

Resume

Jeffrey W. Hoy

Education:

Ph.D., 1983, Plant Pathology, University of California at Davis
M.S., 1978, Plant Pathology, University of Arkansas, Fayetteville, AR
B.A., 1974, History, Hendrix College, Conway, AR

Professional Experience:

09/19 – to present: Resident Coordinator, Sugar Research Station
1/02 – 11/02: Interim Department Head, Plant Pathology and Crop Physiology, La. State Univ.
11/01 – 12/01: Acting Department Head, Plant Pathology and Crop Physiology, La. State Univ.
7/95 – to date: Full professor, Louisiana State University
7/89 – 6/95: Associate Professor, Louisiana State University
3/84 – 6/89: Assistant Professor, Louisiana State University
3/83 – 2/84: Postdoctoral Research Associate, Univ. of California at Davis

Research Interests:

Pathogens and diseases affecting sugarcane, disease epidemiology and management, evaluation of disease resistance, soil microbial community effects on root disease

Teaching Activities:

Graduate Advisor (Major Professor): Six PhD and 13 MS students
PLHL 7083, Epidemiology and Crop Loss Assessment (developed course; instructor)
Agricultural Pest Management Area of Concentration, Plant and Soils Systems Curriculum, Plant Pathology Advisor

Professional Society Memberships:

American Phytopathological Society
American Society of Sugar Cane Technologists
International Society of Sugar Cane Technologists

Professional Service:

American Phytopathological Society

- Plant Disease, Associate Editor, 1990-1992
- Southern Division, Membership Committee, 1992
- Poster session chair, Annual Meeting, 1991

American Society of Sugar Cane Technologists

- Chairman at Large, 2017- to present
- Second Vice President, First Vice President, President, Past-President, 2010-2014
- Agricultural Section Chair, 2008-2010
- Councilor to ISSCT, 2008-2014
- Journal of the American Society of Sugar Cane Technologists, Managing Editor, 2003-2006
- Journal of the American Society of Sugar Cane Technologists, Agriculture Section Technical Editor, 1999-2000
- Annual Meeting, Program Chairman, 1991

International Society of Sugar Cane Technologists

- Organized and hosted ISSCT Pathology Workshop VII, May, 2003

USDA Regional Research Project, S241, Managing Rhizosphere Dynamics to Control Soilborne Pathogens and Promote Plant Productivity

- Secretary, 1986; Secretary, 1989; Vice-Chair, 1990, Chair, 1991

International Activities:

2016, July 11-15, Dominican Republic, Central Romana: Conducted review of pathology research program and establishment of tissue-culture healthy seedcane program

2015, November 5-15, Cairns, Australia, Sugar Research Australia: Chaired eight-member expert panel review of research effort addressing new problem: yellow canopy syndrome

2015, February 23-28, Guayaquil, Ecuador, Centro de Investigación de la Cana de Azúcar: Conducted review of pathology research program

2013, June 19-28, Sao Paulo, Brazil, International Society of Sugar Cane Technologists Congress XXVIII, Councilor for American Society of Sugar Cane Technologists

2010, March 4-12, Veracruz, Mexico, International Society of Sugar Cane Technologists Congress XXVII, Councilor for American Society of Sugar Cane Technology

2009, February 16-20, Queensland, Australia, Bureau of Sugar Experiment Stations: Three-member expert panel to review response of the BSES/CSIRO breeding program to the incursion of smut

2009, March 7-15, Brazil: Graduate student recruiting/explore MOUs for student and faculty exchange with Viscosa Federal University and Uberlandia Federal University

2005, March 13-17, Chichigalpa, Nicaragua: Nicaragua Sugar, Conducted review of disease management program and establishment of disease detection lab

2003, January 13-19, Fujian, People's Republic of China, Sugarcane Research Institute of the Fujian Academy of Agricultural Sciences: Conducted review of sugarcane pathology research

2003, February 21-28, Pointe-a-Pitre, Guadeloupe, Centre de Coopération Internationale en Recherche Agronomique pour le Développement: Reviewed sugarcane pathology research program

2003, May 11-16, Baton Rouge, Louisiana: Organized and hosted International Society of Sugar Cane Technologists Pathology Workshop

Awards and Honorary Societies:

2019, Honorary Membership, American Society of Sugar Cane Technologists, Louisiana Division

2019, La. Agricultural Experiment Station, Tipton Team Research Award

2017, Floyd S. Edmiston, Sr. Professorship in Agriculture and Natural Resource Management

2016, La. Agricultural Experiment Station, Doyle Chambers Research Award

2012, St. James Parish Sugarcane Industry, Outstanding Service Award

2004, Lafourche Parish Sugarcane Industry, Outstanding Service Award

2002, La. Agricultural Experiment Station, Tipton Team Research Award

2000, La. Agricultural Experiment Station, Tipton Team Research Award

1999, Amer. Soc. Sugar Cane Technol. Annual Meeting, Outstanding Presentation

1998, Gamma Sigma Delta Teacher Merit Honor Roll

1997, Gamma Sigma Delta Teacher Merit Honor Roll

1996, Gamma Sigma Delta Teacher Merit Honor Roll

Gamma Sigma Delta

Sigma Xi

Publications:

Book Chapters and Refereed Bulletins:

Rott, P., Comstock, J.C., Raid, R.N., and Hoy, J.W. 2021. Diseases of Sugarcane (*Saccharum officinarum* L.). Pages in: Diseases of Field Crops, C. A. Hollier, ed., APS Press St. Paul, MN. In Press.

