

Agricultural Return Flow Management in the State of Washington: A Case Study of the Yakima Basin (Water Resources Information System, Technical Bulletin 8)



Includes 13 color photographs and a foldout map of irrigation systems in the Yakima River basin.

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Volume II - Yakima Valley Case Study - epa nepis FIGURES Number Page 1 The Yakima River System 12 2

Average The authors are deeply indebted to the many farmers, state water resource agency technical and institutional solutions to the problem of irrigation return flow pollution. on a case study analysis of Yakima Valley, Washington, contains specific findings **The Methow River below Boesel Fault. (Photograph by Dick Ewing** groundwater resources in Washington State in the coming decades. Recent Washington aquifer systems has lagged far behind surface water impact analyses. The technical methods for evaluating climate change impacts on . o Use the groundwater module of Ecology's Environmental Information Management data. Geospatial Water Rights Decision Support System for Kittitas County, Washington, water rights database for the Yakima River Basin. **Technical Report on Market-Based Reallocation of Water Resources** institutional flexibility in the allocation of water resources among Water 2016, 8, 466 doi:10.3390/w8100466 of water banks as an instrument for managing scarcity. . are based on a system similar to the stock market, where the bank .. As a final example from the US, the case of Washington State : **Water resources management VIII: Books** Washington State Department of Ecology - Washington's Water Quality Management Plan to Control Nonpoint Source Four case studies in data-rich watersheds: Walla Walla River, Lower Yakima nonpoint pollution sources, including agriculture, urban and residential Technical Bulletin 10. **Climate Change and Agriculture in the United States: Effects - USDA** data/information sets, dealing with water quantity (Qa) and economic value Water Quantity (Qa): The Water Resources Program, Washington State Dept of as irrigated agriculture commodity/specialty crop and land values have . White, Yakima River Storage Enhancement Initiative, Technical Paper, .. Instream Flow. **Yakima River Basin Project - Bibliography - Washington Water** area: A memorandum report to the Washington State Legislative Council,. Committee on Unpublished Mss. A Case Studies Thesis prepared for Wader

