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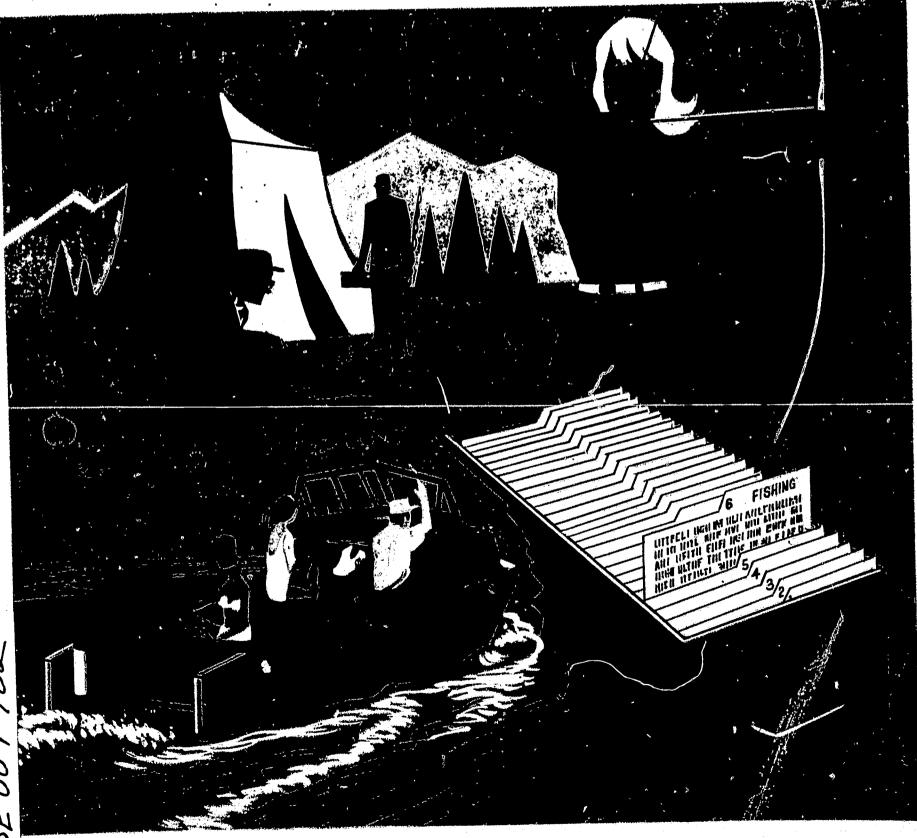
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Index of Selected Outdoor Recreation Literature



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DEPARTMENT OF THE INTERIOR Bureau of Outdoor Recreation





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DEPARTMENT OF THE INTERIOR Stewart L. Udall, Secretary

Bureau of Outdoor Recreation Washington, D.C. 20240

INDEX TO SELECTED OUTDOOR RECREATION LITERATURE

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PREFACE

This guide is a partial index to periodicals and certain other reports, books, and other publications received by the Department of the Interior Library during 1966. It also contains indexes to selected materials originating in Canada and the United Kingdom. The periodicals and other documents which are indexed herein are listed in the appendices.

Researchers and others should not mistake this report for a comprehensive bibliography of outdoor recreation literature published during 1966. Not all of the publications received by the Department of the Interior Library have been examined for the purposes of indexing outdoor recreation articles which

they may contain.

Sources other than this partial index should be consulted by individuals seeking outdoor recreation information appearing in speeches, press releases, books, newspaper articles, Presidential Orders and Messages to the Congress, State and Federal legislation, reports of Congressional Committees, and publications and reports of National, State, and local recreation agencies and organizations, both public and private. Certain State agency documents are indexed in this publication.

How to Use

In the back of this publication are three indexes and two appendices providing three points of access

to the abstracted material. These are:

1. Subject Index. This index contains citations by key words. Nearly 1,000 key words or descriptors by which information relating to outdoor recreation could be organized were compiled by the staff of the Department of the Interior Library in collaboration with the Bureau of Outdoor Recreation, and the Department of Indian Affairs and Northern Development of Canada. The Department of Indian Affairs and Northern Development has assumed the responsibility for scanning the professional journals and the outdoor recreation technical literature originating in Canada and the United Kingdom.

2. Name Index. This indexes citations by author or editor of publications, individuals and associations which are discussed in the articles, and all other proper names except geographic names. References to laws or legislation in the literature are indexed by title. Departments and Bureaus of the Federal Government appear without the designation U. S. preceding the agency name. Only the Congress and the Office of the President are entered under the abbreviation, U. S., i.e., U. S. Congress,

U. S. Senate, U. S. House of Representatives, U. S. President.

3. Geographic Index. This indexes citations by countries, geographic regions, States, counties, cities, rivers, as well as by proper names of units administered by Federal and State agencies which

appear in the articles cited.

Each citation bears an item number, beginning with 60001. The first digit, 6, represents the year 1966. The remaining four digits indicate citation item numbers. The first sequential number is 0001 and there are 991 citations; the numbers range from 60001 to 60991. To secure copies of an article, a Department of the Interior employee may request a copy by item number from the Documentation and Bibliography Section, Department of the Interior Library. Other users should consult their own libraries.

4. Publications Appendices. Appendix I lists approximately 400 periodicals. An asterisk precedes the title of periodicals which contain articles cited in this issue. The others were scanned but no

recreation articles were listed.

Appendix II contains a short list of other periodicals which have articles cited in this Index.



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OUTDOOR RECREATION RESOURCES

60001 Bellon, A.L.
"Unknown" coast.
OUR PUBL. LANDS
15(5):4-5, Summer 1966. Photos.

King Range in northwestern California is a land rich in natural resources. Its wilderness character, abundance of timber, wildlife and game, proximity to the Redwood Highway and its scenic beauty make the Unknown Coast worthy of multiple-use management.

60002 Burnett, W. How do we explain? COLO. OUTD. 15(5):41-46, Sept.-Oct. 1966.

The author discusses the deterioration of three basic resources — land, air, and water — and suggests ways of restoring our environment through the adoption of enforceable pollution controls.

60003 Clepper, H. E., ed. Origins of American conservation. New York, Ronald 193p. 1966. Photos.

An attempt to provide a grounding in the history of the land and its resources, and of the influences that resulted in the establishment of the several fields of resource management. Specialists in their respective fields wrote chapters on wildlife regulation and restoration, forestry, fisheries and aquatic resources, soil, water, range and forage, parks and wilderness, scenic historical and natural sites. The book gives indications of what future developments in the conservation of natural resources might be undertaken in the public interest and suggests the next steps.

60004 Hay, J.; Farb, P.
The Atlantic shore. Human and natural history from Long Island to Labrador.
New York, Harper, Row 246p., 1966. Ref, maps, illus.

The human and natural history of the Atlantic shore from Long Island to Labrador. The book describes the structure of the land; the birds, animals, and plants abounding on the sandy beaches; the rocky promontories; and the salt marshes. Man may have reached the point of no return because of his distortions of this balanced environment, his reduction of its species, and his fragmenting of its unities. Man must recog-

nize that by his neglect and thoughtlessness in the hiding and starving of this environment, he starves himself.

60005 Nelson, D. Wise use of natural resources has changing values. J. FOREST. 64(4):227-229, Apr. 1966.

After sketching the development of California's resources during this century, the author admonishes that the wise use of land is a changing value in line with the differing philosophies, needs, and technologies of the times.

60006 Adams, K. A.
Recreational potential on private timber lands.
In International Association of Game, Fish and
Conservation Commissioners.
Proceedings, 1966. Kansas City, Mo.
p. 137-142, 1966.

Outdoor recreation needs, problems, and possible solutions are discussed. He includes the opening of some private forest lands for public recreation among the possible solutions. Some lumber industry landowners are doing this, but many private owners hesitate. Their reasons are legal liability, littering, trigger-happy hunters, and possible property damage. Since the author is associated with the California Redwood Association, he illustrates with numerous examples from that state.

60007 Almasy, T.
Back country.
ALASKA SPORTS.
32(6):9-13, June 1966. Photos.

Hunting and fishing opportunities are excellent in the back country and wilderness areas of upper Kuskokwim and Tikchuk Lakes country of Alaska.

60008 Arps, L.W.; Kingery, E.E. High Country names. Denver, Colorado, The Colorado Mountain Club 224p. 1966. Maps, photos.

This book attempts to trace the origins of the place names in Rocky Mountain National Park and the high country south of it. Some of the names just happened, as names do; but when the park was proposed, various people set out to name features in the area. The story of those people who named the peaks or for whom the peaks are named starts with the very beginnings of the park.



60009 Badgett, B.
Playground of four seasons.
TRAIL. TRAV. MAG.
31(2):47-50, Feb. 1966. Photos.

Cloudcroft, located high in the Sacramento Mountains of the Lincoln National Forest of southern New Mexico, is described. Its abundant wildlife make it one of the largest hunting areas in New Mexico. Year-round activities include golf, bowling, sightseeing, and horseback riding. From December 15 through Christmas Eve, a beautiful candlelight procession winds its way through the streets of Cloudcroft, a procession known as Las Posadas. In addition to the spring and summer recreation programs and the autumn Aspencade, the winter season offers sledding, tobogganing, skiing and ice skating.

60010 Baer, J. G. The Swiss National Park. PARK NEWS 2(1): 13-15, Jan. 1966.

A description of the physical features of the Swiss National Park, its scientific role, and its policy concerning tourists.

60011 Banister, R. B. An artist's look at Cape Foulweather. FORD TIMES 59(8):11-15, Aug. 1966. Photos.

Envision a jet-black beach, sparkling with mica, backed by a sheer wall of 300 to 1000 feet. Tumbling from these cliffs are four waterfalls, the wind snatching at the spray and throwing it into the air like a shower of diamonds. At the foot of every rock are fantastic grottos and brilliantly colored tidal pools. From an artist's-eye view, this begins to describe the magnificant Cape Foulweather, a jagged stretch of Oregon coastline that has the untouched beauty to inspire a painter or leave a tourist breathless.

60012 Barnes, D. Deep in the heart of darkest Texas. SPORTS ILLUS. 24(21):57-66, May 23, 1966.

An example of one of the larger game preserves is the Y. O. Ranch in Texas, which is lavishly stocked with exotic big game.

60013 Bennett, C. F.
Big Bend: Texas trailer mecca.
TRAIL. TRAV. MAG.
31(2): 30-33, 77, 79-80, Feb. 1966. Maps, photos.

The Big Bend National Park is a gathering place for nature lovers, rock hounds, scientists, ornithologists, entomologists, and botanist. Primeval geologic formations in the Chisos Mountains and numerous kinds of wildlife can be seen in this region.

60014 Bennett, D. B.
The Mountain the Indians worshipped.
FORD TIMES
59(8): 43-46, Aug. 1966. Illus.

A beautifully illustrated account of the mountain in the Black Hills of South Dakota that was sacred to the Cheyennes and the Sioux. Bear Butte's recent elevation to a State Park and National Historic Landmark is bound to attract a greater number of tourists to the mountain that was worshipped by the Indians.

60015 Bentall, M. Have botanic gardens outlived their usefulness? PARK ADMIN. 31(7): 28-31, 33, July 1966.

A short history of the development of botanic gardens shows the following uses: repositories of medicinal plants, as well as plants of economic importance; distributors of exotic plants, and educators of the general public and students in horticultural pursuits and rare plant appreciation.

60016 Bester, A.
The disappearing seacoast.
HOLIDAY
39(7): 56-69, 108, July 1966. Illus.

Only about 1,000 miles of America's 12,000 miles of shoreline are protected by state or federal ownership. Real estate speculators subdivide, lumbermen cut over, builders bulldoze, factories pollute, and local businessmen participate in the destruction of the American seacoast for their share of the spoils. This deplorable situation is described in detail.

60017 Boardman, W. S. What is the forest preserve? ADIRONDAC 30(3): 54-56, May-June 1966.

The forest preserve serves as water supply, wildlife refuge, nature laboratory, and—one of the most precious of all resources—a place of quiet. The New York State Forest Preserve is cited as the best example of state enterprise in wildland preservation that exists today, according to the executive director of the Nature Conservancy.

60018 Bonnell, J.; Bonnell, H. Camping the floor of a canyon. TRAIL. TRAV. MAG. 31(3):45-47, 60, Mar. 1966. Photos.

An unusual camping place is California's Steckel Park, located in the very floor of a canyon. En route there from Santa Paula, one may stop to visit Camulos Rancho which was the setting for the story of Ramona. Steckel Park contains an aviary, small zoo and playgrounds for children. Sports offered include volleyball and horseshoe pitching.

60019 Boswell, C. Utah - fantasyland. Monument Valley. TRAIL. TRAV. MAG. 31(11):19-20, 47-48, Nov. 1966. Map, photos.

Described are the geologic formations, archeologic ruins, campground facilities, climate, roads and entrance fees of Utah's Monument Valley on the Navajo Indian Reservation. Trailer parks are listed.

60020 Brandborg, S. M.
A special memorandum to members and cooperators.
WILDER. SOC. NEWSLETT.
p. 1-8, May 20, 1966. Map.

Discusses the major points at issue relative to the Great Smoky Mountains National Park wilderness lands. Describes the various alternative plans relative to wilderness boundaries and road development.

60021 Brandborg, S. M.
Statement for Smokies Wilderness Hearing.
LIV. WILDER.
30(92): 19-30, Spring 1966. Photos.

Cooperative action is needed among federal, state, and local agencies in developing regional master plans for units of the National Park System and adjacent public lands. Plans to prevent commercial development, highways, public facilities and mass recreation from destroying or greatly detracting from the essential wilderness nature of the park are outlined. Preservation of the park will require the cessation of all new development in back country areas, restriction of new developments, and pursuit of every way to divert use from the park by using attractive and strategic lands outside.

60022 Brockman, C. F.
A park for the North Cascades.
AMER. FOR.
72(9):8-11, 50-52, Sept. 1966. Map, photos.

To meet the test of national park eligibility, beauty alone is not enough. Nor should the question of managerial responsibility for various portions of the area carry undue influence. Rather, the solution of this problem of eligibility should be based upon true national significance and upon a national long-term interest in maintenance of the recreational quality of the region.

60023 Brooks, K.
The Black Hills.
BET. CAMP.
7(6):32-36, June 1966. Map, Illus.

In the surrounding terrain of the Black Hills in South Dakota one can find Indian lore, Wild West hoopla, artifacts of a vanished frontier civilization, and nature at its most brilliant. The physical and cultural settings are related in terms of visitor interests.

60024 Burch, W. R., Jr. Wilderness — the life cycle and forest recreational choice. d. FOREST. 64(9):606-610, Sept. 1966. Photo, tables.

"The report empirically examines aspects of the belief that wilderness reservations unfairly deprive elderly citizens and young families of recreation opportunities. Evidence is presented that none of the principal forest-related recreation activities represent a 'majority vote' of the American people and appear to be unappealing to most elderly citizens."

60025 Clawson, M.
Public ownership of forest land.
J. SOIL WAT. CONSERV.
21(3):83-85, May-June 1966. Photos.

No abstract.

60026 Coe, D. L. Katmai National Monument. NAT. PARKS MAG. 40(225):4-9, June 1966. Photos.

This article describes the geological features, volcanic history, wildlife, and rugged scenery of the National Park System's largest unit located on the Alaskan peninsula.

60027 Conrad, R. M.
Big roamin' room.
OUR PUBL. LANDS
15(5):10-11, Summer 1966. Photos.

Describes the privacy and the roominess of a vast area in 11 Western states and Alaska. There are 460 million acres of public domain on which recreationists can vacation and enjoy varied recreation. The Bureau of Land Management, its role in land disposal programs, and management of consumer resources on the public lands, are discussed.

60028 Crawford, H. D.
British-America's birthplace.
AMER. FOR.
72(9):14-17, 38-39, Sept. 1966. Illus.

A narration of the Roanoke Island "Lost Colony" story and other early American history. Basic historical facts about the first, ill-fated Roanoke Island colonists have been dramatized every summer there since 1937 during July and August.

60029 Crawford, H. D. Knights of the golden horseshoe. AMER. FOR. 72(11):28-31, 68-70, Nov. 1966. Photos.

Governor Spotswood's expedition of 1716 traversed the Blue Ridge into the Shenandoah Valley and claimed land for England. Now the George Washington National Forest and Shenandoah National Park lie in the area explored by these early settlers.

60030 Cunningham, J. T.
The wealth of Jersey's Barrens.
AUDUBON
68(4):250-258, July-Aug. 1966. Map, photos.

Despite the pressures for "development" and its proximity to large cities, the New Jersey Pine Barrens may yet be saved. Several sections have been set a side by the state as forest preserves, parks, or public hunting and fishing grounds. And the New Jersey Audubon Society has started a movement to set aside a major portion of the forest land as a national monument. Naturalists find many reasons—abundant wildlife, diverse habitats, rare and endangered species—to preserve this region. A map shows both the existing New Jersey State Forests and the proposed Federal acquisitions.

60031 Czura, P.
To enjoy Nebraska, get lost!
BET. CAMP.
7(5):32-35, May 1966. Photos.

Nebraska's 11,000 miles of streams and more than 3300 lakes should whet the appetite of any outdoorsman. Here are found 4 state parks and 78 wayside, recreation, and special use areas. Camping is free in all but a few designated areas where 50¢ to \$1.00 is charged for an overnight stay. Attractions that lure campers are described.

60032 Davison, D.
Mountain stronghold.
N. MEX. MAG.
44(6/7):12-13, June/July 1966. Photo.

A description of the prehistoric cliff dwellings built by the Mogollon Indians 800 years ago in southwestern New Mexico. Now, because of a new highway, tourists can drive to within a quarter of a mile of the ruins to visit the Gila Cliff Dwellings National Monument.

60033 Dodge, N. N.
Pecos National Monument.
NAT. PARKS MAG.
40(230):14-16, Nov. 1966. Map, photos.

Pecos National Monument was established as an addition to Mesa Verde National Park in New Mexico on June 28, 1965. The Monument preserves the life of a prehistoric Southwestern people, and narrates the exploration and settlement in later years.

60034 Draper, W. H., Jr. Parks or more people? NAT. PARKS MAG. 40(223):10-13, Apr. 1966.

As a result of the increase in population in the U.S., the ratio of national park land to each citizen is decreasing despite the addition of 4,000 square miles of land to the national parks system over the past twenty years. Secretary of the Interior Udall predicts that by the middle

of the next century, nine times as many people will be using the facilities of the National Park System. Even though lands may be increased and camping and other facilities improved, the geometric ratio at which population increases is likely to outstrip the benefits of this progress.

60035 Ecological Society of America The Smokies an ecological asset. LIV. WILDER. 30(92):35-37, Spring, 1966. Photos.

The abundance of flora and fauna in large wilderness tracts of the Great Smoky Mountains National Park and their potential ecological research and scientific values are emphasized. Recommendations include (1) areas defined as wilderness in the Wilderness Act of 1964 should be incorporated in the National Wilderness Preservation System, (2) the Wilderness Society and the Smoky Mountains Hiking Club of Knoxville plan proposed should be adopted in preference to the National Park Service plan, (3) that no road of any kind be built in the wilderness portions.

60036 Ellis, G.; Kester, F. The rape of the Elfin Forest. SIERRA CLUB BULL. 51(6):12-13, June 1966. Photos.

One of California's most attractive features is its Elfin Forest, composed of dwarfed trees and shrubs that have adapted themselves to the scanty soils of the high country's lower slopes. These forests are being ravaged in the name of range improvement in 30 of the states's 58 counties. Since 1950 the Agricultural Stabilization and Conservation Service, USDA, has subsidized stockmen to rid the range of virtually all plant cover, since more grazing land is required. There is great loss in native plants, animals, and soil erosion.

60037 Erickson, R. B.
A proposed marine heritage area for southeastern
Connecticut.
HIST. PRESERV.
18(1):24-31, Jan.-Feb. 1966. Map, photos.

No abstract.

60038 Federal Writer's Project. Vermont. Vermont. A guide to the Green Mountain State. 2nd edition.
Boston, Houghton Mifflin 456p. 1966. Ref., maps, photos.

The first and second parts of this volume area guide to Vermont history, natural resources, recreation and the general background of the state. The third section includes data on Vermont's tours, cities and a number of the prominent geographical features. Hunting and fishing are described in part two. General recreational activities treated are skiing, golf, and boating. Campfire permits and other regulations are listed; information is provided on state parks and forests, the Long Trail, and the Green Mountain National Forest.

60039 Fenderson, C. N. Last ditch stand for Hubbard Park. CONSERV. NEWS 31(16):3, Aug. 15, 1966.

A small group of Meriden, Connecticut, citizens find themselves in a last ditch stand to save three city parks from being incorporated into a proposed new highway.

60040 Fischer, V. L. Formula for mediocrity. AMER. FOR. 72(1):16-17, 52-54, Jan. 1966. Photos.

The Wheeler Peak area in Nevada is under consideration to become the Great Basin National Park. Author questions if it is unusual enough. It is in the area of the "basin and range" topography and does contain a representative mountain range, but it is not spectacular nor unique. Author is against lowering standards for national parks to include examples of the typical, the ordinary, and the commonplace.

60041 Fix, J. A backward turn. FLA. WILDL. 20(7):28-31, Dec. 1966. Photos.

A well-illustrated description of the rarities of the Corkscrew Swamp Sanctuary in Florida is presented here. The effect on visitors to this sanctuary is an overwhelming feeling that this is the way it has always been, from the very beginning of time.

60042 Fix, J. A city's ancient forest. FLA. WILDL. 20(6):12-13, Nov. 1966. Photos.

Simpson Park is about eight acres of primitive wilderness still surviving within the shadow of Miami's towering skyscrapers. Often threatened but always protected, it is the last vestige of virgin forest anywhere within the heart of a great American city.

60043 Flanagan, W. L. Deplore "onslaught" on lake front. PRAIRIE CLUB BULL. (552):10-11, Jan. 1966

There is much controversy over an expressway and its destruction of 1,800 to 2,000 trees in Jackson Park, Chicago. Because of may protests concerning the onslaught of the entire lake front, the Metropolitan Housing Council has recommended an immediate halt to portions of the construction pending a plan for entire lake front. The Daniel Burnham Committee, composed of 5 men appointed by Major Daley of Chicago, advised that the land be restored to park and recreation.

60044 Frome, M.
Beauty or the bulldozer?
AMER. FOR.
72(2):6-9, 40-42, Feb. 1966. Photos.

The future of the Great Smoky Mountains
National Park and the Blue Ridge Parkway is in
dispute. The National Park Service promised the
State of North Carolina a highway to replace
their Route 288 which was inundated when
Fontana Dam was built. To complete the Blue
Ridge Parkway over the top of Grandfather
Mountain is now the Park Service plan. North
Carolina wants it routed along the ledge of Grandfather Mountain, however, in order not to spoil
the primitive scenic beauty. Differences between
the federal and state viewpoints are discussed,
as well as alternate plans.

60045 Gallaher, J. R. Let's have honesty in debate about redwoods. WEST. CONSERV. J. 23(2):23, May-June 1966.

This editorial claims that, in the Redwoods
National Park controversy, the preservationists
are making charges which ignore the facts. They
assert that redwood cutting has been "speeded
up." They claim the redwoods are in danger of
"extinction." Every responsible lumber company
and timber grower in the country is being smeared
by the bombast wielded so indiscriminately by
the Sierra Club.

60046 Giles H., Jr. Rich Hole country. VA. WILDL. 27(3):4-5, 14-16, Mar. 1966.

This article describes the rich potentials in wildlife conservation, watershed management, scientific investigation, and recreational use of the Rich Hole country on the James River District in Virginia.

60047 Gunsky, F.
Motor cars, mountains, and Muir.
SIERRA CLUB BULL.
51(8):5, 22-23, Sept. -Oct. 1966.

No abstract.

60048 Hall, W. M. The many faces of Padre Island. AMER. FOR. 72(10):30-32, 54-55, Oct. 1966. Photos.

Many facets of our largest National Seashore are presented—deep sea denizens, historical artifacts, migratory bird flyways, beachcombing assets, and a recreational vista of shifting sands, blue waters and solitude.