Garces, F.F., Hoy, J.W., and Grisham, M.P. 2017. Detection and Quantification of *Xanthomonas albilineans* in Sugarcane Using Real-Time PCR. Pages 337-341 in: Detection of Plant Pathogenic Bacteria in Seed and Planting Material. M'B. Fatmi, R. Walcott, and N. Schaad, eds., APS Press, St. Paul, MN.

Grisham, M.P., and Hoy, J.W. 2017. Detection of *Leifsonia xyli* subsp. *xyli* in sugarcane. Pages 331-336 in: Detection of Plant Pathogenic Bacteria in Seed and Planting Material. M'B. Fatmi, R. Walcott, and N. Schaad, eds., APS Press, St. Paul, MN.

Hoy, J. W. 2000. Pythium root rot. Pages 141-146. In: A Guide to Sugarcane Diseases, P. Rott, R. A. Bailey, J. C. Comstock, B. J. Croft, and A. S. Saumtally, eds. Cirad, Montpellier, France.

Hoy, J. W. 1993. Sugarcane Smut in Louisiana: Biology and Control. La. State Univ. Agric. Exp. Sta. Bulletin No. 839. 33 pp.

Articles in Refereed Journals and Proceedings:

Fickett, N. D., Ebrahimi, L., Parco, A. P., Guitierrez, A. V., Hale, A. H., Pontif, M. J., Todd, J., Kimbeng, C. A., Hoy, J. W., Ayala-Silva, T., Gravois, K. A., Baisakh, N. 2020. An enriched sugarcane diversity panel for utilization in genetic improvement of sugarcane. Scientific Reports 10:13390. doi.org/10.1038/s41598-020-70292-8.

Rice, J. L, and Hoy, J. W. 2020. Recovery from mosaic caused by Sorghum mosaic virus in sugarcane and impact on yield. Plant Dis. 104:In press.

Bigott, A. F., Hoy, J. W., and Fultz, L. M. 2019. Soil properties, microbial communities, and sugarcane yield in paired fields with short- or long-term sugarcane cultivation histories. Appl. Soil Ecol. 142:166-176. doi.org/10.1016/j.apsoil.2019.04.027.

Hoy, J. W. 2019. Turning a blind eye to ratoon stunting disease of sugarcane in Australia may be putting it too strongly without a lot more evidence. Plant Dis. 103:790. doi.org/10.1094/PDIS-08-18-1468-LTE

Rice, J. L., Hoy, J. W., and Grisham, M. P. 2019. Sugarcane mosaic distribution, incidence, increase, and spatial pattern in Louisiana. Plant Dis.103:2051-2056.

Rice, J. L., Hoy, J. W., Hale, A. L., Todd, J. R., Grisham, M. P., Kimbeng, C. A., and Pontif, M. J. 2019. Evaluation of susceptibility to mosaic in Louisiana's sugarcane breeding program. J. Amer. Soc. Sugar Cane Technol. 39:1-11.

White, P. M., Jr., Hoy, J. W., Gravois, K. A., Waguespack, H. L., Jr., and Webber, C. L., III. 2019. Chemical treatments improve billet-planted cane growth and crop yields under temperate climatic conditions. J. Amer. Soc. Sugar Cane Technol. 39:12-24.

- Avellaneda, M. V., Parco, A. P., Hoy, J. W., and Baisakh, N. 2018. Putative resistance-associated genes induced in sugarcane in response to the brown rust fungus, *Puccinia melanocephala*, and their use in genetic diversity analysis of Louisiana sugarcane clones. *Plant Gene* 14:20-28.
- Chanda, S., Kanke, Y., Dalen, M., Hoy, J., and Tubana, B. 2018. Coefficient of variation from vegetation index for sugarcane population and stalk evaluation. *Agrosyst. Geosci. Environ.* 1:180016 doi:10.2134/age2018.07.0016.
- Gutierrez, A. F., Hoy, J. W., Kimbeng, C. A., and Baisakh, N. 2018. Identification of genomic regions controlling leaf scald resistance in sugarcane using a bi-parental mapping population and selective genotyping by sequencing. *Frontiers Plant Sci.*:doi.org/10.3389/fpls.2018.00877.
- Marques, J. P., Hoy, J. W., Appezzato-da-Gloria, B., Gutierrez, A. F., Vieira, M. L. C., and Baisakh, N. 2018. Sugarcane cell wall-associated defense responses to infection by *Sporisorium scitamineum*. *Frontiers Plant Sci.*: doi.org/10.3389/fpls.2018.00698.
- Hoy, J. W., Baisakh, N., Avellaneda, M. C., Kimbeng, C. A., and Hale, A. H. 2017. Detection, breeding, and selection of durable resistance to brown rust in sugarcane. *Int. Sugar J.* 119:902-906.
- Parco, A. S., Avellaneda, M. C., Ayala-Silva, T., Baisakh, N., Hoy, J. W., Hale, A. H., Kimbeng, C. A., Todd, J., and McCord, P. 2017. Distribution and prevalence of *Bru1*, a major brown rust resistance gene, in the sugarcane world collection. *Plant Breeding* 136: DOI: 10.1111/pbr.12508.
- Gutierrez, A., Garces, F. F., and Hoy, J. W. 2016. Evaluation of resistance to leaf scald by quantitative PCR of *Xanthomonas albilineans* in sugarcane. *Plant Disease* 100:1331-1338.
- Hoy, J. W., Baisakh, N., Avellaneda, M. C., Kimbeng, C. A., and Hale, A. H. 2016. Detection, breeding, and selection of durable resistance to brown rust in sugarcane. *Proc. Int. Soc. Sugar Cane Technol.* 29:1034-1039.
- Avellaneda, M. C., Hoy, J. W. and Pontif, M. J. 2015. Screening for resistance to sugarcane brown rust with controlled conditions inoculation. *Plant Dis.* 99:1633-1639.
- Hoy, J. W., Avellaneda, M. C., and Bombecini, J. 2014. Variability in *Puccinia melanocephala* pathogenicity and resistance in sugarcane cultivars. *Plant Dis.* 98:1728-1732.
- Hoy, J. W., and Blackwelder, N. 2014. Effects of seed treatment chemicals on stand establishment and yield obtained from billet planting in Louisiana. *Int. Sugar J.* 116:438-440.
- Parco, A. S., Avellaneda, M. C., Hale, A. H., Hoy, J. W., Pontif, M. J., Gravois, K. A., and Baisakh, N. 2014. Frequency and distribution of the brown rust resistance gene *Bru1* and implications for the Louisiana sugarcane breeding programme. *Plant Breeding* 133:654-659.
- Barrera, W. A., Hoy, J. W., and Li, B. 2013. Effects of temperature and moisture variables on brown rust epidemics in sugarcane. *J. Phytopathol.* 161:98-106.

