

Pete W. Jacoby
Professor
Department of Crop and Soil Sciences
College of Agricultural, Human, and Natural Resources Sciences
Washington State University

EDUCATION

- 1971 Ph.D. **University of Wyoming**, Plant Sciences Division - Rangeland Ecology
Dissertation: *Interrelationships of Vegetation and Environmental Factors on a Mountain Watershed in Southeastern Wyoming*
- 1968 M.S. **University of Wyoming**, Plant Sciences Division - Rangeland Remediation
Thesis: *Revegetation Studies on Coal Spoil Banks in Southwestern Wyoming*
- 1966 B.S. **Texas A&M University**, Rangeland and Forestry Sciences

ACADEMIC FACULTY ADVANCEMENT

- 1983 **Professor** - Promoted while serving as Research Project Leader - Invasive Plant Management, *Texas Agric. Experiment Station* – Texas A&M Agricultural R&E Center - Vernon, TX
- 1976 **Associate Professor** - Granted on appointment as Research Project Leader - Invasive Plant Management, *Texas Agric. Experiment Station* – Texas A&M Agricultural R&E Center - Vernon, TX
- 1974 **Assistant Professor** – Granted on appointment as State Extension Specialist – Natural Resources, Arizona Cooperative Extension Service and School of Renewable Natural Resources – *University of Arizona* – Tucson, AZ
- 1970 **Extension Specialist** – *Texas Agricultural Extension Service* – Texas A&M University Area Extension Center – Fort Stockton, TX

CURRENT POSITION

Academic Rank and Location: Professor, WSU Pullman campus

Appointment Splits: Teaching (25), Research (25), Extension (50)

Academic Unit: Department of Crop and Soil Sciences

Affiliated Units: Horticulture / Precision Agricultural and Automated Systems /
Viticulture & Enology

ACCOMPLISHMENTS

(in present position)

TEACHING

- Fall 2016 – Crops 360 – 55 Students/Soils 360 – 8 Students
Student ratings of instructor: Outstanding=3%; Above Ave.=26%; Ave.=38%
Student ratings of class: Outstanding=0%; Above Ave.=28%; Ave.=36%
- Summer/Fall 2016 – Crops 512 – 10 Students/Soils 502 – 4 Students
Student ratings of instructor: Unavailable
Student ratings of class: Unavailable
- Spring 2015 – Crops/Soils 412 - 16 Students
Student ratings of instructor: Outstanding =55%; Above Ave. =45%
Student ratings of class: Outstanding =18%; Above Ave. =73%; Ave. =9%
- Fall 2015 – Crops/Soils 360 - 58 Students
Student ratings of instructor: Outstanding=31%; Above Ave.=56%; Ave.=13%
Student ratings of class: Outstanding=19%; Above Ave.=59; Ave.=22%
- Awarded CAHNRS Summer Internship (\$4,000)
Hosted Jeremy R. Thompson and recruited him for a Ph.D, degree program
Hired Zara B. York as summer student worker
Both students have prepared and presented posters to agricultural audiences.
- Served as Honors College thesis project advisor for Evan Grey (undergraduate)

RESEARCH

- 2016 – Prepared and submitted 13 competitive grant proposals as lead PI (\$461,520) and as co-PI on 3 proposals (\$356,643)
- 2016 – Received \$82,000 from 4 new grants
- 2016 - Funded one Associate in Research (Sadeghi) and two Ph.D. graduate students (Ma and Thompson)
- 2016 – Established new collaborations with scientists in Oregon (Qian) and Idaho (Shellie) while maintaining collaborations with WSU scientists
- 2015 - Prepared and submitted 16 competitive grant proposals as lead PI (\$ 6,467,417 total requested) and participated in an additional 4 proposals as co-PI (\$ 948,512 total requested).
- 2015 - Received 6 grants (all as lead PI) with a total of \$ 222,161 in funding for expenditure in 2015.

Pete W. Jacoby

- 2015 - Funded one Associate in Research (S.H. Sadeghi) and one Ph.D. graduate student (Xiaochi Ma) to join my research team.
- 2015 - Established collaborations with scientists in CA, OR, ID and NE for developing future multi-state, multi-disciplinary grant proposals
- 2015 - Established international collaboration with Chinese scientists resulting from past and pending visiting scientist scholarships funded through Chinese Scholarship Council

EXTENSION

- 2016 - Nine poster and/or oral presentations were made to professional and commodity audiences at local, state, regional and national meetings to extend research findings and increase awareness of new irrigation techniques to increase crop water use efficiency
- 2016 – Four extension and popular press releases were prepared and published in either extension publications or trade journals
- 2016 – Two segments for films featuring drought strategies or irrigation efficiencies were contributed through requested on-site interviews and film clips by media services
- 2016 – One webinar was presented with co-worker Lav Khot at the request of Decagon Devices in which direct root-zone micro-irrigation and remote sensing for water management
- 2016 – In collaboration with my graduate student, X.C. Ma, an interactive website was launched for the WSU Jacoby Lab Group
- 2015 - Our research team prepared 12 posters that were presented at professional and commodity meetings to extend the awareness of our efforts to develop irrigation systems capable to increasing water use efficiency in vineyards.
- 2015 - A stakeholder advisory group was utilized to provide advice and input for our field research program. This group was helpful in steering us to collaborators who provided approximately 2.5 acres of irrigated vineyard for use in our program.
- 2015 - I obtained funding via a mini-grant from CSANR to participate in a board meeting of the National Grape and Wine Initiative board meeting in Washington, D.C. in April. This meeting exposed me to leaders of the wine grape industry from across the nation to increase my knowledge of research and educational priorities of this industry.
- 2015 - Maintained home page on CSS department website and received 8 inquiries from potential international graduate students seeking opportunity to join my program
- 2015 - Was invited to appear in film documenting impact of drought on irrigated agriculture and provided interview with radio farm program and local newspaper journalist to discuss receipt of WSDA Specialty Crop Block Grant

SERVICE

- 2016 – Served as CSS representative on the WSU Faculty Senate and served on the Graduate Studies Committee
- 2016 – Served as a judge for SURCA during WSU Showcase Event
- 2016 – Assisted in evaluation of Undergraduate Summer Internships at request of Herb Lengel in Academic Programs
- 2016 - Reviewed 4 manuscripts for professional journals at request of editors
- 2016 – Served on faculty mentoring committee for Zhiwu Zhang
- 2016 – Served on Ph.D. committees for M.Z. Amini and for C. Zuniga, both from BSysE
- 2015 - Completed first year as CSS representative on the WSU Faculty Senate and was invited to become a member of the Graduate Studies Committee
- 2015 - Established active cross-disciplinary collaboration with scientists and educators within CAHNRS, WSU, PNW, National, and International levels
- 2015 - Reviewed 2 manuscripts for professional journals at request of editors

PROFESSIONAL DEVELOPMENT

- 2016 – Advanced to Chair of the W3128 multistate research/extension project after serving as secretary and chair-elect
- 2016 – Participate in board meetings of National Grape & Wine Initiative in Napa and Monterey, CA to as member of Production Efficiency Committee
- 2015 - Participated as Secretary for USDA NIFA multi-state project W3128 and currently serve as Chair-elect of this project focused on sub-surface micro-irrigation
- 2015- Participated in board meetings of National Grape & Wine Initiative in Washington, DC and Beltsville, MD and serve on Production Efficiency Committee

CURRENT GRANTS AND CONTRACTS

WA State Wine Commission & WA Grape and Wine Research Program

Title: Effects of low volume root zone deficit irrigation on Cabernet Sauvignon grape and wine quality.

