

RESUME
W. TRENT BUNDERSON

KEY QUALIFICATIONS:

Dr. Bunderson, Associate Professor with International Programs/Research and Development at Washington State Univ., is currently based in Malawi as Regional Director for East and Southern Africa. He has over 30 years of professional development experience in Africa where he has worked and published extensively in the diverse areas of: 1) adaptive research and development of agroforestry, soil conservation and crop-livestock production systems; 2) indigenous and exotic legumes to increase and stabilize crop yields; 3) food and forage legumes; 4) policy assessments concerning land tenure/land use issues for extensive and sedentary crop-livestock and wildlife systems; 5) ecology relating to multi-purpose land use; and 6) community-based natural resource management. He currently provides leadership and technical assistance in Malawi's Ministry of Agriculture and Irrigation in the areas of national agroforestry and soil conservation research and technology transfer. Dr. Bunderson served in Sudan as senior range/livestock ecologist on the Western Sudan Agricultural Research Project. His efforts contributed to: increased productivity and stability of crop and livestock production; enhanced agricultural support services and policies; and enhanced food security and commercialization of agriculture in western Sudan.. In Kenya, his work has centered on wildlife ecology and the agriculture/wildlife/natural resource interface. He has published extensively in concert with national colleagues in range, animal and human ecology, range/livestock management practices, agroforestry and community-based natural resource management. He brings to his crops/livestock/forest/wildlife endeavors a full set of practical ranch skills--general husbandry practices, supplemental feeding and grazing, land preparation, irrigation and crop harvesting, machinery maintenance, irrigation systems, etc.

EDUCATION:

Ph.D. Range Ecology and Management, Utah State University, 1975-1980

B.S. Range Management and Economics, Utah State University (graduation with high honors), 1971-74

GEOGRAPHIC EXPERIENCE:

Kenya, Malawi, Sudan, Tanzania, Mozambique, Zambia

LANGUAGES:

English – native; Swahili – fluent speaking

PROFESSIONAL EXPERIENCE:

2000-Present Regional Director for East and Southern Africa, International Research & Development, Washington State University. Activities entail implementing multiple projects with funding from diverse donors in multiple countries. Overall responsibilities include the design, establishment and implementation of public and private sector funded programs for food security, crop diversification, natural resource management, conservation, and income generation involving over 2,000 rural villages.

2004-2007 Director of the Community Based Management of Chia Lagoon Watershed, Washington State University. USAID project to improve the livelihoods of rural communities through better management and sustainability of the watershed's natural resources.

2003-2004 Director, International Programs/Development Cooperation at Washington State University. Provides leadership and supervision to the International Program's Development Cooperation unit. Identifies and secures relevant projects and grants abroad as a key

- component of WSU's international development activities. Provides overall direction on the development and implementation strategies to promote WSU's participation in relevant international development activities involving faculty and staff.
- 1992-2004 Director, Malawi Agroforestry Extension Project (MAFEP). MAFEP is a cooperative agreement between USAID and Washington State University (WSU) with the Ministry of Agriculture and Irrigation. MAFEP's vision is to help Malawi's farmers use and manage their farm resources in ways that will improve their quality of life today and sustain improvements into the future. This is being achieved through support to over 70 public, NGO, and private sector partners to expand and strengthen the demand delivery of services to farm communities. These include:
1. Policy support to improve research and extension services for maximizing results.
 2. Development, testing and extension of agroforestry, soil conservation and irrigation practices.
 3. Training in seed collection and handling, nursery management, proven agroforestry and soil conservation practices, and community-based monitoring, tailored to different audiences.
 4. Production and dissemination of quality training and extension materials.
 5. Multiplication and distribution of planting materials.
 6. New initiatives to investigate production and marketing of high value NR products to increase rural incomes and expand adoption of related NRM practices.
 7. Institutionalization of simple, low cost monitoring and evaluation (M&E) systems adaptable to any natural resource management (NRM) program.
 8. Performance based grants to partners to achieve better and faster results.
- 1980-Present Associate Professor in the Department of Natural Resource Sciences at Washington State University, Pullman, Washington. Present position is designed to provide an international dimension to the university in education, research, and development. Also designed to better meet the needs of developing countries by strengthening the capabilities of faculty who have the background and career orientation to international work. The post mandates Dr. Bunderson spend a minimum of 2 of every 3 years on an overseas assignment.
- 1986-1992 Agroforestry Coordinator, Malawi Agricultural Research and Extension (MARE) Project Washington State University. A 6-year project funded by USAID with the Consortium for International Development and Government of Malawi. The objective was to improve the institutional capacity and effectiveness of the Ministry of Agriculture in research and extension. Specific agroforestry objectives were:
1. Strengthen the skills and capabilities of Malawian personnel.
 2. Collect, propagate and screen exotic and indigenous germplasm
 3. Develop technologies with suitable species and management that address problems of declining soil fertility, rising fertilizer costs, fuelwood and fodder shortages, and degradation of soil, water and vegetation resources.
- Agroforestry technologies researched: contour vegetation strips; improved tree fallows; intercropping soil-improving trees and shrubs; boundary and homestead planting of fruit and multi-purpose trees; fodder/ green manure banks; and woodlots.
- 1980-1985 Senior Livestock Ecologist, Western Sudan Agricultural Research Project (WSARP). WSARP was a 6-year project that implemented a production systems program of crop and livestock research across major agro-ecological zones in Western Sudan. Funding was provided by USAID and World Bank in collaboration with the Sudan Government and Consortium for International Development. Primary responsibilities as an ecologist in a multi-disciplinary team involved:
1. Assessing the composition, status and productivity of range resources in relation to land-use.