- Garces, F. F., Gutierrez, A., and Hoy, J. W. 2013. Detection and quantification of *Xanthomonas albilineans* by qPCR and potential characterization of sugarcane resistance to leaf scald. *Plant Dis.* 98:121-126.
- Gravois, K. A., Parco, A., Waguespack, H. L., Pontif, M. J., Baisakh, N., Hoy, J. W., and Kimbeng, C. A. 2013. Effect of off-types on growth and sugar yield of L 01-283. *Proc. Int. Soc. Sugar Cane Technol.* 28:1-11.
- Grisham, M. P., Hoy, J. W., Haudenschild, J. S., and Hartman, G. L. 2013. First report of orange rust caused by *Puccinia kuehnii* in sugarcane in Louisiana. *Plant Dis.* 97:426.
- Hoy, J. W., and Blackwelder, N. 2013. Effects of seed treatment chemicals on stand establishment and yield obtained from billet planting in Louisiana. *Proc. Int. Soc. Sugar Cane Technol.* 28:1-7.
- Maroon-Lango, C. J., Hoy, J. W., Comstock, J. C., Grisham, M. P., Mock, R., Hale, A., Afghan, S., Croft, B. J., De la Cueva, F., Hoffmann, H., Kennedy, A., Orozco, H., Sauntally, S., Victoria, J., and Viswanathan, R. 2013. Current knowledge and practices related to seed transmission of sugarcane pathogens and movement of seed. *J. Amer. Soc. Sugar Cane Technol.* 33:20-29.
- Barrera, W. A., Hoy, J. W., and Li, B. 2012. Temperature and leaf wetness effects on infection of sugarcane by *Puccinia melanocephala*. *J. Phytopathol.* 160:294-298.
- Gravois, K. A., Bischoff, K. P., Hoy, J. W., Reagan, T. E., Pontif, M. J., Kimbeng, C. A., Hawkins, G. L., Fontenot, D. P., Sexton, D. R., and Orgeron, A. O. 2012. Registration of 'L 03-371' Sugarcane. *J. Plant Reg.* 6:31-36.
- Gravois, K. A., Bischoff, K. P., Pontif, M. J., LaBorde, C. M., Hoy, J. W., Reagan, T. E., Kimbeng, C. A., Legendre, B. L., Hawkins, G. L., Sexton, D. R., and Fontenot, D. P. 2011. Registration of 'L 01-299' sugarcane. *J. Plant Reg.* 5:191-195.
- Hoy, J. W., Savario, C. F., Arceneaux, A. E., and Barrera, W. A. 2011. Effects of cultivar and environmental conditions on billet planting tolerance. *J. Amer. Soc. Sugar Cane Technol.* 31:1-14.
- Savario, C. F., and Hoy, J. W. 2011. Microbial communities in sugarcane soils with and without a sugarcane cropping history. *Plant and Soil* 341:63-73. DOI 10.1007/s11104-010-0622-9
- Gravois, K. A., Bischoff, K. P., LaBorde, C. M., Hoy, J. W., Reagan, T. E., Pontif, M. J., Kimbeng, C. A., Hawkins, G. L., Sexton, D. R., and Fontenot, D. P. 2010. Registration of 'L 01-283' sugarcane. *J. Plant Reg.* 4:183-188.
- Hale, A. L., Hoy, J. W., and Veremis, J. C. 2010. Identification of sources of resistance to sugarcane red rot. *Proc. Int. Soc. Sugar Cane Technol.* 27:1-8.
- Bischoff, K. P., Gravois, K. A., Reagan, T. E., Hoy, J. W., LaBorde, C. M., Kimbeng, C. A., Hawkins, G. L., and Pontif, M. J. 2009. Registration of 'L 99-226' sugarcane. *J. Plant Reg.* 3:241-247.

