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Agricultural Perspectives on Water Resource Management in the Americas (II)

1990 - SEPTEMBER 1995

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AGRICULTURAL PERSPECTIVES ON WATER RESOURCE MANAGEMENT IN THE AMERICAS (II)

1. Agricultural and water-quality conflicts : economic dimensions of the problem.
Crutchfield, S. R.; Hansen, L. T.; Ribaudó, M.

United States. Dept. of Agriculture. Economic Research Service.

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Caption title.

Descriptors: Water-quality-Economic-aspects-United-States;
Groundwater-Pollution- Economic-aspects-United-States;
Agricultural-chemicals-Environmental- aspects-United-States;
Agriculture-and-state-United-States

NAL Call No.: 1-Ag84Ab-no.676

2. Agricultural nonpoint source pollution and economic incentive policies : issues in the reauthorization of the Clean Water Act : water quality.

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Descriptors:

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NAL Call No.: aTD428.A37M34-1992

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Kerns, W. R.

Virginia Polytechnic Institute and State University. Extension Division. Blacksburg : Virginia Water Resources Research Center, Virginia Polytechnic Institute and State University, 1984. 135 p. : ill., maps.

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Means, S. L.; Mustion, J. T.

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7. Agriculture and water quality improvements : what are the
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state-government; federal-government; agricultural-research;

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NAL Call No.: 100-T31M

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Swader, F.

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13. Alleviation of salt load in irrigation water return flow of the Upper Colorado River Basin : final report of research.

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Saltwater-encroachment-Colorado-River-Watershed-Colo; -Mexico;
Water- quality-management-Colorado-River-Watershed-Colo; -Mexico
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planning in the USA and the Ukraine.
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Platonova, G. Y.

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water-quality; planning-; models-; usa-; ukraine-
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15. Baseline report : evaluation of producer involvement in the
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issues"--Cover.

Descriptors: Water-quality-management-United-States-Evaluation;
Water-quality- United-States
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Manaus and Carjas, Brazil.
Konhauser, K. O.; Fyfe, W. S.

Energy-sources v. 15, p.595-608. (1993).
In the special issue: Geochemical aspects of global change /
edited by F. Goodarzi and W.S. Fyfe.
Descriptors: algae-; river-water; heavy-metals; biogeochemistry-;
cycling-; rivers-; amazonia-; para-; rio-negro; rio-solimoes
NAL Call No.: QC73.6.E5

17. Briefing series on the 1995 farm bill: wetlands, agriculture
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Descriptors: Water-supply-Chile;

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21. Controlling toxic substances in agricultural drainage :
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California-San-Joaquin-River-Valley-Congresses;
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22. Detailed study of water quality, bottom sediment, and biota associated with irrigation drainage in the Salton Sea area, California, 1988-90. Detailed study of water quality, sediment, and biota associated with irrigation drainage, Salton Sea area, 1988-90.

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Shipping list no.: 94-0036-P.

Descriptors: Irrigation-water-Pollution-Imperial-Valley-Calif;
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23. Determination of inundation area in the Amazon River floodplain using the SMMR 37 GHz polarization difference.

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Descriptors:

Water-resources-development-Economic-aspects-Oregon-Ontario;
Groundwater-Quality-Economic-aspects-Oregon-Ontario;
Irrigation-farming- Economic-aspects-Oregon-Ontario;
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White, T. A.; Quinn, R. M.

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"Work contributing to this paper was supported by funds from the United Nations Environment Programme, the Food and Agriculture Organization of the United Nations, the Pew Charitable Trusts, and the University of Minnesota." Agriculture Experiment Station and is a product of Project nos. MN-42- 049 and MN-42-035."

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NAL Call No.: A281.9--Ag8A-no.698

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J-soil-water-conserv v.45, p.477-479. (1990).

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Descriptors: water-pollution; water-quality; pollution-control;

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nonpoint-pollution; shared-costs; agricultural-pollution

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28. Effects of agriculture on U.S. water quality--a national perspective.

Cohen, P.; Mallard, G. E.

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Soil-sci v. 157, p.289-299. (1994).

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nitrification-; mineralization-; soil- water-content;
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Animal-industry-Law-and- legislation-United-States;
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NAL Call No.: ArU KF1726.8.E58C67-1993

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case of induced output price changes.

Caswell, M. F.; Shoemaker, R.

United States. Dept. of Agriculture. Economic Research Service.
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Service, [1993] viii, 15 p. : ill..

Cover title.

