CONSERVATION

## Nature Is "Murdered"

Murder is being committed daily upon one of America's most precious treasures: her natural resources. Woods are being destroyed, streams poisoned, beaches dredged away.

#### By BARBARA TUFTY

➤ FORESTS, MOUNTAINS and shores of

America are being "murdered."
Streams, ponds, valleys and beaches are the helpless victims that are being destroyed in a bitter struggle waged by the world's most dynamic killer: mankind.

The individual killers are unaware of their crimes. They are everyday people—an urban developer or a highway engineer, a gas station owner or simply a man who wishes to build a house for his family.

Yet in their immediate desire to "help" themselves and America grow, and to expand civilization's facilities to fit the needs of our exploding population, these seemingly innocent people are guilty of crimes of vandalism, devastation, thoughtlessness which could in time make America one long sprawl of concrete buildings, litter boxes and scenic wastelands—America the Hide-ous, rather than America the Beautiful.

#### America the Littered

Every summer chewing gum wrappers, hot dog napkins, paper bags, bottles and tin cans fall like autumn leaves upon the not-so-green canopy of American campsites, parks, paths and monuments. The number of visitors to these areas increases each year, as Americans are finding more leisure time and becoming more interested in seeking outdoor entertainment or recreation.

The basic definition of the newly significant word in America, recreation, is: to create anew, to refresh one's strength, spirits and soul after toil. Each American defines his own recreation—cooking a smoking hamburger in a crowded park teeming with other families and children; swimming near a sun-drenched beach; playing tennis; fishing; hunting; or just standing quietly in the mighty serenity of a wilderness forest where only the wind whistles through the pine

To accommodate these thirsting people, a whole new secondary industry has been set up with many facets. Restaurants feed them, cabins house them, roads carry them, stores equip them—and all these add to the expanding growth of civilization that is building on our natural resources.

Right now, private users in the United States are gobbling up unused land at the rate of 15,000 square miles each ten years.

#### Save the Green Land

To combat this steady and often ugly encroachment upon America's lands, Federal, state and civic governments, as well as far-seeing commercial firms and private individuals, are starting to put up a stiff fight to set aside pieces of land NOW-at

a time when America still has green dells, cool forest glades, running streams and

uneroded sand dunes.

The land to be protected may range from a sliver of parkway in the middle of a city to a vast tract of impenetrable wilderness in the middle of our nation.

What many average Americans do not realize about the growing conservation movement is that they can have their cake and eat it too. They can have their shops, highways and all the amenities of civilization, as well as places where they can get "back to nature" in a hurry—unencumbered rivers, grassy meadows, unblasted cliffs and

shady woods.

With proper planning and cooperation,
America can still retain its beauty.

But first, land must be saved from murder and devastation. It must be set aside for protection, so that man may find again

his peace in, with or upon nature.

The Land and Water Conservation Fund Bill now before Congress has been set up to plan, acquire and develop verdant land areas for recreation purposes.

Today America has about 190 million people, 90% of whom rush from the office, the factory, the store, the highways to refresh their spirits at some public park or natural area. But these areas are becoming harder to find, and are feeling the pressure of this onslaught.

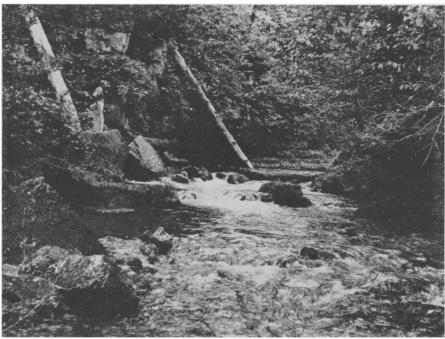
Like the movies, theater or any other kind of entertainment, parks need assistance from the users. The Land and Water Conservation Fund Bill is now also asking that a modest entrance fee be charged the users—an automobile sticker that would be good all year round.

#### Six Types of Recreation Land

What are these lands to which Americans are flocking? Where are they? What can one do on them? Among the massive array of lands that are so different in size, locations, uses and significance, the newly developed Bureau of Outdoor Recreation, part of the U.S. Department of Interior, is now studying a comprehensive category:

1. High-density recreation areas. These areas are in or near the crowded, dense cities, explained Charles E. Wallace of the recreation bureau, which was created last year to coordinate the vast number of demands and pressures in this field.

Established to handle large numbers of people overflowing from the cities, these high-density areas have very heavy investments in play facilities and equipment, Mr. Wallace said. In small areas in and near the city, one can find these spots—a triangle of grass under the trees with benches for sitting and feeding the pigeons; a square



SCENE FOR MURDER?—This healthy vigorous stream, like many streams throughout America, is threatened with destruction. The innocent killer may be you, and many like you-simply by littering it, building a series of houses nearby, or plunging a superhighway across it.

playground with slides and swings for the youngsters; tennis courts, baseball diamonds; or an ice-skating rink, as in Rockefeller Center.

Some cities may have a lake in their boundaries, where one can go boating, as in Oakland, Calif., or Boston. Farther out from the city may be a bicycle path along a canal, or a swimming beach such as Jones Beach of New York City.