Investigators: **Pete W. Jacoby**

Term & Value: 2016-2017 \$11,000

Pete W. Jacoby

Northwest Center for Small Fruit Research

Title: Precision sub-surface irrigation to regulate wine grape physiology (wine grapes)
Investigators: **PW Jacoby**, Sindhu Sankaran, Markus Keller, Troy Peters, Lav Khot, A.J. McElrone
Term & Value: 2015-2018 \$ 96,693

WA State Concord Grape Research Council

Title: Balancing Concord production and water use with root-zone micro-irrigation (juice grapes only)
Investigators: **Pete W. Jacoby**
Term & Value: 2016-2018 \$ 44,204

WSDA – SCRI Block Grant

Title: Deep sub-surface micro-irrigation to increase water use efficiency in Washington vineyards
Investigators: **Pete W. Jacoby**, S.H. Sadeghi, Sindhuja Sankaran, Lav R. Khot
Term & Value: 2015-2018 \$ 249,971

WSARE – Graduate Student Research Support Program

Title: Effect of sub-surface micro-irrigation on water use efficiency
Investigators: X.C. Ma and **P.W. Jacoby**
Term & Value: 2016-2018 \$25,000

GRANT REQUESTS PENDING REVIEW

WSU - CAHNRS Emerging Research Issues for WA Agriculture

Title: Potential of improved root-stocks to enhance grapevine water use efficiency in WA
Investigations: P.W. Jacoby
Term & Value: pending \$79,769

WA State Grape & Wine Research Program

Title: Effects of low volume root zone deficit irrigation on Cabernet Sauvignon grape and wine quality.
Investigator: P.W. Jacoby
Term & Value: pending \$11,000

NW Center for Small Fruit Research

Title: Evaluation of grape vine variety and rootstock on response to direct root-zone micro-irrigation.
Investigators: P.W. Jacoby, K. Shellie, M. Keller, and M. Quin.
Term & Value: pending \$49,935

PUBLICATIONS AND PRESENTATIONS

Symposium and Conference Proceedings

Jacoby, P.W., X.C. Ma, and J.R. Thompson. 2016. Effects of root-zone micro-irrigation on Cabernet Sauvignon. *Proceedings*: Technical Education Conference on Use of Micro-irrigation in Agricultural Cropping Systems, Irrigation Association Annual Meeting. (full-length paper and oral presentation). December 5-9, 2016. Las Vegas, NV

Pete W. Jacoby

Zuniga, C.E., L.R. Khot, **P.W. Jacoby**, and S. Sankaran. 2016. Remote sensing based water-use efficiency evaluation in sub-surface irrigated wine grape vines. Proc. SPIE 9866, Autonomous Air and Ground Sensing Systems for Agricultural Optimization and Phenotyping. <http://dx.dpi.org/10.1117/12.2228791/>.

Jacoby, P.W., R.T Peters, S. Sankaran, and L.R. Khot. 2015. Advancing water use efficiency in vineyards with subsurface micro-irrigation. Proceedings: *Emerging Technologies for Sustainable Irrigation, Joint ASABE/ Irrigation Association Symposium*. (full length manuscript with accompanying poster presentation). Nov. 10-12, 2015. Long Beach, CA

Published Abstracts

Ma, X.C., **P.W. Jacoby**, and J.R. Thompson. 2016. Assessing impacts of direct root-zone irrigation on grapevine physiology. *In: Program and Technical Abstracts, Ann. Meeting, ASA-CSSA-SSSA*. Nov. 7-11. Phoenix, AZ (3rd place award - graduate poster category)

Jacoby, P.W., S.H. Sadeghi, J.R. Thompson, Z.B. York, and X.C. Ma. 2016. Influence of direct root-zone micro-irrigation on production of Cabernet Sauvignon in the Pacific Northwest. *In: Program and Technical Abstracts*, p. 97. June 27-30. Monterey, CA

Jacoby, P.W., S.H. Sadeghi, J.R. Thompson, Z.B. York, and X.C. Ma. 2016. Influence of direct root-zone micro-irrigation on production of Cabernet Sauvignon. *In: Poster Abstracts – Annual Meeting, WA Assoc. of Wine Grape Growers*, p. 20-21. Feb. 9-11. Kennewick, WA

Bartoshevich, R., J. Chi, S.N. Pressley, H. Liu, B.K. Lamb, P. O’Keeffe, **P.W. Jacoby**, and S.H. Sadeghi. 2016. Quantifying the influence of irrigation and meteorology on water use efficiency at a vineyard in Washington. 15th Annual Amer. Meteorological Society Student Conf. *Beyond the Weather – Embracing the interface of science and society*. Jan. 9-10, New Orleans, LA.

Sadeghi, S.H., **P. Jacoby**, B. Lamb, J. Chi, P. O’Keeffe, and H. Liu. 2016. Application of eddy covariance technique to improve water use efficiency and grape quality in Washington. An. Meeting of ASABE, July 17-20. Orlando, FL.

Jacoby, P.W. 2015. Deep subsurface micro-irrigation for increasing vineyard water use efficiency. p. 125 *In: Science – a platform for progress*. Technical Abstracts. 66th National Conference of the American Society of Enology and Viticulture. June 15-18, 2015. Portland, OR. 176 p.

Jacoby, P.W. 2015. Deep subsurface drip irrigation for vineyard application. p. 3 *In: R. Hoff, ed. Poster Abstracts, Annual Meeting, Washington Assn. Wine Grape Growers*. February 9-13, 2015. Kennewick, WA. 29 p.

Extension & Outreach Papers/Presentations/Posters

Jacoby, P.W. 2016. Direct root-zone irrigation in vineyards. *In: WSU Viticulture and Enology Extension News*, p. 8, spring ed. <http://www.wine.wsu.edu/research-extension>.

Zuniga, C.E., S. Jarolmasjed, **P.W. Jacoby**, L.R. Khot, and S. Sankaran. 2015. Role of non-contact sensing for water management in grapevines at different growth stages. 111th Annual Meeting, WA State Hort. Assn, Dec, 7-9. Yakima, WA

Pete W. Jacoby

Jacoby, P.W., A.J. McElrone, S. Sankaran, L.R. Khot, M. Keller, and R.T. Peters. 2015. Precision sub-surface irrigation to regulate wine grape physiology. Annual Conference, NW Center for Small Fruits Research, Dec. 1. Portland/Clackamas, OR

Jacoby, P.W., R.T. Peters, S. Sankaran, and L.R. Khot. 2015. Advancing water use efficiency in vineyards with subsurface micro-irrigation. *Joint ASABE/ Irrig. Assn. Symposium*. Nov. 10-12, 2015. Long Beach, CA.

