



Water Chemistry of the Redwood Creek and Mill Creek Basins, Redwood National Park, Humboldt and del Norte Counties, California (Classic Reprint) (Paperback)

By Wesley L Bradford

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Water Chemistry of the Redwood Creek and Mill Creek Basins, Redwood National Park, Humboldt and Del Norte Counties, California Studies during storms indicated that specific conductance and alkalinity were two to three times as likely to decrease at the discharge peak in logged watersheds as in forested ones. This suggests that overland flow containing lower concentrations of soil-derived dissolved solids than flow from other sources is a larger component of peak flow in logged watersheds than in forested watersheds. Comparing a storm in November 1974 to one in February 1975, nitrate concentration increased significantly from November to February in a stream draining a logged watershed and decreased significantly in a stream draining a forested watershed. Then from the rainy season to the dry season, nitrate decreased in both logged and forested watersheds. This pattern suggests that soil nitrate produced by fixation and organic decomposition early in the rainy season tends to wash out of logged watersheds but be taken up in tree growth in forested watersheds. As the dry season progresses, base flow containing little nitrate enters the streams, causing a...

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