60049 Hawkes, A. L. Coastal wetlands. NARRAGANS. NATUR. 8(3):3-17, 1966. Ref., photos.

Salt marshes exhibit a wide variety of values and uses in a completely natural state. There are the recreation uses, such as hunting, fishing, shellfishing, and bird watching. Aesthetic and scientific values are based on the age and continuity of the vegetative community, open spaces along otherwise overbuilt and over-commercialized shorelines, and potential as natural marine shore parks. Evaluations of riparian rights and acreage prices are given.

60050 Heald, W. F. Canyonlands National Park. ARIZ. HIGHW. 47(7):10-11, 29, 33, July 1966. Map, photos.

Canyonlands National Park in southeastern Utah, established in 1964, includes a sizable area along the Colorado and Green Rivers. This section of the canyon contains some of the most spectacular scenery of the world, but it is such a rough, dry, barren labyrinth that few explorers have penetrated its depths. The entire area is a gigantic museum where even the layman finds geology exciting. Biological conditions vary with the altitude from the Lower Sonoran zone in the deep canyons to areas of pinons and junipers on the rims. To the east of the Needles Country is the area of the superb Angel and Druid arches, with scattered well-preserved cliff dwellings and pictographs of the prehistoric Indian inhabitants. To the south is Glen Canyon Dam which impounds the Colorado River's waters into a reservoir, Lake Powell. Under consideration is a "Golden Circle" which would include most of the canyon counties, national parks, national monuments, national forests, state parks, and new areas raised to park status, all connected by scenic highways. Plans are progressing for the development of facilities in Canyonlands Park, such as overnight accommodations, restaurants, service stations and trailer parks. Park activities are now centered at Moab, Utah.

60051 Hernandez, M. Lake Havasu City. ARIZ. HIGHW. 42(2):2-7, Feb. 1966.

Lake Havasu City, Arizona, planned for a population of 60,000 inhabitants, is becoming a sportman's mecca, a vaction resort, and a retirement haven. Boating enthusiasts find more than 75 miles of lake and river on which to travel between Parker and Davis Dams. Boating and skiing events on the lake are international attractions. Fishing is also a major sport. Thirteen thousand acres of Lake Havasu frontage adjacent to the new community have been leased by the federal government to Arizona for public parks and recreation. Bathing beaches, campsites, trailer sites, picnic grounds, and boating facilities are being developed. The lake

affords scenic views which are spectacular.
Added attractions are the Lake Havasu National
Wildlife Refuge located north of the city and prehistoric Indian petroglyphs at Picture Rock.

60052 Hill, F.
Parks don't just happen.
W. VA. CONSERV.
29(12):24-30, Feb. 1966. Photos.

The four new state parks that are under development in West Virginia are: (1) Canaan Valley State Park, (2) Twin Falls State Park, (3) Pipestem State Park, and (4) Valley Falls State Park. The criteria, the plans, the steps, the cost, and the methods of acquiring the land for a park are discussed.

60053 Hoover, B. H.; Rensch, H. E.; Rensch, E. G.
Historic spots in California. 3rd edition.
Stanford, Stanford Univ. Press
642p. 1966. Ref, maps, photos.
Revised by W. N. Abeloe.

The purpose of this work is three-fold: to create interest in the local history of California among its citizens, to make knowledge of the historic spots in different localities available to tourists, and to arouse a state-wide interest in the preservation of those vanishing historic landmarks. This third edition reflects the tremendous changes which have occurred in California since 1948 and calls attention to the need for immediate action to preserve the rapidly disappearing landmarks. With population increase, vast rural areas have become urbanized. Creeks and rivers have been dammed, and whole canyons and valleys filled with water for agricultural and domestic use. A network of freeways is being built from Oregon to Mexico and from the Sierras to the sea. The 58 counties are presented in alphabetical order, with separate maps for each, and detailed maps showing large concentrations of historic places.

60054 Hunn, M.
Thirteen miles to nowhere.
TRAIL. TRAV. MAG.
31(3):25-27, 71-73, Mar. 1966. Photos.

For real peace and quiet, a journey along a 13-mile road into Florida's Fakahatchee Swamp is recommended. Officially it is known as the Collier County Scenic Road Park. Wildlife and beauty and solitude are abundant.

60055 Jaeger, J., Jr.
National recreation areas.
PARKS RECREAT.
1(8):629, 653-656, Aug. 1966. Photos.

The author covers the history of the National Recreation Areas in the United States. Recent impetus in establishing additional areas is described. A list of National Recreation Areas established as of June 1, 1966 is included.

60056 Janson, D. People of the blue-green waters. AUDUBON 68(6):464-469, Nov.-Dec. 1.966. Photos.

The Havasupai Indians, living on the floor of the Havasu Canyon which is part of the Grand Canyon gorge, may be inundated by the waters of the proposed Bridge Canyon Dam. The Indians occupy a large reservation on the Grand Canyon's south rim. They have been told that the big lake will make their tribe economically independent through development of its great recreational potential. At present in this area numerous waterfalls and blue-green pools may be visited by foot or on horseback. The rush of civilization has passed by the valley until now, and the Indians hope that no man-made dam will mar their little paradise.

60057 Jaska, B.
Fort Griffin.
TEX. PARKS WILDL.
24(12):19-22, Dec. 1966. Illus., photos.

The story of Fort Griffin typifies the development of Texas in the third quarter of the 19th century. After the Civil War, forts, such as Fort Griffin, were established along the frontier of Texas to protect the settlers from Indian attacks. By 1881 Indian raids were no longer a problem and the Fort was closed. Today Fort Griffin and its surrounding area is a State Park which contains picnicking and camping areas, and a herd of Longhorn cattle which once roamed free over the Texas plains.

60058 Jass, R. F. Pocket parks. AMER. CITY. 81(12):86-87, Dec. 1966. Illus.

Pocket parks in the form of novel street planting brighten a community's downtown appearance. Here the Town Planner of Greenwich, Connecticut, tells how it can be done.

60059 Jett, T. S. Renaissance of the "Grand Mall". PARKS RECREAT. 1(4):324-326, Apr. 1966. Photos.

Building removal creates dramatic changes that will be evident to delegates visiting our beautiful national capital while attending the National Congress for Recreation and Parks, October 9-13, 1966.

60060 Karn, E.
That's what I like about the South.
TRAIL. TRAV. MAG.
31(3):41-44, 60-62, March 1966. Map, Photos.

Charleston — with its fine old homes, its magnificant flower gardens, and nearby Fort Sumter — symbolizes the charm of the Southland.

60061 Kern, E. E.; Driscoll, L. S. Marketing of outdoor recreational services in rural areas.

J. SOIL WAT. CONSERV.
21(4):141-143, July-Aug. 1966. Ref., photos.

No abstract.

60062 Kirk, R.
The rain forest.
AUDUBON;
68(5):315-319, Sept. -Oct., 1966. Photos.

The Hoh, the Queets, the Quinault: three valleys cradle the best of the Olympic rain forest, a superb forest type found nowhere in the world except the Pacific northwest. The density and lushness of vegetation and the enormity of the Sitka spruce characterize this area. A comparison is made between this northern evergreen and conifer forest and a rain forest of tropical climes.

60063 Klepper, D.
Treasure of the Guadalupes.
TEX. PARKS WILDL.
24(12):24-26, Dec. 1966. Photos.

The beauty and grandeur of Guadalupe Peak in Texas and New Mexico are described. Congress is presently considering establishment of a national park in the Texas portion of the mountains. The mountains not only are scenic and historic but also are of scientific interest to geologists and paleontologists because of the extensive fossil organic reef.

60064 Korenek, S.; Jaska, B. Eisenhower Birthplace State Park. TEX. PARKS WILDL. 24(11):16-18, Nov. 1966. Photos.

No abstract.

60065 Krutch, J. W.
Dam the Grand Canyon?
AUDUBON
68(5):308-311, Sept. -Oct., 1966. Photos.

The Grand Canyon is one of the world's most visited spots, yet solitude and untouched nature can be found by those who desire it. Two dams, one in Marble Canyon, the other in the Lower Granite Gorge, proposed for the Colorado River present a serious threat to the Canyon's scientific value and natural beauty. Proponents stress the monetary return from power generation. This would help pay for Arizona irrigation projects and new recreation facilities. Opponents argue for preservation of the inviolability of the National Park. The value of the beauty of the Grand Canyon is its own reason for being.

ERIC

60066 Lambert, D.
Over the years with Great Basin Park.
NAT. PARKS MAG.
40(225):12-16, June 1966. Map, photos.

The establishment of Great Basin National Park has been favored by three Presidents, the Nevada legislature, and numerous conservationists. The focus on this proposed park was sharpened by the unwitting destruction in 1964 of a 4900-year old bristle-cone pine—the oldest living tree as of that time.

60067 Lea, C.
Our great opportunity... to save Indiana dunes.
GARDENER
26(1):4-5, Jan. -Feb., 1966.

Discusses the value and the importance of the establishment and the preservation of the Indiana Dunes as a national lakeshore.

60068 Lind, C. V.
Hunt here? No!
COLO. OUTD.
15(5):12-14, Sept. -Oct. 1966. Photo.

In a discussion of landowner-sportsman relationship problems, the author suggests ways in which hunters and private landowners can cooperate to solve the major issues.

60069 McCormick, T. Vermonters build new industry... on idled farmland. EXT. SERV. REV. 37(7):8-9, July 1966. Photos.

Vermont dairying is being concentrated on fewer farms year by year, leaving a land-use and employment vacuum. This article shows how man-made lakes and other commercial out-doorrecreation enterprises are moving in to come to the rescue of Vermont's economy.

60070 McElrath, J. Lamoille Canyon. NEV. HIGHW. PARKS 26(4):20-25, 44, Winter 1966. Photos.

The Ruby Mountain Scenic Area of the Humboldt National Forest, especially Lamoille Canyon, is described in all its beauty.

60071 McLaurin, E.
They have it made!
FLA. WILDL.
20(6):14-18, Nov. 1966. Photos.

A group of interested Florida sportsmen pooled resources and leased 800 acres as their private hunting preserve near Dade City.

60072 McLean, H. E. What's all this about Admiralty? AMER. FOR. 72(5):38-41, 62-66, May 1966.

This article explores the recreational potential of Admiralty Island in Alaska. It emphasizes the mismanagement of forest lands.

60073 Merrill, W. K. Wilderness - The Three Sisters Area. OUTD. CALL. 1(10):34-36, Dec. 1966. Maps, photos.

The sights, recreational activities, and access routes of the Three Sisters Area in Oregon are narrated.

60074 Mohr, C. E.; Poulson, T. L. The life of the cave. New York, McGraw-Hill 232p, 1966. Maps, illus, photos.

This authoritative book which describes various forms of life in the dark world of caves is in Our Living World of Nature series. Discussions of the life cycles of the principal inhabitants, temerature and humidity factors, and the scientific importance of leaving cave life undisturbed are included. It also contains a list and brief description of the commerical caves in the U.S., advice to would-be spelunkers, illustrations of cave formations, a glossary and a bibliography. Spectacular photography, maps, charts and drawings are found throughout the book.

60075 Morton, T. B. Town Hall tonight. HIST. PRESERV. 18(1):8-19, Jan.-Feb. 1966. Illus.

No abstract.

60076 Napier, A. Vacationing among the Apaches. <u>In</u>
Roberts, E. A., ed. America Outdoors.
Silver Spring, Md., The National Observer.
p. 92-97, 1966. Maps, photos.

Enterprising Apache Indians are developing their reservation for the tourist trade. They are investing millions of dollars in campgrounds, trout lakes, motels, and other facilities. Native Indian dances, rodeos, arts and crafts, fishing, hunting, and horseback riding are featured. Tourists are encouraged to visit historical sites and explore the archaeological ruins.

60077 Nees, H.
Delaware Water Gap National Recreation Area.
APPALACH. TRAILW. NEWS.
27(2):23, May 1966.

Two possibilities could change what appears to be a permanent location of the Appalachian Trail in New Jersey from the Water Gap to High Point. One is construction of a "skyline drive" along the Kittatinny Ridges; the other is destruction of Sunfish Pond. A substantial number of people prefer unspoiled natural areas to scenic drives.

60078 Netboy, A. Use of high country in Switzerland. AMER. FOR. 72(10):6-7, 40, 42-43, Oct. 1966. Photos.

Current debates about the use of the North Cascades highlights the larger problem of how we are going to provide enough outdoor recreation facilities for a population that will top 300 million by the year 2000. The use that the Swiss make of their high country—especially in the Bernese Oberland area—is described. Since this area has many of the same material features as our North Cascades, the North Cascades could be developed somewhat like the Bernese Oberland.

60079 Newcomb, D. G. We went camping with the Indians. CAMP. GUIDE 43:10-13, 66-71, May 1966. Photos.

Many Indian reservations are now offering recreational facilities for campers. Not only are campsites, boat docks, etc., provided, but Indian ceremonies, dances, and feasts go on almost all year long. A selected list of campgrounds on Indian reservations is included, with informative notes about each.

60080 Newhouse, D. L.
The battle for wilderness in New York State's
Forest Preserve.
LIV. WILDER.
39(93):11-19, Summer 1966. Maps, photos.

There is a controversy over the 2.6 millionacre Forest Preserve in New York State. Some advocate retention of its wilderness; other favor developing it for commercial lumbering, game management, recreation, tourist business and other special uses. A constitutional convention is to be held in 1967 to protect the wilderness status.

60081 Noble, N. W. Highground Haven. AMER. FOR. 72(6):30, 31, 50, June 1966. Photos.

The Lake Fork Recreation Area in Hinsdale and Ouray counties of Colorado is an 81,000-acre domain of public land straddling a high range

of Rocky Mountains. It offers awe-inspiring scenery, frontier history, abandoned mining camps, hunting, fishing, mountain climbing, and remote areas for exploration. Cut-throat trout abound. Elk, deer, mountain sheep and black bear are there. Permanent recreational facilities are being planned. A registered national landmark, the Slumgullion Earthflow is one outstanding attraction; an ancient volcanic caldera, the center of old mining interests, is another.

60082 Ogburn, C., Jr.
The winter beach.
New York, Morrow.
321p. 1966. Maps, illus.

The book describes the beaches of winter from the Outer Banks of North Carolina to Maine. Historical sites, geologic formations, wildlife, vegetation, towns and cities and parks are recorded and noted. From this perspective, people seem subjects of a far-reaching mechanism which controls the quality of living. Natural beauty becomes a medium through which life has some purpose. The close association with nature provides balance in the modern world.

60083 Olsson, S. G. Private forests and public recreation. FOR. FARM. 25(6):10, 14, Mar. 1966. Photo.

An article that extols private enterprise and the contributions that landowning companies are making to the nation's recreational resources. The author reiterates the strong opposition of the forest products industries to removal of more and more productive forest land from private ownership for a non-economic use.

60084 Parker, C. P.; Nelson, K.J.P. Arizona, the enchanted land. Land of color and contrast. ARIZ. HIGHW. 42(11):4-47, Nov. 1966. Maps. photos.

The state of Arizona is described in detail in this issue. A brief description is given of the national parks, monuments, memorials, recreational areas, and national forests. The highlight events for 1967 are listed. There is information on what to do and see in each of the fourteen counties. The various Indian tribes and reservations, the archaelogy, history, and art museums are described.

60085 Pearl, M. A.
Public lands under review: Federal commission
will study all public land laws.
PARKS RECREAT.
1(5):416-418, May 1966.

The staff director of the Public Land Law Review Commission tells how it is structured. The future establishment, development, and operation of hundreds of parks and recreation areas will depend upon the consideration, judgment, and final recommendations of the Commission.

60086 Peplow, E. H., Jr. Centered on Sedona. ARIZ. HIGHW. 42(6):10-11, June 1966. Map.

Sedona - Oak Creek country in northern Arizona is a center for many of Arizona's attractions from the Hopi and Navajo country to the north, Phoenix to the south, the White Mountains to the east, the Hualapi Indian Reservation on the west, the Grand Canyon and Kaibab Forest on the northeast, and the Salt River dams and lakes on the southeast. Some outstanding attractions are: Montezuma Castle; Jerome, a former copper mining town; Prescott, original capital of Arizona; LowellObservatory in Flagstaff; the Museum of Northern Arizona; Walnut Canyon; Sunset and Meteor Craters; Petrified Forest National Park; the Painted Desert; Wupatki National Monument.

60087 Peplow, E. H., Jr.
The Payson Country.
ARIZ. HIGHW.
42(4):8-11, 30-37, Apr. 1966. Map, photos.

Payson Country, which encompasses 25 miles around Payson City, is an area of prehistoric Indian cliffdwellings and modern summer homes; giant saguaro cacti and Ponderosa Pines; Gila monsters and cougars; desertscapes and mountain lakes. Its areas of national forests providing camping and fishing, and the famous Zane Grey Highway bordering the Mogollon Rim, are described.

60088 Philipson, J.
Tour the Adirondacks.
FORD TIMES
59(8):24-28, Aug. 1966. Illus.

The Adirondack Mountains contains a fantasyland of natural beauty and man-made attractions that are ideal for family touring, according to this descriptive article.

60089 Phillips, H. S. International peace gardens. PARK MAINTEN. 19(10):74-77, Oct. 1966. Map, photos.

In Salt Lake City is a garden where beauty speaks many languages. The procedure has been that each interested nation is allotted a garden plot to design, create and plant entirely at its own expense and discretion. When each garden is finished, it is dedicated with proper ceremony and presented to the city. From then on, the Park Department assumes full responsibility for all care and maintenance aspects. Fifteen different countries already are represented in the International Peace Gardens.

60090 Porter, E.
The place no one knew. Glen Canyon on the Colorado.
San Francisco, Sierra Club
186p. 1966. Ref., photos.

The beauties and rare formations of Glen Canyon and side canyons comprising the "Place

No One Knew" are recorded for history in this book. There are beautiful color photographs and philosophical quotations. In sponsoring the book the Sierra Club provides some thoughts on conservation.

60091 Raymond, S.
The Great Cascades debate.
FIELD STREAM
71(7):10-12,14-15, 42, Nov. 1966. Maps, photos.

The problem in Washington State is not whether to save this wild area, but how best to do it. Here is narrated the history and varied viewpoints and possible legislative outcome of this controversy. Map illustrations of the North Cascades Report Plan and of the State Game Commission Plan are included.

60092 Robinson, J.; Calais, A. California state parks.
Menlo Park, Lane
96p. 1966. Maps, photos, tables.

In this book the State parks of California are thoroughly described; generally, they are small and varied from the beach park on the coast to the yellow pine forest or redwood groves in mountainous areas. The parks are grouped geographically into seven sections, with an eighth section on historic parks and monuments. Each one might be reached in a day's drive from a metropolitan center.

60093 Samuels, H. J. Hunting for a place to hunt? SHOOT. TIMES 7(12):20-25, Dec. 1966. Photos.

No abstract.

60094 Scharff, R. Canada's mountain national parks. New York, David McKay. 184p. 1966. Maps, photos.

The large scenic and recreational national parks in Canada's mountains here described include: Banff, Jasper, Waterton Lakes on the east slope of the Rocky Mountains in Alberta; and in British Columbia, Kootenay and Yoho on the west slope, and Glacier and Mount Revelstoke in the Silkirk Mountains. These mountain parks are areas of outstanding grandeur. Locations of the parks are given, followed by brief histories. Information is provided on methods of reaching the parks, general regulations for visitors, park administration, highway traffic regulations, fire prevention, camping, fishing, animal and plant life, wildlife preservation, sightseeing, trails, skiing, roadways, and accommodations.

60095 Schuster, C. N., Jr.
The nature of a tidal marsh.
CONSERVATIONIST
21(1):22-29, 36, Aug. -Sept. 1966. Ref., illus.

The tidal marsh is one of the most dynamic units of nature, an ecosystem where air, land, living things, and water are continuously interacting. In most areas, the extensive geologic development, the elevation of the marsh, and the plants associated with it are recognized as "low" and "high" marsh. Local patterns of weather, day length, and light intensity affect species, as does fresh water.

60096 Sloane, H. N.; Gurnee, R. H. Visiting American caves. New York, Crown Publishers 246p. 1966. Ref. maps.

Caves under private or public ownership open to visitors are generally lighted and have a guide service. Limestone, sea, gypsum, ice, lava, as well as caves of archaeological significance, are included. Descriptions of cave formations and man-made structures are given. Regional maps give site locations of caves in the area. Nearby attractions and facilities are also listed. A glossary of cave terms is included. The index contains names of caves believed to be closed as well as names given to formations or scenes in caves.

60097 Smith, A. W. The trail and campfire country. NAT. PARKS MAG. 49(228):2, Sept. 1966.

In order to urge that the Smokies be preserved mainly as hiking and horseback country, people came from all over American to the hearings at Gatlinburg, Tennessee and Bryson City, North Carolina conducted by the National Park Service. The editor reports not only on the hearings but on the need to protect the trail and campfire country of the High Smokies as human refuges and as wilderness areas that will serve valuable non-human purposes as well.

60098 Smith, A. W.; Hart, W. J. A wilderness plan for Craters of the Moon National Monument and the surrounding region. NAT. PARKS MAG. 40(230):4-9, Nov. 1966. Maps, photos.

The National Parks Association proposes two plans for Craters of the Moon National Monument, namely (1) a Wilderness Plan and (2) a Regional Plan for the area around the National Monument. The Regional Plan calls for a recreation region and the Wilderness Plan proposes four wilderness areas. Visitation to the recreation region may be distributed over a wide area. The four wilderness areas to be established will not impair the existing wildlife environment.

60099 Smith, I. Arizona's underground wonderland. ARIZ. HIGHW. 52(9):28-39, Sept. 1966. Photos.

Of Arizona's 120 caves, only two are open to the public under adequate supervision: Colossal Cave, east of Tucson, and Grand Canyon Caverns, west of Seligman. Arizona limestone caves reveal marine fossils of 180 to 270 million years ago. There are three caving groups in Arizona. Two explore for recreation and adventure, the third for scientific study. Rare mineral formations, fossils and animal inhabitants, especially bats, are studied. Conservation of all these caves is emphasized. Many are in private hands and vandalism is rampant.

60100 Stough, D.
Outdoor laboratories.
OUR PUBL. LANDS
15(5):18-20, Summer 1966. Photos.

Discusses the 460 million acres of public domain lands and the approximately 130 natural areas which the Bureau of Land Management is attempting to establish and preserve. These natural areas present rich opportunity for geological and ecological study, educational research and multiple-use recreational management. Examples are cited.

60101 Stradt, G. H. Georgia's national forests. FOR. FARM. 25(8):17, 46-47, Apr. 1966. Photos.

A report on the development, management, and expanding role of national forests in Georgia. While there have been changes in wildlife management and timber management, the greatest change has been in the demand for outdoor recreation. Whether hunters, fishermen, campers, hikers, rock hounds — the users of forest land are myriad.

60102 Strong, S. Let's preserve Vermont's mountain wilderness. APPALACH. TRAILW. NEWS. 27(2):21-22, May 1966.

This article by the Green Mountain Club Committee Chairman addresses itself to the plan for a Vermont Scenic Parkway along the Green Mountains. Efforts should be focussed on careful planning to preserve some of the mountain wilderness areas that are rapidly disappearing. Concludes with plea to keep the Long Trail as much as possible a "footpath in the wilderness."

60103 Stucker, G. F.
Mountain of the stone fishes.
NAT. PARKS MAG.
49(228):4-9, Sept. 1966. Map, photos.

No abstract.

60104 Teague, R. D.
Recreation potential on farmlands. In International Association of Game, Fish and Conservation Commissioners.
PROCEEDINGS, 1966.
Kansas City, Mo.
p. 128-133, 1966. Ref.

The speaker suggests ways of motivating the landowner to open part of his land for recreation, and also ways—by applying research findings, management tools and educational efforts—to make lands that are designated for recreation use provide the maximum recreation opportunities.

60105 Towle, T. Utah - fantasyland. Canyonland National Park. TRAIL. TRAV. MAG. 31(11):21-24, 49-52, Nov. 1966. Photos.

Described are the colorful geologic formations carved by the Colorado and Green Rivers in Canyonlands National Park; their extent, acreage, roads, and incorporated campgrounds.