York, Z.B., **P.W. Jacoby**, R.T. Peters, S. Sankaran, L.R. Khot, and J.R. Thompson. 2015. Deep subsurface irrigation in Concord vineyards. Annual meeting, WA State Grape Society, Nov. 12-13, Grandview, WA.

Sadeghi, S.H., **P. Jacoby**, B. Lamb, J. Chi, P. O’Keeffe, and H. Liu. 2015. Introducing the eddy covariance system to improve water use efficiency and grape quality in Washington vineyards. Annual meeting, WA State Grape Society, Nov. 12-13, Grandview, WA.

Sadeghi, S.H., **P. Jacoby**, B. Lamb, J. Chi, P. O’Keeffe, and H. Liu. 2015. Introducing the eddy covariance system to improve water use efficiency and grape quality in Washington vineyards. 6th Annual NW Climate Conference, Nov. 3-5, Coeur d’Alene, ID

Jacoby, P.W., R.T. Peters, S. Sankaran, L.R. Khot, J.R. Thompson, and S.B. York. 2015. Deep subsurface irrigation to advance precision vineyard management. CPAAS Technology Day, September 17, 2015. WSU Prosser-IAREC.

Sadeghi, S.H., **P. Jacoby**, B. Lamb, J. Chi, P. O’Keeffe, and H. Liu. 2015. Introducing the eddy covariance system to improve water use efficiency and grape quality in Washington vineyards. CPAAS Technology Day, September 17, 2015, WSU Prosser-IAREC.

Thompson, J.R., and **P.W. Jacoby**. 2015. Deep subsurface drip irrigation for vineyard application (*Vitis vinifera*). CPAAS Technology Day, September 17, 2015, WSU Prosser-IAREC.

York, Z.B., **P.W. Jacoby**, R.T. Peters, S. Sankaran, L.R. Khot, and J.R. Thompson. 2015. Deep subsurface irrigation in Concord vineyards. CPAAS Technology Day, Sep.17. WSU Prosser.

Zuniga, C.E., S. Jarolmasjed, **P.W. Jacoby**, L.R. Khot, and S. Sankaran. 2015. Evaluating water use efficiency using advanced sensing techniques. CPAAS Techn. Day, Sep.17. WSU Prosser.

PUBLICATION RECORD

Career (2014 – 1968)

Refereed Journals

Ansley, R.J., T.W. Boutton, and **P.W. Jacoby**. 2014. Root biomass and distribution patterns in a semi-arid mesquite savanna: responses to long-term rainfall manipulation. *Rangeland Ecol. Manage.* 67(2):206-218. 9 (Impact Factor: 1.73) [Citations: 2. Per year: 2.00]

Ansley, R.J., W.E. Pinchak, W.R. Teague, B.A. Kramp, D.L. Jones, and **P.W. Jacoby**. 2004. Long-term grass yields following chemical control of honey mesquite. *J. Range Manage.* 57: 49-57. [Citations: 35. Per year: 3.18]

- Felker, P., C.T. Sorensson, D. Ueckert, **P. Jacoby**, E. Singer, and R. Ohm. 1999. Growth, cold-hardiness, protein content, and digestibility of 70 *Leucaena* seedlots on three sites in Texas, USA. *Agriforestry Systems* 42(2):159-179. (Impact Factor: 1.37) [Citations:5]
- Ansley, R.J., B.A. Trevino and **P.W. Jacoby**. 1998. Intraspecific competition in honey mesquite: leaf and whole plant responses. *J. Range Manage.* 51:241-252. [Citations: 25]
- Ansley, R.J., D.L. Jones, T.R. Tunnell, B.A. Kramp and **P.W. Jacoby**. 1998. Honey mesquite canopy responses to single winter fires: relation to herbaceous fuel, weather, and fire temperature. *Int'l J. Wildland Fire* 8:241-252. [Citations: 31]
- Cuomo, G.J., R.J. Ansley, **P.W. Jacoby** and R.E. Sosebee. 1992. Honey mesquite transpiration along a vertical site gradient. *J. Range Manage.* 45:334-338. [Citations: 12]
- Jacoby, P.W.** and R.J. Ansley. 1992. An improved method for measuring temperatures during range fires. *J. Range Manage.* 45:216-220. [Citations: 17]
- Ansley, R.J., **P.W. Jacoby**, C.H. Meadors and B.K. Lawrence. 1992. Soil and leaf water relations of differentially moisture-stressed honey mesquite (*Prosopis glandulosa* Torr.) *J. Arid Environments.* 22:147-159. [Citations: 19]
- Ansley, R.J., **P.W. Jacoby** and R. Hicks. 1991. Leaf and whole plant transpiration in honey mesquite following severing of lateral roots. *J. Range Manage.* 44:577-583. [Citations: 21]
- Jacoby, P.W.**, R.J. Ansley and C.H. Meadors. 1991. Late season control of honey mesquite with clopyralid. *J. Range Manage.* 44:56-58. [Citations: 5]
- Ansley, R.J., **P.W. Jacoby** and G.J. Cuomo. 1990. Water relations of honey mesquite following severing of lateral roots: influence of location and amount of subsurface water. *J. Range Manage.* 43:436-442. [Citations: 39]
- Ansley, R.J., C.H. Meadors and **P.W. Jacoby**. 1990. Preferential attraction of the twig girdler (*Oncideres cingulata texana* Horn) to moisture-stressed honey mesquite. *Southwestern Entomol.* 15:469-474. [Citations: 7]
- Jacoby, P.W.**, C.H. Meadors and R.J. Ansley. 1990. Control of honey mesquite with herbicides: influence of plant height. *J. Range Manage.* 43:33-35. [Citations: 4]
- Jacoby, P.W.**, R.J. Ansley, C.H. Meadors and G.J. Cuomo. 1990. Control of honey mesquite with herbicides: influence of stem number. *J. Range Manage.* 43:36-38. [Citations: 7]
- Jacoby, P.W.**, R.J. Ansley, C.H. Meadors and A.H. Huffman. 1990. Epicuticular wax in honey mesquite: seasonal accumulation and intraspecific variation. *J. Range Manage.* 43:347-350. [Citations: 3]
- Jacoby, P.W.**, C.H. Meadors and L.E. Clark. 1990. Effects of triclopyr, clopyralid and picloram on growth and production of cotton (*Gossypium hirsutum*). *J. Prod. Agric.* 3:297-301. [Citations: 4]

