

Fertilizer research and development

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Year	Project	Principal investigator(s)	Sponsoring agency	Crop	ODA funding	Attachments
						Reports
2012	Making the Case for Implementing Groundwater Protection through Fertilizer Management	D. Schmizt et al.	Benton Soil & Water Conservation District	Multiple crops	\$17,155.00	12_01_Groundwater_prop.pdf 12_01_mid_3.pdf 12_01_mid_2.pdf 12_01_mid_1.pdf
2012	Independent Review of the Lower Umatilla Basin (LUB) Groundwater Management Area (GWMA) Monitoring Program	J. Barry et al.	GSI Water Solutions, Inc.	Multiple crops	\$50,000.00	12_02_Umatilla_final.pdf 12_02_Umatilla_prop.pdf
2003	Distribution and Fate of Background and Bioavailable Metals in Oregon Agricultural Soils, Plants and Waters	Kim Anderson and Angela Perez	Oregon State University	Multiple crops	\$302,955.00	03_01_dist_final_02.pdf 03_01_dist_prop.pdf

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						Reports
						03_01_dist_mid_1.pdf 03_01_dist_mid_2.pdf 03_01_dist_mid_3.pdf 03_01_dist_mid_4.pdf 03_01_dist_mid_5.pdf
2003	Complete Characterization of Parameters Used in Risk Assessment Models for Heavy Metal Transport Associated With Fertilizer Applications in Oregon	Bill Fish and Gwynn Johnson	Portland State University	Multiple crops	\$155,031.00	03_02_mid_3.pdf 03_02_final.pdf 03_02_mid_1.pdf 03_02_prop.pdf

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						Reports
2003	Validating Modeling Parameters for Risk Assessment of Metals In Fertilizers	Larry Curtis	Oregon State University	Multiple crops	\$19,731.00	03_02_mid_2.pdf 03_03_mid_1.pdf 03_03_mid_2.pdf 03_03_prop.pdf
2001	Irrigation Management Workshops	Marshall English	Oregon State University	Multiple crops	\$3,204.00	
2001	Analysis and Publication of Ten Years of Nitrate Leaching Data Under a Spectrum of High-Value Cropping Systems	John Selker	Oregon State University	Multiple crops	\$66,195.00	01_02_del_2.pdf 01_02_del_4.pdf 01_02_del_1.pdf 01_02_em8862.pdf

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						Reports
						01_02_del_3.pdf 01_02_ec1565.pdf 01_02_em8851.pdf 01_02_em8861.pdf 01_02_sr1050.pdf 00_01.pdf
2000	Evaluating Control of Groundwater Contaminants Through Tile-line Management	John Selker, Maria Dragila and Kristy Warren	Oregon State University	Grass seed	\$88,543.00	
1999	Nurse Crops for Erosion Control in Grass Seed Cropping Systems Research/Demonstration Pilot Project	Susan Aldrich-Markham and Dan McGrath	Oregon State University	Grass seed	\$1,000.00	99_01.pdf
1998	On-Farm Development of a Growing Degree Day Based Management Schedule to Enhance Grass seed Production and Reduce Potential Environmental Losses	Tom Thomson	Northwest Ag Consulting	Grass seed	\$5,880.00	98_01.pdf

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						Reports
1998	Production and Reduce Potential Environmental Losses of Nitrogen - Year 3 Defining Optimum Nitrogen Fertilization Practices for Perennial Ryegrass and Tall Fescue Seed Production Systems in the Willamette Valley - Year 2	William C. Young, III	Oregon State University	Grass seed	\$22,938.89	98_03.pdf
1998	GWMA Irrigation Water and Nitrogen Management BMP Monitoring	Ron Jones	Malheur County Soil and Water Conservation District	Multiple Crops	\$5,000.00	98_04.pdf
1998	Defining Optimum Nitrogen Fertilization Practices for Fine Fescue Seed Production Systems in the Willamette Valley	William C. Young, III	Oregon State University	Grass seed	\$7,900.00	98_05.pdf
1998	Missing Links in Wheat Nitrogen Uptake	Russ Karow	Oregon State University	Small grains	\$1,940.00	98_06.pdf
1998	Developing Nitrogen Fertilization Strategies for Spring Grains - Year 2	Russ Karow	Oregon State University	Small grains	\$15,827.00	
1998	Protecting Groundwater While Optimizing N Applications for Pasture Forage Production in Oregon	John Hart	Oregon State University	Hay & pasture	\$21,344.00	98_09_prop.pdf 98_09_final.pdf 98_09_em8852.pdf
1998	Partners for Clean Water	Sheri Wantland	Unified Sewerage Agency of Washington County	Multiple crops	\$17,691.00	98_10.pdf