60106 Trepagnier, W. J. Our Metro parks. MOT. NEWS 49(2):22, 29, Aug. 1966. Photos.

This description of the Huron-Clinton Metropolitan Authority park facilities provides the latest information on the recreation available and new developments at these metropolitan parks.

60107 Tyson, J., Jr. Forests play vital role in shaping environment. ALABAMA CONSERV. 36(3):9-13, Apr. -May 1966. Photos.

The importance of forests to us—both as a nation and as individuals—is stressed. Not only are forests a source of industrial raw material, a recreation area, and a national heritage, but they are a factor in shaping our environment. In making our weather, building and holding the soil, and in determining the availability of moisture in our area, forests are an important factor.

60108 Varnedoe, B.
Recording cave locations.
NSS NEWS
24(12):263-267, Dec. 1966. Ref., maps, tables.

No abstract.

60109 Wadsworth, N.
Yellowstone.
In Roberts, E. A. ed. America Outdoors.
Silver Spring, Md. The National Observer.
p. 56-61, 1966. Photos.

America's largest and oldest national park, set aside by the government 93 years ago, is

still visited by millions. The wildlife and particularly the geologic marvels of the region have fascinated visitors from John Colter in 1806 to the present day. Inspired by the beauty of the area after a visit in 1870, a group of Montana men, including Judge Cornelius Hedges, conceived the idea of a national park to make "a great national preserve for the people, removed forever by law from commercial exploitation."

60110 Wayburn, E.
Moment of truth for redwoods.
SIERRA CLUB BULL.
51(6):8-9, June 1966. Illus., photos.

Redwoods have become news from Maine to Mexico. Logging continues even at this moment of crucial decision. Two choices are indicated: The Administration's proposal of a 43,000-acre park located in the Mill Creek watershed in Del Norte County; the Sierra Club's proposal of a 90,000-acrepark in the Redwood Creek region of Humboldt County. Three questions should be answered: (1) which area can best give present and future generations of Americans the experience of knowing the redwoods in their full sweep from coast to mountaintop; (2) which area offers the best conservation opportunity for preservation of the coast redwoods species in its total environment; (3) which area is big enough and varied enough to support a broad program of national park development; estimates project 2 1/2 million people to visit Redwoods National Park by 1983. In the light of these questions, the Redwood Creek area is the best choice. Bold action is needed to curtail logging and establish a Redwood Creek National Park.

60111 Weld, P. M. Couchsachraga: Vanishing wilderness? ADIRONDAC 30(2):34-35, Mar.-Apr. 1966.

To help preserve trailless mountain tops, a unique feature of many Adirondack mountains, the prevention of path formations is urged. New climbers should be motivated to think about conservation as well as climbing, else the trailless domain that is a joy to explore will cease to exist in the Adirondacks.

60112 Wharton, D. Cape Cod. NAT. WILDL. 4(5):37-40, Aug.-Sept. 1966. Photos.

Describes Cape Cod National Seashore, the first National Park Service area acquired chiefly by purchase. The value of this new National Seashore is increased greatly by its proximity and accessibility to the New England States. The other national seashores are discussed briefly.

60113 Whitely, G. C., Jr. Escape to Cape Cod. FRONTIERS 30(5):142-145, June 1966. Photos.

The Cape Cod National Seashore offers bird watching, swimming, fishing, and walking along the dunes. Besides information on activities for vacationers, the article provides some Cape history and illustrations of its natural beauty.

60114 Wicker, C. F. Problems of the New Jersey beaches. SHORE BEACH 34(1):2-7, Apr. 1966. Map, photos., tables.

No abstract.

60115 Wilderness Conference, 9th, San Francisco, 1965
Wilderness in a changing world.
San Francisco, Calif., Sierra Club
255p. 1966. Maps, photos.

These biennial conferences on wilderness sponsored by the Sierra Club since 1949 focus attention on the preservation of some of our land in its natural condition. The keynote address describes the relationships of wilderness and man. Wilderness in crisis is discussed in terms of population pressure, economics, and planning problems. The impact of technology is described in papers on conservation of energy, proposed dams in Alaska, and problems of pollution. The meaning of wilderness to man is explored from the humanitarian, spiritual, and psychological viewpoints.

60116 Writers' Program, Arizona Arizona, The Grand Canyon State. New York, Hastings House 532p. 1966. Ref., maps, photos.

This guide to Arizona deals with the historical background of the State from the earliest times as depicted from the archaeological sites to the present day. Arizona's eleven principal cities are described, and the recreation opportunities of the area are mentioned. Tours to places of interest are included, with information on campgrounds and accommodations enroute. The concluding section deals with the Grand Canyon National Park and tours available there.

60117 Zoebelein, G. M.
The Appalachian Trail in New York and New Jersey.
CONSERVATIONIST
20(4):12-13, Feb.-Mar. 1966. Map, photos.

Points of interest along the Appalachian Trail of New York and New Jersey are described.

60118 Western Ranches DUDE RANCH 35(4):28-34, Fall 1966. Map.

Two types of dude ranches offer recreation opportunities: 1) the working ranch devoted to the raising of livestock and agricultural crops employing western men and increasingly working guests; 2) the mountain ranch designed to care for guests where horses are primarily the only livestock. Most members of the Dude Ranchers! Association make summer pack trips into wilderness areas adjacent to their ranches and outfit big game hunting parties during the hunting season. A list of ranches, members of the Dude Ranchers! Association, is given.

60119 Anderson, R. L.
Wild rivers: an added dimension in water resource use.
Western Agricultural Economics Research
Council. Committee on the Economics of.
Water Resources Development.
Water resources and development of the West.
Pullman, Wash., Wash. State Univ.
p. 33-39, 1966. /Report no. 13/

The idea of setting aside certain rivers in their natural state was derived from recommendations of the Senate Select Committee on Water Resources in 1961 and the ORRRC Report in 1962. Detailed field studies were accomplished in 1963 on 9 western rivers. Evaluation criteria for selection and evaluation of possible wild rivers are: (1) Condition—The river should be relatively free-flowing and unpolluted, the scenery pleasant and of tree wilderness character. (2) Quality-The river and its setting should possess natural and recreational values of outstanding quality. (3) Capacity—The river and its setting should be large enough to sustain existing recreation use or to accommodate more use without undue impairment of the natural values or quality of the recreational experience. (4) Highest Use-Retention of the river in its natural free-flowing condition should outweigh alternative uses. (5) No water development projects are authorized or underway which would permanently or drastically impair the existing natural and recreational values of the river and its setting. Wild rivers will be developed for recreation, education and aesthetic qualities rather than for economic considerations. The author believes the people of the United States can afford the cost of establishing a nationwide system of rivers with varied characteristics.

60120 Andrews, H.
Suburbia's new bass bonanza.
FISH.WORLD
13(2):20-23, Mar.-Apr. 1966. Photos.

Fishing in small suburban lakes, ponds and reservoirs, and the use of waders or a canoe to reach comparatively remote areas where few people ever fish are suggested routes to successful fishing.

60121 Barrows, P. T. Water and outdoor recreation COLO. OUTD. 15(4):1-8, July-Aug. 1966. Photos.

"Maintaining opportunities in fishing, hunting and other outdoor recreational activities is sometimes impossible when other uses are made of water. These opportunities must be considered in present and future water projects in Colorado. Failure to do so could harm the state's over-all economic development program."

60122 Bauer, E. A. My secret river of escape. FORD TIMES 59(8):37-39, Aug. 1966. Photos.

The relaxing experience of a float trip down an untraveled river in a canoe or small boat is praised and recommended. Some floatable rivers near cities are listed.

60123 Bottel, H.
Boat campers' paradise. Lake Tahoe's Emerald
Bay.
MOT. BOAT.
118(1):22-24, July 1966. Photos.

No abstract.

60124 Clark, J. Kayak-camping Lake Powell. FIELD STREAM 71(2):56-59, June 1966. Photos.

The aesthetic qualities and breathtaking beauty of Lake Powell on the Arizona-Utah border are described and photographed. Visitors to Glen Canyon National Recreation Area may rent a boat, take a tour, or charter a trip.

60125 Corbeau, L. Mojave's secret river. WEST. OUTD. 43(4):12-13, 22, 46, Apr. 1966. Illus.

Under warm Lake Mojave is a cold river. The water temperature difference is enough to provide perfect trout water below and perfect bass water above. Fishing techniques for both kinds of fishing are given.

60126 Cromie, W. J.
The living world of the sea.
Englewood Cliffs, N. J. Prentice Hall
343p. 1966. Ref., illus., photos.

The teeming life of the oceans is described in great detail. The lives, feeding habits and danger to humans of sharks, shates and rays are described; also information on snakes and turtles is given. Fishes and their physiology are described

as a group. The mammals, porpoises, seals, walrus, dolphins, and whales are described last. The book as a whole points up the evolutionary and ecological relationships of species. The treatise concludes with a chapter on man's relationship to the products of the sea and the need to use the great resources of the oceans wisely.

60127 Dietz, L.
The Allagash.
DOWN EAST
13(3):20-23, 50-52, Oct. 1966. Map, photos.

An account of the Allagash—its description, history, geology, and meaning as a sanctuary for the human spirit. It may become established as a wilderness waterway, depending upon the November 8 decision of Maine voters. If they approve the bond issue, the State Park and Recreation Commission will establish a 300,000-acre waterway park in the Allagash region. Federal matching funds will then be made available. It is a golden opportunity for Maine citizens to preserve one of America's last wilderness areas.

60128 Dominy, F. E.
The reformation of "Old Red."
PARKS RECREAT.
1(4):314-315, 358-362, Apr. 1966. Illus.

The Commissioner of Reclamation, U.S. Department of the Interior, assesses the results of dams on the lower Colorado River. The transformation of "Old Red" and a once hostile desert land was set in motion by the construction of Hoover Dam. Lake Mead behind Hoover Dam became a recreation attraction for the entire Southwest. Glen Canyon Dam in Utah and Arizona, and Flaming Gorge Dam in Utah and Wyoming are deemed nationally significant. The blue waters and vast, spectacular settings of these new jewellike lakes on the Colorado River will delight visitors of all ages.

60129 Farb, P. Water. NAT. WILDL. 4(4):4-9, June-July 1966. Photos.

The water supply available is plentiful for man's existence. The shortage of water may be attributed to the following facts: (1) precipitation does not necessarily fall in the right place at the right time, (2) loss of water by "runoff" causing floods, (3) unwise use of water, (4) loss through sedimentation, (5) pollution by factories and cities. These problems can be solved by, (1) transporting unused water from plentiful areas to dry areas, (2) desalinization of water, (3) increasing the yield of water from high mountain forests, (4) conservation of water on small tributaries of rivers, and (5) elimination of water pollution.

60130 Hayden, C. Utilizing the great river. PARKS RECREAT. 1(6):501,524-525, June 1966. Illus.

The Colorado River can produce enough water to serve the power needs of an aqueduct for Arizona. The plan for diverting water from the Colorado River contains as its principal feature the Central Arizona Project Unit. Arizona's right to Colorado River water has been sustained by the U.S. Supreme Court. The project is economically feasible. Construction of Bridge and Marble Canyon Dams as key features has now been challenged. The recreation potential of these project is described. Senator Hayden maintains that Bridge and Marble Canyon reservoirs will not prevent, but enhance, the opportunities for enjoyment.

60131 Heuston, J.
Will we save our wild rivers? Campers have a stake in the battle.
BET. CAMP.
7(4):26-31, April 1966. Illus.

Campers have a stake in the battle to save the Buffalo, Susquehanna, Wolf, Niobrara, Salmon, Skagit, and other rivers. Each stream named is characterized by a different author. The need for preserving "unspoilt natural" of which natural streams are a part, is related to the satisfaction of spiritual needs.

60132 Horvath, W. J. More than just a pond. MD. CONSERV. 43(5):9-11, Oct. 1966.

Farm pond construction declined sharply in 1961, but is accelerating again. Early ponds were often built for irrigation or water supply for cattle; now, ponds often are built for multipurpose use and are designed to conform with other features of a total conservation plan. Most ponds are used for some combination of stock water, irrigation, wildlife, fishing, swimming, or other forms of recreation. Various State and Federal agencies control and financially assist pond planning and construction.

60133 Hunn, M. A look at Georgia's Lake Lanier. MOT. BOAT. 118(3):36-37, 82-84, Sept. 1966. Photos.

Lake Sidney Lanier was formed when Buford Dam was built in 1957 on the Chattahoochee River. Six years later, in 1963, this lake ranked first in popularity—with 7,738,000 visits—among the water resource project-playgrounds operated by the Corps of Engineers. Today, Lake Lanier has 34 free boat launching ramps, 6 marinas, 2 beaches, 6 tent and trailer camping sites, and 28 picnic areas. Boaters might enjoy a side trip to Dahlonega, Gainesville, and nearby State parks.

60134 Jackson, J. P. Up on Yellowstone Lake. AMER. FOR. 72(11):14-17, 76-77, Nov. 1966. Photos.

Yellowstone Lake, fed by Yellowstone River in the heart of the Absaroka Range, is a tourist attraction for thousands of fishermen, birders, boaters, and wilderness enthusiasts. The National Park Service attempts to maintain the wild atmosphere of the Yellowstone Lake by restricting areas for motor boating and conducted tours.

60135 Jester, D. B. The Elephant Butte story. N. MEX. WILDL. 11(3):5-6,21, May-June 1966.

The fishing potential of Elephant Butte Reservoir has improved as a result of successful game fish spawns and removal of non-game fish.

60136 Kahn, E. J., Jr.
The Hudson River.
HOLIDAY
40(4): 40-45, 83-89, Oct. 1966. Photos.

A beautifully illustrated narrative that presents the scenic splendor of the river and its history. From the time Henry Hudson first sailed it 357 years ago on up to the present Storm King controversy, the Hudson has figured significantly in American political and economic history. The Hudson River is a national treasure and must be saved from becoming polluted and a noisome eyesore.

60137 Kerr, D.
Pay lakes! Why not?
FUR FISH GAME
62(2):24-26, Feb. 1966. Photos.

The well-managed pay fishing lake is recommended for these areas void of good natural fishing waters. Fees range from \$1 to \$3.

60138 Korenek, S. Lake L. B. J. TEX. PARKS WILDL. 24(11):26-27, Nov. 1966. Map, photos.

Lake Lyndon B. Johnson is described as a fisherman's paradise and a photographer's dream.

60139 Lesure, T. B. Arizona's Colorado. TRAVEL 126(6):59-63, Dec. 1966. Photos.

No abstract.

60140 Lindsey, J. J. A trout lake in western New York. CONSERVATIONIST 21(1):20-21, Aug. -Sept. 1966. Photos.

Harwood Lake in northeastern Cattaraugus County, N.Y., was constructed as a cooperative venture by the State and the Soil Conservation Service. It was designed for soil erosion control and recreation potential. Costs and facilities are discussed.

60141 McKee, R. Great Lakes country. New York, Crowell 242p. 1966. Maps, illus., photos.

The geologic formation of the Great Lakes area is discussed. Information on the natural resources is presented. A capsule of human history—from Stone Age to modern civilization—in this area is presented.

60142 Martin, R. G. Newest fishin' hole. VA. WILDL. 27(6):11, June 1966. Photos.

Hidden Valley Lake in Washington County, Va., opened to the public as a fishing lake in spring of 1966. It provides a modified "fish-for-fun" management plan allowing fishermen to keep only fish 10" or more in length. The lake has been drained, fertilized and stocked with finger-lings now coming to maturity.

60143 Mathias, C. McC. The Future of the Potomac. ATLANT. NATUR. 21(3):136-138, July-Sept. 1966.

An outline of the steps that should be taken to preserve the scenic and recreational values of the Potomac River Basin area.

60144 McKewan, T. D. Recreational uses of watershed. State health view. AMER. WAT. WORKS ASS. J. 58(10):1270-1272, Oct. 1966.

Concern is expressed for public health due to increased recreational facilities at watersheds and reservoirs. The greatest need for water quality protection is at terminal reservoirs because of their proximity to populated areas. Benefit-cost ratio studies and other studies of the public water supply are recommended. It is suggested the water supplier approach the recreationist to arrive at a solution that will provide the greatest public benefit and use.

60145 Miller, C.
The glory of Adirondack brooks.
ADIRONDAC
30(3):44-48, May-June 1966. Illus. Photo.

One of the most delightful rewards of mountain climbing in the Adirondacks is the discovery of hidden beauties in the streams. Crystal clear water and coolness and visual beauty and soothing orchestral sounds characterize these Adirondack mountain brooks.

60146 The National Observer
Water to live with. <u>In</u>
Roberts, E. A. ed. America Outdoors.
Silver Spring, Md., The National Observer.
p. 18 - 34, 1966. Photos.

Beyond the obvious primary uses of water in homes, factories and on farms-there is also the need for abundant clear water for recreation, a use listed as ''primary'' by many government experts. An Outdoor Recreation Resources Review Commission survey shows that 44% of the population prefers recreational activities directly involving water; many others involve the use of clean water. Tax prods, the concept of eminent domain, access laws and easements are some of the devices for getting the public to the water. Near coastlines, desalination is a research possibility. Research is also probing reuse of water and of pollution control. The Public Health Service was authorized by Congress to devise large—scale programs for eliminating and reducing pollution on interstate waterways: By 1965 eight programs affecting one-third of the country's land and almost half its population were under intensive study. The PHS was also directed to promote uniform state laws concerning pollution abatement and enforcement. It was directed to assist municipalities to build waste treatment plants.

60147 Penfold, J.W.; Dennis, R.T. Rampart Dam. IZAAK WALTON MAG. 31(4):12-13, May 1966.

A study was made by the University of Michigan on the proposed Rampart dam and reservoir on the Yukon River in Alaska. The study concludes that the dam would probably result in an economic as well as a fish and wildlife loss.

60148 Pierce, B.
Summersville Reservoir: a fishing mecca.
W.VA. CONSERV.
30(1):14-15, Mar. 1966. Photos.

Fisheries biologists are adding walleye pike to the Summersville Reservoir, stocking about 10,000 this year. About 27,000 largemouth bass were stocked there last year. Brook trout and several hundred thousand rainbow trout have been stocked in the Gauley River below the dam.

60149 Pough, R. A priceless resource in danger. CONSERV. CAT. 1(2):14-16, Aug. 1966. Illus.

Estuarine evaluation surveys are to be aided by the B. W. Baruch Foundation.

60150 Powers, C. F.; Robertson, A. The aging Great Lakes. SCI. AMER. 215(5):95-100, 102, 194, Nov. 1966. Maps, illus., photos.

The Great Lakes are an inestimable natural resource for the development of the United States and Canada. They supply vast amounts of water for various needs, particularly for drinking and industrial use, and serve as an immense playground for human relaxation through boating, swimming and fishing. The aging of the Great Lakes is accelerated by pollution from industries and sewage. Ecological balance at the bottom of the lakes is disrupted. Some fish species have disappeared. Others have been introduced through canals or stocking. These factors change the nature of the lakes.

60151 Rathbone, R. R. A tour of the Society's saltmarsh. N. H. AUDUBON QUART, 19(1):11-16, Jan. 1966.

The 165 acres of saltmarsh in the Town of Hampton Falls which the Audubon Society of New Hampshire owns is in 39 individual tracts. This article includes a guide for visitors for 22 of these tracts.

60152 Richter, R. Epilogue: Ruin for the Grand Canyon? AUDUBON 68(4):216-216a, July-Aug. 1966. Photo.

A summary of the conflicting views about the proposed dams at Bridge Canyon and Marble Gorge on the Colorado River which would flood the Grand Canyon. "Isn't this nation wealthy enough to pay a little more for some other way to generate electricity... instead of sacrificing a priceless and irreplaceable scenic treasure?" is the concluding query.

60153 Ringland, A. C. Their constituents are the next generation. AMER. FOR. 72(8):8, Aug. 1966.

A comment on The Washington Post "Colorado Issue" editorial of July 14. The Grand Canyon National Park is threatened by the waters which would result from the proposed Bridge Canyon Dam. It is argued that although the dam might provide recreational facilities for the public, there is no need to assault the natural environment of the park.

60154 Sawyer, W. The fabled Au Sable. MOT. NEWS 49(2):15, 27, Aug. 1966.

The assets and facilities of one of Michigan's greatest natural resources and one of the best trout-fishing rivers in the country are described.

60155 Schaefer, P. Unmapped Adirondack Lake. LIV. WILDER. 30(93):10, Summer 1966. Photo.

Describes an unmapped lake in the east central Adirondacks owned by New York State. U. S. Geological Survey and the State Conservation Department will map the lake.

60156 Scott, W. E.
Wild rivers preservation and Wisconsin's program.
In International Association of Game, Fish and
Conservation Commissioners.
PROCEEDINGS, 55th convention, 1965.
Portland, Oreg.
p. 123 - 129, 1966.

The crux of Wisconsin's problem in river management for wilderness vs. economic development focuses on the pressure from people who want to use and enjoy the state's natural resources. The conservation of wilderness must be accomplished by arbitrary exclusion of hostile economic process and must be conserved in advance of the onslaught of the economic process. A chronological history of various activities and legislation pertaining to the State's wild and free-flowing rivers may be of value in analyzing comparable problems in other States.

60157 Short, J. R., Jr.
The Illinois and Michigan Canal: a prime recreation opportunity.
PANORAMA
11(5):2-3, Sept. 1966. Map, photo.

A discussion of the history, present status and recreational potentials of the I & M Canal which was dedicated September 24, 1966, as a National Historic Landmark.

60158 Still, H. Will the human race survive? New York, Hawthorn Books Inc. 272p. 1966. Ref.

The book discusses three factors which, in the light of population increase, will be crucial in the survival of the human race. These factors are water, power, and space. The use and misuse of water presented as a major problem involves: sources of water; droughts and floods; the need to control available water for residential and industrial use; utilization of dams and canals; reuse and desalination; technological problems; and future needs.

60159 Taylor, F. B.
Recreational uses of watersheds—Federal view.
AMER. WAT. WORKS ASS. J.
58(10):1272-1274, Oct. 1966. Ref.

Discusses the U.S. Public Health Service role in water quality and water supply. Public health factors are examined from the federal point of view concerning the recreational use of watershed areas and waters for water supply purposes. The author recommends that the multiple recreational use of this water resource be evaluated for health hazards.

60160 Tennessee Valley Authority.
Nature's constant gift.
Knoxville, Tenn.
72 p. 1966. Ref., maps, illus., photos, tables.

This is a report on the water resources of the Tennessee Valley. A unified approach to water management and flood control is discussed. The current uses of the streamflow of the Tennessee Valley are summarized and the demands of 1975 predicted, indicating future trends. The characteristics of each use are described, contributions to economic growth, problems, and expanding role of state and local agencies are indicated. The people's uses of the watercourse are described with emphasis on recreation uses.

60161 Thomas, B.
Beautiful New Ohio.
OUTD. LIFE
137(6):54-55, 146, 148, 150, 152, July 1966. Photos.

The Ohio River's new, high dams mean fabulous fishing for millions in six States. Five new pools will fill up behind nineteen dams. In addition to large bass, they are also expected to provide a lot of excellent duck hunting. The Ohio is due to become a fisherman's paradise.

60162 Tufty, B. L.I. Lake proposed. SCI. NEWS 90(10):149, Sept. 3,1966. Map.

No abstract.

60163 U.S. Bureau of Reclamation Project History, Angostura unit, Cheyenne Division, Missouri River Basin Project, v. 20. Huron, S. D. 106p. 1966. Photos.

The overall use of Angostura Reservoir for recreation purposes dropped about one-third during 1965, according to a report from the South Dakota Department of Game, Fish and Parks. The drop in use is attributed to cold, wet rains during spring and early summer. Gatfish fishing was the best; bass and walleye were slow; fishing as a whole was termed poor, partly because of lack of fishermen. There were certain indications of a good fish population. Pheasant and deer hunting remain good. A substantial

increase in fox population was noted. Two picnic table shelters and the development of a swimming beach add to the recreational area. Planting of food crops for wildlife in Horsehead and Dry Creek areas is carried on by Department of Game, Fish and Parks and neighboring ranchers on a share basis. The Recreation and Wildlife Summary report for 1965 is included in the appendix.