2. Investigating nutritional and grazing constraints of sedentary and pastoral livestock in relation to management and resource availability under changing environmental and socioeconomic conditions.
3. Screening multi-purpose tree and herbaceous legumes for integration with crops and livestock to alleviate problems of soil fertility, feed deficiencies, and fuelwood shortages.
4. Introducing animal draft to improve and diversify crop and livestock activities by reducing labor constraints.
5. Extension support to better address the needs of traditional farmers and pastoralists through more relevant research.

1975-1980 Ph.D. research on Ecological Separation of Wild and Domestic Mammals in an East African Ecosystem. The study was supported by Kenya Government with funding from several foundations. The objectives were 1) to quantify the structure, composition and distribution of vegetation and wildlife resources of the Garissa-Lamu region in Northeast Kenya, 2) to determine seasonal habitat utilization patterns of major wild and domestic species of ungulates, and 3) to assess potentials to integrate agricultural development with conservation and eco-tourism. Ecological zones and vegetation types were described and mapped according to soils and climate. Pastoral livestock and major species of wild mammals were inventoried in terms of numbers, seasonal densities and distributions, and habitat utilization patterns in relation to forage and water conditions, interspecific competition for resources, fire, and human activities.

1974 Manager, Muddy Creek Cattle Company, Feron Utah.

1972-1973 Volunteer research assistant, Kenya UNDP/FAO Range Management Project and Department of Wildlife Conservation.

SELECTED PUBLICATIONS:

- Bunderson, W.T., Z.D. Jere, and R. Museka. (2008). Final Report October 2004 to September 2008, Chia Lagoon Watershed Management Project. Volume I Main Technical Report and Volume II Annexes. Submitted to USAID Malawi March 2008.
- Bunderson, W.T. and Z.D. Jere. (2008). Management for Adaptation to Climate Change: An Integrated Model for the Central Watersheds of Lake Malawi. Paper presented to the Ministry of Foreign Affairs, Norway.
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- Bunderson, W.T. and Z.D. Jere. 2007. Human Resource Management Policy Manual for Total Landcare. Volume I, Malawi; Volume II, Tanzania; and Volume III, Mozambique.
- Bunderson, T.W. and Z.D. Jere. 2007. Agroforestry Partnership Project: end of Project Report. Submitted to Philip Morris USA and Philip Morris International, Washington State University.
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- Bunderson, W.T. and Z.D. Jere. 2006. Community Based Forestry Program (COBAF) Volume I: 2005/06 Annual Report and Volume II: Workplan and Budget submitted to PM USA and PM International, Washington State University.
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- Bunderson, W.T., B. Bilj and J. McGill. 2006. Assessments and Recommendations for Forestry, Irrigation, and Safe Water in the Tabora Region of Tanzania. Enhancing Rural Livelihoods in Malawi, Tanzania, and Mozambique. Submitted to Philip Morris International, Washington State University.
- Bunderson, W.T. 2006. Evaluation Report on Tanzania Programs, January 22-27, 2006. PMI Project on Enhancing Rural Livelihoods.
- Bunderson, W.T. and Z.D. Jere. 2006. Sustainable Rural Enterprises and Livelihoods in Malawi. Proposed submitted to Philip Morris USA, Washington State University.
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- Bunderson, W.T., I.M. Hayes, Z.D. Jere and H.S.K. Phombeya. 2002. Techniques for Tree Propagation and Outplanting in Malawi. Malawi Agroforestry Extension Project, Publication No. 44, Lilongwe.
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- Bunderson, W.T., Z.D. Jere, I.M. Hayes and H.S.K. Phombeya. 2002. LandCare Practices in Malawi. Malawi Agroforestry Extension Project, Publication No. 41, Lilongwe.
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- Bunderson, W.T. and Ian M. Hayes. 1997. Sustainable Tobacco Production in Malawi: The role of wood demand and supply. Malawi Agroforestry Extension Project, Lilongwe, Malawi.
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