Pete W. Jacoby

- Jacoby, P.W.**, R.J. Ansley and B.K. Lawrence. 1988. Design of rain shelters for studying water relations of rangeland shrubs. *J. Range Manage.* 41:83-85. [Citations: 9]
- Ansley, R.J., **P.W. Jacoby** and B.K. Lawrence. 1988. Root containerization for physiological studies of shrubs and trees on rangeland. *J. Range Manage.* 41:90-91. [Citations: 7]
- Ansley, R.J., D.L. Price, B.K. Lawrence and **P.W. Jacoby**. 1988. A truck-mounted mobile screen for photodigital estimation of whole plant leaf area. *J. Range Manage.* 41:355-358. [Citations: 4]
- Heitschmidt, R.K., R.J. Ansley, S.L. Dowhower, **P.W. Jacoby** and D.L. Price. 1988. Some observations from the excavation of honey mesquite root systems. *J. Range Manage.* 41:227-231. [Citations: 58]
- Huffman, A.H. and **P.W. Jacoby**. 1985. A tool for sampling flat jointed *Opuntia*. *J. Range Manage.* 39:94. [Citations: 1]
- Slosser, J.E., **P.W. Jacoby** and J.R. Price. 1985. Management of sand shinnery oak for control of the boll weevil in the Texas Rolling Plains. *J. Econ. Entomology.* 78:383-389. [Citations: 9]
- Foster, M.A., C.J. Scifres and **P.W. Jacoby**. 1984. Herbaceous vegetation - lotebush interactions in North Texas. *J. Range Manage.* 37:317-320. [Citations: 4]
- Foster, M.A., C.J. Scifres and **P.W. Jacoby**. 1984. Phenological development of lotebush [*Ziziphus obtusifolia* (Rhamnaceae)] in North Texas. *Southwestern Naturalist.* 29(4):516-518. [Citations: 1]
- Huffman, A.H. and **P.W. Jacoby**. 1984. Effects of herbicides on seed germination and seedling development of three native grasses. *J. Range Manage.* 37:40-43. [Citations: 7]
- Slosser, J.E., J.R. Price and **P.W. Jacoby**. 1984. Effect of two shinnery oak habitats on winter survival and on spring and early summer emergence of the boll weevil. *Southwestern Entomologist.* 9(3):240-244. [Citations: 15]
- Jacoby, P.W.** and C.H. Meadors. 1983. Triclopyr for control of honey mesquite (*Prosopis juliflora* var. *glandulosa*). *Weed Sci.* 31:681-685. [Citations: 14]
- Jacoby, P.W.**, J.E. Slosser and C.H. Meadors. 1983. Vegetational responses following control of sand shinnery oak (*Quercus havardii*) with pelleted picloram and tebuthiuron. *Weed Sci.* 30:594-597. [Citations: 2]
- Jacoby, P.W.**, C.H. Meadors, M.A. Foster and F.S. Hartmann. 1982. Honey mesquite control and forage response in Crane County, TX. *J. Range Manage.* 35:424-426. [Citations: 11]
- Jacoby, P.W.** and C.H. Meadors. 1982. Control of sand shinnery (*Quercus havardii*) with pelleted picloram and tebuthiuron. *Weed Sci.* 30:594-597. [Citations: 4]
- Jacoby, P.W.**, D.N. Ueckert and F.S. Hartmann. 1982. Control of creosotebush (*Larrea tridentata*) with pelleted tebuthiuron. *Weed Sci.* 30:307-310. [Citations: 11]

Pete W. Jacoby

Jacoby, P.W., C.H. Meadors and M.A. Foster. 1981. Control of honey mesquite (*Prosopis juliflora* var. *glandulosa*) with 3,6-dichloropicolinic acid. *Weed Sci.* 29:376-378. [Citations: 22]

Articles in Books or Proceedings (11) including:

Ansley, R.J., T.W. Boutton, and **P.W. Jacoby**. 2007. *Mesquite root distribution and water use efficiency in response to long-term soil moisture manipulations*. Pp. 96-103. In: Sosebee, R.E.; Britton, C.M.; McArthur, E.D.; Kitchen, S.G., comp. 2007. *Proceedings: Shrubland dynamics – fire and water; 2004 August 10-12; Lubbock, TX. Proceedings RMRS-P-47*. Fort Collins, CO; U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 173 p.

Ansley, R.J. and **P.W. Jacoby**. 1998. *Manipulation of fire intensity to achieve mesquite management goals in north Texas*. pp. 195-204. In: L.A. Brennan and T.L. Pruden (eds.). *Fire in ecosystem management: shifting paradigm from suppression to prescription*. Proc., Tall Timbers Fire Ecology Conf., No. 20. Tall Timbers Research Sta., Tallahassee, FL.

Jacoby, P.W. and R.J. Ansley. 1991. *Mesquite: classification, distribution, ecology and control*. Chapt. 36, pp. 366-378. In: L.F. James, J.O. Evans, M.H. Ralphs and R.D. Child (eds.) *Noxious Range Weeds*. Westview Press Inc., Boulder, CO. 466 p.

Ansley, R.J., **P.W. Jacoby** and B.K. Lawrence. 1989. *Influence of stress history on water use patterns on honey mesquite*. p. 75-82. In: A. Wallace, E.D. McArthur and M.R. Haferkamp (eds.). *Proc. Symp. on Shrub Ecophysiology and Biotechnology*. Logan, UT. U.S. Dept. Agric., For. Serv. Gen. Techn. Rep. INT-245. 183 p.

Jacoby, P.W. 1989. *A Glossary of Terms Used in Range Management*. 3rd Ed. Soc. Range Manage., 1839 York St., Denver, CO 80206. 20 p.

Internal Publications (39) including:

Jacoby, P.W. 2002. *Gaining Perspective During Periods of Change*. *CommonGround*, August issue, College of Agric. and Home Econ., Pullman.

Jacoby, P.W. 2001. *The Land Grant University in the 21st Century: A Vision for Excellence*. *CommonGround*, January issue, College of Agric. and Home Econ., Pullman.

Foster, M.A., C.J. Scifres and P.W. Jacoby. 1984. *Ecology and management of lotebush on the Texas Rolling Plains*. *Texas Agric. Exp. Sta. Misc. Pub.* 1550. 19 pp.

Huffman, A.H. and P.W. Jacoby. 1983. *Herbicidal effects on seed germination and seedling growth of three native grasses*. *Texas Agric. Exp. Sta. Prog. Rep.* 4126. 8 p.

Aldridge, V.R., P.W. Jacoby, R.E. Steger and F.S. Hartmann. 1983. *Short-term responses of prickly-pear (*Opuntia lindheimeri*) to foliar- and soil-applied picloram in the Southern Rolling Plains*. *Texas Agric. Exp. Sta. Prog. Rep.* 4127. 8 pp.

Jacoby, P.W. and T.G. Welch. 1983. *Herbicidal control of narrowleaf goldaster (*Heterotheca stenophylla*)*. *Texas Agric. Exp. Sta. Prog. Rep.* 4129. 9 p.