60164 U.S. Bureau of Reclamation Project History, Colorado - Big Thompson Proect, v.28. N.P. 175p. 1966.

Use of the recreation facilities at Colorado -Big Thompson reservoirs decreased nearly 12% from 1964. All reservoirs showed a decrease except Flatiron, Rattlesnake and East Portal. The camping concession at East Portal was a contributing factor in increase in visitation. The Colorado Game, Fish and Parks Department initiated an area use fee in 1965. Green Mountain and Willow Creek reservoirs are administered by this department and visitors are subject to the use fee. Information on the administration, visitor usage and facilities are given for the following areas: Green Mountain Reservoir, Willow Creek Reservoir, Shadow Mountain National Recreation Area, East Portal Reservoir, Marys Lake, Lake Estes, Rattlesnake Reservoir, Flatiron Reservoir, Carter Lake and Horsetooth Reservoir.

60165 U.S. Bureau of Reclamation Project History, Kendrick Project, v. 33. N.P. 80p. 1966. Maps, photos.

The Job Corps Conservation Center located at Casper, Wyoming, engaged in recreation facilities construction at Alcova Reservoir during 1965. Work performed was in the Cottonwoods Recreation Area, Black Beach Public Use Area, and the Sandy Beach Swimming Area. Recreation and Wildlife summaries for Seminol and Alcova Reservoirs are included in the appendix.

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60166 U.S. Bureau of Reclamation Project History, Rapid Valley Project, v.24. Huron, S.D. 47p. 1966

The Regional Office biennial maintenance review of Deerfield Dam was made Oct. 12, 1965. An estimated 39, 225 visitations were made to the recreational offerings on and around Deerfield Reservoir in 1965. Fishermen accounted for 24,950 of these visitations. During the year the Forest Service built additional roads, trailer areas, camping areas, and parking areas on the south and west sides of the reservoir. The 1965 Recreation and Wildlife Summary report for Deerfield Reservoir is included in the appendix.

60167 U.S. Environmental Science Services Administration. Development potential of U.S. Continental Shelves.
Washington
170p. 1966. Tables.

The report contains a section on recreation activities in the continental-shelf region and its environs. Detailed information on expenditures of salt-water fishermen is presented. Other recreation activities are described and participation estimates are shown.

60168 U. S. Forest Service The Eleven Point River in Missouri. Washington, U.S. Forest Service. 37p. 1966. Illus., maps.

The Eleven Point River in the Mark Twain National Forest in Missouri is proposed by the Forest Service as a wild river. This presentation gives the history and the program of management suggested for the proposed Eleven Point Wild River and its country.

60169 Van Coevering, J. Tombstone for Lake Erie. SPORTS AFIELD 15(6):66-67, 117-121, Oct. 1966.

"Will Lake Erie be dead before its time? Will it be a stinking ceaspool and a monument to man's stupidity? Will tons of muck and filth one day be its grave?"

60170 Wadsworth, N.
The rising gorge. In
Roberts, E. A. ed. America Outdoors.
Silver Spring, Md., The National Observer
p. 78-83, 1966. Map, photos.

The primitive beauty of Glen Canyon is gone forever but Lake Powell which is backing up 186 miles behind the recently completed Glen Canyon Dam is a boater's paradise. The reservoir is destined to become one of the most popular recreation sities in the west. When filled, the lake will have nearly 2,000 miles of shoreline. The National Park Service has jurisdiction over facilities developed along the shoreline - marinas, launching ramps, rentals, concessions, etc. Fishing is excellent during these early days of filling. Millions of rainbow trout and bass are planted yearly by air by the fish and game departments of Arizona and Utah and by the U.S. Fish and Wildlife Service. In the future, water skiing, nature hiking, and sightseeing will be added to the recreation activities provided at beautiful Lake Powell.

60171 Winsness, A.
The new Sather Dam.
N. DAK. OUTD.
29(2):16-21, Aug. 1966. Photos.

Sather Dam and lake are situated in western North Dakota's ranch country on Forest Service

land. The primary purposes of the lake are for recreation and stock water. A trout fishery has been established in the lake, and facilities have been provided for camping, picnicking, and swimming.

60172 Danger in "swimming hole". SCI. NEWS 89(20):362, May 14, 1966.

Disease germs of danger to swimmers lurk in warm waters of farm areas where domestic and wild animals abound. Recently Leptospirosis has been reported in Iowa.

60173
Lake Barkley - National Recreation Area.
KY. HAPPY HUNT. GROUND
22(3):28-29, May 1966. Illus., photos.

Lake Barkley has the potential of becoming the playground of Kentucky for it is within one day's drive of 90 million people. After the construction of Barkley Dam and Lock, the Corps of Engineers plans to establish camping areas, boat launching ramps, roadways, and parking areas. Motels and docks are being built by private developers. The Land-between-the-Lakes is popular for visitors who enjoy swimming, fishing, boating, picnicking and camping. Conservation programs are planned; fish and wildlife habitats established.

60174
Lake Powell is center of newest U. S. recreation area.
DUDE RANCH.
35(4):6-7, Fall, 1966. Map, photos.

Lake Powell on the Arizona-Utah border is one of the West's newest meccas for fishermen, boaters, water skiers or just plain sightseers.

60175
Look what is just minutes from Reno.
SUNSET
136(6):40-42, June 1966. Photos.

Pyramid Lake, a shrinking remnant of a vast prehistoric lake that once covered most of northwestern Nevada, lies near Reno. The lake is encompassed by the Pyramid Lake Indian Reservation. The Paiute Indians retain control over all fishing on the lake. Reintroduction of trout in recent years has established its reputation as one of the most remarkable trout-fishing spots in the West. Anaho Island, a 250-acre bird refuge within the lake, is an important nesting ground for waterfowl. In addition to spectacular scenery, there are also long white beaches which are excellent for swimming and sunning. Adequate overnight accommodations are available.

60176 Maine wilderness STATE GOVT. NEWS 9(3):4, Mar.1966

The Allagash River will be established as a wilderness waterway under a federal wilderness act with matching State of Maine funds. The State Park and Recreation Commission will administer the waterway.

60177
Study team advises against Rampart Dam.
FISH GAME
19(3/4):12, Apr. 1966. Map.

Here is a brief summary and discussion in a Canadian magazine of the Rampart Dam Study Team's report to the Natural Resources Council of America. A 16-month study by Dr. Stephen H. Spurr and five team members preceded their report on the feasibility of the proposed Alaskan dam.

60178
Up and down Oregon's Rogue.
SUNSET
136(6):76-85, June 1966. Map, photos.

Boating is the great way to see the Rogue River of southwestern Oregon. The Rogue is noted for fishing, swimming, picinicking, camping, and exploring. The 120-mile section from Grants Pass to the ocean is proposed for inclusion in a National Wild Rivers System. A description of this section is given. Notes accompany a detailed map and provide guidelines to access and trips available at various junctures.

60179
Wild river status for Youghiogheny given strong support by Conservancy.
WATER LAND LIFE
8(1):21-22, Apr. 1966.

Western Pennsylvania Conservancy has reaffirmed its support of the Wild River bill now pending in Congress and has urged that the Youghiogheny River be added to the National Wild River System.

60180 Martin, R.G. Trout VA. WILDL. 27(4):6-7,26, Apr. 1966. Photos, table.

Geographically, Virginia lies on the border of the natural trout range in eastern U.S. Trout fishing as practiced in Virginia today is dependent on a large-scale hatching, rearing and stocking program. The State agency's program and problems are described. A large table gives the statewide 1966 in-season restocking plan. 60181 Spencer, D. A.
Protecting the sportsman's paradise. In
The Yearbook of Agriculture 1966.
Washington, U.S. Govt. Print. Off.
p. 49-54, 1966. Illus.

Advancing civilization is constantly creating new problems in protecting our fish and wildlife. This chapter reports how many of these new problems are being solved and about the continuing programs of Federal agencies to protect our nation's fish and game.

60182 Underhill, A. H.
The role of fish and wildlife in outdoor recreation.
In International Association of Game, Fish and
Conservation Commissioners. Proceedings, 55th
convention, 1965.
Portland, Oreg.
p. 78-82, 1966.

Man's short-sighted and ruthless exploitation of natural resources is common knowledge. Conservationists of all types present divergent and conflicting viewpoints although conservation is most often supported by sportsmen and fishermen. The Bureau of Outdoor Recreation supports the theory that fish and wildlife occupy a significant place among the resources which provide needed outdoor recreation for man. Often the abundance of fish and game is controlled by other resources such as soil, water and forests. Imagination is needed in developing programs which combine hunting thrills, a limited harvest and good wildlife management in spite of mushrooming populations. State plans should reflect the role that hunting, fishing and other recreation uses of fish and wildlife should play in a state's outdoor recreation program.

60183 Weddle, F.
The fish that's too big to keep.
NAT. WILDL.
4(3):29-30, Apr.-May 1966. Photo.

An explanation and a description of the white sturgeon, the largest fresh water fish in the North American waters, is given. The importanceof rigid regulations in fishing are discussed for the conservation of the sturgeon.

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60184 Woodward, H.R.
The place of fish and wildlife in the national outdoor recreation program. In
International Association of Game, Fish and Conservation Commissioners. Proceeding, 55th
Convention, 1965.
Portland, Oreg.
p. 82-85, 1966.

State game and fish departments are the real pioneers in outdoor recreation and deserve a prime position in every State under the expanded program sponsored by the Bureau of Outdoor Recreation. Administratively, they should coordinate with the Bureau, and should be allocated sufficient Land and Water Conservation

Funds for their programs. Administrators need adequate and ambitious planning staffs in view of the strong position of fish and game in State Parks and the importance of fish and game in any comprehensive state plan for Outdoor Recreation. Some citizen and professional groups should also work with the Bureau of Outdoor Recreation in support of State viewpoints on fish and game.

60185 Bates, O. Wanted: hunters. OUTD. CALL. 1(7):10-17, Sept. 1966. Photos.

In every State, there is game that is going to waste because hunters do not take advantage of the situation. The author discusses their locations and varieties.

60186 Bierly, E. J.
The rescued.
NAT. WILDL.
4(4):23-27, June - July 1966. Photos.

The author discusses the destruction of wildlife before and after 1900. With the efforts of conservationists and conservation legislation for preservation of endangered species, there is a greater survival of wildlife.

60187 Brown, M.
What future for birds of prey?
AUDUBON
68(5):331-342, Sept.-Oct., 1966. Photos.

The destruction of birds of prey by man continues; only in wildlife refuges and national parks are they safe. Pesticides take their toll. Migrating birds of prey may be seen from Hawk Mountain, now a bird sanctuary in Pennsylvania. Hawk shooting in that State was a pastime for 70 years. Although 19 States accord legal protection to all birds of prey and another 26 protect some species, Pennsylvania lags in hawk protection.

60188 Dasmann, R. F. Wildlife and outdoor recreation. VA. WILDL. 27(8):4-5, 21-22, Aug. 1966. Photos.

Advice from the Conservation Foundation on the value of wildlife as outdoor recreation resources. Apart from the extent to which they encourage the pursuit of hunting, wild animals contribute to the recreation value of land in many ways. In addition, he discusses what can be done to achieve a city landscape favorable to an abundance of birds and smaller wild animals.

60189 Dufresne, F.
Plight of the ice bear.
AUDUBON
68(6):418-424, Nov.-Dec. 1966. Map.
Photos.

Gaps in knowledge of the ecology of the ice bear's life cycle portend that global regulations may be needed to save the polar bear from being exterminated within the century. Arctic explorers and Eskimo hunters have observed that females are generally found along the shoreline, while males inhabit the ice fields. Floating ice carries the bears hundreds of thousands of miles in their 30-year life span. Hunting and dwindling arctic ice reduce their numbers. Special international agreements are being considered to conserve the dwindling populations.

60190 Hausman, L. A. Birds of prey of northeastern North America. Peterborough, N. H., R. R. Smith 164p. 1966. Illus.

In their "rightful habitat" the birds of prey, so estimable an element of beauty and natural interest and so valuable a factor in the biological balance, should be protected by State and Federal laws. Here are described hawks, vultures, kites, ospreys, gyrfalcons, eagles and owls—their physical structure, habitat and distribution, food, and food-gathering habits.

60191 Krefting, L. W., and others Birds of Isle Royale in Lake Superior. Washington, D. C. 56p. June 1966. Illus., tables. /U.S. Fish and Wildlife Service. Special Scientific Report: Wildlife no. 94/

This report constitutes an annotated list of 197 species of birds reported from Isle Royale National Park. Bird distribution and habitats are described along with geography and vegetation. Sixty-two species are known to have bred at least once, 26 are thought to be breeders, and the rest are migrants.

60192 Mech, L. D.
The wolves of Isle Royale.
Washington, Govt. Print. Off.
210p. 1966. Ref., illus., photos, tables.
(Fauna of national parks of the United States.
Fauna series, no. 7)

Isle Royale National Park in Lake Superior is an ecological research laboratory for a population of moose and timber wolves. The dynamics of wolf-moose relationships are explored in this 3year study by Purdue University. The wolves appear to keep the moose herd within its food supply, cull out undersirable individuals, and stimulate reproduction.

60193 Osborn, F. Wildlife conservation. PARKS RECREAT. 1(8):646-647, 660, Aug. 1966. Photos.

The President of the New York Zoological Society points up the role of zoos in advancing the cause of wildlife protection. Nevertheless, the principal goal of wildlife conservation is to assure the survival of animals in their natural environments.

60194 Popowski, B. Bears and bear rifles. AMER. RIFLE. 114(8):22-25, Aug. 1966.

Information is provided on three North American bears: (1) the brown bear of Alaska and its offshore islands; (2) the grizzly which ranges from Alaska through Canada along the rockies into Mexico; (3) the black bear of the United States and Canada. Caution and understanding, in company with an adequate rifle and knowledge of its use, are the hunter's best allies in big bear country. Types of rifles are categorized.

60195 Smith, M. War of the pelicans. FLA. WILDL. 20(3):14-19, Aug. 1966. Photos.

Through the executive orders of Theodore Roosevelt, Florida's Pelican Island became the first established wildlife refuge in the Nation. Its history from that day, on up to its rescue in 1965 by the Board of Trustees of Florida's Internal Improvement Fund is related in this article.

60196 Spinks, R. A.; Lund, R. C. The ruffed grouse.
N. J. OUTD.
16(7):20-21, Jan. 1966. Illus.

A general description of the ruffed grouse, giving its range, habits, mortality factors, habitat requirements, and management.

60197 Stefferud, A., ed. Birds in our lives. Washington, Govt. Print. Off. 561p. 1966. Illus., photos.

A wide perspective of birds as they affect and are affected by people, other birds, and other forms of life and activities, is the stated purpose of this comprehensive book. A section is devoted to birds as a resource for sports and recreation.

60198 Stenlund, M.
Our timber wolves.
IZAAK WALTON MAG.
31(4):14-16, Apr. 1966. Illus.

This is a plea for the protection of the last important population of wolves in the United States south of Alaska. It is a study of the wolf's predatory habits and the effect on deer and moose population for hunters is discussed.

60199 Thornton, E. Hungry deer exact heavy toll on crops in South Alabama. ALA. CONSERV. 36(2):25-26, Feb.-Mar 1966. Photos.

The dilemma of the farmer where the deer population is overcrowded! Not only because of

crop damage, but also because it is poor conservation. An overabundance of deer causes feed shortages, resulting in runty animals susceptible to disease and predators. The Auburn Extension Service recommends a state law to permit an "either sex" hunting season where deer are overabundant.

60200 Tully, R.
Pheasant facts for '66.
COLO. OUTD.
15(6):1-2, 4-5, Nov.-Dec. 1966. Map, photos.

Here is good advice on how to hunt pheasants and on what to expect during Colorado's 1966 pheasant season.

60201 Underhill, A. H.
The role of wildlife in outdoor recreation.
VA. WILDL.
27(1):4-5, 22, Jan. 1966. Photos.

This article emphasizes the significance of fish and wildlife among the resources that provide outdoor recreation opportunities. It concerns the stewardship of the outdoors. More and more outdoor recreation is becoming the catalyst which is igniting sound resource planning and management. The motivation of people needs to be determined. Quality recreation experience with minimum drain on the resource must be sought.

60202 Gardener, J. Geomorphic studies in the Alpine Zone. CAN. ALPINE J. 49:173-178, 1966.

The discussion constitutes a brief summary of a study on geomorphic forms and processes in the Alpine Zone near Lake Louise in Banff National Park.

60203 Rutter, N.W. Glacial history of the Bow River Valley. CAN. ALPINE J. 49:157-173, 1966.

An interpretation of the most important glacial events as determined from geologic evidence is presented.

60204 Brown, H.
Hidden Lichen Valley.
DESERT
29(6):10-11, June 1966. Maps, photo.

An account is given of the colorfulness and beauty of the lichens that are found in the Hidden Lichen Valley in the Lake Mead National Recreation Area.

60205 Hill, R.R. Aspen--Colorado's most valuable tree? TRAIL TIMBERL. (569):84-85, May 1966. Photo.

The article points out the value of the aspen tree and its many uses by wildlife, hikers, hunters, and campers. Aspen has commercial uses, too.

60206 Lamb, S. H. Game and the trees. N. MEX. WILDL. 11(3):4,22-23, May-June 1966. Illus.

The chart in this article names in each life zone the typical game species, the typical forest type, and the associated species of trees.

60207 Monroe, J. New grass pathology study. GOLFDOM 40(9): 28-29, Sept. 1966. Illus., photos.

Experimental putting greens at Clemson University help scientists examine golf course plants.

60208 Murie, A. Pesticide program in Grand Teton National Park. NAT. PARKS MAG. 40(225):17-19, June 1966.

Deleterious effect of pesticides to protect trees in the national parks is discussed.

60209 Quinnild, C. L. Planning a grass seeding program. N. DAK. OUTD. 29(2):6-7, Aug. 1966. Photos.

A technical article giving advice about successful grass seeding practices for North Dakota.

60210 Robinson, L. W. Decline of the saguaro. AMER. FOR. 72(5):46,69 May 1966.

The decline of the saguaro in the Sonoran Desert in Southern Arizona and Northwestern Mexico may be halted by continued research and reforestation to combat the disease of the cactus.

60211 Sommers, R. Firm greens: best for you and the course. USGA GOLF J. 19(1):13-17, Apr. 1966.

Golf turfgrass maintenance survey results.

60212 Stearns, M. B. Fisheating Creek Wildlife Refuge. FLA. NATUR. 39(3):79-84, July 1966. Photos.

A description of the flora and fauna inhabiting this lakeside wilderness. Here is a living example of nature's ability to create a world of beauty and peace, and man's ability to conserve and harmonize with it.

60213 Stephens, C.
"But it's got to come out."
AMER. FOR.
72(5):45, 52, 53, May 1966.

This article speaks in favor of the preservation of trees.

60214 Stoeckeler, J.H.; Stoeckeler, H.S. Improper wetland drainage makes water-killed trees a problem in roadside aesthetics. BET. ROADS 36(8):24-26, Aug. 1966. Photos, table.

In terms of aesthetics and natural beauty, preserving and enhancing the landscape along our highways are important. While it is laudable to add more trees by planting, we should not overlook the need for preserving the natural tree growth already present along and near the right-of-way. In our millions of acres of wetlands lie a serious potential for destruction of roadside beauty. The authors grapple with the problem of roadside trees killed by flooding and make specific recommendations.

60215 Sturz, E.
Master of survival.
BOY'S LIFE
56(5):36-37, May 1966. Illus., photos.

Ken Cole, the "master of survival", is a leading authority on edible wild plants and survival techniques in the outdoors. Ways of identifying and preparing edible plants are discussed. Poisonous plants are identified and warnings given.

60216 Wagar, J. A.
Cultural treatment of vegetation of recreation sites. In Society of American Foresters. Proceedings, 1965.
Detroit, Mich.
p. 37-39, 1966. Illus.

Principles of recreation site management are related. He maintains that the emphasis on light use and wide spacing is neither possible nor desirable everywhere. As the number of outdoor visitors increases, the majority will have to be accommodated on rather intensively managed recreation sites.

60217 Living ghosts of the Inyos. AMER. FOR. 72(12):6-7, Dec. 1966. Photos.

What do they call the living ghosts of the Inyo Mountains? The world's oldest living trees—the Bristlecone Pines. Many are over 4,000 years old. Some of these ancient trees—such as the Patriarch, largest known bristlecone pine; or Methuselah, the oldest living tree known to exist anywhere in the world—are described here. In addition, a brochure and map of the Bristlecone Pine Recreation Area of the Inyo National Forest in California have recently been published by the Forest Service.

60218 Terjung, W. H.
Physiologic climates of the conterminous United
States.
ANN. ASS. AMER. GEOGR.
56(1):141-179, Mar. 1966. Maps, illus.

Human comfort is expressed in a physioclimatic classification. Physiological and psychological reactions of man to temperature, relative humidity, wind chill, and solar radiation are combined into two nomograms from which average human reactions can be deduced. Comfort and wind effect indices are applied to meteorological data of the conterminous United States for July and January, daytime and nightime, respectively. Maps combining both indices for July apply the classification on a larger scale (Southern California), and on a smaller scale (U.S.). A map of annual physio-climatic extremes synthesizes in generalized form how man tends to feel in various areas on a yearly basis. Thus, a three-step system results which attempts to revise certain conventional notions about comfort regions. The scheme is applicable to any dimension, time or region, and is a contribution to medical geography, climatological education, tourism, housing, clothing, and a general analytical tool, introducing greater precision into geography.

60219 Ade, G. We like the private campgrounds. CAMP. GUIDE. (45):14-15, 45-46, July 1966. Photos.

Hospitality experienced by author and family and other advantages at privately operated campgrounds in the eastern United States are described.

60220 Ade, G. Special report: family camping goes national. TRAIL. TRAV. MAG. 31(11):33, 59, 64-65, 67, Nov. 1966. Photos.

Private campgrounds are helping to fill the need for family camping and relieve pressure on overcrowded public facilities. The Family Camping Federation is sponsoring use of private lands for campsites and trails. Five types of camp-

grounds which could be provided by private enterprise are listed. Six objectives and goals of the Federation are summarized.

60221 Alderson, G. A National Park Service plan to bisect wilderness in the Great Smokies. SIERRA CLUB BULL. 51(3):8-10, Mar. 1966. Map, photos.

The National Park Service proposes to cut a transmountain road through one of the wilderness tracts in the Great Smoky Mountains. Conservationists in the region are recommending alternatives to this plan.

60222 Allstate Motor Club Campground directory. 'lv., 1966. Skokie, Ill.

Campground information on the United States and Canada is provided by towns and is accompanied by locator maps. General descriptions of the national and state recreational areas are given; also facts about seasonal dates, reservations, and fees for the state parks. Information on topography, elevations, and temperature ranges is supplied for the national areas. Campgrounds are classed as primitive, improved, or modern. The number of tent or trailer sites and fees charged are provided.

60223 Alman, R. K.
Deep-freeze camp site.
PARKS RECREAT.
1(9):717,757, Sept. 1966. Photos.

Located 40 miles north of Nome, on the Seward Peninsula and Salmon Lake, the Alaska State Division of Lands, with assistance from Bureau of Land Management, constructed a picnicking, camping, and boat-launching facility, the newest recreation site in Alaska.

60224 Alston, C. M.
Don't stop when the sun goes down.
AMER. CITY
81(5):114-116, May 1966. Photos.

Guidelines for lighting golf courses for night use and expansion of the outdoor recreation opportunities near population centers are discussed.

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60225 Batchelder, C. S. Our Bear Brook Nature Center. N.H. AUDUBON. QUART. 19(1):7-10, Jan. 1966.

This is an account of the Audubon Nature Center in Bear Brook State Park in New Hampshire. It is hoped that through nature centers in State parks, that there will be a greater appreciation of the out-of-doors as well as a greater understanding. 60226 'Baxter, W.
Trailering the ocean highway.
TRAIL. TRAV. MAG.
31(2):27-29, 77, Feb. 1966. Photos.

