

RESUME
CHRISTOPHER D. PANNKUK

Christopher Pannkuk is the director for Washington State University's International Programs/Research and Development. He has over 20 years experience in agricultural extension and research and international development projects. Dr. Pannkuk has designed and implemented projects to monitor and alleviate water use and soil degradation, and researched soil and water conservation practices. He has completed assignments for the U.S. Agency for International Development (USAID), the Danish Committee for Aid to Afghan Refugees (DACAAR), the Consultative Group for International Agricultural Research (CGIAR), the U.S. Department of Agriculture Agricultural Research Service (USDA/ARS), the U.S. Forest Service Rocky Mountain Research Station, the Environmental Protection Agency (EPA), and the Idaho Department of Environmental Quality. As a project lead, he monitors, evaluates, recommends and identifies resources for developing better agricultural strategies. Dr. Pannkuk has published many peer reviewed journal articles on his research and development projects and has taught "World Agricultural Systems" at Washington State University. He has carried out agricultural development activities in Afghanistan, Syria, Romania, Armenia, Jordan, Iraq, Yemen, Georgia, Sierra Leone, Malawi, and Tanzania. He has been elected to the Policy Board of Directors for the Board on Agricultural Assembly of the National Association of State Universities and Land Grant Colleges (NASULGC), is Chair of the International Committee on Organization and Policy for NASULGC, member of the Strategic Programs on Agricultural Research and Education (SPARE), and Vice President of the Association of International Agriculture and Rural Development (AIARD).

EDUCATION:

Doctor of Philosophy in Soil Physics-Washington State University - December 1994

Master of Science in Soils-Washington State University - December 1992

Bachelor of Science in Agriculture-University of Idaho - December 1990

RELEVANT EXPERIENCE:

2004-present Director, International Programs Research and Development, Washington State University.

2001-present Agricultural Consultant.

- Conducted needs assessment for water conservation in rainfed regions of Afghanistan.
- Installed weather stations and trained government officials in order to increase the capacity of Afghanistan's agricultural research.
- Developed measures to reduce agricultural sources of nitrates from entering surface waters in Romania.
- Designed projects for rehabilitation of agricultural sector in Afghanistan.
- Developed a graduate/undergraduate class on "World Agricultural Systems" for Washington State University.
- Prepared and delivered information and publication on "Linking Seed Aid to Long Term Seed Systems" at the first stakeholders meeting of the Afghanistan Agricultural Sector. Future Harvest Consortium in Kabul, Afghanistan.
- Formed watershed advisory group and monitoring plan for a tributary to the Palouse River basin in northern Idaho.
- Developed theory for adjusting soil erosion equations in current models for the effects of wild fires in forest environments.
- Served as panel member on the selection of candidates for USAID's Women in Development Fellowship.
- Developed "Total Maximum Daily Load" documents for tributaries in the Clearwater River basin in central Idaho.

- 2000-2001 Water Management Specialist, United States Agency for International Development advising USAID and contractors on water quantity and quality programs for Armenia and the South Caucasus Region.
- Provide improved tools, techniques and training to policy-makers and water managers to strengthen water policy;
 - Increased the quantity and quality of data and improved access to information on water resource, management and use;
 - Developed selected, pilot basis key demonstrations of effective local participation and partnership building;
 - Ensured the integration of women in activities supported by USAID through the water management project;
 - Developed a “Drought Response Plan” for the Republic of Armenia.
- 1999-2000 Soil Scientist, U.S. Department of Agriculture Forest Service evaluating and developing theories on wild fires affect the erodibility of soils. Evaluating soil erosion models and developing risk analysis methods for forest managers.
- 1995-1999 Research Associate, Crop and Soil Sciences, Washington State University.
- Lead a project evaluating the effects of burn/low-till management in recrop winter wheat on erosion and soil quality.
 - Conducted a needs assessment for soil conservation and developed agricultural extension projects in Azuay Province of Ecuador.
 - Validating the Water Erosion Prediction Project (WEPP) simulation model for the Pacific Northwest Wheat Region.
 - Developing relationships of soil erodibility for the revised universal soil loss equation (RUSLE).
- 1991-1994 Research Assistant, Crop and Soil Science, Washington State University. Developed M.S. and Ph.D. program with WSU faculty. Designed and conducted a five year field experiment to evaluate conservation management effects in a wheat-fallow production system in dryland eastern Washington. Validated a cropping systems simulation model called CropSyst using experimental data. Conducted an evaluation of tillage systems with CropSyst and an economic risk analysis. Taught introductory soils course.
- 1985-1990 Research Technician, USDA Agricultural Research Service
Helped improve fertilizer efficiency, improve crop vigor, and maintain a sustainable farming system with no-till planting.
- 1982-1984 Agricultural Extension Agent, Peace Corps. Provided technical assistance to farmers and trained a Sierra Leonian counterpart in swamp development for rice production and fish ponds, fertilizer management, and improved cultural practices in rice production.

Countries Worked In (language):

Afghanistan, Armenia (basic Armenian), Ecuador (limited Spanish), Georgia, Romania (limited Romanian), Sierra Leone (fluent Krio west African Crioulo)

RELEVANT PUBLICATIONS:

- Rainfed Agriculture in Afghanistan – needs assessment. June 2004. Danish Committee for Aid to Afghan Refugees.
- Guide for Small Farms – Good Agricultural Practices to Address Nitrate Pollution. March 2004. Ministry of Agriculture and Natural Resources, Bucharest Romania.
- Pannkuk, C.D., P.R. Robichaud. Effectiveness of needle cast at reducing erosion after forest fires. Water Resources Research 39 12 1333 (2003).
- Pannkuk, C. D. and Thomas Lumpkin. Linking Seed Aid to Long Term Seed System Development in Afghanistan. Proceedings from “Future Harvest Consortium” first stakeholders meeting, Kabul, Afghanistan, 2002.

- Pannkuk, C.D., D.K. McCool, and J.M. Laflen. Evaluation of WEPP for Transient Frozen Soil. *In* Soil Erosion and Dryland Farming edited by John M. Laflen. CRC Press 2000. pp 567-571.
- McCool, D.K., C.D. Pannkuk, K.E. Saxton, P.K. Kalita. Winter runoff and erosion on Northwestern USA cropland. *International Journal of Sediment Resources*. Vol. 15, No. 2, 2000, pp.149-161
- Pannkuk, C.D., C. O. Stockle, and R.I. Papendick. Validation of CropSyst for Winter and Spring Wheat under Different Tillage and Residue Management Practices in a Wheat-Fallow Region. 1997 *Agricultural Systems* 57/2 1998 p. 121-134
- Pannkuk, C.D., D.K. McCool, P.W. Mutch. Effects of Canopy Cover on Soil Loss. 1998 Annual International meeting for the American Society of Agricultural Engineers in Orlando, FL. Paper No. 982062
- Pannkuk, C.D., R.I. Papendick, K.E. Saxton. Fallow management effects on soil water storage and wheat yields in the Pacific Northwest. *Agronomy Journal* 89:386-391 (1997).