Pete W. Jacoby

- Slosser, J.E., P.W. Jacoby, D.G. Foster and C.W. Neeb. 1982. Management potential of sand shinnery oak to reduce overwintering habitat of boll weevils. Texas Agric. Exp. Sta. Misc. Publ. 1515. 12 p.
- Jacoby, P.W., D.N. Ueckert and F.S. Hartmann. 1982. Creosotebush response to tebuthiuron in western Texas. Texas Agric. Exp. Sta. Prog. Rep. 3973.
- Ueckert, D.N., P.W. Jacoby and S. Hartmann. 1982. Response of tarbush and associated forage species to tebuthiuron and picloram pellets. Texas Agric. Exp. Sta. Prog. Rep. 3969.
- Ueckert, D.N., P.W. Jacoby and S. Hartmann. 1982. Tarbush and forage response to selected herbicides in the western Edwards Plateau. Texas Agric. Exp. Sta. Bull. B-1393. 6 p.
- Jacoby, P.W., R.P. Smith, C.H. Meadors and M.A. Foster. 1982. Response of sand shinnery oak and associated vegetation to tebuthiuron. Texas Agric. Exp. Sta. Prog. Rep. 3974.
- Jacoby, P.W. 1982. Grassland vegetation response to high rates of herbicides. Texas Agric. Exp. Sta. Prog. Rep. 3979.
- Foster, M.A., C.J. Scifres and P.W. Jacoby. 1982. Impact of lotebush on herbaceous vegetation in the Rolling Plains of Texas. Texas Agric. Exp. Sta. Prog. Rep. 4005.
- Foster, M.A., C.J. Scifres and P.W. Jacoby. 1982. Phenophasing of lotebush in north Texas. Texas Agric. Exp. Sta. Prog. Rep. 4008.
- Jacoby, P.W., C.H. Meadors, M.A. Foster and T.G. Welch. 1982. Control of broom snakewood (*Xanthocephalum sarothrae*) with fall applications of foliar herbicides. Texas Agric. Exp. Sta. Prog. Rep. 4126. 8 p.
- Jacoby, P.W., C.H. Meadors and M.A. Foster. 1980. Dowco 290 herbicide for control of honey mesquite. Texas Agric. Exp. Sta. Consolidated Prog. Rep. 3665. p 26.
- Jacoby, P.W., C.H. Meadors and M.A. Foster. 1980. Triclopyr herbicide for control of honey mesquite. Texas Agric. Exp. Sta. Consolidated Prog. Rep. 3665. p 26.
- Jones, V.E., C.H. Meadors and P.W. Jacoby. 1980. Control of sand shinnery oak with pelleted herbicides. Texas Agric. Exp. Sta. Consolidated Prog. Rep. 3665. p 27.
- Jacoby, P.W., R.K. Heitschmidt and C.H. Meadors. 1980. Late season control of annual broomweed with herbicides. Texas Agric. Exp. Sta. Consolidated Prog. Rep. 3665. p 28.
- Ueckert, D.N., P.W. Jacoby and S. Hartmann. 1980. Control of tarbush and creosotebush with pelleted herbicides. Texas Agric. Exp. Sta. Consolidated Prog. Rep. 3665. p 31.
- Meadors, C.H. and P.W. Jacoby. 1980. Control of South Texas mixed brush with pelleted picloram herbicide. Texas Agric. Exp. Sta. Consolidated Prog. Rep. 3665. p 32.
- Grumbles, J.B., P.W. Jacoby and W.G. Wright. 1980. Deposition of herbicides from fixed-wing aircraft. Industrial Vegetation, Turf and Pest Management. 12(2):6-16.

Papers Presented with Published Abstracts (>55)

Pete W. Jacoby

Popular Articles (>315) - written personally or as a result of a special interview with a reporter.

Public Media Appearances (>210) - television and radio interviews

PREVIOUS POSITIONS

Washington State University 1997-2013

Associate Dean – College of Agricultural, Human, and Natural Resource Sciences – Pullman, WA

Overall Responsibilities: Serve in the Office of the Dean to provide assistance to the Dean in all matters related to administration of the College of Agricultural, Human, and Natural Resources Sciences (CAHNRS) as directed by the Dean, including serving in academic leadership positions on interim basis and representing CAHNRS on committees and boards at local, state, and national levels.

Primary Roles and Accomplishments:

Administration of CAHNRS

- Assisted Dean with all aspects of administration of the College and served as Acting Dean when the Dean was away from Campus
- Assumed leadership for strategic planning and organizational transformation
- Provided leadership in equity and diversity training for all college units
- Provided major leadership and participation in the organization, development of documentation, and successful legislative funding of the *Safe Food Initiative* that brought \$7.5 million of new funding for research and extension programs for three Colleges (CAHNRS, CVM, COS) at Washington State University
- Served as liaison to other colleges, institutions, and organizations to improve and ensure communications and cooperation with CAHNRS.
- Participated in annual evaluations and salary adjustments for faculty, staff, and unit administrators, as well as faculty retention and new faculty start-up packages
- Maintained a close working relationship with off-campus administrators and faculty located at branch campuses, research and extension centers, learning centers and county extension offices
- Conceived and implemented an internal grants program (*Extension Issue-focused Teams Initiative*) to develop interdisciplinary teams of faculty across the state, involving some faculty from other colleges

- Participated in the hiring of over 200 faculty and unit administrators
- Coordinated and oversaw college-wide efforts for strategic planning and worked in concert with unit leaders in benchmarking program excellence
- Oversaw departmental and CAHNRS safety committees earning the 2007 WSU Environmental Health & Safety Leadership Award
- Mentored newly appointed Directors of Research and Extension Centers
Coordinated and led efforts in preparing for CSREES (NIFA) External Review of CAHNRS Research and Extension Centers and advancing implementation of review panel recommendations
- Active participant in two ADVANCE at WSU workshops for campus leaders involving institutional transformation topics

Stakeholder Relationships

- Represented the Dean and the College at meetings and field days of agricultural and natural resource organizations in Washington State, the Pacific Northwest, and nationally
- Interacted with and maintained liaison with major agricultural commodity and natural resource organizations, including WA Ag Presidents Committee, WA Association of Wheat Growers, WA Potato Growers Association, WA Natural Resource Conservation Commission, WA Invasive Species Committee, WA Cattlemen's Association, WA Commission for Pesticide Registration, WA Farm Bureau, WA Association of Wine Grape Growers, WA Horticulture Association, WA Hops Commission, WA Tree Fruit Research Commission
- Served on Board of Directors (*ex-officio*) for Far West Agri-Business Association, WA Friends of Farms and Forests, WA Tree Fruit Research Commission
- Coordinated and provided interim leadership for the Pullman sessions of WA Ag & Forestry Leadership Program from 1998-2003

Facilities Planning and Development

- Prepared biennial budget requests for CAHNRS Major and Minor Capital requests for WSU budget request to WA State Legislature
- Oversaw the planning and execution of all Major and Minor Capital facilities construction and maintenance projects for the largest WSU College on the Pullman campus and four regional Research & Extension Centers across the state. Oversaw execution of more than \$1 million of minor capital projects each biennium since 1998
- Established effective working relationships within the WSU Office of Business Affairs, including the VP of Business Affairs and Administrators within Facilities Services, the Budget Office, and the WSU Real Estate Department.

- Initiated and led development of a long-range facilities plan to develop an interconnected 7 building **Research and Education Complex** (REC) on the Pullman campus focused on molecular biology and technology research to promote interdisciplinary collaboration
- Co-chaired committees that oversaw design and construction of the \$39 million **Vogel Plant Bio-Sciences** building (REC #1) on the Pullman campus of WSU
- Represented CAHNRS in the development of the 50 year **Campus Master Plan** for the Pullman Campus
- Assisted in the development of Master Plans for each of the four CAHNRS Research & Extension Centers
- Chaired planning committee for new \$8 million facility at the WSU Northwestern Washington Research and Extension Center at Mt. Vernon
- Oversaw space allocation within CAHNRS occupied buildings on Pullman campus

Interim Administrative Leadership Roles and Accomplishments

Director, Prosser - Irrigated Agriculture Research & Extension Center (2009-2013)

Role and Responsibility: Administer the largest off-campus WSU Research & Extension Center with 1200 acres of irrigated cropland, more than 170 permanent employees, including 18 WSU faculty members, and a \$12.4 million budget. Employ the use of leadership to alter the culture of the unit towards increased academic productivity, in line with WSU goal of becoming a member of the American Association of Universities (AAU) while addressing the priority needs of advancing irrigated agriculture in south-central Washington.