From New York City to Jacksonville, Florida, the ocean highway along the Atlantic seaboard offers the traveller a wonderland of history, recreation and thrilling views. Some of the attractions in each State are described.

60227 Bell, G. T. Paths and pavings to help make parks worth visiting. PARK ADMIN. 31(7): 34-35, 41, July 1966.

"Grass, trees, and shrubs make parks out of open spaces"; paths and pavings of various materials geared to user needs provide access through the park and add to the scenic attraction.

60228 Bier, J.A.; Raup, H.A. Campground Atlas of the United States and Canada. 1966-67 edition. Champaign, Ill. Alpine Geographical Press 204p. 1966. Maps.

The Atlas contains maps of campgrounds in the various states and in the Canadian Provinces. Connecting links of Federal and State highways are depicted, also national and state parks and forests and national monuments. Code numbers for each campground lead to further information such as camping capacities, fees and limits, pets, grocery store and laundromats, or boating, fishing and swimming. The camping season and climate of each area are also indicated.

60229 Boardman, W. S. What lies ahead for the Appalachian Trail? LIV. WILDER. 29(91):9-14, Winter 1965/66. Map, photos.

No abstract.

60230 Brink, D.
The show goes on.
PARKS RECREAT.
1(7):561-562, July 1966. Photos.

The public information officer for the recreation division of the Seattle Park Department tells how they are capitalizing on their World's Fair legacy by scheduling many kinds of city-sponsored recreation activities there.

60231 Campbell, T. H. Trail reports.
APPALACH. TRAILW. NEWS 27(2):26-32, May 1966.

Here is a compilation providing information on the present condition, work needed, and 1966 prospects, with comments, for each section, by

State, of the Appalachian Trail from Maine to Georgia. All of the trail is recommended for travel. Substandard sections are indicated.

60232 Crafts, E. C.
Our need for bicycle trails.
PARKS RECREAT.
1(5):435, 437, 452, May 1966. Illus., photos.

The report of the Outdoor Recreation Resources Review Commission shows that bicycling five years ago was the sixth most popular recreation activity. The Potomac Interim Report proposes over 600 miles of bicycle trails within the day use zone surrounding Washington, D. C. Other bicycle trail recommendations and opportunities are discussed.

60233 Cushman, D. The Great North Trail. New York, McGraw-Hill. 383p. 1966. Maps.

The author provides an historical account of the main passageway of antiquity, a trail that ran from Texas to the Klondike. He writes at length on the Buffalo Trails, the Golden Trails of British Columbia, the Gold Trails of Montana, the Trail of the Three-Toed Horse, the Cattle Trail—North from Texas, the Great Whisky Trail, the Road North—Klondike, and the Fenced Trail. By fence, politics, economics, road machinery, chemicals and flood, man in the past century has all but obliterated the Great North Trail.

60234 Deane, B. Campgrounds? No thanks. CAMP. GUIDE (41):14-15, 37, Mar. 1966. Photos.

An article which extols the virtues of primitive camping, of leaving the beaten path that leads to developed campgrounds. It notes the additional problems entailed and suggests ways of solving them. It gives information about locating a good campsite, how to obtain a fire permit if required, and how to conduct camping in a way that will make you and your family welcome again.

60235 Delzell, R. W. A rancher turns to recreation. COLO. OUTD. 15(4):42-43, July-Aug. 1966. Photos.

No abstract.

60236 Drahos, N.
Horse trails in the Adirondacks.
CONSERVATIONIST
21(2):6-9, Oct. -Nov. 1966. Maps, photos.

Those who follow the horse trails can now go into the famed Adirondack wilderness by saddle and pack horse. Some 50 miles of trails opened

on Sept. 1, 1966. The Conservation Department of New York maintains trails, registers riders, and provides facilities where visitors may camp overnight.

60237 Eissler, F. The National Trail System proposal. SIERRA CLUB BULL. 51(6):16-17, June 1966.

President Johnson calls for a national system of riding and hiking paths. Congressional legislation will help provide for demand. Provisions of the bill are discussed. Present paths and trails are being obliterated by motor scooters or lumbering operations.

60238 Fields, F. B. What to see and do in 1966 in Land Between the Lakes. TENN. CONSERV. 32(3):3-7, Mar. 1966. Maps, photos.

Ready for the 1966 season are two family campgrounds, a conservation education center, a major day-use area, and several informal lakeside areas. Activities offered are swimming, boating, picnicking, hiking, camping, hunting, fishing, and nature study.

60239 Fisher, R. A., Sr. Following historic trails in the Payson Country. ARIZ. HIGHW. 42(4):4-7, Apr. 1966. Photos.

The Payson Country of Arizona is a center of scenic beauty with an historic past of Apache Indians, early ranchers and miners. The vast Mazatzal Wilderness Area is open to trail riders on many well-marked trails. The town of Payson is now a center of tourism with a retirement community type of living.

60240 Freeman, Mrs. O. L. Don't miss the National Arboretum. PARKS RECREAT. 1(7):566-567, 591, July 1966. Photos.

A description of the arboretum, including its history and famous visitors, by the wife of the Secretary of Agriculture. The National Arboretum, although originally set up as a study center, has become one of the most fascinating and rewarding showplaces in the District of Columbia area.

60241 Gaskill, D. T. Community range development. PARKS RECREAT. 1(9):708-710, Sept. 1966. Illus.

An article that tells how the National Rifle Association, in cooperation with the Bureau of Outdoor Recreation, provides technical help and advice to State and local agencies in the planning and development of community shooting ranges. 60242 Goff, P. E. Are naturalists neglecting nature? CAN. AUDUBON 28(1):17-19, Jan.-Feb. 1966.

The chief naturalist for metropolitan parks and Toledo, Ohio, warns against the oversophistication of nature interpretive centers.

60243 Goodan, Mrs. W. A zoo needed planting. GARD. CLUB AMER. BULL. 54(6):28-29, Nov. 1966.

The Pasadena Garden Club received an SOS from the children's department of the Los Angeles Loo just as it was about to open. Because of a mistake in the landscaping contract, there was no provision for planting the two acres of barren slope adjacent to the entrance. To the rescue came the Pasadena Garden Club. Eleven members volunteered—each with her own shovel, trowel and rake. The Park Department had the shrubs and ground cover there ready to plant. What happened then—how and when and what they planted—is vividly described by the Garden Club volunteers.

60244 Gottschalk, J.
The indoor-outdoor concept. <u>In</u>
SWIMMING POOL DATA AND REFERENCE
ANNUAL
33:130-131, 1966. Photos.

An indoor-outdoor heated pool aids motel's sales.

60245 Grove, F.
The old Chisholm Trail.
OKLA. TODAY
16(4):24-27, Autumn 1966. Map, illus., photos.

No abstract.

60246 Harrison, G. A. Results of the 1965 Springfield College campsite preference survey. Springfield, Mass., Springfield College 7p. 1966.

Preference information on equipment, facilities and campsite layout was obtained from a mail back questionnaire handed out to interested parties at the 1965 Springfield Camping and Outdoor Show. Over 1,000 responses from camping families were received.

60247 Heeney, W.
Big stakes: aud-arena food dollar.
AMUSE. BUS.
78(14):25-27, Apr. 9, 1966.

New techniques and devices in the food serving industry have made eating facilities at stadiums and arenas a very lucrative business.

60248 Hill, R. Is safety sitting in this seat? SWIM. POOL AGE 40(7):18-19, July 1966. Illus.

The key person in a pool facility when it comes to safety is the lifeguard. His duties and the prevention of accidents are explained.

60249 Hunsaker, J. Club pool upsurge forecast for U.S. <u>In</u> SWIMMING POOL DATA AND REFERENCE ANNUAL 33:9-13, 1966. Photos.

The tremendous popularity of the swim club has created a factor of significant proportions within the scope of the existing swimming pool industry. Article briefly discusses types of swimming clubs, their construction and successful operation.

60250 Huyck, D. B.
The national forests come alive: new vista through VIS.
AMER. FOR.
72(4):12-16, Apr. 1966. Photos.

Since 1961, VIS (Visitor Information Service of the U.S. Forest Service) efforts have developed visitor centers, self-guided trails, trailside shelters, nature hikes led by competent naturalists, automobile tours, and other services. Visitor centers, manned by VIS personnel, welcome campers.

60251 Iles, G. T.
Man and his world need a new ark.
ROD GUN CAN.
68(3):10-12, Apr. 1966. Illus., photos.

The proposed World Wildlife pavilion at the 1967 Universal and International Exhibition would be in the form of a floating ark, moored to one of the Exhibition islands in the St. Lawrence River.

60252 Isley, W. H. Maintenance: low. How they do it at the Milwaukee County Zoo. PARK MAINTEN. 19(6):8, 10-11, June 1966. Photos.

Although the zoo covers 117 acres and has as many as 32,000 visitors on a typical summer weekend, the Milwaukee County Zoological Park is one of the most carefully maintained zoos in the country. Its 86 employees operate the zoo at the optimum operating cost and run it efficiently throughout the year in extremes of climate. Industrial systems, such as scheduling of preventive maintenance and checklists, have been adapted to the zoo's special problems and conditions. The rain-making system and other equipment are described.

60253 Kahms, F. W., Jr. Diving areas demand careful planning. SWIM. POOL AGE 40(8):19-20, 37-39, Aug. 1966. Photo.

This is the 6th in a series of articles on building a pool with a safe diving area. The use and the user of the pool, and the various aspects and features to be considered, are discussed and analyzed.

60254 Kerr, D.; Kerr, L. Modern camping. PA. ANGL. 35(2):18, Feb. 1966.

Pennsylvania's state and national campgrounds are augmented by a large number of private campgrounds whose facilities and specialties are described.

60255 Kerr, D.; Kerr, L. Modern camping. PA. ANGL. 35(3):18, Mar. 1966.

The Allegheny National Forest which encompasses about 740,000 acres has vast recreation potential. Several camping and fishing areas of the Forest are described.

60256 Larson, R. D. Ski touring trails. TRENDS PARKS RECREAT. 3(2):20-22, Apr. 1966. Photos.

In areas where ski facilities are built on public land, the agency involved has controlled permit, extent and design of trail clearing, sanitary facilities and public safety. In areas built on private land the states promote legislation on safety of uphill transportation and licensing of commercial establishments. Financing and construction of trails, ski lifts and essential facilities have been carried on by private interests. Cross country skiing, ski touring, high touring, ski mountaineering are gaining adherents. Vast new areas with trails need to be opened. Touring facilities can be divided into two categories: 1) General outdoor recreation areas; 2) Natural environment areas. The first would serve those who come for the day and is of primary concern to the metropolitan planner, city and country park departments. The second, catering to the weekend or extended vacation skier, concerns interest areas on the state or national level. Trails for both types can combine a combination of public and private lands. Costs for the touring skier are small. Criteria for ski touring trails are provided.

60257 Leicester, J. B.
Movable bulkhead provides flexibility. In
SWIMMING POOL DATA AND REFERENCE
ANNUAL
33:128, 143-144, 146, 148, 1966.

The movable bulkhead answers the problem of flexible pool length, a distinct diving area, and

adequate pool division. The School of Physical Education of the University of Saskatchewan established rigid specifications for a bulkhead, and turned them over to be researched to Underwood McLellan and Associates, a firm of consultant engineers. The requirements for the pool are listed. The ease of movement, stability, and safety of the bulkhead are discussed.

60258 Leissler, F.
Roads and trails of Olympic National Park. Rev.
ed.
Seattle, Univ. of Washington Press
84p. 1965. Maps, illus., photos.

An illustrated guide book describing the primary hiking trails and roads of the Olympic National Park. Mileage information and helpful hiking suggestions are given. Also provides suggested fishing areas, mountain ranges, campgrounds, shelters, and resorts.

60259 Martin, D. M. In the footsteps of Lewis and Clark. APPALACH. TRAILW. NEWS 27(1):13-14, Jan. 1966.

A Lewis and Clark Trail Commission has been established to coordinate the preservation of the entire historic route and make the expedition come alive. The article is devoted largely to a description of the part known as the Lolo Trail, leading west 100 miles from Lolo Creek in Montana to the Columbia River.

60260 Martin, G. W. The call of the open trail. PARKS RECREAT. 1(8):630-632, Aug. 1966.

The social and psychological values enhanced by the experience of family hikes along the trails of Olympic National Park are observed.

60261 Melamed, M. Principles of master planning. CAMP. MAG. 38(7):15, Sept. -Oct. 1966.

No abstract.

60262 Meslin, J.
Pool operator shows how to save water. In
SWIMMING POOL DATA AND REFERENCE
ANNUAL
33:103, 1966.

Installation of a well can alleviate water shortage for swimming pool owners. Swimming pool design, gutter water reuse, and manipulation of the water filtration system may all be factors in conserving water. 60263 Miller, R. G.
Directory of Pennsylvania marinas, access areas and boat rental facilities.
PA. ANGL.
35(4):22-23, Apr. 1966. Map, illus.

This index covers the lower Susquehanna River, from Goldsboro, York County, south to Peach Bottom located just above the Pennsylvania-Maryland line in lower Lancaster County, Pennsylvania.

60264 Miller, R. G. Directory of Pennsylvania marinas, access areas and boat rental facilities. PA. ANGL. 35(8):16-17, Aug. 1966. Maps, illus.

Described are sections of the west branch of the Susquehanna River from Montandon to Lock Haven, where boating is available; also the boat clubs and parks which serve boating enthusiasts.

60265 Miller, R. G. Directory of Pennsylvania marinas, access areas and boat rental facilities. PA. ANGL. 35(9):16-17, Sept. 1966. Illus.

The directory provides a thumbnail description of the facilities offered at each of the boating recreation areas.

60266 Morris, J.
Students challenged with new camp design.
CAMP. MAG.
38(7):10-11, Sept. -Oct. 1966. Illus., photos.

No abstract.

60267 National Conference on Access to Recreational Waters, 4th, San Diego, 1965. PROCEEDINGS
56p. 1966. Map, photos.

A conference on access to recreational waters is co-sponsored by the Sport Fishing Institute and the Outboard Boating Club of America. The theme of the program is inland arid coastal access facilities—what, when, and how. Major areas of discussion include: piers and reefs, recreation development at new and old national parks, Lakes Powell and Mead, development and safety problems of waterway access, large access, and recreation programs.

60268 National Conference on Areas and Facilities for Health, Physical Education, and Recreation. 3d, Indiana University 1965.

Planning areas and facilities for health, physical education, and recreation. Revised.

Chicago, Athletic Institute
272p. 1965. Illus., tables.

The report concentrates on basic objectives and needs, and deals with specific areas and facilities

such as park and school areas, recreation buildings, aquatic areas, and outdoor educationrecreation areas and facilities.

60269 National Council of the Churches of Christ in the U.S.A. Committee on Camps and Conferences.
Site selection and development — camps-conferences-retreats.
Philadelphia, United Church Press
174p. 1965. Ref., maps, illus.

An attempt to provide solutions to the many problems connected with the selection and purchase of a campsite and development of facilities for the welfare of the campers and effectiveness of the program. Although the emphasis is on the solutions as they apply to church camps and conferences, the principles may be applied by any type of organization.

60270 Nutley, R. Hamilton heads for the slopes. PARKS RECREAT. CAN. 24(6):6-7, Nov.-Dec. 1966.

The development and operation of a winter sports area in Southern Ontario is described.

60271 O'Bannon, M. Kansas City builds poor man's haven. In Swimming Pool Data and Reference Annual 33:14-16, 1966. Photos.

No abstract.

60272 O'Brien, B. R.
The future road system of Yellowstone National
Park.
ANN. ASS. AMER. GEOG.
56(3):385-407, Sept. 1966. Ref., maps, photos,
tables.

Although provision must be made for sharply increasing park visitation, the modernization of present park roads is adversely affecting the natural environment. The author suggests that a double-tracked "park type" road system could adequately handle twice the present traffic and interfere with park wilderness to a minimum degree. Yet research must be continued, he believes, on all phases of the preservation—utilization conflict within the national parks before anything resembling a permanent solution to park transportation problems is reached.

60273 Paeschke, R. A. Family swimming outings gaining in popularity. In SWIMMING POOL DATA AND REFERENCE ANNUAL 33:85-86, 173, 1966.

In the more successful pool operations, management has found it more profitable to encourage family participation in the use of swimming facil-

ities as it increases revenues and affords greater safety with parental supervision. Picnic areas are often provided adjacent to swimming areas where family activities can be enjoyed; play equipment and play areas also encourage greater family participation.

60274 Parrish, J.
Along the Butterfield Trail.
DESERT
29(6):12-14, June 1966. Map, photos.

A description of two of the few remaining stage line stations is given. Many of the historic and original evidences of the culture of the times remain intact at the Alama Mountain and Cornudas Mountain stage stations along the Butterfield Trail in Texas.

60275 Peterson, J. A. Recreational use of airports and adjacent lands. Wheeling, W. Va. Nat. Recreation Park Ass. 41p. 1966. Illus. (Manage. aids bull. No. 60)

Some park and recreation activities and facilities are compatible with airport operations and can be located adjacent to or near airports. An attempt is made to determine what these uses might be and how they might best be combined. The results of a survey to that end are described and examples of how park and recreation uses might best fit into or adjacent to airport lands are outlined.

60276 Peterson, K. L. Great Smoky road opposed. TROUT 7(2):6-7, 12-13, Mar. -Apr., 1966. Maps, photo.

The National Park Service agreed upon certain road construction proposals with Swain County, N. C., 23 years ago. This highway construction would split one of the last extensive primitive areas in eastern U.S. It also would sacrifice irreplaceable wilderness country and valuable natural trout fisheries of the Great Smoky Mountains National Park. This article suggests several better alternate plans.

60277 Potomac Appalachian Trail Club, Washington, D.C.
Guide to the Appalachian Trail. Susquehanna River, to the Shenandoah National Park.
Washington.
251p. 1966.

Trail sections on the Appalachian Trail from the Susquehanna River to the Shenandoah National Park are described. Early history and trail distances in miles are stated. The final chapter deals with cabins and shelters available. 60278 Rand McNally Travel Trailer Guide. 2nd edition. Chicago 160p. 1966. Maps, tables.

The second edition of <u>Travel Trailer Guide</u> provides updated information on over 6,000 trailer areas across the United States. For each trailer site there is information on facilities, activities, access roads, fees and seasons when open.

60279 Ritter, P.
The in-between joy wheel.
LANDSC. ARCHITECT.
57(1):34-37, Oct. 1966. Maps, photos.

Properly planned and developed bicycle trails might well lead to reduced urban rush-hour auto traffic problems and provide healthful and enjoyable exercise for our citizenry as well. Examples of such planning are presented.

60280 Robinson, D. Stream access. W. VA. CONSERV. 30(1):29-31, Mar. 1966.

As a minimum guideline to meet future recreational demands on State waters, one access area for each 300 acres of lake water and for every five miles of stream has been suggested for West Virginia. Stresses importance of continued progress against pollution and a sound stream access program.

60281 Robinson, J. Rests by the side of the road. WESTWAYS 58(11):30-31, Nov. 1966. Photos.

Roadside rests and their function in general are explained first. Since the subconscious need for a break sometimes becomes so great on long drives that it imperils those riding in the car, one main purpose is to soothe the tight nerves of travellers to make the freeways safer. The article gives the chief specifications for a roadside rest, including the initial cost and its yearly maintenance expense. It also describes the California program of Safety Roadside Rests.

60282 Rutherfoord, J.
New ideas in prefab cabins.
FIELD STREAM
71(2):64-66, 94-96, June 1966. Photos.

A description is given of three types of aluminum homes that may be used as vacation and retirement homes or hunting and fishing lodges.

60283 Sauriol, C. Roadside preservation. CAN. AUDUBON 28(2):41-42, Mar. -Apr. 1966.

Concern is mounting about the steady loss of trees, wildflowers, and plain old-fashioned at-

tractiveness along roadsides. We should talk of roads that take us to and from places; their aesthetic value is immense. Consider the number of persons who obtain enjoyment from their scenery, either as hikers or motorists. Roadsides when preserved should be identified as such through a plaque or sign similar to those in conservation areas or small parks.

60284 Savage, W. N.
The Appalachian Trail in Penn's Woods.
PA. ANGL.
35(10):8-10, Oct. 1966. Photos.

A delightful introduction to the Pennsylvania section of the world's longest footpath. Not only does it describe part of the Appalachian Trail but it gives advice on campsites and fishing opportunities along the trail as well. Some noteworthy trail sidelights and recommendations are included for hikers.

60285 Schneider, F.
Public access and landowner services.
OREG. STATE GAME COMM. BULL.
5(21):3, 6-7, Sept. -Oct. 1966. Photos.

No abstract.

60286 Shaw, E. Facilities for outdoor recreation. COLO. OUTD. 15(2):26, Mar. -Apr. 1966.

Discusses construction and outlays on recreation projects during 1965 in Colorado.

60287 Sherwin, R. J.
The Mammoth Pass Road.
SIERRA CLUB BULL.
51(8):15-18, Sept. -Oct. 1966. Maps, photo.

No abstract.

60288 Skinner, H. T.
The "new look" of our nation's botanic gardens and arboretums.
AMER. HORT. MAG.
45(3):304-311, July 1966. Photos.

In current trends in botanic garden programming, educational objectives are winning out over passive recreation. Research is running a poor third. Reception and information centers, film rooms, small theatres and class rooms are among new facilities. "Trails and plantings may be treated as 'self-help' exhibits, explained by signs, leaflets, electronic recordings, or orally" by guides. Transportation and parking sometimes need to be provided.

60289 Strong, S. "Quiet Crisis" in Vermont. APPALACH. TRAILW. NEWS 27(1):9, Jan. 1966.

A scenic parkway along the entire length of Vermont's Green Mountain Range from Massa-

chusetts to Canada has been proposed by the State of Vermont and submitted to Washington as part of the Recreation Advisory Council's Scenic Road and Parkway Study. The Green Mountain Club feels strongly that such a highway should be routed away from the present trail system, and that it should destroy as little mountain wilderness as possible.

60290 Taylor, J. Camping on Cape Cod. CAMP. GUIDE (42)10-13, 36, 38, Apr. 1966. Illus, map.

This is a report on the recreational attractions of the Cape Cod area and the new Cape Cod National Seashore. The present campsites are not sufficient to handle the crowds. Further development and expansion are planned.

60291 Todd, M.D. The desert: new world for campers. BET. CAMP. 7(1):18-23, Jan. 1966. Map, illus.

Desert is land to be studied and respected before it can be understood and loved. Information regarding desert camping opportunities in California, Nevada, and Arizona is presented. Desert camping preparations are listed.

60292 Traiman, S. Zoo survey. AMUSE. BUS. 78(8):20-23, Feb. 26, 1966. Tables.

This article is a report on a survey made on zoos and aquariums in the United States and Canada, with respect to operating statistics. It was found that their progress is very favorable in spite of increasingly smaller budgets.

60293 Trepaguier, W. J. More sites for campers. MOT. NEWS 48(9):20-21, Mar. 1966. Illus., photos.

Discusses the new camping opportunities available this year in Michigan.

60294 Tufty, B. Zoo babies numerous. SCIENCE NEWS 89(23):440-441, 451, June 4, 1966. Photos.

Animals in zoos are great attractions to visitors; today the public is more aware of the plight of wild animals as civilization expands. Scientists in cooperation with zoo administrators study their behavior, ecology, nutrition, and diseases. The costs of dealing with these factors in zoo surroundings are described.

60295 U. S. Bureau of Outdoor Recreation Guides to outdoor recreation areas and facilities. Washington, Department of the Interior.
36p. 1966.

Consult this listing for national, regional, state, and private guidebooks to outdoor recreation areas and facilities. Cross-referenced by camping, canoeing, fishing, and hunting.

60296 U.S. Bureau of Outdoor Recreation Trails for America. Report of the Nationwide Trails Study. Washington 155p. 1966. Maps, illus., photos, tables.

This study served as a basis for legislation to authorize the establishment of a Nationwide System of Trails. The Steering Committee, representing four Federal agencies, presented this report. It describes existing trail programs; assesses the adequacy of these programs to serve present and prospective users; suggests the appropriate role for the Federal government, State governments, local governments, and private interests in providing new recreation trails; and recommends Federal legislation to foster development of a balanced and adequate Nationwide System of Trails.