- Gravois, K. A., Bischoff, K. P., Hoy, J. W., Reagan, T. E., LaBorde, C. M., Kimbeng, C. A., Hawkins, G. L., and Pontif, M. J. 2009. Registration of 'L 99-233' sugarcane. *J. Plant Reg.* 3:248-252.
- Grisham, M. P., Eggleston, G., Hoy, J. W., and Viator, R. P. 2009. The effect of *Sugarcane yellow leaf virus* infection on yield of sugarcane in Louisiana. *Sugar Cane Internat.* 27:92-95.
- Hoy, J. W., and Hollier, C. A. 2009. Effect of brown rust on yield of sugarcane in Louisiana. *Plant Dis.* 93:1171-1174.
- Viator, H. P., Flanagan, J., Gaston, L., Hall, S., Hoy, J., Hymel, T., Kennedy, C., Legendre, B., Wang, J. J., and Zhou, M. 2009. The influence of post-harvest residue management on water quality and sugarcane yield in Louisiana. *J. Amer. Soc. Sugar Cane Technol.* 29:1-10.
- Bischoff, K. P., Gravois, K. A., Reagan, T. E., Hoy, J. W., Kimbeng, C. A., Laborde, C. L., and Hawkins, G. L. 2008. Registration of 'L 79-1002' sugarcane. *J. Plant Reg.* 2:211-217.
- Gravois, K. A., Bischoff, K. P., Milligan, S. B., Martin, F. A., Hoy, J. W., Reagan, T. E., Kimbeng, C. A., LaBorde, C. M., and Hawkins, G. L. 2008. Registration of 'L 97-128' sugarcane. *J. Plant Reg.* 2:24-28.
- McAllister, C. D., Hoy, J. W., and Reagan, T. E. 2008. Temporal increase and spatial distribution of sugarcane yellow leaf and infestations of the aphid vector, *Melanaphis sacchari*. *Plant Dis.* 91:607-615.
- Hoy, J. W., Arceneaux, A. E., and Savario, C. F. 2006. Effects of date and rate of billet planting on sugarcane yield. *J. Amer. Soc. Sugar Cane Technol.* 26:116-124.
- Hoy, J. W., and Grisham, M. P. 2006. Effects of harvester type, inoculum source, and cultivar on spread of ratoon stunting disease. *Sugar Cane Internat.* 24(3):3-6,13.
- Daugrois, J. H., Hoy, J. W., and Griffin, J. L. 2005. Protoporphyrinogen oxidase inhibitor herbicide effects on *Pythium* root rot of sugarcane, *Pythium* species, and the soil microbial community. *Phytopathology* 95:220-226.
- McAllister, C. D., Hoy, J. W., and Reagan, T. E. 2005. Temporal increase of yellow leaf of sugarcane in Louisiana. *Proc. Int. Soc. Sugar Cane Technol.* 25:711-714.
- Bond, J. P., McGawley, E. C., and Hoy, J. W. 2004. Sugarcane growth as influenced by nematodes and *Pythium arrhenomanes*. *Nematropica* 34:245-256.
- Bond, J. P., McGawley, E. C., and Hoy, J. W. 2004. The impact of nematodes on sugarcane cultivars. *Nematropica* 34:235-243.
- Hoy, J. W., Richard, C. A., Jackson, W. R., and Waguespack, H. L., Jr. 2004. Effects of cultivars, fungicides, and fertilization at planting on yields obtained from whole stalk and billet planting in Louisiana. *J. Amer. Soc. Sugar Cane Technol.* 24:70-80.

- Salassi, M. E., Breaux, J. B., and Hoy, J. W. 2004. Estimated cost differences between whole-stalk and billet planting methods in Louisiana. *J. Amer. Soc. Sugar Cane Technol.* 24:250-257.
- Hoy, J. W., Bischoff, K. P., Milligan, S. B., and Gravois, K. A. 2003. Effect of tissue culture explant source on sugarcane yield components. *Euphytica* 129:237-240.
- Hoy, J. W., and Flynn, J. L. 2001. Control of ratoon stunting disease in Louisiana with seedcane produced through micropropagation and resistant cultivars. *Proc. Int. Soc. Sugar Cane Technol.* 24:417-421.
- Lopes, S., Damann, K. E., Hoy, J. W., and Grisham, M. P. 2001. Infectivity titration for assessing resistance to leaf scald among sugarcane cultivars. *Plant Dis.* 85:592-596.
- Bond, J. P., McGawley, E. C., and Hoy, J. W. 2000. Distribution of plant parasitic nematodes on sugarcane in Louisiana and efficacy of nematicides. *J. Nematol.* 32:493-501.
- Dissanayake, N., and Hoy, J. W. 1999. Organic soil amendment effects on root rot and sugarcane growth and characterization of the materials. *Plant Dis.* 83:1039-1046.
- Hoy, J. W., Grisham, M. P., and Damann, K. E. 1999. Spread and increase of ratoon stunting disease of sugarcane and comparison of disease detection methods. *Plant Dis.* 83:1170-1175.
- Dissanayake, N., Hoy, J. W., and Griffin, J. L. 1998. Herbicide effects on sugarcane growth, *Pythium* root rot, and *Pythium arrhenomanes*. *Phytopathology* 88:530-535.
- Yin, Z., and Hoy, J. W. 1998. Effects of oxygen deprivation and *Pythium* root rot on sugarcane red rot. *Plant Dis.* 82:1237-1241.
- Dissanayake, N., Hoy, J. W., and Griffin, J. L. 1997. Weed hosts of the sugarcane root rot pathogen, *Pythium arrhenomanes*. *Plant Dis.* 81:587-591.
- Yin, Z., and Hoy, J. W. 1997. Effect of stalk desiccation on sugarcane red rot. *Plant Dis.* 81:1247-1250.
- Martin, F. A., Bischoff, K. P., Milligan, S. B., Dufrene, E. O., Quebedeaux, K. L., Hoy, J. W., Reagan, T. E., Miller, J. D., and Legendre, B. L. 1996. Registration of 'LCP 86-454' sugarcane. *Crop Sci.* 36:206.
- Yin, Z., Hoy, J. W., and Milligan, S. B. 1996. Evaluation and heritability of resistance to sugarcane red rot. *Phytopathology* 86:662-667.
- Hoy, J. W., and Grisham, M. P. 1995. Epidemiology of sugarcane smut under subtropical conditions in Louisiana. *Proc. Int. Soc. Sugar Cane Technol.* 21:576-587.
- Hoy, J. W., and Grisham, M. P. 1994. Sugarcane leaf scald distribution, symptomatology, and effect on yield in Louisiana. *Plant Dis.* 78:1083-1087.