Primary Accomplishments:

- Worked closely with 18 Center-based faculty and 5 administrative staff reports to promote a new culture of excellence in research and extension accomplishments, resulting in a more than **doubling of extramural funding** (\$3.1 million in 2009 to an average of \$7.1 million for 2010-2012), a **doubling (+) of graduate students** (23 to 56), and **increased publication in respected international journals**.
- Maintained and/or advanced collaborations with 9 USDA-ARS scientists, 1 EPA field specialist, and 1 WA Dept. Agriculture field specialist located at the Prosser Center
- Worked effectively with center awards committee to secure a President's Employee Excellence Award for the Staff Assistant to the Director and CAHNRS Awards for IAREC located faculty members
- Advanced the development of the Center's infrastructure by upgrading the master plan and **securing more than \$750,000 in preservation funding** to upgrade irrigation systems, IT services, and facilities.

Pete W. Jacoby

- Maintained and/or improved relationships with key commodity commissions that culminated in part with a **\$32 million gift from the WA Tree Fruit industry** for the WSU Research & Extension Centers in Prosser and Wenatchee.
- Worked effectively with faculty and staff to develop **new business models** for farm and facilities operations groups based on a goods and services fee system
- Led the Center faculty through a 2-day retreat to develop a **new strategic vision** for advancing the Center in the next 3-5 years
- Interacted with local service clubs and Prosser Economic Development Council to expose local civic leaders as well as federal congressional and state legislators and staff to the academic excellence and international diversity of WSU Prosser-IAREC

Interim Director, NW Washington Research and Extension Center – Mount Vernon (2008-2009)

Role and Responsibilities: Provide leadership for advancement of the newest R&E Center while awaiting appointment of a new Director.

Primary Accomplishments:

- Shared oversight and evaluation of 7 faculty members and 2 primary staff reports with respective department chairs and college administrators
- Advanced the progress of the unit to accomplish strategic plans during period between Directors
- Achieved successful nomination and acceptance of Presidential Award for the Administrative Staff Assistant
- Rebuilt and/or improved relationships with major commodity organizations (NW Tree Fruit Research Foundation, Skagit County Master Gardeners, and Skagitonians to Preserve Farmland
- Focused faculty efforts on participation in interdisciplinary team grants that received over \$2 million in competitive grant awards
- Assisted faculty members establish a molecular core laboratory by leveraging local funds for matching contributions from two academic departments and the Experiment Station director (Agriculture Research Center)

Director, Extension Agriculture Programs, WSU Extension (2007-2009)

Role and Responsibilities: Provide programmatic direction (in collaboration with Extension District Directors) for WSU Extension agricultural programs conducted by faculty located in counties or districts consistent with the federal plan of work and strategic plans of Washington State University

Pete W. Jacoby

Primary Accomplishments:

- Oversaw operating budgets and programs for all department and center-based faculty members with Extension appointments addressing agricultural issues

Redirected a major portion of Extension Ag Program operating funds to partner with the Agricultural Research Center (Experiment Station) in creating an internal competitive grants program (**Extension Issue-focused Teams**) to stimulate the formation of cross-disciplinary teams of faculty, including those in academic departments on campus and at Research & Extension centers and Extension county and area locations. These efforts contributed to WSU faculty led teams in winning a number of Specialty Crop Research Initiative (SCRI) federal competitive grants.

- Served on WSU Extension Administrative Team to provide input and direction for WSU Extension strategic initiatives
- Prepared major portions of the annual federal report for WSU Extension

Associate Dean for Outreach, CAHNRS (2007-2009)

Role and Responsibilities: Position was created in January 2007 to create expectations for all CAHNRS faculty to engage in outreach and to provide direction (in collaboration with department chairs and center directors) for departmental and center-based extension specialists to better align program efforts with strategic plans of CAHNRS and WSU Extension

Primary Accomplishments:

- Served on WA Conservation Commission to represent both CAHNRS and WSU Extension
- Represented CAHNRS and WSU Extension on the Agri-Business Council of Greater Spokane Incorporated (Sponsor of Spokane Ag Expo and the PNW Farm Forum)
- Prepared a major section of the WSU strategic planning effort entitled *Academic Assessment and Program Prioritization (AAPP)*
- Collaborated with academic department chairs in evaluating annual performance of faculty members holding extension appointments addressing agricultural issues

University of Nebraska 1993-1997

Area Director of Research & District Director of Extension, West Central Research & Extension Center - North Platte, Nebraska

Duties and Responsibilities: Directed an autonomous unit within the University of Nebraska - Institute of Agriculture and Natural Resources (IANR) that conducted a broad array of disciplinary research and extension programs within a 26 county region of west central Nebraska (ca. 1/3 of the land area of Nebraska). Also, provided direct supervision

of 57 research and extension faculty, 4 support staff, a 1500 acre research farm, a 160 sow swine unit, and a 13,000 acre research ranch with 650 head of cattle.

Primary Administrative & Leadership Accomplishments

- Completed three fiscal years within \$250 of projected budget on a \$3.7 million operations account
- Increased ethnic diversity of staff by hiring qualified minority employees
- Created opportunities for support staff to shift into new positions to accommodate needs for building/grounds maintenance and computer support technician
- Provided oversight and direct involvement in the construction of four new research support buildings totaling more than \$8 million in project costs
- Administered the Cooperative Extension programming efforts within five multi-county units, including hiring of new personnel.
- Resolved an unmet \$114,000 budget reduction in the first year of appointment by reallocating funds from vacant positions and replacing Associate Director with a half-time administrative assignment for a faculty member while developing consensus among administrators and faculty to create an administrative support manager position
- Exceeded unit goal to redirect over \$92,000 in base FTE funds annually by encouraging faculty and staff to move into new programming areas and activities
- Met a mandated 6 percent of base funding reallocation by transferring funding from a vacant position and two technician positions to create new positions related to distance education and systems-based research
- Developed long-range facilities plan which resulted in more than \$1.3 million to address deferred maintenance
- Instituted a rental system for resident housing which corrected a housing fund balance from -\$5,000 to + \$13,000 in a two year period
- Acquired funding for T-1 internet connection and LAN system for unit computers
- Developed a partnership with local business leaders which resulted in the establishment of a distance education classroom and hiring of a teaching coordinator
- Led unit through an issue-based review to prioritize resource allocations to programs
- Introduced a justified budget request system for distributing allocated funds to faculty to replace a flat "across the board" system
- Recruited ten new faculty into priority areas of regional and statewide program need

Pete W. Jacoby

Texas A&M University System 1992-1993

Resident Director of Research (Interim) - *Texas Agricultural Experiment Station* - Texas A&M Agricultural Research and Extension Center - Vernon, TX