60297 Wharton, H.
Telling the park story.
PARKS RECREAT.
1(8):622-624, 658, Aug. 1966. Photos.

The article discusses modern devices and methods that are used in the National Park Service Interpretation Program.

60298 Zerbe, J. B. Hershey adds outdoor pool to complex. PARK MAINTEN. 19(12):16-17, Dec. 1966.

The Hershey Recreation Center in Pennsylvania has planned a complete swimming program with an outdoor-indoor pool. Outdoor swimming pool, scheduled for completion by the summer of 1967, is described.

Zoos and aquariums in the Americas.
Wheeling, W. Va., American Association of Zoological Parks and Aquariums.
112p. 1966.

A directory of zoos and aquariums in the Americas provides information on addresses, phone numbers, hours, admission fees, attendance, parking, acres of enclosures, staff, guided tours, interpretive services, publications, and a numerical compilation of the numbers and species of mammals, birds and amphibians. A few Old World, Latin American, and Canadian zoos are listed. The history of the American Association of Zoological Parks and Aquariums and its membership roster are included.

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60300 Zuelke, L. W. Cycling along Boston's front yard. LANDS. ARCHITECT. 57(1):43, Oct. 1966. Illus.

Discusses the Charles River Basin Cycling Route in Boston as well as similar bicycle paths and potential developments elsewhere in the country.

60301 California's seven paths of greatness. AMUSE. BUS. 78(12):22-30, Mar. 26, 1966. Tables.

In this article, the booming business of the fairs in California is discussed. There are tables on the seven areas in California that manifest the resources of their area through fairs.

60302 Canada helps her resorts. RESORT MANAGE. 20(1):12-13, Jan. 1966. Photos.

Winter resort successes in Quebec have been enhanced by a provincial government program aimed at: (1) Development of ski areas; (2) Provision of modern equipment in ski centers; (3) Construction of access highways; (4) Close cooperation in planning and promotion work; and (5) Installation of electrical power and telephone lines.

60303 Hiking and biking in Austin. LANDSC. ARCHITECT. 57(1):44-45, Oct. 1966. Illus.

Austin, Texas, has been developing a new hiking and biking trail in Shoal Creek Valley. The success of this project is described.

60304 How long is a home run? CAMP. MAG. 38(5):30-31, May 1966. Illus.

Specific measurements are given for the size and shape of the playing area for camp activities such as baseball, basketball, archery, volleyball, lawn tennis, and horseshoes. For baseball and basketball, dimensions for various age groups are shown.

60305 New bridge crosses mouth of Columbia River. WEST. CONSERV. J. 23(2):38-39, May-June 1966. Photos.

A description of the new bridge over the Columbia Riverwhich will speed up coastal highway traffic later this year. Linking Astoria, Oregon, and Megler, Washington, the bridge is 4.1 miles

long. This river crossing is the last major link in easy vehicular travel on Highway 101 along the coast from Washington to Mexico.

60306
New way to build launching ramps.
PARK PRACT. GRIST
10(1):1, Jan-Feb. 1966. Photo.

A listing is given of nine steps in the preparation of concrete launching ramps designed by TVA engineers.

60307 Newest attraction for public: the national fish aquarium. PARK MAINTEN. 19(6):12-13,16, June 1966. Illus.

National fish hatcheries are adding aquaria as public attractions. A few built at warm-water fish hatcheries are described in detail. A design is included.

60308
Nine new WCB projects.
OUTD. CALIF.
27(7):6-8, July 1966. Photos.

No abstract.

60309 A pool and ice rink in one area. AMER. CITY 81(6):75-77, June 1966. Photos.

A description of the entire dual-purpose recreation facility which can provide outdoor recreation for all seasons.

60310
Public hiking trail on Lake Malone attracts many users in first year.
KY. HAPPY HUNT. GROUND
22(27):35, Mar. 1966. Photos.

Beaver Trail, a free public hiking trail on state owned land around Lake Malone, Ky., proved so successful as a natural wilderness beauty trail that a new one called Canyon Kim Trail is planned.

60311
Take a peek at the ages.
PARK MAINTEN.
19(9):14,15, Sept. 1966. Photo.

Describes a new concept in parks and recreation programs. The geological development of the Columbia Plateau is told in story form through artistic displays in words, photographs and paintings at the new Dry Falls Interpretive Center built at a cost of \$100,000.

60312
The 25 steepest ski trails in North America.
SKI
31(4):55, Dec. 1, 1966. Tables.

The rating information on each of the 25 steepest ski trails is provided in tabular form under the following headings: Area; Trail name; Vertical Drop (by Feet); Slope Length (by Feet); Grade Degrees; and Average Per Cent. The chosen trails were divided into two categories: lift-served slopes over 3,000 ft. long, having a steepness greater than 40% (21.8°); and slopes over 4,000 ft. (over three-quarters of a mile) long, having a steepness greater than 30% (16.7°). An explanation is included about how Ski magazine rated the steepest trails.

60313
Two-level visitor center opened at Huron-Clinton's Stony Creek.
PARK MAINTEN.
19(5):49, May 1966.

A new Visitors Center Building at Stony Creek Metropolitan Park near Washington, Michigan, contains public use areas which are described.

60314 U.S. Senator suggests national plan for overnight parking. WEST. MOB. HOME NEWS 16(22):4, Nov. 14, 1966.

No abstract.

60315 Urban areas receive grants. PARKS 6(8):4, Aug. 1966.

The Land and Water Conservation Fund has made grants available to be matched by State and local funds for the development of hiking, bicycling, and horseback trails in 12 urban areas.

60316
Wisconsin snowmobile trails.
BET. CAMP.
7(2):40, Feb. 1966. Map.

Two northern Wisconsin communities and the Forest Service have pioneered the development of the first planned snowmobile trail in the United States. The Rhinelander-Three Lakes trail is expected to be just the beginning of snowmobile trails throughout the snow belt. Many western States already have elaborate trail networks through scenic areas that can be utilized by snowmobile enthusiasts during the winter.

60317
Yellowstone Park Company sale approved by National Park Service.
DUDE RANCH.
35(4):23, Fall 1966. Photos.

The sale of the Yellowstone Park Co. to the Goldfield Corp. is reported with terms of the new contract effective October 1966.

ADMINISTRATION OF RESOURCES AND PROGRAMS

60318 Grizzle, C.R. Mineral King's hidden "paylode." DESERT 29(7):16-18, July 1966. Photos.

Describes the Mineral King Valley in the Sierra Nevada Mountains and the attempt to develop the district ninety-three years ago. The valley is bordered on three sides by the Sequoia National Forest, an area rich in beauty, timber, minerals and wildlife. In December of 1965, the Forest Service of the Department of Agriculture accepted Walt Disney's plans for a \$35,000,000 summer and winter recreation facility at Mineral King. Ten basic guidelines for development of Mineral King are listed.

60319 Lee, J. What do you mean, multiple use? OUR PUBL. LANDS 15(5):22-24, Summer 1966. Photos.

Single use and multiple-use management of natural resources, as well as conservation, are explained by the author.

60320 McMillan, R.C. Should public parks upkeep cost be spread over nation. PARK ADMIN. 31(2):42-43, Feb. 1966.

The Director of Parks, Manchester, England, discusses cost sharing of park maintenance on a nationwide basis at the first Symposium on Sport and Recreation. Other topics of discussion were: the advisability of dual-control of school playing fields for after-school use; regional use of public parks; the facilities a Sports Center should provide; and the comparative popularity of different outdoor recreation activities.

60321 Needy, J. R. Filing systems. Wheeling, Nat. Recreat. Park Ass. 36p. 1966. /National Recreation and Park Association. Management Aids Bulletin No. 57./

The author has examined many parks and recreation filing systems. He has compiled here the best features of many of these systems into an outline or sample filing system which could be adapted for use in most departments. Although each department must examine its own needs for filing and establish a system which best suits its own needs, this study provides a basic guide that could be followed in establishing a filing system for park and recreation departments.

60322 Swift, E. Conservation Indians. WILDL. N. C. 30(10):18-19, Oct. 1966. Photos.

Armchair planners alone cannot work out practical measures to do the job of recreation development. When reliance is made on the field force, good results will be seen. There must be planning, but it should be realistic and field men should be consulted. A good solid relationship between planners and field men is essential to accomplish any effective conservation of natural resources.

60323 Swift, E.
The folly of face lifting.
KY. HAPPY HUNT. GROUND
22(4):30-31, July 1966.

Comments are made on the speech of Dr. Ira Gabrielson at the recent 31st North American Wildlife Conference in Pittsburgh. Resource conservation is now more widely accepted than previously but it has become a vehicle for political careers. Devious and interesting paths to conservation success are looked for, but hard facts must be faced. Destructive processes of dam building, flood control, and industrial pollution harm our resources. Current issues, such as the preservation of the Redwoods and creation of a North Cascade National Park in Washington are mentioned as subjects for compromise.

60324 Symposium on Forest Watershed Management, Corvallis, Oreg., 1966.
Practical aspects of forest watershed management.
Corvallis, State University
135p. 1966. Ref., illus., tables.

The main objective of the symposium is to stimulate better management of soil and water resources on forest and range lands. Of particular interest from the viewpoint of recreation use is the determination of economic values for sport fishing in waters on forest lands.

60325 Towell, W. E. Recreation and conservation. ALA. CONSERV. 36(5):12-13, Aug.-Sept. 1966. Photo.

The President of the International Association of Game, Fish and Conservation Commissioners defines conservation primarily as the protection and management of natural resources. He believes outdoor recreation is of conservation concern only when it is associated with use of natural resources in the wild or semi-wild environment.

60326 Barker, S.O. Pecos ruins. Newest national monument. N. MEX. MAG. 44(6/7):30-31, 38, June/July 1966. Photos.

On September 1, 1965, the Pecos ruins near Santa Fe, New Mexico, became Pecos National Monument. Formerly a State Monument, it attracts as many as 14,000 visitors a year. The National Park Service plans to further excavate the ruins, develop more adequate tourist facilities, and furnish a more complete guide service for Pecos National Monument.

60327 Bloomfield, H.V.L. Interim in the Everglades. AMER. FOR. 72(7):22-24, 40-42, July 1966.

Everglades National Park is suffering from State and local pressure to drain its water level. Such action would destroy wildlife habitat and cause vegetation change. The Corps of Engineers' dikes and dams control the water around Lake Okeecholee where private interests favor land reclamation and farm protection. But drought in the park in 1961 and 1962 increased low water distress; and aroused conservationists asked Congress for studies to keep fresh water in the park for indigenous wildlife ecology. Interim measures of water release are being taken by the Corps of Engineers.

60328 Buchheister, C.W.
The President reports - progress in Redwoods.
AUDUBCN
68(3):140, May-June 1966.

The Johnson administration's official plan for a Redwood National Park in Northwestern California is compared with a plan sponsored by Representative Jeffery Cohelan of California and Senator Lee Metcalf of Montana, based on the recommendation of a National Park Service study.

60329 Burr, R.D. Recovery and recreation. OUR PUBL. LANDS 15(5):16-17, Summer 1966. Photos.

Prior to 1900, a huge area in the Judith Mountains had been divested of timbers for fuelwood and mining operations. Because of an unusual forest recovery on the mountain ranges, the Bureau of Land Management has designated the Maiden Canyon as a recreational area.

60330 Cain, S.A.
Coordination of fish and wildlife values with water resources development goals. Speech. 2nd annual American Water Resources Assn. Conference, University of Chicago, Nov. 21, 1966.
U.S. DEPT. OF THE INTERIOR. NEWS RELEASE
Il p. Nov. 22, 1966.

These remarks explain the conflict within the ranks of conservation-development vs. preserva-

tion, and suggest ways to resolve it. Dr. Cain proposes that Interior have a veto power over estuarine tampering. This means that anyone intending to dredge or fill an estuary will have to obtain a Dept. of the Interior permit as well as a Corps of Engineers permit. Fish and wildlife values as well as navigational values are important uses of estuaries but estuaries are also places of natural beauty and scientific interest and recreational importance.

60331 Cain, S. A.
Program concepts of the Dept. of the Interior
with regard to fish and wildlife. In International
Association of Game, Fish and Conservation
Commissioners. Proceedings, 55th convention,
1965.
Portland. Oreg.
p. 109-116, 1966.

Program concepts are interpreted. The program of the Bureau of Commercial Fisheries is concerned with oceanic resources and calls for expanded investigation of the environments of the seas and of the biological resources associated with them. The international treaty organizations and F.A.O. are supported. Treaties with foreign countries on the natural resource and the production of cheap fish protein for world consumption is part of this Bureau's responsibility. Cooperation is needed between the States and the Federal government on the research of estuaries and the inland water impoundments. Research in fisheries management and wildlife, especially refuge management, is the responsibility of the Bureau of Sport Fisheries and Wildlife in cooperation with the States and neighboring countries. The boundaries between State and Federal jurisdictions with regard to fish and wildlife management are areas of dispute.

60332 Carter, L. J. Water pollution: new agency moving from HEW to Interior. SCIENCE 152(3723):736-738, May 6, 1966.

Federal activities in the anti-pollution field may gain a clearer sense of direction. Almost immediately after the Federal Water Pollution Control Administration moves to Interior, Secretary Udall is expected to issue guidelines for States to follow in preparing water quality standards. This article gives a history of the program under the Public Health Service, too.

60333 Christensen, E. The golden anniversary of national parks. FLA. NATUR. 39(3):101-102, July 1966. Photos.

A summary of the history and achievements of the National Park Service organization. To-day it is made up of more than 200 areas, including many new kinds of areas, National Parkways, National Seashores, and National Recreation Areas.

60334 Clausen, D.H. Redwoods to the sea. AMER. FOR. 72(11):22-25, 72-73, Nov. 1966. Maps, photos, table.

A congressman makes recommendations on plans for establishing a Redwoods National Park, discusses costs of various alternatives of land use and the quality of the land for inclusion in the National Park System.

60335 Cliff, E.P.
The role of the Forest Service in outdoor recreation. In Society of American Foresters. Proceedings, 1965.
Washington
p. 131-132, 1966.

First outlining national forest recreation resources and activities, the author presents an overview of management programs and policies. The Forest Service role includes extending the benefits of experience; making larger tracts of land available; developing and applying improved practices in management of wilderness; acting on behalf of the Nation in land use decisions; developing answers to difficult, unsolved resource management problems through research; and helping recreation seekers understand the forest at work and gain a deeper appreciation of the elements of natural beauty.

60336 Crafts, E. C., and others
The impact of recent legislation on administrative agencies. In Wilderness Conference, 9th, San Francisco, 1965.
WILDERNESS IN A CHANGING WORLD.
p. 163-179, 1966. Photos, maps.

Administrators in the Department of the Interior and Edward P. Cliff, Chief of the Forest Service, discuss the impact of recent legislation on Federal agencies. Mr. Cliff discusses the wilderness plans of the Forest Service, particularly the effects of the Wilderness Act. Mr. Crafts, Director of the Bureau of Outdoor Recreation, discusses the operation of the Land and Water Conservation Fund and recent conservation legislation. Although much has been achieved, there is much still to be done to preserve our natural heritage. Mr. Hartzog, Director of the National Park Service, discusses its history and contribution to the conservation of wilderness. Mr. Stoddard. Director of the Bureau of Land Management, discusses new legislation which allows multipleuse management of land and disposal of land as well as the designation of some new areas as wilderness.

60337 Crafts, E.C. Providing new dimensions. PARKS RECREAT. 1(10):826-828, 874-875, Oct. 1966. Photos.

The Director of the Bureau of Outdoor Recreation describes its major projects, such as the Nationwide Outdoor Recreation Plan, the

Federal Water Projects Recreation Planning, Wild Rivers, Trails, military lands, North Cascades, Lewis and Clark Trail, Hudson River, grants-in-aid, Federal acquisition of recreation lands and waters, and the President's Council on Recreation and Natural Beauty.

60338 Craig, J. B.
The Redwood pot begins to boil.
AMER. FOR.
72(1):38-39,55-57, Jan. 1966. Photos.

Ten plans have been proposed regarding a Redwood National Park. These include plans by the State of California, the National Park Service, the American Forestry Association, the Save-the-Redwoods League, the Sierra Club. The counties of the redwood region plan to keep the status quo, and redwood industry's plan as well as the A, B, and C plans proposed by the Department of the Interior at the recent conference.

60339 Davis, C. Legal problems and liability in outdoor recreation. PARK MAINTEN. 19(12):11-15, Dec. 1966.

Discusses the governmental immunity doctrine in liability cases of personal injury or injuries to property at public recreation facilities.

60340 Dayton, H. Conservation — present and future. RESORT MANAGE. 20(3):16, 18, Mar. 1966.

Conservation is defined as "the planned management of natural resources to prevent exploitation, destruction, and neglect." A resort is only as healthy as the environment that surrounds it, and several examples are provided. In a few years, Federal participation in national outdoor recreation will have as much impact on hotel, motel and resort trends as the Federal highway program of today. We are confounded by the problems of undiminished pollution of air and water, noise and blight.

60341 Delano, S.C. National Parks: long term problem. GARD. CLUB AMER. BULL. 54(3):77, May 1966.

The Great Smoky Mountains National Road controversy is reviewed. The Garden Club believes that the National Park Service will make every effort to keep any road away from the areas particularly subject to erosion, from the spectacular primeval hardwoods, the wild trout streams, and the mountain wildernesses that are still unspoiled.

60342 Diamond, H. L. The politics of beauty. PARKS RECREAT. 1(2):138-141, 154, Feb. 1966. Photos.

Americans are concerned about the quality of the country as well as the quantity of the gross national product. Government builds highways; provides the parks; regulates land use and controls water and air pollution. If we want government to do these jobs well, we must go into politics. Politics is the art of the possible. Beauty is going to have to tame the beast. We must accept reasonable compromises to obtain reasonable objectives.

60343 Fischer, V.
The seesaw in the Sawtooth.
AMER. FOR.
72(11):36-39, 78-79, Nov. 1966. Maps, photos.

At the edge of the Sawtooth Wilderness are a series of morainal lakes which are part of the Stanley Basin Recreation Area. Here is a fine water-oriented recreation complex. The Forest Service has done such an excellent job in administering both the wilderness area and recreation facilities in the valley that another agency would have little to offer if the area were to become a national park.

60344 Fiske, H.
Protecting vistas, visitors, and the companionable trees. In Roberts, E.A. ed., America Outdoors. Silver Spring, Md., The National Observer p. 48-55, 1966. Illus., photos.

National forests administered by the Forest Service operate under a multiple use program which permits timber growth for harvest and provides land for hunting, fishing, skiing and other recreational uses. The National Park Service administers its lands under three categories: natural, historical, and recreational. Chief administrative goal in recreation areas is use, not preservation. In contrast, the natural and historical sites are managed for preservation. Statistics show an increase in recreation use in both the national forests and national parks.

60345 Gallavan, P.J. Summit Lake Gains Natural Landmark Status. TRAIL TIMBERL. (566):23-24, Feb. 1966. Illus.

Secretary of the Interior Stewart L. Udall directed establishment of the National Registry of Natural History Landmarks. Criteria for such status are given. Summit Lake met the qualifications and is now designated a Natural History Landmark. This beautiful lake is situated on the north side of Mt. Evans in Colorado in a glacial cirque about 1500 feet from its summit.

60346 Goldman, D. National parks and the ecology of beauty. AMER. FOR. 72(11):18-21, 46, 48, 50, 52, Nov. 1966. Photos.

Two inseparable elements, the tangible resources of land and intangible moods of human experience, form the factors dealt with by the National Park Service in creating and preserving

the ecology of natural beauty. Park management involves a study into park landscapes, and the roles of climate, fire, vegetation, animals and all other factors including man so that wise planning may ensue. If the natural beauty of the national parks is to be fully experienced, all facilities must be designed to minimize human impact on the scene and to incorporate natural values into their design. The philosophies and concepts of national park administration must be brought to bear on day-to-day problems of land management and public relations. The crisis apparent in the establishment of values must be met.

60347 Gregg, J. Channelization of the Lower Colorado. SIERRA CLUB BULL. 51(1):12-13, Jan. 1966. Illus., photos.

The Bureau of Reclamation has suspended channelization work on the remaining three divisions of lower Colorado River, Topock Gorge, Parker, and Yuma because of their values as prime wildlife habitats and recreational resources.

60348 Hartzog, G.B., Jr. America's showcase, the national parks. PARK MAINTEN. 19(8):12-15, Aug. 1966.

Our national parks are vast outdoor museums of everchanging life processes or geologic displays where an almost limitless variety of recreation pastimes may be had. Five long-range goals of the National Park Service's new program called Parkscape U.S.A. provide guidelines for our expanding park system.

60349 Hartzog, G. B., Jr. Five decades past—and the future. TRENDS PARKS RECREAT. 3(3):1-2, 23, July 1966. Photos.

Beginning with the park planners of Yellowstone the historic growth of our principle of recreation conservation has taken five decades to bring to fruition. Our system of national parks should continue to grow by acquisition and management of open space.

60350 Hartzog, G. B., Jr. Parkscape U.S.A. NAT. GEOGR. 130(1):48-93, July 1966. Map, photos.

The new plan for the future of park areas is called "Parkscape U.S.A." It proposes: (1) to expand the National Park System by 1972 to meet the needs of the people, (2) to develop cooperative programs with other agencies, (3) to improve national parklands in urban areas, (4) to take the parks and the conservation message increasingly

to the people and (5) to extend advice and aid in larger measure to park systems in other lands. The impact of human feet is the gravest threat to tomorrow in our national parks.

60351 Hartzog, G. B., Jr.
Parkscape U.S.A.: a plan of conservation for natural and human resources.
PARKS RECREAT.
1(8):616-620, Aug. 1966. Photos.

Since the establishment of the National Park Service in 1916, the National Park System has grown to 231 areas encompassing approximately 27 million acres. Major historical periods in the expansion of parks, recent accomplishments, as well as future plans and objectives, are related.

60352 Heald, W.F. A Sonoran Desert National Park. NAT. PARKS MAG. 40(223):4-9, Apr. 1966. Maps, photos.

The National Park Service has released a formal proposal for establishment of the Sonoran Desert Park, which would combine the existing federally controlled areas of Organ Pipe Cactus National Monument and the Cabeza Prieta Game Range. There would be little need for purchases of additional land. There has been some opposition to giving national park status to this unique ecological area, containing many species of desert plants and bighorn sheep.

60353 Heine, C.W. The golden anniversary of the National Park Service. PARK MAINTEN. 19(8):30-33, Aug. 1966. Photos.

Beginning with Yellowstone Park in 1872, the National Park Service by 1966 managed 231 diverse areas with a total of 119 million visitors. The reasons for the large number of users are discussed.

60354 Hughes, Mrs. W.C. 1966 — 50th Anniversary of National Park Service. GARD. CLUB AMER. BULL. 54(6):58-63, Nov. 1966.

The progress achievements by the National Park Service during the past 50 years are high-lighted, along with its purposes, obligations, values, and planning objectives.

60355 Jasperson, R.W.
Is the National Park Service obliged to complete the North Shore Road?
LIV. WILDER.
30(92):31-35, Spring 1966. Map.

Mr. Jasperson, General Counsel of the Conservation Law Society of America, writes a letter to Mr. George Marshall in which he answers and discusses Mr. Marshall's questions about the July 30, 1943 agreement of the National Park Service to build a road north of Fontana Reservoir in the Great Smoky Mountains National Park.

60356 Little, (Arthur D.) Inc.
The impact of the proposed Redwood National
Park on the economy of Del Norte County. Report to the National Park Service, U.S. Department of the Interior.
Cambridge, Mass.
163p. 1966. Maps.