Study Group Bulletin 46:37-41. Memorandum NOS-OMA-18, National Technical Information Service, Nisqually River basin water resources: Issues and options. **Predicted Impacts of Climate Change on Groundwater Resources of Water Exchanges: Tools to beat El Nino Climate Variability in rain fed agriculture**. Journal of the American Water Resources Association (JAWRA) 40(1):15-31. where seasonal climate forecasts can be return flow, less remaining storage on The Yakima River Valley of Washington State, Showing Yakima Project **WATER EXCHANGES: TOOLS TO BEAT EL NI O CLIMATE** Soil Resource Investigations by Agriculture Canada . . Role of Technical Service Center, SCS, in the Soil Survey Program Management state soil scientists be added as permanent voting members of .. Prediction of return-flow water quality a Reclamation type land classification of the study site area. **Surface-Water Nutrient Conditions and Sources in the United States** Petrik, W.A., 1991a, Estimated use of water in the United States 1990, selected large . Water District-MAIN water forecasting system: Water Resources Bulletin, v. water use---three case studies from the central United States: U.S. Fla., St. Johns River Water Management District Technical Publication **Water Econ 3 - Columbia-Snake River Irrigators Association Nutrient Pollution and Wastewater Treatment Systems - Oxford** Water-Resources Investigations Report 03-4246 .. precipitation-runoff model for the Methow River Basin, Washington. Figure 8. Composite scaled sensitivities for model parameters used in the seepage and zero-percent returned seepage . . therefore did not represent the natural flow system. In. **Download the report (PDF, 3.64 MB) - USGS** With smarter choices and useful strategies, nutrient pollution in the water can be and phosphorus-based nutrients in water resources lead to eutrophication, Wastewater treatment plants in urban settings and the agricultural sector are the of excessive macrophyte growth in the Yakima River near Kiona, Washington. **Nisqually Basin Bibliography: Science, Resource Management** Technical Memorandum The Mission of the Washington State Department of Ecology is to . 8. Table 5. Water Traded and Annual Net Farm Earnings during a Severe the Yakima Basin Integrated Water Resources Management Plan (Integrated flows in the Yakima River Basin, under its water acquisition program to : **CH2M Hill: Books** CH2M Hill, 1977, Yakima Valley Water Management Study: A Status Report on of Cultural, Agricultural, Wildlife, and Fisheries Resources in the Toppenish . and Washington: General Technical Report PNW-8, U.S. Department of .. Olson, F., 1993, Compilation of Flow and Fish Habitat Information: **References - Northwest Power & Conservation Council** However, the combined input from agriculture, point sources, and developed land, rather Water-quality managers in the PNW, therefore, would benefit from a of Washington, the Pacific coast of Oregon, and the closed basins in southern . Nutrient load that is removed in this way is not returned to the stream network. **Acrobat PDF format** Restoration activities in the Illinois River Watershed have led to the return of fish USDA United States Department of Agriculture Glossary AMD - Acid Mine Drainage GIS - Geographic Information System Computer system for capturing, storing, It studies regional water quality and living resources, assesses watershed **Assessment of Nonpoint Pollution in Washington State** Results 1 - 12 of 14 Agricultural Return Flow Management in the State of Washington: A Case Study of the Yakima Basin (Water Resources Information System, Technical Bulletin 8). 1975. by CH2M Hill **Water Banks: What Have We Learnt from the International - MDPI** Within this context, this study aims to examine the potential of water banks as an are not usually found in the real world, as is the case with water markets [8 , 9] . . In this regard, the aim of the water bank management is to achieve a .. As a final example from the US, the case of Washington State should be mentioned. **Agricultural Return Flow Management in the State of Washington: A** An October 2016 Washington State Supreme Court case impacts . was about Ecologys technical approach to setting instream flows and the. **USGS: Selected Water-Use Bibliography for the United States** The case study, and broader trends in U.S. water development, suggest that . The design-flood return period is essentially an estimate of system reliability, . two major water management systems: the California State Water Project (SWP) and . changing water supply forecasts in Washingtons Yakima Basin during 1977. **Finding Rural Domestic Water Solutions while protecting instream** USDA Technical Bulletin 1935. Returns to Crop Production . Capacity of the Agricultural System to Adapt to Changing Climate .. potential to manage the effects of climate change by .. Climate change will affect surface-water resources, ington State and the Yakima River Basin, projecting. **Applying the Principles and Spirit of the Clean Water - epa nepis** Agricultural Return Flow Management in the State of Washington: A Case Study of the Yakima Basin (Water Resources Information System, Technical Bulletin 8) [CH2M Hill] on . *FREE* shipping on qualifying offers. Includes 13 **adjusting water resources management to climate change** A Component of the Yakima River Basin Storage Feasibility Study Washington State Department of Ecology .. A change from agriculture to instream flow requires a change in place in Texas actually functions more as a water market with an on-line bulletin board posting court but also specialize in water cases.

Yakima Basin Description - USGS Oregon Water Science Center through streams on agricultural lands, the Washington State agricultural .. Reviewed relevant scientific and technical literature related to riparian buffer zones. . We have examined numerous peer-reviewed studies on stream buffers and alternative irrigation systems that reduce water use, erosion, and return flows are **1978, 1976, 1974, 1972, 1970, 1964 - NRCS - USDA Results 1 - 12 of 56** Agricultural Return Flow Management in the State of Washington: A Case Study of the Yakima Basin (Water Resources Information System, Technical Bulletin 8). 1975. by CH2M Hill **Home Again: Workshop on Integrated Water Management: Planning** Natural Streamflow Conditions in the Methow River. Basin, Washington. By D. Matthew Ely and John C. Risley. U.S. GEOLOGICAL SURVEY. Water-Resources **Making Water Resource Decisions More Informationally Efficient** Fire ecology and its management implications in Ponderosa pine Pullman, WA: Washington State University, Cooperative . in Kootenai and Yakima Subbasins Impact of Flow Regulation on Riparian . Columbia Basin Fish and Wildlife Authority (CBFWA) 1990 Technical Bulletin 60. .. A case study of a declining. **Efficacy and Economics of Riparian Buffers on Agricultural Lands** I am sitting in Denver International Airport returning home from Water Supplies (Focus Area Project 4550 I serve on its Technical Case studies in integrated water resources management: from local . Overview of Yakima River Basin Integrated Water Resource Management Plan. Washington State.