Duties and Responsibilities: Directed 8 scientists with 55 support staff, two research farms, and a 38,000 acre research ranch. Duties involved supervision of personnel and oversight of budgetary and financial matters, equipment and facilities

Primary Administrative & Leadership Accomplishments

- Participated in preparation of \$1.5 million operating budget which involved contingency plans to absorb a 5.0- 7.5 percent reduction in funding
- Prepared a unit strategic plan, supervised development of annual plans for research, conducted performance appraisals of scientists, and provided leadership to a faculty planning retreat and monthly administrative staff meetings
- Maintained liaison with community leaders and major research donors in the local area
- Collaborated effectively with Extension District Directors to integrate educational programming efforts to benefit stakeholders
- Provided leadership for the 20th anniversary celebration and recognition of major contributors to the research and educational programs of the Center

ACADEMIC PERFORMANCE IN FIVE LAND GRANT UNIVERSITIES (career)

Washington State University (40:40:20 Research:Extension:Academic Programs)

- Served on WSU Provost's International Programs Advisory Council
- Participated in selection of Dean's merit scholars and WSU Honor College applicants
- Served on committee to evaluate and recommend applicants for Master of Agriculture Program
- Represented WSU at Western Regional meetings for Academic Programs and Western Regional Teaching Symposium
- Participated in campus-wide efforts to advance efforts in teaching methods that utilized experiential learning, critical thinking, writing across the curriculum, and service learning
- Actively supported faculty-led efforts in study-abroad programs to engage students in global awareness

Pete W. Jacoby

- Met regularly with CAHNRS caucus of the WSU faculty senate
- Taught 4-hour instructional blocks in leadership development seminar series for Department of Human Resources at Washington State University for 3 years

University of Nebraska (50:50 Research:Extension)

- Member of Graduate Faculty, 1995-1997

Texas A&M University – Texas Agricultural Experiment Station (100% Research)

- Provided significant input into publication of 32 refereed publications, 10 book chapters or conference proceedings, and 39 internal publications (listed later in CV)
- Developed relationships with agricultural commodity organizations, state and federal agencies, and private companies to fund research addressing issues of production agriculture and food production
- Grew the research program from 1 technician to 3 technicians and a post-doctoral research associate funded by grant and state support and garnered over \$500,000 in research support equipment
- Supervised technicians, research associates, and graduate students assigned to research project, advancing each of them to a higher position through mentoring and support
- Duties included performance appraisal, budgeting at project level, and personnel development
- Redirected program emphasis twice to advance the scientific focus and direction
- Member of panel to evaluate off-campus faculty for promotion within the Texas A&M System (tenure not offered to Agricultural Experiment Station scientists)
- Member of graduate faculty at the following universities:
 - West Texas A&M University, 1991-1993
 - Texas Tech University, 1986-1993
 - Angelo State University, 1981-1993
 - Texas A&M University, 1980-1993
- Presented invited guest lectures at the following universities:
 - University of Nebraska - Lincoln
 - University of Arizona - Tucson
 - Texas A&M University - College Station
 - Angelo State University - San Angelo
 - University Orange Free - South Africa
 - University of Natal - South Africa

Pete W. Jacoby

University of Fort Hare - South Africa

- Graduate Students Co-directed

G.J. Cuomo, Texas Tech University – 1988 (with Dr. Ronald Sosebee)
M.S. Thesis: *Effect of site on honey mesquite transpiration*

M.A. Foster, Texas A&M University – 1983 (with Dr. Charles J. Scifres)
Ph.D. Dissertation: *The ecology of lotebush (Ziziphus obtusifolia) in north Texas*

V.R. Aldridge, Angelo State University – 1982 (with Dr. Robert Steger)
M.S. Thesis: *Pricklypear response to liquid and granular herbicide treatments*

University of Arizona (100% Extension)

- Provided subject matter support to County Agents in areas of Range Management, Forestry, Wildlife Management, and Recreation
- Developed liaison with Arizona Cattle Raisers Assn., U.S. Forest Service, U.S. Bureau of Indian Affairs, U.S. Bureau of Land Management and numerous environmental groups concerned with multiple use and conflicting use of Arizona range and forest lands
- Re-organized and supervised natural resources workshop for Arizona youth
- Represented western states forestry interests while serving on Extension Committee on Policy (ECOP) national panel on forestry
- Served on multi-discipline team to conduct short courses and range survey on the Papago, Hopi and Navajo Indian reservations.
- Served on multi-disciplinary teams from Arizona to the African nations of Kenya and Senegal; participating in design of livestock management and resource development projects to reverse desertification in the sub-Saharan region and planning programs for agricultural education based on the land grant system.
- Conducted numerous short courses and field days for Arizona stockmen while employed as an Extension Specialist

Texas A&M University – Texas Agricultural Extension Service (100 % Extension)

- Serviced a 31 county area from San Angelo to El Paso; working as multi-disciplinary team member with entomologist, livestock specialist, economist, agronomist, horticulturist, and youth specialist to conduct applied research demonstrations, instruct producers during workshops and, field days, and instruct county agricultural agents during in-service seminars
- Taught graduate course (Range Improvement 641) to place-bound agency employees

Pete W. Jacoby

- Taught Army Reservists in Chemical, Biological, and Radiation defense measures while assigned to Midland, Texas Army Reserve Unit

University of Wyoming (50:50 Research:Academic Program)

- Taught undergraduate taxonomy lab and seminar while completing graduate studies at the University of Wyoming
- Presented oral papers at Society of Range Management national meetings and the Colorado-Wyoming Academy of Science meetings

PROFESSIONAL SOCIETIES

AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERING

AMERICAN SOCIETY FOR ENOLOGY AND VITICULTURE

AMERICAN SOCIETY OF AGRONOMY

WESTERN SOCIETY OF WEED SCIENCE

SOCIETY FOR RANGE MANAGEMENT

Co-Chair, 1999 Annual Meeting Planning Committee, Omaha, NE

Associate Editor, Journal of Range Management 1988-1990

Chair, Committee to revise Glossary of Terms 1987-1988

Founding Chair, Graduate Student Paper Contest 1987-1988

Chair, Publications Committee 1984-1985

Chair, Information and Education Committee 1976-1977

Pacific Northwest Section, SRM

Nebraska Section, SRM

Co-Chair, 1999 Annual Meeting, Society for Range Management

Chair, By-Laws, Constitution, and Handbook Revision Committee

Texas Section, SRM

Nominated for 2nd Vice-President - 1992

Chairman, Mexico Relations Committee - 1992

Mexico Relations Committee - 1990-1992

Program Chairman, 1989 Annual Meeting

Director 1986-1988

Chairman, Membership Committee 1983

Awards Committee 1979

Activities Committee 1973

Range Youth Camp Director 1971

Outstanding Contribution Committee 1971; 1984

Arizona Section, SRM

Pete W. Jacoby

Chairman, Youth Committee 1974-1976
Interagency Range Committee 1974-1976
Wyoming Section, SRM

WEED SCIENCE SOCIETY OF AMERICA
Editorial Committee 1983-1986

GRASSLAND SOCIETY of SOUTHERN AFRICA

STUDENT AND HONORARY ORGANIZATIONS

Texas A&M – Distinguished Military Student
Texas A&M – Ross Volunteer Company
Texas A&M – President, Range and Forestry Club
University of Wyoming – Alpha Zeta, Sigma Xi, Gamma Sigma Delta
University of Wyoming – Outstanding Graduate Student

GRANTS AND CONTRACTS - EXTERNAL FUNDING

University Lands - Surface Leasing, Midland, TX

A cooperative program initiated in 1977 resulted in an annual allocation of funds to support brush control research. For 11 years, an average annual allocation of \$34,000 (\$385,000 total) was awarded. The University of Texas also funded two technicians and several summer interns to assist with the extensive field research program I directed.