- Milligan, S. B., Martin, F. A., Bischoff, K. P., Quebedeaux, J. P., Dufrene, E. O., Quebedeaux, K. L., Hoy, J. W., Reagan, T. E., Legendre, B. L., and Miller, J. D. 1994. Registration of 'LCP 85-384' sugarcane. *Crop Sci.* 34:819-820.
- Chen, W., and Hoy, J. W. 1993. Molecular and morphological comparison of *Pythium arrhenomanes* and *P. graminicola*. *Mycological Res.* 97:1371-1378.
- Hoy, J. W., Jiaxie, Z., Grelen, L. B., and Geaghan, J. P. 1993. Longevity of teliospores of *Ustilago scitaminea* in soil. *Plant Dis.* 77:393-397.
- Bischoff, K. P., Milligan, S. B., Martin, F. A., Dufrene, E. O., Quebedeaux, J. P., Quebedeaux, K. L., Hoy, J. W., Reagan, T. E., Giamalva, M. J., and Legendre, B. L. 1992. Registration of 'LHo 83-153' sugarcane. *Crop Sci.* 32:1291.
- Chen, W., Hoy, J. W., and Schneider, R. W. 1992. Species-specific polymorphisms in transcribed ribosomal DNA of five *Pythium* species. *Exp. Mycol.* 16:22-34.
- Chen, W., Schneider, R. W., and Hoy, J. W. 1992. Taxonomic and phylogenetic analyses of ten *Pythium* species using isozyme polymorphisms. *Phytopathology* 82:1234-1244.
- Lee, Y. S., and Hoy, J. W. 1992. Interactions among *Pythium* species affecting root rot of sugarcane. *Plant Dis.* 76:735-739.
- Martin, F. A., Bischoff, K. P., Dufrene, E. O., Milligan, S. B., Quebedeaux, J. P., Hoy, J. W., Reagan, T. E., Giamalva, M. J., Miller, J. D., Breaux, R. D., and Legendre, B. L. 1992. Registration of 'LCP 82-89' sugarcane. *Crop Sci.* 32:499.
- Chen, W., Hoy, J. W., and Schneider, R. W. 1991. Comparisons of soluble proteins and isozymes for seven *Pythium* species and applications of the biochemical data to *Pythium* systematics. *Mycol. Res.* 95:548-555.
- Hoy, J. W., Grisham, M. P., and Chao, C. P. 1991. Production of sori and dispersal of teliospores of *Ustilago scitaminea* in Louisiana. *Phytopathology* 81:574-579.
- Chao, C. P., Hoy, J. W., Saxton, A. M., and Martin, F. A. 1990. Heritability of resistance and repeatability of clone reactions to sugarcane smut in Louisiana. *Phytopathology* 80:622-626.
- Chao, C. P., Hoy, J. W., and Martin, F. A. 1989. Evaluation of traits associated with resistance to sugarcane smut caused by *Ustilago scitaminea*. *J. Amer. Soc. Sugar Cane Technol.* 9:6-16.
- Hoy, J. W., and Schneider, R. W. 1989. The role of *Pythium* in sugarcane stubble decline in Louisiana. *Proc. Int. Soc. Sugar Cane Technol.* 20:695-703.
- Hoy, J. W., and Grisham, M. P. 1988. Spread and increase of sugarcane smut in Louisiana. *Phytopathology* 78:1371-1376.
- Hoy, J. W., and Schneider, R. W. 1988. Role of *Pythium* in sugarcane stubble decline: Pathogenicity and virulence of *Pythium* species. *Phytopathology* 78:1688-1692.

Hoy, J. W., and Schneider, R. W. 1988. Role of *Pythium* in sugarcane stubble decline: Effects on plant growth in field soil. *Phytopathology* 78:1692-1696.

Hoy, J. W., Grisham, M. P., and Benda, G. T. A. 1987. Effect of Louisiana growing conditions on the overwintering of smut-infected sugarcane. *Sugar Cane* 1987(3):11-15.

Hoy, J. W., Hollier, C. A., Fontenot, D. B., and Grelen, L. B. 1986. Incidence of sugarcane smut in Louisiana and its effect on yield. *Plant Dis.* 70:59-60.

Hoy, J. W., and Mircetich, S. M. 1984. Prune brownline disease: Susceptibility of prune rootstocks and tomato ringspot virus detection. *Phytopathology* 74:272-276.

Hoy, J. W., Mircetich, S. M. and Lownsbery, B. F. 1984. Differential transmission of *Prunus* tomato ringspot virus strains by *Xiphinema californicum*. *Phytopathology* 74:332-335.

Mircetich, S. M. and Hoy, J. W. 1981. Brownline of prune trees, a disease associated with tomato ringspot virus infection of Myrobalan and peach rootstocks. *Phytopathology* 71:30-35.

Other Publications:

Baisakh, N., Kimbeng, C., Pontif, M., Hoy, J., Gravois, K., Hale, A., and Todd, J. 2020. Genomic selection: A new marker-assisted breeding tool to facilitate Louisiana sugarcane variety development. *Sugar Bull.* 98(4):23-25.

Hoy, J. 2020. Everything starts in the field – but which field? *Sugar Bull.* 98(9):27-29.