Descriptors:

Agricultural-innovations-Economic-aspects-United-States;
Agricultural-innovations-Government-policy-United-States;
Agricultural- pollution-Economic-aspects-United-States;
Agricultural-pollution- Government-policy-United-States;
Equilibrium-Economics

NAL Call No.: 1-Ag84Te-no.1823

32. NAL Call No.: aTD223.A1N692--1992

Evaluation of producer involvement in the United States
Department of Agriculture 1990 water quality demonstration
projects : draft. Farmers and water quality, local answers to
local issues.

Nowak, P. J.; O'Keefe, G. J.

United States. Dept. of Agriculture. [Washington, D.C. : U.S.
Dept. of Agriculture, 1992] 1 v. (various pagings) : ill., maps.
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Descriptors: Water-quality-management-United-States-Evaluation;
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Gale, J. A.

United States. Environmental Protection Agency. Office of Wetlands, O. a. W. A. P. Washington, D.C. : United States Environmental Protection Agency, Office of Wetlands, Oceans, and Watersheds, Nonpoint Source Control Branch, [1993] xv, 559 p. : ill., maps.

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Descriptors: Rural-Nonpoint-Source-Control-Water-Quality-Evaluation-and- Technical-Assistance-Project; Water-quality-United-States; Water-quality-management-United-States

NAL Call No.: TD370.E92--1993

34. Factors leading to permanent adoption of best management practices in South Dakota Rural Clean Water Program projects. Cameron Howell, K.

Proceedings: the National RCWP Symposium 10 years of controlling agricultural nonpoint source pollution the RCWP experience Sept 13- 17, 1992, Orlando, Florida p.255-259. (Environmental Protection Agency, [1992].).

Includes references.

Descriptors: water-management; water-quality; programs-; farmers-; participation- ; south-dakota

NAL Call No.: TD223.N36-1992

35. Farmer participation in the Double Pipe Creek, Maryland, Rural Clean Water Program project. Schaeffer, E. A.

Proceedings: the National RCWP Symposium 10 years of controlling agricultural nonpoint source pollution the RCWP experience Sept 13- 17, 1992, Orlando, Florida p.265-272. (Environmental Protection Agency, [1992].).

Includes references.

Descriptors: water-management; water-quality; programs-; farmers-; participation- ; maryland-

NAL Call No.: TD223.N36-1992

36. Feasibility of point-nonpoint source trading for managing agricultural pollutant loadings to coastal waters. Crutchfield, S. R.; Letson, D.; Malik, A. S.

Water-resour-res v.30, p.2825-2836. (1994).

Includes references.

Descriptors: pollutants-; agriculture-; water-pollution; point-sources; pollution-control; water-quality; watersheds-; coastal-areas; feasibility-; usa-; nonpoint-source-pollution; point-source-pollution

Abstract: A recent focus of water quality policy discussions has been the trading of pollution abatement between point and nonpoint sources. Point-nonpoint trading would allow point sources to sponsor nonpoint source controls rather than install further controls of their own. If nonpoint source loadings are significant and the marginal costs of their control are lower than for additional point source controls, water quality goals could be met at lower cost with trading. We isolate difficulties particular to incentive policies such as point-nonpoint trading

and then screen coastal watersheds for those satisfying conditions that play a major role in determining whether trading can improve water quality. We follow the recent Coastal Zone Act Reauthorization Amendments in emphasizing agriculture, the single largest cause of nonpoint source pollution. Our screening analysis provides an initial, empirical assessment of the feasibility of trading for managing agricultural land use to protect coastal water quality. We also illustrate the additional analysis required to quantify the potential for successful trading in those watersheds which meet our screening criteria.
NAL Call No.: 292.8-W295

37. Ground-water resources of the Caguas-Juncos Valley, Puerto Rico. Ground water resources of the Caguas-Juncos Valley, Puerto Rico.

Puig, J. C. J. C.; Rodriguez, J. M.; Rodriguez Martinez, J.

Puerto Rico. Dept. of Natural Resources. San Juan, P.R. : U.S. Geological Survey, U.S. Geological Survey ; Denver, CO : Books and Open-File Reports Section [distributor], 1993. v, 52 p. : ill., maps.

Shipping list no.: 93-0311-P.

Descriptors: Water,-Underground-Puerto-Rico-Caguas-Region;
Water,-Underground- Puerto-Rico-Juncos-Region

NAL Call No.: GB701.W375-no.91-4079

38. Groundwater quality: responsible agriculture and public perceptions.

Goss, M. J.; Barry, D. A. J.

J-agric-environ-ethics v.8, p.52-64. (1995).

Includes references.

Descriptors: groundwater-pollution; water-quality;
drinking-water; wells-; farming-; agricultural-policy; canada-

NAL Call No.: BJ52.5.J68

39. Hydrogeology of south-central St. Croix, U.S. Virgin Islands. Graves, R. P.

San Juan, Puerto Rico : U.S. Geological Survey, 1995. v, 33 p. : ill., maps.