The Department of the Interior selects for intensive study a site in Del Norte County for a proposed Redwood National Park. This site includes both the existing Jedediah Smith and Del Norte Coast Redwoods State Parks as well as the area between them and the remainder of the Mill Creek watershed. To assess the possible impact of this park on the economy and on the people of Del Norte County, Arthur D. Little, Inc., prepared short and long-range estimates of the employment and income of the county's residents and analyzed the county's fiscal situation. Estimates are based on two assumptions: (a) there would be no park; (b) that there would be a park. A five-year period 1968-1973 is assumed for the basic development of the park plus an additional 10-year period (to 1983) to contrast the differences in the economy between the alternatives. Findings for the park indicate a general initial depression of employment and salaries in 1973 with an increase of employment and salaries in 1983. Employees in the special category of the lumber and wood pulp industry would decline in 1973 and 1983 if the park is established. The economic impact of outdoor recreation on Del Norte County is also noted.

60357 McCloskey, M.
Progress on redwoods.
SIERRA CLUB BULL.
51(8):20-22, Sept.-Oct. 1966. Map, photo.

No abstract.

60358 Moss, F.E. Why I'm for a department of natural resources. AMER. FOR. 72(3):16-17, 46, Mar. 1966. Photo.

Senator Moss states his views on a proposed consolidation of natural resource agencies within the Federal bureaucracy.

60359 Nash, H. Storm over the Grand Canyon. PARKS RECREAT. 1(6):496-500, June 1966. Photos.

The Bureau of Reclamation contends that if the Bridge Canyon and Marble Canyon Dams are built on the Colorado River, that "the recreation, fish and wildlife values accruing from these developments—aside from their other multi-purpose water benefits—are ample justification for their construction." Not in agreement with this view is that of the Bureau of Outdoor Recreation, which reports that less costly alternatives are available for expanding recreation facilities in the area. It states that it would be an inexcusable act of vandalism to mutilate the Grand Canyon, and the Marble Canyon Dam would flood the entire length of the Grand Canyon National Monument.

60360 The National Observer
Where now is the countryside? In Roberts, E.A.
Ed., America Outdoors
Silver Spring, Md., The National Observer
p. 11-16, 1966. Photos.

In our present affluent society more Americans are pursuing outdoor activities. With the establishment of the Outdoor Recreation Resources Review Commission in 1958, Congress promoted a wide range study of the American outdoors. In 1962 the Outdoor Recreation Resources Review Commission reported to Congress that recreation needs were not matched by available areas and facilities and that the problem would quickly get worse. More recreation facilities needed to be provided near great cities. Outdoor Recreation Resources Review Commission recommendations were far-reaching and the Bureau of Outdoor Recreation was established with responsibilities bearing of all aspects of the outdoors. Natural beauty, conservation, and recreation are of great concern to the Federal government.

60361 Olsen, R.K. 50 years of housekeeping. PARKS RECREAT. 1(8):648,650, Aug. 1966. Photos.

Maintenance is a vital part of the total National Park Service program, forty percent of the work force engaging in these activities. Roads, trails, buildings, campsites, picnic areas and outdoor interpretive programs require servicing. A modern maintenance program provides that visitors' stay in parks be as pleasant as possible—a challenge in the face of our crowded parks today.

60362 O'Reilly, J. For 60 days and 60 nights. SPORTS ILLUS. 25(7):22-23, Aug. 15, 1966. Photo.

The story of how the formerly drought-ridden Florida Everglades endured another plight as the floods came. Although State game department men worked around the clock to rescue as many as possible, thousands of deer drowned. Hundreds of millions of dollars had been spent on dikes, canals, pumps and floodgates, but the flood-control effort was made without the foresight to prevent such tragedies. If it had not been for the flood control works, part of Miami would have been flooded but more and more people demand that these projects be planned to protect wildlife and recreation areas as well.

60363 Pacific Southwest Inter-Agency Committee. Minutes of the 66-1 Meeting, San Diego, Calif., March 8-9, 1966. San Francisco, Calif. 126p. 1966. Illus.

Contains reports of the program session, business session of various government agencies in the area, subcommittee meetings, and texts of addresses. Department of the Interior includes work of Bureau of Reclamation for Regions 2, 3, and 4; Fish and Wildlife Service for Bureau of Sport Fisheries and Wildlife Southwest Region, Pacific Region; Bureau of Outdoor Recreation; National Park Service, Southwest Region, Western Region; Bureau of Land Management, and others.

60364 Richardson, E.R.
The Civilian Conservation Corps and the origins of the New Mexico State park system.
NATUR. RESOUR. J.
6(2):248-267, Apr. 1966. Ref.

The CCC played a major role in development of State parks in New Mexico. Although more recreation sites could have been developed in that period, the establishment of the State park system should be considered a relative success. That was a time of economic crisis and administrative conflicts. The investment by its builders, both administrators and CCC enrollees, is still paying dividends for New Mexico and many visitors to the State.

60365 Shanklin, J.F.

The Federal role from the standpoint of the Bureau of Outdoor Recreation. In Society of American Foresters.

Proceedings p. 139-140, 1966.

The role of the Bureau of Outdoor Recreation is to assure that the real voice of outdoor recreation may continue to be heard throughout the Nation. This "real voice" is described. The general policy guidelines promulgated by the Recreation Advisory Council, the three major responsibilities in outdoor recreation suggested by the Council, and the directions specified in the Organic Act of May 1963 are stated. How the Bureau of Outdoor Recreation is carrying out its designated responsibilities is then explained by John F. Shanklin, Assistant Director for Federal Coordination, Bureau of Outdoor Recreation. This explanation includes detailed description of the four major phases of the Nationwide Outdoor Recreation Plan. Mr. Shanklin concludes thatthrough the tools of a nationwide comprehensive plan backed up by more intensive statewide outdoor recreation plans, through encouraging recreation use of existing Federal areas, through judicious land acquisition, and by the promotion of greater public recreation use of private lands -the Federal Government is beginning to fulfill its responsibilities in the field of outdoor rec60366 Shields, J. T. Some observations on that special experimental teal season. CONSERV. VOL. 29(169): 38-44, Sept. -Oct. 1966. Illus.

No abstract.

60367 Snyder, A. P. Wilderness management — a growing challenge. J. FOREST. 64(7):441-446, July 1966. Photos.

The ranger discusses changes in the attitude of the public toward management of wilderness. He deals with the problems of trails, camping debris, campsites, recreation, stock forage, timber, administration, and limitations on use. He concludes that the wilderness recreationist usually is a thoughtful, educated, sincere wilderness lover, though sometimes he is not as cognizant of the whole conflicting drama of the wilds as professional people might desire.

60368 Spurr, S.H.
Rampart Dam: a costly gamble.
AUDUBON
68(3):173-179, May-June 1966. Photos.

A University of Michigan report shows this Yukon River project would be an economic blunder and a waterfowl catastrophe. Few proposals to exploit and destroy a great segment of this Nation's natural resources have aroused the spontaneous wrath of conservationists as has the Rampart Canyon Dam Project of the Corps of Engineers. The Corps proposes to build a dam 500 ft. high and 4,700 ft. long to provide electric power for anticipated development of Alaskan communities in the nebulous future. The lowest estimate of the cost is \$1.3 billion. The dam would flood the entire 100-mile-wide Yukon Flats, one of the continent's greatest wildfowl nesting areas. It is opposed by the U.S. Fish and Wildlife Service.

60369 Stratton, C.
Forest recreation. The National Park Service viewpoint. In Society of American Foresters. Proceedings, 1965.
Washington p. 133-134, 1966.

Growth in response to human needs, cooperation with all concerned, and innovations to achieve the new conservation will be objectives of the new National Park Service program that replaces Mission 66. It aims to preserve all areas of national significance which are worthy because of their scenery, historical associations, recreational opportunities, or scientific interest. The National Park Service will continue to improve the park facilities, but it will be geared to meet new changes and demands.

60370 Tilden, P. M. Oil shale and the public land. NAT. PARKS MAG. 40(227):2, Aug. 1966. Map.

The eventual management of public lands which are underlain by oil shale represents a conservation issue which has laid dormant a long time. Among the conservation questions are: the impact of strip mining of shale on the natural scene and on vegetation and wildlife; water pollution; soil erosion; the disposition of immense amounts of waste rocks and spent shale from processing plants; and potential air pollution from the distillation plants themselves.

60371 Titus, H.
Conservation! Rampart Dam and the perpetual engineers.
FIELD and STREAM
71(2): 34, 36, June 1966.

The Army Corps of Engineers plans to build the Rampart Dam in Alaska. The advisability of this project is a debatable issue which concerns Alaska's economy, resource conservation, and the principles and interest of the people.

60372 U.S. Bureau of Outdoor Recreation. Expanding America's outdoor recreation estate. Washington, Govt. Print. Off. 17p. 1966. Maps, illus.

On Jan. 1, 1965, the Land and Water Conservation Fund went into effect. The Nation had its first continuing source of money to use in providing local, State and Federal outdoor recreation opportunities. A year and a half after the Land and Water Conservation Fund program became effective, revenues from sale of permits and user fees, moorboat fuel taxes, and sale of surplus Federal real property had made \$109, 828,000 available for State needs on a matching basis and \$44,738,000 to acquire needed areas in national forests, national parks, and national wildlife refuges. This document shows in statistics and charts some of the accomplishments of the Land and Water Conservation Fund in land acquisition and development; use by activities and funding of same; and allocations to the National Park and Forest Services.

60373 U. S. Dept. of the Interior
The population challenge...what it means to
America.
Washington, Govt. Print. Off.
80p. 1966. Photos. (Conservation Yearbook
no. 2)

The 1966 Yearbook, annual report of the Department of the Interior, focuses on the population problem and its effect on natural and human resources. "Planning" is the key work to coping with this problem, says Secretary of the Interior Udall. He insists the United States must set an example of how to plan the best relationship of people to their environment, the man-to-land

ratio which will result in the highest and best development of the land and of free men. He reports on planning that is already operational and on planning for the future.

60374 Welker, L.J.; Evatz, E.R. Young men of Castle Valley. OUR PUBL. LANDS 15(5):25-27, Summer 1966. Photos.

In May 1964, the Office of Economic Opportunity recommended that the Castle Valley Job Corps Center be established near Price, Utah. The results have been favorable to the community and rewarding to the corpsmen. As a result, Castle Valley expanded 6 months after its inception. The Center is under the administration of the Bureau of Land Management and during the short term of its existence has contributed much towards erosion control, range improvements, landscaping, and recreation developments.

60375
Battle to modify boundaries of Olympic National Park flares again.
WEST. CONSERV. J.
23(1):36, Mar. 1966. Map.

Discusses pros and cons of the Overly proposal to transfer some 69,000 acres from Olympic National Park to Forest Service.

60376
Bridge Canyon Dam and the public's right to know.
SIERRA CLUB BULL.
51(5):13-14, May 1966. Photos.

Bridge Canyon Dam would back water all the way through Grand Canyon National Monument and 13 miles into Grand Canyon National Park. In so doing it would violate the principle of park preservation and jeopardize the entire National Park System. The Bridge Canyon Dam project has been deferred by the Bureau of the Budget, but the project is still kept alive by the Bureau of Reclamation, Department of the Interior. A dispatch sponsored by the Reader's Digest Conference calls upon the Secretary of the Interior to inform a meeting of national press representatives, conservationists and others on facts important to the controversy over the Grand Canyon Dams and their grave threat to the National Park System.

60377 Climbing regulations in Rocky Mountain Park. TRAIL TIMBERL. 568:70, Apr. 1966.

Rocky Mountain National Park has revised its climbing regulations and simplified its registration system.

60378
Dam on Snake River held up in courts.
WEST. CONSERV. J.
23(1):48-49, Mar. 1966. Map, Photos.

The High Mountain Sheep dam site controversy on the Snake River in Idaho is discussed. Also discusses the Nez Perce Dam.

60379 Federal aid for parks. PARK MAINTEN. 19(9):16-21, Sept. 1966.

Discusses federal aid grants, their availability and the methods for obtaining them. Various park aid programs, open space grants, and other park and recreation aids are described.

60380
Forestry in the Federal budget.
AMER. FOR.
72(3):48, Mar. 1966.

Lists 1967 budget itemized for the Forest Service, Department of the Interior, and TVA. Under Interior, it includes Bureau of Outdoor Recreation's Land and Water Conservation Fund.

60381
Mission 66, ten years of accomplishment.
PARK MAINTEN.
19(8):18, 20, 22, Aug. 1966.

The period 1956 - 1966, a decade of park expansion planned under Mission 66, saw accomplishments in outdoor recreational facilities and services which are enumerated and evaluated. A list of parks is included.

60382 175,000 acres of public lands sold or leased in BLM program. PARKS 6(8):4, Aug. 1966. Illus.

An explanation of how state, county and city park programs are helped by the BLM program of selling its unreserved public lands at \$2.50 an acre for public park and recreational use.

60383
Snake river project described.
WEST. CONSERV. J.
23(2):55, May-June, 1966.

Controversy rages over whether the Pacific Northwest Power Company can build a dam on the Snake River between Idaho and Oregon. The Secretary of the Interior claims that the Federal Government has rights over all others to utilize the disputed site someday. The Washington Public Power Supply System contends it has priority as a state agency over a private company to build the dam. Both claims were rejected by an appellate court.



60384 Storm King gets a reprieve. AMER. FOR. 72(2):5, Feb. 1966. Photo.

Legal opinion blocks construction until conservation values are properly considered. Judge Paul R. Hays of the U.S. Court of Appeals in New York postponed the Federal Power Commission's order to license a hydroelectric plant on Storm King Mountain beside the Hudson River, an area of beauty and historic meaning to Americans.

60385
Timber rustling in the nation's capital.
ATLANT. NATUR.
21(2):89-91, Apr.-June 1966. Photos.

The timber rustlers drove into a park in the heart of Washington, D. C., in a truck to remove a section of the trunk of one of the large trees along the case. They found another desirable tree on the other side of the park and cut it down. Their prime targets are black walnut, black cherry, birdseye maple, yellow birch, and yellow poplar (tuliptree). In dealing with this problem, first alert the proper officials of any suspicious activity.

60386
Wilderness status sought for Mt. Baldy area.
ARIZ. WILDL. SPORTS.
37(9):22-23, Sept. 1966. Map, photos.

The Forest Service has recommended that the Mount Baldy Primitive Area, with minor boundary changes, be added to the National Wilderness Preservation System as the Mount Baldy Wilderness. This article provides a description of the region, why wilderness status would be advantageous, and the exact Forest Service proposal.

60387 Brandborg, S.M.
Setting new patterns under a landmark law.
LIV. WILDER.
30(92):40-53, Spring 1966. Photos, tables.

This article discusses the work that has been done by the Departments of the Interior and Agriculture and their respective wilderness agencies in developing the regulations, the guide lines, and the tools to enforce the Wilderness Act of 1964. Wilderness lands under the jurisdiction of these agencies are reviewed and recommended for placement in the National Wilderness Preservation System by September 1967.

60388 Craig, J.B. A look at the North Cascades. AMER, FOR. 72(3):12-15,47, Mar. 1966. Photos.

Recommendations of the Agriculture-Interior study team with Edward C. Crafts, Director, Bureau of Outdoor Recreation, as chairman, are given as well as reports of differences that make this quite a disputed potential national park.

60389 Dominy, F.E.
Multiple-purpose reclamation projects provide public recreation. In Society of American
Foresters. Proceedings, 1965.
Washington
p. 136-139, 1966.

Recreation benefits have been included in Bureau of Reclamation project planning in recent years. The Federal Water Project Recreation Act gives this Bureau limited authority to develop recreation opportunities on existing projects. A very large part of the Bureau's recreation development is undertaken in cooperation with other Federal agencies, and with State and local interests; it intends to increase its efforts in recreation development.

60390 Freeman, O.; Udall, S.L. North Cascades National Park officially proposed. SIERRA CLUB BULL. 51(2):3, Feb. 1966.

A joint statement by the Secretaries of Agriculture and Interior on the report of the North Cascades Study Team mentions 21 recommendations, on most of which there was unanimity. It was agreed to: establish four new wilderness areas, enlarge Glacier Peak Wilderness Area and Mt. Rainier National Park, provide coordinated management between national park and forest land, declassify three limited areas for lumbering, scenic roads, and trails, and designate portions of the Skagit River as a wild river. Disagreement on the national forest area north of Cascade Pass will be resolved in one of three ways under consideration. These alternatives are described.

60391 Holweg, A.W.
The push for beauty.
CONSERVATIONIST
20(5):2-5, Apr.-May 1966. Photos.

A review of what is being done now about beautification and what individuals, States, and the Federal government can do to conserve beauty out-of-doors.

60392 Jester, C. N., Jr.
Nationwide system of trails study.
APPALACH. TRAILW. NEWS
27(1):10-12, Jan. 1966.

To implement the President's request in the Natural Beauty Message to Congress of Feb. 8, 1965, the Secretary of the Interior, designated to work with colleagues within the Federal government and State and local leaders to promote a cooperative program to encourage a national system of trails, appointed a Steering Committee composed of top officials of Bureau of Outdoor Recreation, Forest Service, National Park Service, and Bureau of Land Management. The Steering Committee distinguished three types of trails to be considered in the course of the study: trunk trails, specific area trails, and regional and local trails. Agency study assignments are given. Metropolitan area trail needs are discussed.



60393 Lerner, L.J.
Development of recreational facilities. In Western Agricultural Economics Research Council.
Committee on the Economics of Water Resources
Development. Water resources and development
of the West.
Pullman, Wash., Wash. State Univ.
p. 53-58, 1966. /Report no. 13./

Considerations of economic efficiency in recreation development policies are discussed. Two principal criteria of economic efficiency in the development of recreation facilities require: (1) the development of techniques for estimating the demand for recreation facilities; and (2) the development of techniques for estimating recreational benefits. The fee structure for public and private participation is analyzed. Efficient local operation of parks without State or Federal participation includes absence of large benefits outside project boundaries. Local operation may be efficient but competition may exist with other recreation developments with statewide distribution. States have an important role in developing plans which take into account potentialities of Federal, local, and private facilities, as well as facilities involving direct State participation. Conditions under which Federal participation is required for efficient operation include occurrence of substantial benefits in other States or other benefits of nationwide significance, and coordination with other purposes of Federal projects. The Bureau of Outdoor Recreation is coordinating activities of various Federal agencies and various States.

60394 McBroom, J.T. Fish and wildlife coordination in the highway program. U.S. DEPT. OF THE INTERIOR. NEWS RELEASE 8p. Sept. 21, 1966.

The Assistant Director of the Bureau of Sport Fisheries and Wildlife addressed the Region III meeting of the American Association of State Highway Officials, Operating Committee on Design, Oklahoma City. The State conservation agencies and the Bureau of Sport Fisheries and Wildlife are working with State highway departments and the Bureau of Public Roads so that fish and wildlife habitats are not needlessly destroyed and maximum benefits can be obtained from the highway program. Optimum development, not least cost-single purpose development, should be the criteria of highway designers and builders and the natural resources agencies.

60395 Randall, C. E. The North Cascades study report. J. FOREST. 64(5):307-310, May 1966.

A detailed summary of the findings and recommendations contained in the North Cascades study team's 200-page report. 60396 Smith, C.J. A Beacon of beauty: the Nation's Capital beckons to all National Congress delegates. PARKS RECREAT. 1(8):636-637, 658, 660, Aug. 1966. Illus.

The author reviews the past and present efforts toward making the Nation's capital a "national showcase" of beauty to provide a stimulus to visitors from every part of the country so that they will take up the challenge of improving and beautifying our urban areas and countryside.

60397 Udall, S. L. Hour of decision.
J. SOIL WAT. CONSERV.
21(2):42,81, Mar.-Apr.1966. Photo.

The significance of the Public Land Law Review Commission's assignment in recommending best future uses for public lands and ways to attain these uses is discussed. The Secretary of the Interior pleads for informed assistance to bring about sound decisions as to which tracts should be disposed of in the public interest and which tracts should be retained in government ownership under multiple use management.

60398 U. S. Federal Interdepartmental Task Force on the Potomac. Potomac Interim Report to the President. Washington, Govt. Print. Off. 61p. 1966. Photos, map.

A long-range plan for the Potomac River Basin calls for some short-range procedures. Recommendations are made concerning water quality and sedimentation, water supply, recreation and landscape preservation. Land areas which have value for incorporation into the Potomac Basin scheme are described, and plans for parkways and trails are discussed.

60399 U. S. Federal Interdepartmental Task Force on the Potomac. Potomac Valley. A model of scenic and recreational values. Washington, Govt. Print. Off. 80p. 1966. Maps, photos.

The wide range of opportunities to protect and enhance scenic and recreation values of the Potomac River Valley is described in a preliminary report designed to acquaint Potomac area governments and citizens with various possibilities for conservation and planning. Potential parks, recreation and wildlife areas, historic landmarks, archeologic sites, geologic formation, parkways, trails and scenic roads are identified.

60400 U.S. National Park Service Great Smoky Mountains National Park Wilderness, LIV. WILDER. 30(92):11-18, Spring 1966.

Two public hearings, one in Gatlinburg, Tennessee, June 13,1966, and the other in Bryson



City, North Carolina, June 15, 1966, were held to discuss proposals for establishment of wilderness areas within the Great Smoky Mountains National Park. The data presented on these proposals are: (1) geographical, (2) management criteria, (3) management principles and administrative policies for natural areas of the National Park System, and (4) description of wilderness proposals.

60401 U.S. North Cascades Study Team The North Cascades. Washington, Govt. Print. Off. 190p. 1966. Ref., maps, illus, photos.

The report is a result of a 2-1/2 year-study to determine how Federal lands of the North Cascade Mountains in the State of Washington can best serve the public interest. All resource potentials of the area, as well as the management and administration, are explored. The 6.3 million acres under study embrace all the national forest land north of the White Pass road in Washington: namely, the Mt. Baker, Wenatchee, Snoqualmie, and portions of the Okanogan and Gifford Pinchot National Forests. Also included is Mount Rainier National Park. Twenty-one recommendations are made and those in which the team members are in agreement would establish four new wilderness areas, enlarge Glacier Peak Wilderness Area, add to Mt. Rainier National Park, provide coordinated management between national park and national forest lands, declassify three Forest Service areas for commercial use, provide for a system of scenic roads and trails, and designate portions of the Skagit River as a wild river. Principal recommendation in disagreement is the establishment of a North Cascades National Park.

60402 Whitman, L. Restoring George Washington's river. NAT. WILDE. 4(5):5-9, Aug-Sep. 1966. Photos.

The importance of the Potomac River and its water pollution problems are discussed. The Federal Interdepartmental Task Force on the Potomac and the Potomac River Basin Advisory Council established the Potomac Valley Park project to study the reclamation of the River. With Federal, State and local organizations cooperating, the Potomac can be restored.

60403 Destruction of Grand Canyon National Park. PRAIRIE CLUB BULL. (554):4,5, Mar. 1966

The Corps of Engineers and the Bureau of Reclamation have formed the Colorado River Water Development program. The Central Arizona Project and the Southwest Water Plan, a part of this program, proposes to construct two lower dams, Bridge Canyon and Marble Canyon Dams, for future water needs of Arizona and Southern California. Conservationists object to these dams on the grounds that (1) the dams are hydroelectric power devices which produce electricity and do not increase available water;

(2) new methods of atomic power should be explored; (3) natural underground reservoirs be considered, rather than the huge outdoor reservoirs, in order to eliminate evaporation which tends to raise the water table in drought areas and also makes the water more saline; and (4) each dam makes the water used downstream harder to use for growing.

60404
Federal-State agencies unite on Eel River development.
WEST. WAT. NEWS
18(9):1-2, Sept. 1966.

The California State-Federal Interagency Group adoped a joint working program to formulate a single plan of water resources development for the Eel River Basin. Here are the 4-agency coordinated preliminary plans. An interim report is planned for January 1967 which will show the plans as of that point and the agreement on division of work responsibilities.

60405 A Great Lakes River Basin Commission. AMER. CITY 81(7):34, July 1966.

The creation of a Great Lakes River Basin Commission under Title II of the Water Resources Planning Act of 1965 has been unanimously recommended to President Johnson by the Federal Water Resources Council. The Commission would conduct water and related land-resource planning within those portions of the eight Great Lakes States drained by the St. Lawrence River system, including the Great Lakes, their tributaries, and the tributaries of the St. Lawrence River located within the United States.