2. General outdoor recreation areas. These areas are more extensive and are farther from the cities—as much as 20 or 40 miles. Here Americans can plan to spend one or two days—swimming, picnicking, fishing, boating, camping and hiking along trails.

These areas include regions such as Bear Mountain in New York or the ski slopes of Colorado. For these daily excursions from the city, urban dwellers are finding that farmers are cordial in permitting them to fish in their creeks or picnic on their land.

3. Natural environment. Along a roaring river, beside a quiet stream, up a mountain or skimming a lake, an American loves to fend for himself, to walk over a part of that land he feels his forefathers saw. Here he can fish in peace, or hunt at leisure. In other areas, the bird watcher can spend solitary hours beside a reedy swamp, or a geologist can inspect the traces of glaciers.

Many commercial and private agencies maintain these areas. The forest industries, for instance, have opened up more than 95% of their land for people to come and enjoy the beauties of nature. This is an excellent example of using land for many purposes—the multiple use of land.

On one forest area, for instance, the land may have four uses: lumber, watershed, wildlife, as well as such recreations as fishing, hunting, hiking, picnicking or, in the winter, skiing.

4. Unique national areas. The spouting geysers in Yellowstone, the thousand-year-old *Sequoia* trees, the deep gorge of the Colorado River in the Grand Canyon, the sand dunes of Cape Cod—these and many other parks protect some of the greatest natural wonders of the world.

5. Primitive wilderness. No roads cut through such areas; there are no cabins, no picnic areas—and a man may enter only on foot, on a pack animal, or in a canoe. Here is the real untrammeled, uncut, unprotected wilderness.

The fight to preserve the right for trees, shrubs and brush to stand alone is being waged now in the Wilderness Bill, another natural resource bill, asking for two percent of America to be set aside in this category.

6. Historic and cultural sites. Stand beside an ancient cannon on a Civil War battle area; walk through the stately white mansion of Mount Vernon on the Potomac River; climb the wooden stairs of the North Church Tower of Boston—these are some of the preserved monuments of America.

Without the action of Federal, state, civic, commercial, private agencies and individuals, these areas would long be lost—chipped away by souvenir hunters, trampled underfoot by thousands of shoes, picked apart, cut down, overrun, covered by concrete, and all the other outrageous things that man can do without thinking.

Right now these agencies are fighting for the survival of other pieces of land. The names of these areas read like a poem of Walt Whitman—Fire Island in New York, the sand dunes of Assateague Island in Maryland, Whiskeytown in California, the Oregon Dunes, the Ozark rivers of Missouri, the racing waters of the wild Allagash River in Maine; Sleeping Bear dozing along Lake Michigan; Flaming Gorge in Utah, and Pictured Rocks in Michigan.

#### Man Must Manage Nature

Such parks should be run as laboratories, suggested Prof. Robert Merton Love, chairman of the department of agronomy, University of California at Davis.

Once man has invaded the wilderness, he said, he must manage it to produce whatever benefit is desired. With a rotating use of land, Americans can gain both economic subsistence and recreation—cattle land, timberland, mining land can all be easily used for fishing, hiking and other outdoor pleasures.

Prof. Love, who believes that taxpayers' money could be more wisely spent on preventing forest fires than on putting them out, said that many people today not willing or able to keep pace with modern mechanical occupations could be gainfully employed in protecting and tending to these places.

"If we want a forest or a range or a wilderness or a park, we must work for it as a farmer does for a cotton field or a rice crop," he said.

rice crop," he said.

With millions of people coming to the woods, shores and mountains, it is impossible to keep wilderness exactly as it was. But we can protect these great areas by cleaning them up, educating the people who use them, controlling the pests and putting more time into the study of soil, climate, flora and fauna.

• Science News Letter, 84:90 Aug. 10, 1963

PUBLIC HEALTH

### Depleted Uranium Draws Pollutants From Exhausts

➤ DEPLETED URANIUM, the ore left after the fissionable material has been removed, may be put to work to curtail the air pollution blanketing many of our communities.

Both hydrocarbons and carbon monoxide discharged in motor vehicle exhausts—two of the major causes of air pollution—are burned up by depleted uranium.

Scientists have found that depleted uranium acts as a catalyst, a chemical agent that burns up the air pollutants by causing oxidation to take place. For best results in removing hydrocarbons and carbon monoxide, the researchers combined the depleted uranium with copper and chromium, but they stress it is the depleted uranium that acts as the catalyst.

They used this catalyst in afterburner muffler units attached to the exhaust of laboratory engines run under typical road use conditions and of engines of actual vehicles operated on the road.

The afterburner muffler units are still far from satisfactory for immediate use by the public, two reports to the Office of Technindicate.

However, further research by either the Government or private industry might perfect a muffler that could be attached to the exhausts of cars in use.

Current research is being conducted by the U.S. Bureau of Mines for the U.S. Atomic Energy Commission.

A double bonus would be reaped by further development of this catalytic agent: these pollution agents would be eliminated from the air and an attractive economic use would be found for the depleted uranium AEC has available for industrial use.

• Science News Letter, 84:91 Aug. 10, 1963

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