Fri@4

Fun and Games at the PDDC!

Brian D. Hudelson **Department of Plant Pathology** University of Wisconsin-Madison/Extension







Fun and Games at the PDDC! Location











Russell Labs

Labs: Rm. 183, Rm. B37

Office: Rm. 276

Fun and Games at the PDDC! Staff

- · Brian Hudelson (Director/Diagnostician)
- · Sue Lueloff (Assistant Diagnostician)
- · Dixie Lang (IT/website/social media support)
- · Ann Joy (data entry)
- · Alex Mikus (student hourly)
- · Gisele Guzman (AVID/TOPS high school intern)
- · Honorary PDDC staff
 - Laurie Ballentine (clerical support)
 - Andy Witherell (molecular expertise)

Fun and Games at the PDDC! **Diagnostic Services**

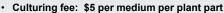
- Sample types
 - Physical samples (preferred)
 - Digital photos (as supplements)
- · Diagnostic methods
 - Classical (culturing, moist chambers, microscopy, bioassays, etc.)
 - Serological (ELISA, dip sticks)
 - Molecular (PCR, DNA sequencing, cloning)
- · Reporting methods
 - Written letter
 - Email (on request)
 - Phone (critical diagnoses)

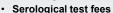
Fun and Games at the PDDC! **Molecular Diagnostics**

- · Agrobacterium tumefaciens
- Bretziella fagacearum
- · Carlaviruses (genus and hops species)
- · Clavibacter michiganensis subsp. sepedonicus
- · Dickeya dianthicola/D. didantii/D. solani
- Pectobacterium carotovora/P. atrosepticum/P. wasabiae
- · Phakopsora pachyrhizi
- · Phytoplasmas (including cloning)
- Pseudoperonospora humuli
- · Tobacco rattle virus
- Verticillium spp.
- · Xanthomonas spp.

Fun and Games at the PDDC! Diagnostic Fees

Base fee: \$20





- Dip stick: \$8 - 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



Fun and Games at the PDDC! Diagnostic Fees

- · Soil test fees
 - Alfalfa Aphanomyces race bioassy: \$150
 - Pea root rot bioassay: \$75
 - Quantitative Verticillium soil assay: \$75
 - Soybean cyst nematode soil assay: \$35
- · Free diagnostics: \$0
 - Digital samples
 - High economic impact disease samples: late blight
 - Regulated disease samples: Boxwood blight, SOD, Ralstonia wilt
 - Needs-based samples: individuals, schools, non-profits
 - Educational samples: Extension staff

Fun and Games at the PDDC! Diagnostic Revenue

	<u>2018</u>	<u>2019</u>
Sample fees	\$33,530	\$48,308
 Miscellaneous fees 	\$3,237	\$3,935
 NPDN grant 	\$45,454	\$45,454
 Extension S&E 	\$10,000	\$0
 Departmental funds 	\$5,500	\$500
• TOTAL	\$97,721	\$98,197
 Free diagnostics 	\$4,970	\$7,388
 Delinquencies 	\$480	\$2,968



Fun and Games at the PDDC! Diagnostic Samples

- Total samples 2019: 1506
 - Trees and shrubs: 47%
 - Vegetable: 22%
 - Field and forage: 8%
 - Herbaceous ornamentals: 7%
 - Fruit: 7%
 - Soil: 4%
 - Specialty crops: 4%Miscellaneous: 1%
- Average total samples (1999-2019): 1638
- Average total samples (1999-2010): 1847
- Average total samples (2011-2019): 1358

Fun and Games at the PDDC! Outreach Programs

- · Total programs in 2019: 111 in 22 counties
- · Oral presentations
 - Master Gardener
 - Ornamental horticulture (consumer and commercial)
 - Fruit and vegetable (consumer)
 - Field and forage crop
- Booths
 - Garden & Landscape Expo
 - WMARS Hort Field Day
- · Wisconsin Public Radio and Television
- · Total contacts: 224,009





Fun and Games at the PDDC! Web Site



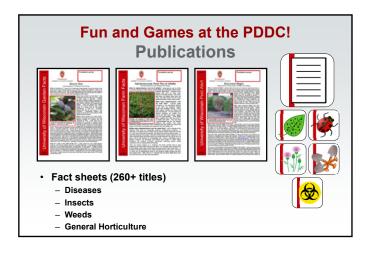


Fun and Games at the PDDC! Social Media

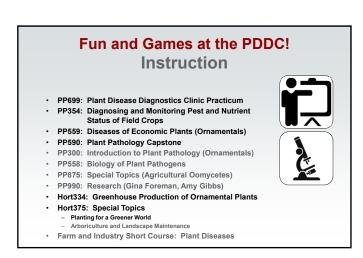


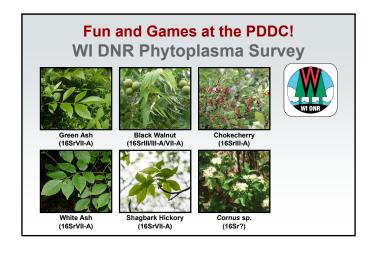


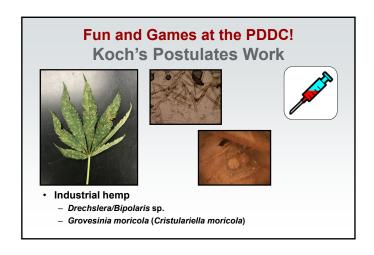
- · Facebook and Twitter (@UWPDDC)
- · 465 and 330 followers respectively
- · 30,286 and 39,745 impressions respectively

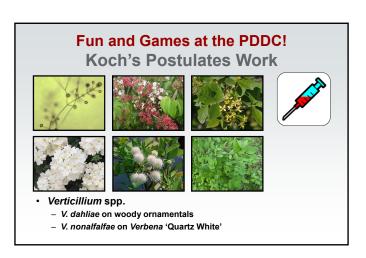


















Fun and Games at the PDDC! Questions?

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