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Year	Project	Principal investigator(s)	Sponsoring agency	Crop	ODA funding	Attachments
						Reports
			Washington County			
1998	Farm Management Options to Protect Groundwater Resources: An Educational Outreach Project	John Luna	Oregon State University	Vegetables	\$8,651.00	98_17.pdf
1998	Developing and Evaluating an Integrated Vegetable Production System to Protect Groundwater Resources	John Luna	Oregon State University	Vegetables	\$21,033.00	98_16.pdf
1998	Home*A*Syst Pesticide Storage and Handling Education for Applicators	Gail Andrews	Oregon State University	Multiple crops	\$7,672.00	98_20.pdf
1998	Extension Publications to Guide Nutrient Management	Dan Sullivan	Oregon State University	Onions	\$7,000.00	98_23_pnw546.pdf 98_23.pdf
1997	GWMA Irrigation Water and Nitrogen Management BMP Monitoring	Ron Jones	Malheur County Soil and Water Conservation District	Multiple Crops	\$10,000.00	97_02.pdf
1997	Development of a Cover Crop Manual for Groundwater Protection	Richard Dick	Oregon State University	Vegetables	\$23,468.00	
1997	Defining Optimum Nitrogen Fertilization Practices for Perennial Ryegrass and Tall Fescue Seed Production Systems in the Willamette Valley - Year 1	William C. Young, III	Oregon State University	Grass seed	\$21,638.89	97_05.pdf
1997	Developing Nitrogen Fertilization Strategies for Spring Grains - Year 1	Russ Karow	Oregon State University	Small grains	\$11,638.00	97_06.pdf

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Year	Project	Principal investigator(s)	Sponsoring agency	Crop	ODA funding	Attachments
						Reports
1997	Writing a Winter Wheat Nutrient Management Guide for Western Oregon and Field Testing its Principals	Russ Karow	Oregon State University	Small grains	\$7,180.80	97_07_tc.pdf 97_07.pdf 97_07_fg9.pdf
1997	On-Farm Development of a Growing Degree Day Based Management Schedule to Enhance Grass seed Production and Reduce Potential Environmental Losses of Nitrogen - Year 2	Tom Thomson	Northwest Ag Consulting	Grass seed	\$12,150.00	97_08.pdf
1997	On-Farm Development of a Peppermint Nitrogen Management Tool	John Selker	Oregon State University	Peppermint	\$14,401.00	97_13.pdf
1997	Developing Extension Materials to Support Sustainable Irrigation Systems Infrastructure	John Selker	Oregon State University	Multiple crops	\$10,630.00	97_14.pdf
1997	Riparian Ecosystems and Water Quality in Northwest Agricultural Landscapes	Steve Griffith	USDA - ARS National Forage and Turf Seed Research Center	Grass seed	\$25,000.00	97_15.pdf
1996	Soil Testing in Malheur County Wheat Production	Daren Coppock	Oregon Wheat Growers League	Small grain	\$4,500.00	
1996	Grid Soil Sampling in High Fertility Crops	Elena Fairchild	Eugene Farmers Co-op	Vegetables	\$6,417.00	
1996	Implementation of the Oregon Water Quality Decision Aid	Herb Huddleston	Oregon State University	Multiple crops	\$6,875.00	

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						Reports
1996	On-Farm and Small Plot Evaluation of the Nitrogen Requirements of Winter Wheat Grown in Various Rotations in Western Oregon	Russ Karow	Oregon State University	Small grain	\$19,862.00	96_05.pdf
1996	Effect of Alternative Crop Rotations/Cover Crops on Productivity and Input Efficiency in Vegetable Crop Systems - Year 2	Richard Dick	Oregon Processed Vegetable Commission	Vegetables	\$21,000.00	
1996	Use of Oregon's Pesticides and Groundwater Database in Outreach Education	Jeff Jenkins	Oregon State University	Multiple crops	\$6,875.00	96_10.pdf
1996	Ground Water Management Area Irrigation Water and Nitrogen Management BMP Monitoring	Ron Jones	Malheur County Soil and Water Conservation District	Onions	\$10,000.00	
1996	On-Farm Development of a Growing Degree Day Based Management Schedule to Enhance Grass seed Production and Reduce Potential Environmental Losses of Nitrogen - Year 1	Tom Thomson	Northwest Ag Consulting	Grass seed	\$10,000.00	96_13.pdf
1996	Integration of Practices for Low Cost Production and Groundwater Protection: 1996 Field Demonstration and Information Transfer	Clint Shock	Oregon State University	Sugar beets	\$13,243.00	96_18.pdf
1996	Defining Best Management Strategies for Nutrient and Water Application on Irrigated Crops in the Lower Umatilla Basin	Larry Coppock & Associates	Umatilla Soil and Water Conservation District	Potatoes	\$9,316.00	96_20.pdf
1996	Evaluating the Potential for Ultra-Low Rate Irrigation	Richard J. Roseberg	Oregon State University	Tree fruit	\$20,000.00	