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NAL Call No.: GB701.W375--no.93-4162

40. Hydrology, water quality, and potential alternatives for water- resources development in the Rio Majada and Rio Lapa Basins near the Albergue Olimpico, southern Puerto Rico.

Ramos Gines, O.

Geological Survey (U.S.). San Juan, P.R. : U.S. Geological Survey ; Denver, CO : USGS Earth Science Information Center, Open-File Reports Section [distributor], 1994. v, 35 p. : ill., maps.

Includes bibliographical references (p. 29).

Descriptors: Water-resources-development-Puerto-Rico-Rio-Majada
-Watershed;Water-resources-development-Puerto-Rico-Rio-Lapa
-Watershed

NAL Call No.: GB701.W375--no.91-4174

41. The invisible menace : agricultural polluted run-off in our nation's streams. Agricultural polluted run-off in our nation's streams

Trout Unlimited. [S.l.]

Trout Unlimited, [1994] 12, [7] leaves : ill..

Caption title.

Descriptors:

Agricultural-pollution-Environmental-aspects-United-States;

Runoff- Environmental-aspects-United-States;

Rivers-Environmental-aspects- United-States

NAL Call No.: TD930.I69--1994

42. Joint U.S. agricultural run-off program: Poland agriculture and water quality protection project.

Johnson, S. R.; Bouzaher, A.; Foster, W. E.; Gordon, S. C.

Staff-rep-Iowa-State-Univ,-Cent-Agric-Rural-Dev. Ames, Iowa : Center for Agricultural and Rural Development, 1986-. June 1993. (93-SR 62) 33 p.

Includes references.

Descriptors: water-quality; runoff-; environmental-protection; development- projects; sustainability-; usa-; poland-

NAL Call No.: HD1401.S75

43. Land retirement as a tool for reducing agricultural nonpoint source pollution.

Ribaudo, M. O.; Osborn, C. T.; Konyar, K.

Land-econ. Madison, Wis. : University of Wisconsin Press. Feb 1994. v. 70 (1) p. 77-87.

Includes references.

Descriptors: water-pollution; land-diversion; pollution-control; agricultural- land; social-costs; mathematical-models; usa-

NAL Call No.: 282.8-J82

44. Maintaining the health and productivity of the Gulf of Mexico : hearing before the Subcommittee on Oceanography, Gulf of Mexico, and the Outer Continental Shelf of the Committee on Merchant Marine and Fisheries, House of Representatives, One Hundred Third Congress, first session, on coordination between the federal government, the states, and civilian communities to sustain and develop the natural resources of the Gulf of Mexico, April 23, 1993, Corpus Christi, Texas.

United States. Congress. House. Committee on Merchant Marine and Fisheries. Subcommittee on Oceanography.

G. o. M. a. t. O. C. S. Washington : U.S. G.P.O. : For sale by the U.S. G.P.O., Supt. of Docs., Congressional Sales Office, 1993. iv, 173 p. : ill., maps.

Distributed to some depository libraries in microfiche.

Descriptors: Marine-resources-conservation-Mexico,-Gulf-of;

Marine-resources- development-Mexico,-Gulf-of;

Coastal-zone-management-Mexico,-Gulf-of- Citizen-participation;

Marine-resources-and-state-Mexico,-Gulf-of

NAL Call No.: KF27.M473--1993b

45. Method to identify wells that yield water that will be replaced by Colorado River water in Arizona, California, Nevada, and Utah.

Wilson, R. P.; Owen Joyce, S. J.

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Descriptors: Groundwater-Colorado-River-Region-Colo; -Mexico;

Aquifers-Colorado- River-Region-Colo; -Mexico;

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NAL Call No.: GB701.W375--no.94-4005

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Descriptors: Agricultural-pollution-United-States;

Nonpoint-source-pollution- United-States;

Agricultural-wastes-Environmental-aspects-United-States

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Includes references.

Descriptors: pollution-; control-; pollution-control;

water-pollution; drainage- ; leaching-; runoff-; pesticides-;

sediment-; soil-conservation; land- policy; usda-; land-banks;

federal-programs; usa-

NAL Call No.: 56.8-J822

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Hedin, L. O.; Armesto, J. J.; Johnson, A. H.

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temperate-zones; chile-

NAL Call No.: 410-Ec7

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White, T. A.

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Descriptors: Soil-conservation-Economic-aspects-Haiti;
Soil-conservation-Social-aspects-Haiti;
Watershed-management-Economic-aspects-Haiti; Watershed-
management-Social-aspects-Haiti

NAL CALL NO: HC59.72 E5W57 1992 no.3

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Letson, D.; Crutchfield, S. R.; Malik, A. S.