Hoy, J., and Fultz, L. 2020. Why does sugarcane grow better in ‘new ground’? *Sugar J.* 82(12):11,14-15.

Hoy, J. W., and Savario, C. F. 2020. Billet planting research. Pages in: *Sugarcane Research Annual Progress Report, 2019.* La. State Univ. Agric. Exp. Sta. publ.

Hoy, J. W., Savario, C. F., Singh, R., Zamora, C., and Cortes, J. D. 2020. Pathology Research. Pages in: *Sugarcane Research Annual Progress Report, 2019.* La. State Univ. Agric. Exp. Sta. publ.

Hoy, J. 2019. Planted your healthy seedcane yet? *Sugar Bull.* 97(11):23-25.

Hoy, J., Gravois, K., and Orgeron, A. 2019. What’s the matter with 299 and seed-cane this spring? It’s complicated. *Sugar Bull.* 97(9):37-39.

Hoy, J. W., Gravois, K.A., and Savario, C. F. 2019. Billet planting research. Pages 177-185 in: *Sugarcane Research Annual Progress Report, 2018.* La. State Univ. Agric. Exp. Sta. publ.

Hoy, J. W., Savario, C. F., Singh, Rice, J., and Cortes, J. D. 2019. Pathology research. Pages 150-163 in: *Sugarcane Research Annual Progress Report, 2018.* La. State Univ. Agric. Exp. Sta. publ.

Baisakh, N., Hoy, J., Pontif, M., Kimbeng, C., Gravois, K., Hale, A., and Todd, J. 2018. Marker-assisted breeding: Moving Louisiana sugarcane forward. *Sugar Bull.* 96(4):23-25.

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Hoy, J. W., Arceneaux, A. E., Savario, C. F., and Gravois, K. A. 2009. Evaluation of billet planting tolerance in commercial and experimental sugarcane varieties in Louisiana. *J. Amer. Soc. Sugar Cane Technol.* 29:78.

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Viator, H., Gaston, L., Flanagan, J., Hall, S., Hoy, J., Hymel, T., Legendre, B., and Wang, J. 2007. The influence of combine-residue management on surface water quality and sugarcane productivity. *J. Amer. Soc. Sugar Cane Technol.* 27:65.

Gravois, K., Bishchoff, K., Reagan, T. E., Hoy, J., and Kimbeng, C. 2006. L 99-226 and L 99-233 – Two new sugarcane varieties for the Louisiana sugar industry. *J. Amer. Soc. Sugar Cane Technol.* 26:48.

Grisham, M. P., Hoy, J. W., Godshall, M. A., and Eggleston, G. 2005. Effect of Sugarcane yellow leaf virus on sugarcane yield and juice quality of LCP 85-384 and Ho 95-988. *J. Amer. Soc. Sugar Cane Technol.* 25:110.

Veremis, J. C., and Hoy, J. W. 2005. Evaluation of resistance to sugarcane red rot in basic germplasm and early generation crosses in Louisiana. *J. Amer. Soc. Sugar Cane Technol.* 25:120.

Savario, C. F., and Hoy, J. W. 2004. Microbial communities in soil with and without a sugarcane cropping history. *J. Amer. Soc. Sugar Cane Technol.* 24:95.

Hoy, J. W., Mircetich, S. M., Bethell, R. S., De Tar, J. E., and Holmberg, D. M. 1984. The cause and control of prune brownline disease. *California Agriculture* 38(7-8):12-13.

Mircetich, S. M., and Hoy, J. W. 1980. Brownline: Spreading in prunes. *Diamond/Sunsweet News* 2(1):5,22.

Grants and Contracts:

2019 (\$77,000)

American Sugar Cane League, Pathology Research, \$30,000

Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000

Kleentek, Sugarcane Disease Detection Lab, \$17,000

FMC, Fungicide testing, \$12,000

Syngenta, Fungicide testing, \$1,000

2018 (\$125,442)

American Sugar Cane League, Pathology Research, \$42,000

Helena Chemical Company, Sugarcane Disease Detection Lab, \$29,000

Kleentek, Sugarcane Disease Detection Lab, \$29,000

USDA Crop Germplasm Committee for Sugarcane, \$17,442

FMC, Fungicide testing, \$8,000

2017 (\$\$70,000)

American Sugar Cane League, Pathology Research, \$30,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
FMC, Fungicide testing, \$4,000

2016 (\$71,500)

American Sugar Cane League, Pathology Research, \$30,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
Syngenta, Fungicide testing, \$7,500

2015 (\$64,000)

American Sugar Cane League, Pathology Research, \$30,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000

2014 (\$67,000)

American Sugar Cane League, Pathology Research, \$30,000
BASF Corp., Fungicide testing, \$3,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000

2013 (\$83,000)

American Sugar Cane League, Pathology Research, \$30,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
Helena Chemical Co., Sugarcane Disease Detection Lab, \$17,000
BASF Corp., Fungicide testing, \$9,000
Syngenta, Fungicide testing, \$9,000

2012 (\$87,000)

American Sugar Cane League, Pathology Research, \$20,000
American Sugar Cane League, Pathogen Detection Lab, \$10,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
BASF Corp., Fungicide testing, \$8,000
Syngenta, Fungicide testing, \$8,000
Syngenta, Plene planting system, \$6,000
FMC, Fungicide testing, \$8,000
Brandt, Ni suppression of rust, \$10,000

2011 (\$264,663)

