Step-By-Step Plant Diagnostics

The University of Wisconsin-Madison
Plant Disease Diagnostics Clinic

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Department of Plant Pathology
University of Wisconsin-Madison/Extension

The UW-Madison PDDC
Location

- Russell Labs
- Labs: Rm. 183, Rm. B37
- Office: Rm. 290

The UW-Madison PDDC
Staff

- Brian Hudelson (Director/Diagnostician)
- Dante Tauscheck (Assistant Diagnostician)
- Dixie Lang (IT/website/social media support)
- Andy Witherell (General lab support)

The UW-Madison PDDC
Diagnostic Services

- Sample types
  - Digital photos
  - Physical samples
- Diagnostic methods
  - Classical (culturing, moist chambers, microscopy, bioassays, etc.)
  - Serological (dip sticks, ELISA)
  - Molecular (PCR, DNA sequencing)
- Reporting methods
  - Email (digital photos)
  - Written report (physical samples)
  - Phone (critical diagnoses)

The UW-Madison PDDC
Diagnostic Fees

- Digital diagnosis: $20
- Physical sample base fee: $25
- Culturing fee: $5 per medium per plant part
- Serological test fees
  - Dip stick: $10
  - ELISA: $35
- DNA/RNA test fees
  - $35 for the first PCR reaction (includes extraction costs)
  - $15 for each additional PCR reaction
  - $35 for DNA sequencing

The UW-Madison PDDC
Diagnostic Fees

- Free diagnostics: $0
  - High economic impact disease samples: late blight
  - New and emerging/regulatory disease samples
    - Boxwood blight
    - Lipstick rust (Japanese apple rust/red star rust)
    - Sudden oak death/Ramorum blight
    - Ralstonia wilt
  - Needs-based samples
    - Individuals
    - Schools
    - Non-profits
  - Extension educational samples
    - Digital (all)
    - Physical (limited numbers)
The UW-Madison PDDC

Other PDDC Activities

• Outreach
  – Presentations
  – Trade shows/booths
  – Mass media

• Publications
  – Fact sheets
  – Scientific publications
  – Books

• Mass media
  – Wisconsin Public Radio
  – Wisconsin Public Television

The UW-Madison PDDC

PDDC Website

• https://pddc.wisc.edu

The UW-Madison PDDC

Social Media

• Facebook, Twitter (X), YouTube (@UWPDDC)
• UWPDDCLearn

The UW-Madison PDDC

Questions?

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