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16. Abstract This report investigates what factors should be considered in the setting of reasonable pumping levels in appropriation doctrine states. The introduction covers some elements of groundwater hydrology and describes other groundwater management tools that also affect pumping levels in appropriation doctrine states. The various reasonable pumping level statuses are compared and contrasted. The economic development policy of the appropriation doctrine is examined from a historical perspective, and the possible contribution of modern cost-benefit analysis to the setting of pumping levels is assessed. The need to integrate non-economic or social goals as well is investigated. Finally, several alternatives to the reasonable pumping level approach are evaluated.			
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