Redwood National Park

Nan Still Pays for Ignoring N

Floods were made worse by unwise human action

By Edgar Wayburn

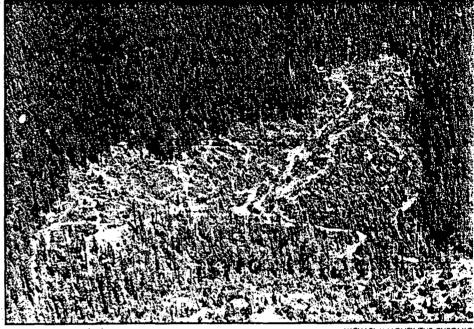
HE CHRONICLE'S coverage of recent storm damage in California is a grim and sobering litany of what can happen when humans break the laws of nature. All the accounts make it clear that the worst damage from the flooding early this year is directly or indirectly attributable to unwise human activity.

So many human actions that seem practical and desirable at the moment, turn out when viewed within a broad ecological and historical framework to have unforeseen or disastrous consequences. We need to reconsider our mad rush to impose our lasting alterations upon the natural landscape - to pave over once natural areas, divert water courses and otherwise stamp our mark on the natural course of events.

The severity of the flooding is the result of rampant clear-cutting of steep hillsides. Clear-cutting of forests, particularly on steep hillsides, prevents the fragile land from holding its moisture, so that rainwater pours off the hillsides far faster during and after a storm.

This disastrous effect was brought home to me long ago. The "100-year storms" of 1952 and 1955 caused the loss of several hundred 250-foot to 300-foot venerable redwood trees in Humboldt Redwood State Park. Although great care had been taken to protect the beautiful bottom land redwood forest, no protection had been given to the forested slopes. The torrents off the logged hillsides caused Bull Creek to swell and the rushing water to undermine the roots of the giant trees.

When I visited the scene shortly afterward, I was shocked by the devastation. My observation of the disaster and realization of its significance caused me to advocate and lead the Sierra Club campaign for a Redwood National Park and caused our insistence that the protected. * park area extend from ridge to ridge along a 20-mile stretch of Redwood Creek. This effort was successful in the 204 establishment of Redwood National Park 15 h in 1968 and its expansion in 1978.



A clear-cut logging operation near the Headwaters forest

northern coastal slopes of California, but the knowledge has not spread, has not been assimilated, has not been taken to heart by the managers or loggers of the Sierra Nevada forests or by the developers of the floodplains in the Sacramento Valley.

Adding to the injuries to hillsides in the upriver areas from the recent flooding was serious overgrazing on range lands. Both on private ranches and on public grazing allotments within national forests, the dominant theme has been how to find fodder for yet a few more cattle; we are a long way from making the ecological health of the land itself the most important objective of land management. Now, the floods show us that overgrazing has side-effects to the land that are good for no one.

Wetlands along streams and rivers and in valleys provide the natural sponging action as well as an important overflow basin to regulate the water level in wlow lying areas. They can no longer perform this essential function if they have been drained, filled and built over.

The extent of the impacts of the flooding have been augmented dramatically cials may have diverted attention from an extraordinary increase of constructions the rebuilding and strengthening of e tion in floodplains. Developers count on in listing levees described the taxpayers, in the guise of the federal ... government, to cover the costs of re- Dr. Edgar Wayburn, M.D., is honorary probuilding homes that should never have

been built in the floodplains.

The strong possibility exists that th severity of the rains that led to the floo ing can itself be seen as a consequence human action: climate change gradual and insidiously being brought about 1 increased carbon-dioxide emissions is a tering weather patterns and adding the violence of their manifestations.

nterestingly and ironically, some the worst flooding occurred where I vees were old, weak and unmaintaine Why had not more attention been paid their upkeep and reinforcement?

And, now, as a further item of inter ϵ and irony, we note that, in these rece floods, the only river which did not cau flooding in the Sacramento area was tl American. This item should be kept fire ly in mind when agitation is rekindled as it most surely will be - in the 105 Congress for an Auburn Dam on the American River. Not only would such dam be environmentally disastrous, it also unneeded. Indeed, it is possible th attention to this unsound project on t part of politicians and government of

"dent of the Sierra Club. . •

this lesson on the far