# ENVIRONMENTAL MANAGEMENT 

RESEARCH<br>UTE DYMON Groundwater Mapping: An Analysis of the United States 775 Hydrological Investigation Atlas Series<br>MARVIN WATERSTONE Reducing Groundwater Pollution by Toxic Substances: Procedures and Policies<br>THERESA S. PRESSER HARRY M. OHLENDORF<br>CHRISTOPHER NEILL<br>R. EUGENE TURNER<br>Biogeochemical Cycling of Selenium in the San Joaquin Valley, 805 California, USA<br>Backfilling Canals to Mitigate Wetland Dredging in Louisiana 823 Coastal Marshes<br>ANNOUNCEMENTS<br>\section*{Cumulative Index to Volume 11}

Cover: Newly hatched American coot (Fulica americana) chicks in a nest at Kesterson Reservoir, Merced County, California, USA, in 1983. Three of the chcks are normal but the one in the foreground has no eyes. Other eggs in this nest failed to hatch, and the one that was analyzed contained 44 ppm (dry weight) selenium-about 20 times the normal level. High incidence of embryo mortality and developmental abnormality in several species of aquatic birds at Kesterson Reservoir has been related to high levels of selenium in food organisms, birds, and eggs. The selenium was transported to Kesterson Reservoir in subsurface agricultural drain water that had mobilized natural deposits in sediments of the San Joaquin Valley and Coast Ranges, the selenium then becoming available for cycling and bioaccumulation. Photo: H. M. Ohlendorf, US Fish and Wildlife Service.

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| Biomass and Nutrient Removals from Commercial Thinning and |  |
|  | Whole-Tree Clearcutting of Central Hardwoods |
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|  | We apologize for any inconvenience. |