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Year	Project	Principal investigator(s)	Sponsoring agency	Crop	ODA funding	Attachments
						Reports
	Systems to Improve Groundwater Quality - Year 2					96_21.pdf
1996	Development of a Nitrogen Monitoring Program for Sweet Corn Production	Neil Christensen	Oregon State University	Vegetables	\$15,000.00	96_22.pdf
1996	On-Farm Testing of BMPs Reduction of Nitrate Loading to Groundwater - Year 2	John Selker	Oregon State University	Multiple crops	\$25,000.00	96_23.pdf
1996	Nutrient Management for Oregon: Publications for Practitioners	John Hart	Oregon State University	Vegetables	\$10,000.00	
1996	Development and Delivery of Home Lawn and Garden Recommendations to Promote Groundwater Protection	Gail Glick Andrews	Oregon State University	Turf	\$7,121.00	96_26_ec1492.pdf 96_26_ec1493.pdf 96_26.pdf
1996	Optimizing Orchard Nutrient Management	Franz Niederholzer	Oregon State University	Tree fruit	\$10,771.00	96_27.pdf
1995	On-Farm Evaluation of the Nitrogen Requirements of Winter Wheat Grown in Various Rotations in Western Oregon	Russ Karow	Oregon State University	Small grains	\$2,750.00	
1995	Irrigation and Nitrogen Fertility Management of Peppermint	Alan Rex Mitchell	Oregon State University	Peppermint	\$5,500.00	

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						Reports
1995	Improved Methods for Furrow Irrigation Management	Alan Rex Mitchell	Oregon State University	Peppermint	\$7,700.00	
1995	Interseeding of Cover Crops into Late Plantings of Cauliflower, Broccoli, and Cabbage for Nitrate Recapture, Soil Conservation, and Water Quality Protection	Dan McGrath	Oregon State University	Vegetables	\$12,815.00	
1995	Enhancing the Oregon Water Quality Decision Aid to Optimize Groundwater Protection	Herb Huddleston	Oregon State University	Multiple crops	\$5,940.00	
1995	On-Farm Testing of BMPs Reduction of Nitrate Loading to Groundwater - Year 1	John Selker	Oregon State University	Multiple crops	\$24,998.00	
1995	Evaluating the Potential for Ultra-Low Rate Irrigation Systems to Improve Groundwater Quality - Year 1	Richard J. Roseberg	Oregon State University	Tree fruit	\$21,965.00	
1995	BMP - Irrigation Water Management Tool Adoption Program	Kit Kamo	NE Malheur County Groundwater Citizen's Advisory Committee and the Malheur County Soil and Water Conservation District	Potatoes	\$5,000.00	
1995	Effect of Alternative Crop Rotations/Cover Crops on Productivity and Input Efficiency in Vegetable Crop Systems - Year 1	Richard Dick	Oregon Processed Vegetable Commission	Vegetables	\$25,000.00	95_13.pdf
1994	Fertilizer Rate, Source and Placement for Enhanced Nitrogen Use by Hops to Protect Groundwater Quality	Neil Christensen	Oregon State University	Hops	\$24,240.00	

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						Reports
1994	Nitrogen Use by Hops to Protect Groundwater Quality Improvements to the Oregon Decision Aid for Evaluating Groundwater Vulnerability to Pesticide Leaching	Herb Huddleston	Oregon State University	Multiple crops	\$20,000.00	
1994	Irrigation Management Monitoring Program	Kit Kamo	Malheur County Soil and Water Conservation District	Onions	\$5,000.00	
1994	On-Farm Evaluation of the Nitrogen Requirements of Winter Wheat Grown in Various Rotations in Western Oregon	Russ Karow	Oregon State University	Small grains	\$7,920.00	
1994	Reducing Nitrate Loading of Groundwater by Cover Cropping Practices in Vegetable Production Systems	Richard Dick	Oregon State University	Vegetables	\$14,221.00	
1994	Cover Crops for Water Quality: Reducing Groundwater Contamination and Nitrogen Fertilizer Inputs in Western Oregon Vegetable Production Systems	John Luna	Oregon State University	Vegetables	\$15,000.00	
1994	Nitrogen Fertility Management of Peppermint	Alan Rex Mitchell	Oregon State University	Peppermint	\$13,904.00	
1994	Oregon Pesticide Container Management Program "Prevention through Education"	Richard Kosesan	Oregon Agricultural Chemicals Association	Multiple crops	\$14,614.00	
1994	Soil Nitrogen Measurement in Peppermint Fields in the Willamette Valley	Elena Fairchild	Eugene Farmers Co-op	Peppermint	\$3,000.00	
1994	Development of Nitrogen Best Management Practices for Groundwater Protection and Sustainable Wheat	Don Wysocki	Oregon State University	Small grains	\$25,000.00	

