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Applying the Conceptual-Model of Progressive Development to the Contaminated Aquifer Underlying Israel' s Coastal Plain

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ABSTRACT

The last ten years of moderate to low precipitation rates in Israel may be a confirmation of the forecast, based on historical data, that recent, repeated droughts are a function of global warming. In this case the conventional policy of " Sustainable Development" is not sufficient to avert the impact of diminution of precipitation on Israel' s water supply. Instead, a policy of " Progressive Development" is proposed, which aims to exploit, stage by stage, first the water resources most available and at lowest cost until they are ex-hausted. Once this stage is under execution, progressive steps are taken to develop more costly resources by advanced methods of exploitation. A case study of such a development plan is the controlled deterioration of the water quality of the coastal plain aquifer of Israel.

KEYWORDS

Progressive Development, Global Warming, Water Resources, Water Quality, Coastal Aquifer

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