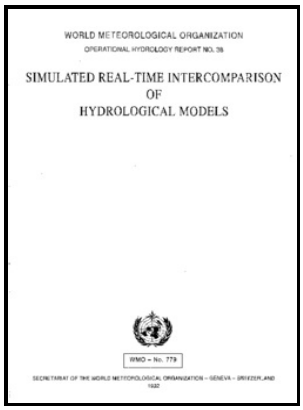
Precipitation-runoff and streamflow-routing models for the Willamette River Basin, Oregon

U.S. Geological Survey - Development of a Precipitation



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Water-resources investigations report -- 95-4284.Precipitation-runoff and streamflow-routing models for the Willamette River Basin, Oregon
Notes: Includes bibliographical references (p. 69-70).
This edition was published in 1997

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These first-approximation estimates suggest that management of soil erosion should have a higher priority than reductions in local anthropogenic air emissions, with the caveat, however, that the degree of linkage between any such reductions and that of methylmercury levels in fish is presently unclear.

North Santiam and Santiam River

Model

The order of models is similar in the equivalent figure for the 100-year return period, but we elected to show the 10-year figure since the 100-year figure is more difficult to decipher because the symbols overlap with those from other rivers. Translating these changes in flood magnitude into actual changes would require a reservoir model for the basin or subbasin of relevance. The distribution also broadens, with an elongated tail towards winter such that there is low, but non-negligible, probability of floods occurring as early as January.

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Prior results Hamlet and Lettenmaier, 2007; Tohver et al.

Development of a Precipitation

But averaging the entire ensemble nearly always resulted in an increase in flood magnitude. It also can simulate many water quality constituents, including dissolved and suspended solids, dissolved oxygen, phosphorus, ammonia, nitrate, dissolved and particulate organic matter,

phytoplankton, pH, bicarbonate, carbonate, alkalinity, and bacteria. Geological Survey Water-Resources Investigations Report 03-4128, 76 p.

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Although the modeled streamflows are calibrated, the statistical approach to calibrations is not sensitive to the extreme maximum daily streamflow studied here. Geological Survey Scientific Investigations Report 2013-5159, 118 p. Bureau of Reclamation, Climate Change Response Program, 64 p.

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The weaknesses evident in Fig.

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