United States. Dept. of Agriculture. Economic Research Service. Washington, DC : U.S. Dept. of Agriculture, Economic Research Service, [1993] vii, 14 p. : ill., map.

Cover title.

Descriptors: Water-quality-management-United-States;
Agricultural-pollution- United-States;
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NAL Call No.: A281.9-Ag8A-no.674

51. Potentially pathogenic vibrios associated with mussels from a tropical region on the Atlantic coast of Brazil.

Matte, G. R.; Matte, M. H.; Sato, M. I. Z.; Sanchez, P. S.;
Rivera, I. G.

J-appl-bacteriol v.77, p.281-287. (1994).

Includes references.

Descriptors: mussels-; vibrio-; food-contamination;
food-poisoning; virulence-; water-quality; tropics-; sao-paulo
Abstract: Mussels (*Perna perna*) harvested on the coast of Ubatuba, in three different stations in the State of Sao Paulo, Brazil, were examined for *Vibrio* spp. over a 1 year period. The ranges of most probable number (MPN 100 g⁻¹) were: *Vibrio alginolyticus* (< 3-24000), *V. parahaemolyticus* (< 3-24000), *V. fluvialis* (< 3-1100), *V. cholerae* non-01 (< 3-23), *V. furnissii* (< 3-30), *V. mimicus* (< 3-9) and *V. vulnificus* (< 3-3). The highest incidence was observed for *V. alginolyticus* (92-100%), followed by *V. parahaemolyticus* (67-92%), *V. fluvialis* (34-67%), *V. vulnificus* (8-17%), *V. furnissii* (0-17%), *V. mimicus* (0-17%) and *V. cholerae* non-01 (0-8%). Tests for virulence factors were positive in 34.1% of the vibrios in the rabbit ileal loop and 31.7% in the Dean test. Positive results in the Kanagawa test were obtained with 0.51% of *V. parahaemolyticus* strains. The mean values (MPN 100 g⁻¹) of faecal coliforms in mussels from the three regions varied from 1100 to 4400, and seawater collected at the same stations gave average values for faecal coliforms in the range 18-3300 MPN 100 ml⁻¹. These results highlight the potential risks of food poisoning associated with raw or undercooked seafood.

NAL Call No.: 448.39-So12

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Roberts, J.

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Water-transfer-Colorado-Congresses;

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NAL Call No.: HD1694.C6C65--1992

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"September 1991." Protection Agency.

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NAL Call No.: TD370.R87-1990

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(1994 : Washington, D. C. [Oklahoma, City, OK? : Ground Water Protection Council?, 1994] 300 p. : ill..

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Descriptors: Groundwater-Protection-Congresses;

Groundwater-Pollution- Congresses;

Water-supply,-Rural-Congresses; Agricultural-pollution-

Congresses

NAL Call No.: TD927.N38--1994

55. Proceedings : the National RCWP Symposium : 10 years of controlling agricultural nonpoint source pollution : the RCWP experience :September 13-17, 1992, Orlando, Florida. Seminar publication : the National Rural Clean Water Program Symposium.
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(1992 : Orlando, F. Washington, DC : U.S. Environmental Protection Agency, Office of Research and Development : Office of Water, [1992] vii, 400 p. : ill., maps.

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NAL Call No.: TD223.N36-1992

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Caux, P. Y.; Kent, R. A.; Fan, G. T.; Macdonald, D.

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Little, C. E.

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Abstract: In this paper we consider the market-level impacts of
factor- augmenting innovations designed to reduce the use of
fertilizers and pesticides, first within the context of a simple
two-factor model, and then through a simulation model of the
U.S.corn market. In both models, the impacts depend on the output
demand elasticity and input substitution elasticities. The
principal conclusion of the simulation analysis is that the
potential for new techniques to reduce the use of agricultural
chemicals is limited. Capital-augmenting innovations would
actually raise fertilizer and pesticide usage. Land-augmenting
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NAL Call No.: TC433.P9W37

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Water resource management is the activity of planning, developing, distributing and managing the optimum use of water resources. It is a sub-set of water cycle management. Water is essential for our survival. The field of water resources management will have to continue to adapt to the current and future issues facing the allocation of water. With the growing uncertainties of global climate change and the long-term impacts of management actions, the decision-making will be even more difficult. It is Information on water resource management in agriculture across OECD countries was collected through a questionnaire and the analysis was also enriched by a set of background reports on: • Agricultural water pricing in Australia, European Union, Japan, Korea, Mexico, Turkey and the United States. • Financing water management and infrastructure related to agriculture. •