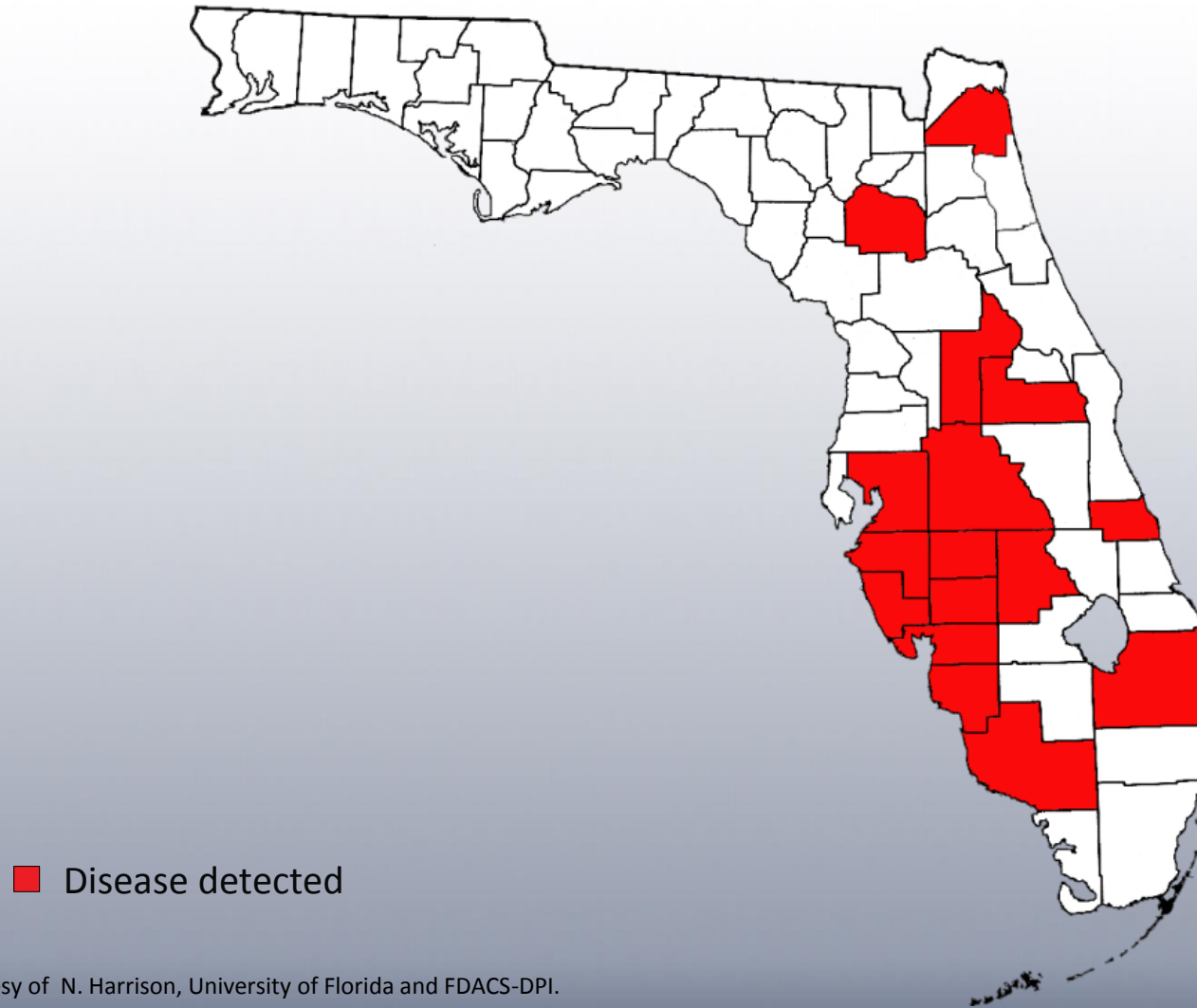
Photos: N. Harrison, University of Florida



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Distribution in Florida



Map courtesy of N. Harrison, University of Florida and FDACS-DPI.



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Host Plants



Phoenix canariensis



Phoenix dactylifera



Phoenix sylvestris



Sabal palmetto

Photos: N. Harrison and M. Elliott, University of Florida



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Early Symptoms

Sudden loss of fruit



Dead inflorescence (flowers)



Discoloration of the leaf tips

Symptoms on *Phoenix sylvestris*

Photos: N. Harrison and M. Elliott, University of Florida



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Later Symptoms



Dead spear leaf



Dead spear leaf hanging down
from the canopy

Symptoms on *Phoenix sylvestris*

Photos: N. Harrison and M. Elliott, University of Florida



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Potential Vectors of TPPD



Omolicna n. sp



Haplaxius crudus
(formerly *Myndus crudus*)



Ormenaria rufifascia

Photos:

Omolicna species novae – Lyle Buss, Department of Entomology and Nematology, University of Florida

Haplaxius (Myndus) crudus - J.D. de Filippis, University of Florida, www.bugwood.org, #0725076

Ormenaria rufifascia – WikiMedia Commons



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Monitoring and Management

- Monitor for symptoms
- Remove the palm after death of the spear leaf
- Use antibiotic injections (Oxytetracycline HCl)
 - Therapeutic when the spear leaf has not died
 - Preventive for healthy palms in the area
- Control of insect vectors is not recommended
- Use of host resistance for long-term solution
- Diversify the landscape



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Collaborating Agencies

- U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS)
- Cooperative Agricultural Pest Survey Program (CAPS)
- Florida Department of Agriculture and Consumer Services (FDACS), Division of Plant Industry
- National Plant Diagnostic Network (NPDN)
- Sentinel Plant Network (SPN)
- Protect U.S.
- University of Florida Institute of Food and Agricultural Sciences (UF-IFAS)



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