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						Reports
	Production					
1994	Ground and Surface Water Protection Education Project	Kathy Murrin	Portland Parks and Recreation Department	Multiple crops	\$14,150.00	
1993	Three - Tier Nutrient Management Education Program	Nicola Giardina	Jackson County Soil and Water Conservation District	Hay & pasture	\$15,000.00	
1993	On-Farm Demonstration of the Use of Cover Crops for Reducing Groundwater Contamination & Nitrogen Fertilizer Inputs in Western Oregon Vegetable Production Systems	John Luna	Oregon State University	Vegetables	\$15,000.00	
1993	Hay and Pasture Nitrogen Fertilizer Rates to Reduce Potential Ground and Surface Water Pollution in Central Oregon	Mylen Bohle	Oregon State University	Hay & pasture	\$13,530.00	
1993	Demonstration Project on Five Producer's Onion Fields to Illustrate Nutrient Management	Kit Kamo	Malheur County Soil and Water Conservation District	Onions	\$14,200.00	
1993	Recovering a Municipal Water Source by Identifying Sources of Nitrate Contamination	Lawrence Coppock	Larry Coppock and Associates	Small grains	\$10,870.00	
1993	New Tools for Plant Response Nitrogen Testing of Peppermint	Alan Rex Mitchell	Oregon State University	Peppermint	\$4,895.00	
1993	Watermark Sensors for Irrigation Management	Alan Rex Mitchell	Oregon State University	Peppermint	\$10,043.00	
1993	Distribution of the Resource Book: Common Sense Pest	Carrie Swadener	Northwest Coalition for	Multiple crops	\$2,950.00	

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						Reports
	Control - Least Toxic Solutions for Your Home, Garden, Pets and Community		Alternatives to Pesticides			
1993	Fertilizer Rate, Timing and Placement to Optimize Nitrogen Uptake by Hops and Protect Groundwater Quality	Neil Christensen	Oregon State University	Hops	\$14,346.00	
1993	Onion Irrigation Practices to Reduce Nitrate Leaching	Clint Shock	Oregon State University	Onions	\$14,652.00	
1993	Demonstration of Rapid Interpretation of Soil Water Information for Irrigation Decisions	Clint Shock	Oregon State University	Onions	\$13,793.00	
1993	Development of a Farmstead Water Supply Assessment (Farm*A*Syst) System to Serve Oregon	Ron Miner	Oregon State University	Multiple crops	\$14,850.00	
1992	Pesticide Use Survey	Herb Huddleston	Oregon State University	Multiple crops	\$14,412.00	
1992	Research Survey of Nitrate Accumulation in Lower Umatilla Basin Groundwater Management Area	Don Wysocki	Lower Umatilla Basin Technical Advisory Committee	Potatoes	\$7,000.00	
1992	Nitrogen Testing of Peppermint	Alan Rex Mitchell	Oregon State University	Peppermint	\$5,000.00	
1992	Efficiency of Nitrogen Recovery for Groundwater Protection, 1992 and Improved Onion Nitrogen Management for Groundwater Protection, 1992	Clint Shock	Oregon State University	Onions	\$75,716.00	
1990	Pesticide Container Recycling Program	Richard Kosesan	Oregon Agricultural Chemicals Association	Multiple crops	\$10,000.00	
1990	Minto - Brown Island Project	Salem Parks and	City of Salem	Vegetables	\$10,000.00	

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		Recreation Agency				
1990	Center Pivot Irrigation Equipment for the Hermiston Agricultural Research and Extension Center	Phil Hawman	Blue Mountain Potato Growers Association	Potatoes	\$35,000.00	
1990	Vadose Zone Investigations	Kit Kamo	Malheur County Soil and Water Conservation District	Onions	\$74,000.00	