USDA AFRI CAPS, A Regional Program for Production of Multiple Agricultural Feedstocks and Processing to Biofuels and Biobased Chemicals, 2011-2016, \$17,343,165 (\$51,295 - \$10,259/yr), V. Kochergin PD et al.
USDA NIFA/AFRI, Managing Insect Pests and Diseases in Multi-use Landscapes of Bioenergy and Conventional Cropping Systems in the Gulf Coast, 2011-2015, \$999,640 (\$134,819), T.E. Reagan PI, J. Hoy, A. Showler, M. Way, T. Wilson, Y. Yang Co-PIs.
American Sugar Cane League, Pathology Research, \$15,000

American Sugar Cane League, Pathogen Detection Lab, \$10,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
BASF Corp., Fungicide testing, \$10,000
Syngenta, Fungicide testing, \$5,000
USDA-ARS, Establishing the Likelihood of Seed Transmission of Sugarcane Pathogens, 2011-2012, \$14,000 (\$4,549), A. Hale, J. Hoy

2010 (\$185,594)

NIFA/AFRI, Marker-assisted Breeding to Enhance Disease Resistance in Corn, Rice, and Sugarcane, 2010-2013, \$499,857 (\$118,594 for sugarcane leaf scald research), P. Subudhi PI, J. Hoy, J. Ham, C. Kimbeng, and N. Baisakh, Co-PIs
American Sugar Cane League, Pathology Research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$10,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
BASF Corp., Fungicide testing, \$7,000
Dupont Crop Protection, Fungicide testing, \$1,000

2009 (\$74,250)

American Sugar Cane League, Pathology Research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$10,000
BASF Corp., Fungicide testing, \$8,000
Bayer Corp., \$5,250
Dupont, \$1,000
Syngenta, \$1,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000

2008 (\$73,200 total)

American Sugar Cane League, Pathology Research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$10,000
BASF Corp., Fungicide testing, \$8,200
Syngenta Corp., \$6,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000

2007 (\$78,520 total)

American Sugar Cane League, Pathology research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$10,000
BASF Corp., Fungicide testing, \$2,000
Bayer Chemical, Fungicide testing, \$8,000
Dow Chemical Co., Fungicide testing, \$2,500
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
IR-4, Fungicide testing, \$6,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
Louisiana Department of Agriculture and Forestry, Sudden oak death testing, \$1,020

2006 (\$68,270 total)

American Sugar Cane League, Pathology research, \$12,000
American Sugar Cane League, Pathogen Detection Lab, \$10,000
BASF Corp., Fungicide testing, \$2,000
Goosecreek Corp., Sugarcane Disease Detection Lab, \$8,500
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
Louisiana Department of Agriculture and Forestry, Sudden oak death testing, \$1,770

2005 (\$95,360 total)

American Sugar Cane League, Pathology research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$17,000
Goosecreek Corp., Sugarcane Disease Detection Lab, \$17,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
CalAgri Products, Evaluation of pesticide, \$7,500 (with E. C. McGawley)
Louisiana Department of Agriculture and Forestry, Sudden oak death testing, \$4,860

2004 (\$88,294.33 total)

American Sugar Cane League, Pathology research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$17,000
Goosecreek Corp., Sugarcane Disease Detection Lab, \$17,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000
Louisiana Department of Agriculture and Forestry, Sudden oak death testing, \$5,294.33

2003 (\$83,000 total)

American Sugar Cane League, Pathology research, \$15,000
American Sugar Cane League, Pathogen Detection Lab, \$17,000
Helena Chemical Company, Sugarcane Disease Detection Lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000, 2003
Goosecreek Corp., Sugarcane Disease Detection Lab, \$17,000

2002 (\$165,500 total)

American Sugar Cane League, Pathology research, \$18,000
American Sugar Cane League, Pathogen Detection Lab, \$17,000
Helena Chemical Company, Clones from local quarantine, \$15,000
Goosecreek Corp., Local quarantine, \$5,000
CalAgri Products, Evaluation of pesticides, \$10,500 (with E. C. McGawley)
Board of Regents, Equipment of biosecurity, \$100,000 (with C. A. Clark)

2001 (\$52,000 total)

American Sugar Cane League, Pathology research, \$18,000
American Sugar Cane League, Pathogen detection lab, \$17,000
Kleentek, Sugarcane Disease Detection Lab, \$17,000

2000 (\$57,961 total)

American Sugar Cane League, Pathology research, \$18,000
American Sugar Cane League, Pathogen Detection Lab, \$15,000

Kleentek, Sugarcane Disease Detection Lab, \$15,000
Bangladesh Sugarcane Research Institute, Visiting scientist training, \$7,961
Valent Chemical Company, Herbicide effects on root rot, \$2,000

1999 (\$61,000 total)

American Sugar Cane League, Billet planter, \$5,000 (with K. A. Gravois)
American Sugar Cane League, Pathology research, \$15,000
American Sugar Cane League, Pathogen detection lab, \$15,000
Kleentek, Sugarcane Disease Detection Lab, \$15,000
FAO, Visiting scientist practical training, \$6,000
M. A. Patout, Billet planting research, \$5,000

1998 (\$50,000 total)

American Sugarcane League, Disease Detection Lab, \$15,000
American Sugar Cane League, Pathology Research, \$15,000
Thermo-Trilogy, Disease Detection Lab, \$15,000
M. A. Patout, Billet planting research, \$5,000

1997 (\$45,000 total)

American Sugar Cane League, Disease Diagnosis Lab, \$15,000
American Sugar Cane League, Pathology research, \$10,000
Thermo-Trilogy, Disease Diagnosis Lab, \$15,000
M. A. Patout, Billet planting research, \$5,000

1996 (\$45,649)