W.T. Waggoner Foundation, Vernon, TX

An annual grant of \$10,000-\$12,000 (\$154,000 total) was received from 1978 - 1992 to support control and management of woody weeds on rangeland.

Brush Control and Range Improvement Association, Albany, TX

Numerous grants totaling over \$100,000 were received from this rancher-based organization from 1977 - 1992. Funds were also provided for a trip to South Africa to study use of fire in brush management on rangelands.

Support for scientific instrumentation and equipment exceeded \$150,000 from competitive grant proposals within the Texas Agricultural Experiment Station from 1987-1992.

INTERNATIONAL EXPERIENCE

Foreign language and training: Spanish. Formal training acquired in primary and secondary public school, 12 semester hours of college credit, and as a second language for requirement during Ph.D. program. Written comprehension is good; spoken competency is fair.

DEVELOPMENT PROJECTS - USAID

KENYA - 1975 Member of Pre-Investment Team to Study Medium Potential Lands
SENEGAL - 1975 Member of Design Team to Plan the Bakel Livestock and Range Project

Related publications/presentations

Jacoby, P. W. 1979. *Grazing management of plant resources in eastern Senegal as influenced by water development*, pp. 655-660. In: J. R. Goodin and D. K. Northington (eds.) *Arid Land Plant Resources - Proceedings, Int'l Arid Lands Conf. on Plant Resources*, Texas Tech Univ., Lubbock, TX.

Jacoby, P. W. 1976. *The role of range and livestock educational programs in foreign development projects*. Abstracts, 29th Annual Meeting, Society for Range Management, Omaha, NE.

Jacoby, P.W. 1975. *The role of educational programs in an agricultural development project in Senegal*. Abstracts, 18th Annual Meeting, African Studies Association, San Francisco, CA.

Altschul, R.D., T.E. Downing, H.M. Ingram, **P.W. Jacoby**, W.E. Martin, and K.K. Barnes. 1975. *A proposal for design of an agricultural/social economic system for the medium-potential lands of Kenya*. Report prepared for USAID, Washington, D.C. 46 pp.

Cheney, J., J. O'Rourke, **P. Jacoby**, H. Fletcher, C. Bonham, P. Knox, G. Learner and J. Tietlebaum. 1976. *Bakel Range and Livestock Project, Eastern Senegal*. Report prepared for USAID, Washington, D.C. 355 pp.

CONFERENCES/EDUCATIONAL

AUSTRALIA - 1984 - Participated in 2 conferences and 8 day scientific tour of rangeland research in South Australia, New South Wales and Queensland.

SOUTH AFRICA - 1990 - Arranged and secured funding to travel to several key research locations throughout South Africa to observe and participate in fire research and confer with scientists conducting fire research for shrub control.

MEXICO - 1971-1990 - Numerous trips to observe range research related to control of brush and poisonous plants on rangeland. Also utilization of mesquite and agri-forestry.

Related publications/presentations

Jacoby, P.W. 1985. *Restoring mesquite savanna in western Texas, USA through brush and cacti management*. pp. 223-228. In: J.C. Tothill and J.J. Mott (eds.) *Ecology and Management of the World's Savannas - Proceedings of the Int'l Savanna Symp.*, Brisbane, Australia. Australian Acad. Sci., Canberra.

Jacoby, P.W. 1986. *Control and management of undesirable woody plants on semi-arid rangelands*, pp. 259-263. In: P.J. Joss, P.W. Lynch and O.B. Lynch and O.B. Williams (eds.) *Rangelands: A Resource Under Siege - Proceedings of the Second Int'l Rangeland Congress*. Australian Acad. Sci., Canberra.

Jacoby, P.W. and H.L. Morton. 1971. *Alfombrilla - potential for invasion of Mexican poisonous plant*. Arizona Agri-file Q-352. Coop. Ext. Serv., Univ. Arizona. Tucson, AZ 2 p.

Pete W. Jacoby

Cabral, Ismael and **P.W. Jacoby**. 1990. *Aspectos dinamicos del banco de semillas de Prosopis glandulosa Torr. var. glandulosa en el oeste de Texas*. VI Congreso Nacional sobre Manejo de Pastizales, Monterrey, MEX.

Cabral, Ismael and **P.W. Jacoby**. 1990. *Componentes y viabilidad del banco de semillas de Prosopis glandulosa Torr. var. glandulosa en el Oeste de Texas*. XI Congreso Mexicano de Botanica, Oaxtepec, Morelos, MEXICO.

Associated Activities: Numerous scientists from Australia, South Africa, and Mexico visited the Vernon center as a direct result of contacts and exchanges made during trips to these countries. Two Mexican scientists were employed for 3 years as part of the mesquite ecology effort. Contact was made with Dr. W.R. Teague, a leading African scientist, during trips to Australia and South Africa and he joined the faculty at Vernon as range ecologist and currently serves as Associate Director for the Center. Exchanges of information with foreign scientists aided the fire ecology research program at Vernon.

INTERNATIONAL CONSULTING/Private Contract (associated published reports were either proprietary or classified confidential/secret)

SOUTH AFRICA/NAMIBIA - 1984

Consulted for AgriHold/Elanco regarding the utilization of tebuthiuron for control of *Acacia* spp. and other undesirable woody weeds on rangeland.

COLOMBIA - 1984

Consulted for US State Dept. in the Llanos regarding research on woody plant control. (2 extended tours)

MEXICO - 1985

Consulted for US State Dept. in the Federal District, and the states of Oaxaca and Sinaloa to conduct research on illicit plant control with herbicides and conduct shortcourses on reducing herbicide drift and spraying systems calibration on fixed and rotary wing aircraft. (4 tours)

ECUADOR - 1986

Consulted for US State Dept. to conduct plant distribution and deforestation surveys in upper Amazon drainage areas. (1 extended tour)

PERU - 1986-1989

Consulted for US State Dept. to conduct herbicidal plant control research on illicit crops in upper Amazon drainage areas. Conducted detailed soil and plant distribution studies; herbicide persistence studies; deforestation and secondary succession in cloud forest and selva (jungle) vegetation types. (12 tours in-country + 9 associated trips for reporting).

COLOMBIA - 1999

Consulted for US State Dept. to evaluate field verification, GIS/GPS based systems for monitoring and evaluating impacts of programs to eradicate illicit crops. Met with top agency officials in U.S. and Colombian governments and participated in field verification (2 tours)