American Sugar Cane League, Pathogen Detection Lab, \$18,700
American Sugar Cane League, Sugarcane Pathology Research, \$17,000
Kleentek, Pathogen Detection Lab, \$4,949
M. A. Patout, Billet planting research, \$5,000

1995 (\$21,330)

American Sugar Cane League, Leaf Scald Resistance in Louisiana Varieties, \$2,200
American Sugar Cane League, Resistance to stalk rots and factors affecting severity, \$9,110
Natural Resources Conservation Service, Organic waste amendments to suppress root diseases and increase sugarcane growth and yield, \$10,000

1994 (\$19,000 total)

American Sugar Cane League, Resistance to stalk rots and factors affecting disease severity, \$12,000
American Sugar Cane League, Comparison of infection and spread of ratoon stunting disease and leaf scald in Louisiana sugarcane varieties, \$7,000 (with K. E. Damann)

1993 (\$14,500)

American Sugar Cane League, Hoist for hot water treatment unit, \$1,500
American Sugar Cane League, Evaluation of resistance to stalk rots and factors affecting disease severity, \$13,000

1992 (\$7,000)

American Sugar Cane League, Current status, evaluation, and heritability of resistance to stalk rots, \$4,000

WinRock International, Sponsored visit for S. K. Duttamajumder, \$3,000

1991 (\$4000)

American Sugar Cane League, Current status, evaluation, and heritability of resistance to stalk rots, \$4,000

1990 (\$29,486)

American Sugar Cane League, Current status, evaluation, and heritability of resistance to stalk rots, \$12,000

Ciba Geigy Corp., Pesticide testing, \$800

USDA-OICD, Practical training for K.W. Win, \$14,036

Winrock International, Practical training for N. Singh, \$2,650

1989 (\$18,040)

American Sugar Cane League, Role of Pythium root rot in stubble decline, \$15,040

Ciba Geigy Corp., Pesticide testing, \$3,000

1988 (\$216,040)

American Sugar Cane League, Role of Pythium root rot in stubble decline, \$15,040

Ciba Geigy Corp., Pesticide testing, \$3,000

Louisiana Education Quality Support Fund, Subprogram B, The Cause and Control of Feeder Root Necrosis in Rice and Sugarcane, \$198,000 (for 2 years with R.W. Schneider)

1987 (\$108,476)

American Sugar Cane League, Role of Pythium root rot in stubble decline, \$15,040

Ciba Geigy Corp., Pesticide testing, \$3,000

Louisiana Education Quality Support Fund, Subprogram B, The Cause and Control of Feeder Root Necrosis in Rice and Sugarcane, \$90,436 (for 2 years with R.W. Schneider)

Invited Research Presentations (In State):

American Society of Sugar Cane Technologists, Louisiana Division, Annual Meeting:

2018, 2017, 2016, 2015, 2014, 2013, 2012, 2009, 2008, 2006, 2005(2), 2002, 2001, 2000, 1998, 1997, 1996, 1994, 1992, 1991, 1988, 1987, 1986, 1985

American Sugar Cane League, Contact Committee: 2016, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2005, 2002, 2001, 2000, 1998, 1996, 1993, 1992, 1990, 1986, 1985

Louisiana Agricultural Consultants Association, Annual Meeting: 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 1999, 1996

Louisiana Cooperative Extension Presentations:

2019 (9), 2018 (14), 2017 (15), 2016 (16), 2015(8), 2014(13), 2013(12), 2012(13), 2011(12), 2010(9), 2009(8), 2008(8), 2007(14), 2006(9), 2005(11), 2004(8), 2003(5), 2002(10), 2001(14), 2000(9), 1999(12), 1998(12), 1997(22), 1996(8), 1995(5), 1994(10), 1993(4), 1992(3), 1991(6), 1990(2), 1989(6), 1988(8), 1987(10), 1986(6), 1985(7)

University Service:

Louisiana Agricultural Experiment Station/AgCenter

1984 – present, Sugarcane Variety Advancement Committee
2008-2011, Faculty Council, Executive Committee 2011, Business Plan Committee 2011
2004, Awards Committee
2003, Dismissal Committee
2002, Biosecurity Committee
2001, Sugarcane Web Page Development
1997 – 2000, Louisiana Agriculture Editorial Board
1993 – 1999, Sugarcane ACE Chair

College of Agriculture

1993 – 1995, Faculty Policy Committee
Promotion and Tenure Committee, when serving as chair of Department committee

Faculty Senate

1993 – 1996, Committee on Committees

Department of Plant Pathology and Crop Physiology

Committees: Safety and Operations, Promotion and Tenure, Student Recruiting, Facility and Services, Social Activities
1/02 – 11/02, Interim Head
11/01 – 12/01, Acting Head
2000 – 2001, Life Sciences Annex Planning Liaison, Equipment purchase and move coordinator
Multiple Search Committees and Ad Hoc Committees

Louisiana Department of Agriculture and Forestry:

2015, Review of Seedcane Certification Standards
2012, Coordinated response to first detection of orange rust
2010, Coordinated development of Louisiana Action Plan for a New Pathogen or Pest Incursion on Sugarcane
2007, Coordinated development of regulations for importation of sugarcane plants, plant parts, or tissue culture into Louisiana from sugarcane producing states
2004-2007, Disease testing for response to introduction of sudden oak death
2003-2010, Coordinated development of Seedcane Certification standards for Yellow Leaf and conducted disease testing
1997-2010, Developed procedures for Local Quarantine to provide Foundation Stock for Certified Seedcane production and conducted quarantine
1994, Formulated Leaf Scald Action Steps and organized and conducted state-wide survey following introduction of leaf scald
1986, 1987, Development of standards for Certified Seedcane Program, Inspector training