60406 Adams, T. Water. FLA. NATUR. 39(2):45-46, Apr. 1966.

An excerpt from a Water Resources Development Program conference address that emphasizes the importance of conserving water resources of Florida and outlines a master plan for this purpose.

60407 Airis, T. R. How State highway departments are meeting the beautification challenge. A better roads symposium - Part 1: District of Columbia. BET. ROADS 36(4):25-26, Apr. 1966. Photos.

The Director of the D. C. Department of Highways and Traffic reports on its program of beautification. He gives credit to the enactment of Public Law 89-117, Urban Beautification and Improvement; the Highway Beautification Act; and to the work of the Society for a More Beautiful National Capital, Inc., the Maryland State Roads Commission, the Virginia Department of Highways, and the National Park Service.

60408 Alabama. State Planning and Industrial Development Board. Community Planning Division.
Outdoor recreation in Alabama.
Montgomery.
112p. 1966.

No abstract.

60409 Alexander, D. B. Close call for Lake Tahoe. Nevada fights to preserve wildlands for new state park. PARKS RECREAT. 1(2):146-148, Feb. 1966. Photos.

Nevada is moving strongly in its efforts to preserve some 13,500 acres at Lake Tahoe. Plans for development of Lake Tahoe include preserving and protecting its scenic and natural atmosphere, while at the same time building campgrounds and areas for day use. Passage of the Land & Water Conservation Fund Act should assure completion of the Lake Tahoe project.

60410 Brewer, M. F.; Bordner, B. Organizational alternatives for recreational resources management: An analysis of state agencies.

NATUR. RESOUR. J. 6(4):560-579, Oct. 1966.

The authors identify the specific activities related to recreation resource management in State government and the organizational arrangements through which these activities take place. Various types of State organizational structures for handling the recreation resource management functions are evaluated.

60411 Charles, G. The state vs. the predator. AUDUBON 68(6): 436-442, Nov.-Dec. 1966.

Predators are being uselessly exterminated. Many western States have joined predator control programs in cooperation with the Bureau of Sport Fisheries and Wildlife. A program undertaken by the South Dakota Dept. of Game, Fish and Parks is evidence of the public pressure for extermination, and the dire ecological results. Sound biological principles do not justify that Federal funds be used for this conservation mockery. Conservation education programs are needed to enlighten those who believe that any carnivorous animal is a villain of the wildlife world — and that such species as foxes, coyotes, bobcats, badgers, racoons, and such should be exterminated.

60412 Chase, M. J.
How State highway departments are meeting the beautification challenge. A better roads symposium - Part 1. New Hampshire.
BET. ROADS
36(4):31-32, April 1966. Photos.

At the time of the passage of the Highway Beautification Act, New Hampshire already had

more than 200 roadside parks. Increased emphasis on highway beautification and roadside development will continue, with safety roadside rest areas being designed as maintenance-free as possible.

60413 Cole, B.L. Eastern Washington's many natural resources. WEST. CONSERV. J. 23(1):28-29, 34, Mar. 1966. Photos.

Discusses the many and varied programs related to the management of the many natural resources of eastern Washington. Six of the 14 priority recreation projects of the State are in the Inland Empire region.

60414 Decker, H. V., Jr. Managing 1,000,000 acres. CONSERVATIONIST 20(6):32-33, 38, June-July 1966.

There are nearly a million acres of State-owned forest lands outside New York's Forest Preserve. Reforestation areas or State forests are in 400 separate units devoted to the production and sale of timber and other forest products, watershed protection, wildlife and public recreation. The acquisition and reforestation of poor farm lands started in 1929 with the passage of the "Hewitt Amendment" to the Constitution. The many values and benefits as well as costs of this program are discussed.

60415 Ellis, S.P. The making of a State park. MD. CONSERV. 43(3):2-6, June 1966. Photos.

No abstract.

60416 Georgia. Planning Division. Outdoor Recreation Section.
Georgia comprehensive statewide outdoor recreation plan.
Atlanta
145p. 1966.

No abstract.

60417
Hudson River Valley Commission
The Hudson.
100 p. 1966. Maps, illus., photos.

The report consists of a digest of all the studies carried out by the Commission's staff, consultants and cooperating State agencies pertaining to the problems and needs of the Hudson River Corridor. Recommended actions to meet the needs are presented. Among the aspects of the region studied and evaluated were: population, recreation, historic sites, tourism, agriculture, residential patterns, transportation, commerce, industry and pollution. Recommends establishment of a permanent Hudson River Valley Commission to spur advance planning and to coordinate programs.

60418 Illinois. Dept. of Business and Economic Development.
Outdoor recreation in Illinois.
Springfield
184p. 1966. Illus.

No abstract.

60419 Iowa. State Conservation Commission. Outdoor recreation in Iowa. Des Moines 131p. 1966. Illus.

No abstract.

60420 Jones, F. L.
A State parks administrator's viewpoint of the place of fish and wildlife in the national outdoor recreation program. In International Association of Game, Fish and Conservation Commissioners. Proceedings, 55th convention, 1965. Portland, Oreg. p. 89-91, 1966.

There is room for improvement in the interrelationship of wildlife management and recreation management. Fees for hunting and fishing
have increased the management of these sports;
however, the public's wildlife interest within
State parks is primarily aesthetic. Thought
should be given to controlled hunting of overpopulated wildlife species in State parks. The
Scientific Reserves should be maintained as areas
of preservation where pure biotic provinces are
kept intact for research and the public's enjoyment of the natural scene.

60421 Kelley, C. D.
Conservation leader explains hunting law on unantlered deer.
ALA. CONSERV.
36(5):3, Aug.-Sept. 1966. Photo.

State hunting regulations about unantlered deer are stated and interpreted by the Alabama Director of Conservation.

60422 Mangold, R. E. How many deer?
N. J. OUTD.
17(1):8-13, July 1966. Photos, tables.

To answer this question and obtain sound data for deer management practices, the New Jersey Division of Fish and Game conducted a deer census by helicopter. This account reports their methods and provides conclusions and recommendations.

60423 Metzler, D. F. Planning for State water resources administration.
AMER. WATER WORKS ASS. J. 58(7):793-800, July 1966. Ref.

In the next ten years the most critical water resources decisions will be made in the state capitols. Four basic responsibilities exist for

any State determined to implement a water development and management program. The identification of State needs and the determination of what Federal laws and assistance can help a specific State require planning. Organizing to prepare policies and plans to meet these needs requires more than setting up a particular agency. It requires financial investment, a legal framework, a program of public education, focusing responsibility for policy development, and achieving a unified program to meet the needs.

60424 North Carolina. State Planning Task Force.
An initial outdoor recreation plan for North Carolina.
Raleigh, N.C.
92p. 1966.

No abstract.

60425 Price, R. C. Statement of the California Department of Water Resources. SHORE BEACH 34(1):22-31, Apr. 1966. Map, illus., photos.

This report on the preservation and orderly development of California's vast shoreline areas was presented to the subcommittee on Conservation of the Assembly Committee on Natural Resources, Planning and Public Works.

60426 Reid, L. Secretary Udall calls Maine's Allagash bond approval a "natural resource milestone."
U.S. DEPT. OF THE INTERIOR NEWS RELEASE 4 p. Nov. 11, 1966.

A \$1-1/2 million bond issue to establish the Allagash Wilderness Waterway was approved by Maine voters on November 8. This matches the same amount from the Land and Water Conservation Fund promised earlier by Secretary of the Interior Udall. Reviewing the history of the Allagash project, the Interior Dept. Secretary praised the Maine vote and the "creative Federal-State conservation partnership" to save the Allagash River and wilderness region.

60427 Saake, A. C. Recreation is big in Hawaii. JOHPER 37(9):31-33, Nov.-Dec. 1966. Photos, tables.

Dr. Saake, a professor at the University of Hawaii, reports on outdoor recreation in the Aloha State. He gives information about the public, private and commercial organizations that support recreation in Hawaii, especially the Recreation Department—its staff, operating budget, capital improvements budget, number of recreation areas administered, and programs of activities offered. All facets of the recreation field are covered and all ages—from the very young to the very old—are served. He describes the parks, volcanoes, and other natural resources of the Islands which contribute to the enjoyment of outdoor recreation.

60428 South Dakota. South Dakota Industrial Development Expansion Agency. State of South Dakota comprehensive recreation plan. Preliminary report. Pierre 70p. 1966.

No abstract.

60430 Train, R. E. The Storm King opinion. AMER. FOR. 72(3):10-11, Mar. 1966.

The landmark decision for conservationists and a hard-earned victory for the Scenic Hudson Preservation Conference occurred on December 30, 1965. The U.S. Second Circuit Court of Appeals in New York reversed a Federal Power Commission decision to license a hydroelectric project on Storm King Mountain. As a legal precedent, it has important implications for conservation of natural beauty and outdoor recreation space elewhere.

60431 Utah. Dept. of Fish and Game. Outdoor recreation for Utah. An initial plan 1965-1975. Salt Lake City 169p. 1966.

No abstract.

60432 Wyoming. State Land and Water Conservation Commission.
Wyoming public outdoor recreation comprehensive plan.
Cheyenne
lv. 1966. Illus.

No abstract.

60433 Dedicated to liberty. PARKS RECREAT. 1(8):643, Aug. 1966.

Two miles of Jersey City's waterfront along upper New York Bay are being developed into Liberty State Park which will provide varied cultural opportunities and recreational facilities for the people of Jersey City, and the entire New York metropolitan area.

60434
Florida's fish management areas.
FLA. WILDL.
20(4): 34-36, Sept. 1966. Map.

General regulations applying to fish management areas are provided, as well as specific regulations, for various lakes and rivers of the State. 60435
Florida's wildlife management areas.
FLA. WILDL.
20(4):16-25, Sept. 1966. Map, tables.

There are 33 Florida wildlife management areas open to hunting during the 1966-67 season. Each area is described and keyed to a Florida map. Information on open seasons, legal take for all game, and regulations are provided on each area. Notes on permits, hunter check-in, guns and dogs are also provided.

60436 Here and there. HOWDY'S HAPPEN. 6(8):1, Sept. 1966.

Reports from Washington State agencies are summarized, particularly regarding vandalism and littering. Tourists using State highways, campgrounds and forests in the summer dropped litter like pine trees spreading needles. Most of the reports showed a rising cost of operation due to litter-bugs and vandals. One commissioner called for an educational program similar to Smokey the Bear to handle these problems.

60437
More parks in sight for northern Virginia.
PARK MAINTEN.
19(10):72, Oct. 1966.

Virginia's 1966 General Assembly has voted appropriations for a giant new program to conserve open spaces—a program that could pump an extra \$2 million into Northern Virginia parks over the next two years.

60438 Oregon bounces back from blow dealt by floods. BET. ROADS 36(2):22-23, Feb. 1966. Photos.

An article that points out the damage costs to Oregon from the devastating floods of late December 1964 and January 1965. It relates State expenditures and activities in repairing flood damage, building a bridge, and in improving highway and state parks. Visitor statistics are provided.

60439
Pennsylvania seasons and bag limits 1966-1967.
PA. GAME NEWS
37(8):42-45, Aug. 1966. Maps, photos, tables.

A presentation of the seasons, bag limits, and special regulations for small game, big game, and furbearers, as established by the Pennsylvania Game Commission.

60440
Romney asks for less pollution, more funds for fish, parks and recreation.
MICH. OUT-OF-DOORS
17(2):5, Feb. 1966.

In his State of the State Message of 1966, Governor Romney expresses his principal goals for

the current year. Water resource research and planning are requested to combat waste and promote pollution control; an increase in funds for parks and recreation systems is recommended.

60441 Ungainly dredges change Ohio lakes as parks develop. PARK MAINTEN. 19(5):40-42, May 1966. Map, photos.

Ohio's five "State Lakes", originally part of a canal network, are maintained as important assets in the park system by modern dredging equipment.

60442 University of Iowa Conference aids local, county park development. PARK MAINTEN. 19(6):36-38, June 1966. Photos.

The University of Iowa sponsors a conference on "Community Development for Parks and Recreation." Mentioned is a panel on "Federal, State and Local Relationships for Parks and Recreation." Requirements for participation in the LAWCON program and for local participation are outlined.

60443 Cain, S. A.
Possibilities for conservation action by local
government. Speech of Dr. Stanley A. Cain,
Assistant Secretary for Fish and Wildlife and
Parks, Dept. of the Interior, Bemis Lecture
Series, Lincoln, Mass., November 18, 1966.
U.S. DEPT. OF THE INTERIOR NEWS RELEASE
7p. 1966.

Quoting Thoreau's words—"a suitable back-ground for our lives", Dr. Cain sums up the goal for environmental quality and natural beauty. He defines conservation as a social philosophy that takes its meaning from action. Some difficulties arise, he maintains, because conservation actions do involve qualitative goals and judgments that seem to defy measurement, as well as the quantifiable. In making a plea for action, particularly local action, Dr. Cain tells what citizens and local governments can do.

60444 Frederickson, W., Jr. Public seashores: their administration. PARKS RECREAT. 1(8):638-640, Aug. 1966. Photos.

The manager of the Los Angeles City Department of Recreation and Parks describes Los Angeles' public beaches, their administration, facilities, programs and activities, as an example of a seashore area pre ved for public recreation.

60445 Groth, H. W. Metropolitan Cleveland's "emerald necklace." TRENDS PARKS RECREAT. 3(2):11-13, Apr. 1966. Map, photos.

Development of park lands in Cleveland has been limited to the basic facilities for public use.

The city's Regional Planning Commission has been employed to determine future needs and the Board of Park Commissioners acquires the land. The objectives of the Park District are to preserve and conserve the natural resources and natural areas with facilities compatible with the various areas. Museums, group camps, golf courses, trails, lakes, picnic areas are within easy access by the city's parkway system.

60446 Hewitt, J. P. Unique answer to urban sprawl problem. PARKS RECREAT. 1(6):491-492, June 1966. Photos.

The organization, funding, and structure of the bi-county planning commission of Montgomery and Prince Georges counties are described. Two major objectives of the Commission's program are meeting current recreation needs through a continuing development program, and acquiring the park lands that will be needed to take care of the area's estimated 2 million population in the year 2000.

60447 Jackson, R. L.; Nelson, I. H. Kansas City, Mo., pollution control is underway. Big Blue River complex attacks problems. WAT. WASTES ENG. 3(9):68-70, Sept. 1966. Illus., photos, tables.

A detailed, technical description of the Kansas City program and the facilities of the Big Blue River complex.

60448 Kendall, W.H. Fla. counties join forces in pollution fight. NAT. FISHER. 47(6):15-b, Sept. 1966.

No abstract.

60449 Lawrence, R. E. Sludge processing to abate river pollution. Kansas City is completing major works to protect Missouri River. WAT. WASTES ENG. 3(9):64-67, Sept. 1966. Map, photos, tables.

Kansas City is completing a major project of interceptor sewers, pumping stations, and treatment facilities to eliminate the discharge of untreated wastewater into the Missouri River. This article describes the sludge handling facilities and other design features of both the West Side and Blue River complexes.

60450 Robinson, K.
Potentials for rural recreation.
FARM POLICY FORUM
18(1):29-33, 1965-66.

To make their region more attractive to industry, five Iowa towns joined together to build a community recreation center. It did bring in industry. Other similar community recreation projects are described, as well as farm vacation enterprises and private lake developments.

60451 Stern, J. F.
The legal responsibility of cities, States for pool accidents.
SWIM. POOL AGE
40(4):38, 46, 54-56, 58, Apr. 1966.

This article, by a businessman-lawyer, discusses the variation in the liability law from State to State. In most jurisdictions, the author points out, a municipal corporation is held immune from liability arising out of its operation of swimming pools and other bathing facilities which are available to the public without charge or for a nominal fee insufficient to yield a profit. Most States impose liability where pools are operated by municipalities as profit-making ventures, and a growing number of States are beginning to recognize that a municipality will be liable for negligence in the operation of pools or bathing facilities without regard to the profitability of the operation.

60452 Waldo, B. Lee Park. Fast growing Texas city keeps up recreation pace. SWIM. POOL AGE 40(6):20-21, June 1966. Photos.

Irving, Texas, is a fast growing Texas city and the site of Lee Park. The cost to the city of building this park and a full description of all its facilities and activities, are provided here.

60453
Bergen County tells progress of recent park projects.
PARK MAINTEN.
19(8):37, Aug. 1966.

Description of three new park facilities and progress reports on three long-term projects for Bergen County, N.J., are provided. A new refuse collection system is mentioned.

60454 Local cooperation means strength. PARKS RECREAT. 1(11):897, Nov. 1966.

Good local interagency cooperation is illustrated by the way in which four separate agencies in Colorado work together. Their working together results in better facilities at a lower tax output for the people in the North Jeffco Metropolitan Recreation and Park District in Arvada, Colorado. The other three agencies involved are the Jefferson County School District and Jefferson County and the City of Arvada, Colorado.

60455 American Camping Association Annual Report 1965. CAMP. MAG. 38(4):8-11, Apr. 1966. Illus.

The report covers the major developments and programs of the Association during 1965. It

presents information on cooperative relationships, civil rights, finances, long range plans, publications, standards and membership.

60456 Bombay, J. Safety as we see it. AMER. WHITE WAT. 11(3):22-23, Winter 1965/66.

American White Water Affiliation Safety Chairman admonishes expert canoeists to observe safety practices so that restrictive State regulations are not forced upon all members and boating enthusiasts.

60457 Bovey, M.K. What TU is, does. TROUT 7(3):5,12, May-June 1966. No abstract.

60458 Brown, W. For good conservation. FISH GAME 19(3-4):8-9, Apr. 1966. Photos.

All types of sportsmen could do much more for good conservation. Fishermen and hunters should not be the only ones. People who just enjoy walking in unspoiled natural areas should be concerned, too, in supporting efforts to protect the outdoors. Education and finance are needed if Canadians are to continue to enjoy outdoor scenes. Some outstanding conservation leaders of Alberta are named in this article as well as active conservation associations of the region.

60459 Buchheister, C.W. In a great tradition we will stand up and be counted. FLA. NATUR. 39(3):95-98, July 1966. Photos.

An address to the Florida Audubon Society by the National Society President. His appeal to Audubon members is that unless we care so little as to let the beauty and the grandeur and the resource richness of America go down the drain, we must stand up and be counted for conservation.

60460 Buchheister, C. H. The President reports. AUDUBON 68(6):392, Nov. Dec. 1966.

Anthony Wayne Smith, president of the National Parks Association, eloquently urges the concept of regional planning to protect our national parks from overcrowding and overdevelopment. This means the provision of intelligently planned facilities around and outside the parks, not within them. The National Park Service supplies these facilities within park boundaries but overcrowded conditions would defeat the purpose of providing a bit of solitude for park visitors.

60461 Buchheister, C. W.
The President reports: Allagash victory appears near.
AUDUBON
68(4):213, July-Aug. 1966.

A few paragraphs of praise from the Audubon Society's President for the Governor of Maine, the State legislature, Senator Muskie, the Secretary of the Interior, and local conservationists for their important roles in achieving the Federal-State plan to protect the Allagash River. All that is lacking for the Maine voters to approve the State bond issue. Total victory is very near.

60462 Buchheister, C.W.
The President reports: Conservation is good business.
AUDUBON
68(4):212-213, July-Aug. 1966.

Avenues of potential cooperation have been explored at meetings between representatives of the American Forest Products Industries, Inc., and the National Audubon Society. Some of these are the location and protection of bald eagle nests on AFPI affiliate lands (67 million acres); the inclusion, in all AFPI recreation handouts, of a statement on the need to protect all birds of prey; and a continuous broadening of policies and literature on wildlife management to include non-game species.

60463 Buchheister, C.W.
The President reports: New NAS Sanctuary.
AUDUBON
68(4):212, July-Aug. 1966. Photos.

The new 1600-acre National Audubon Society sanctuary, located in Rookery Bay south of Naples, Florida, is an ideal food-providing area for egrets, herons, and other long-legged wading birds. It will be named for Mr. and Mrs. Lester Norris, leaders in conservation efforts.

60464 Bull, L.; Timmons, J. F.
Outdoor recreation enterprises: a new source of income in Iowa.
IOWA FARM SCIENCE
21(4):11-14, Oct. 1966. Illus., tables.

As the population increases and more people find themselves with free time, some farmers are starting enterprises for recreation at a fee. Some of these private enterprises are described—campgrounds, fishing waters, hunting areas, riding stables, vacation farms, shooting preserves, field sports areas, winter sports areas, and water sports areas.

60465 Chilton Research Services, Philadelphia, Pa.
Private sector study of outdoor recreation enterprises.
Philadelphia
10 v. 1966. Tables.

This study was made in 1965 by Chilton Research Services under contract with the Bureau

of Outdoor Recreation. It presents detailed findings on the private outdoor recreation enterprises in the United States by Census regions. Highlighting the findings, there were about 131,800 of the enterprises, the greatest number of which (20%) were located in the East North Central region.

60466 Christensen, O. A. Conservationists in action. PARK MAINTEN. 19(5):30, 32, 34-35, May 1966.

A work crew from Bloomington, Minnesota's Junior Chamber of Commerce assists in maintenance of the city's Central Park. Budgets, achievements and prospects from 1964 — 1966 are provided.

60467 Craig, J. B. Guarding our outdoor heritage. AMER. FOR. 72(12):14-17, 36-38, Dec. 1966. Photos.

A walk into history with the American Forestry Association, it might be called, since the locale for their 91st annual meeting was Colonial Williamsburg. The program target was parks—particularly national parks. The occasion was the Golden Anniversary of the National Park Service. Excerpts from the remarks of the speakers are included here, carrying out the meeting theme of "Guarding Our Outdoor Heritage".

60468 Edgington, Mrs. O. S. Roadside development. NAT. GARDEN. 37(7-8):67-68, July-Aug. 1966.

Four suggestions are presented as to how garden club members can help roadside beautification.

60469 Gooch, B.
The Virginia Wildlife Federation.
VA. WILDL.
27(4):8-10, Apr. 1966. Photos.

As a result of concern of the effect the growing interest in hunting and fishing would have on wild-life resources, the Wildlife Federation was established and assumed leadership in development of Virginia's outdoor policy. The broad and ambitious objectives of the Federation are listed.

60470 Cross, J. C. Discover America. TRAVEL TRADE. 74(44):144, 146, 148, Nov. 1, 1966.

The National Association of Travel Organizations (NATO) has planned a series of studies for a State travel survey. There is an increase in travel development budgets in all States in 1966 over 1965. A study has been made in each State of funds budgeted for travel and of the recreational planning for tourists by public and private enterprise.

60471 Hart, D. Quail farming in the coverts. VA. WILDL. 27(4):4-5, Apr. 1966. Photos.

Shooting preserve operators, farmers and sportsmen are showing a lively interest in ways of augmenting natural annual crops of game birds in order that more birds may be bagged during the hunting season. Techniques of system operations are outlined.

60472 House, W.
Recreational potential on private grazing lands.
In International Association of Game, Fish and
Conservation Commissioners. Proceedings, 1966.
Kansas City, Mo.
p. 133-137, 1966.

Ranchers face a number of problems and possibilities in managing part of their range lands for recreation use. This speaker discusses some of them.

60473 Huyck, D. B. The honeymoon year. AMER. FOR. 72(12):22-25, 44, Dec. 1966. Photos.

The Congress for Recreation and Parks was held recently in Washington, D. C. It marked the first gathering of members of the National Recreation and Park Association, formed by merger on January 1, 1966. The Association intends to be a vigorous voice in "conservation for recreation" and urges action to prevent an Ugly America. Some of the speeches are quoted in part or summarized.

60474 Ketchledge, E. H.
Litter on Marcy.
CONSERVATIONIST
21(1):18-21, Aug. -Sept. 1966. Photos.

To counteract the tendency for growing litter in public recreation areas, a new tradition in woods manners is now evolving. A variety of conservation organizations are showing the way to handle the litter problem. The Adirondack Mountain Club has been active in maintaining clean trailsides. Of special note is the clean-up campaign on Mt. Marcy.

60475 Kiel, E. R. Maryland builders lead conservation drive. IZAAK WALTON MAG. 31(9):13, Oct. 1966. Photos.

Maryland builders in cooperation with the Soil Conservation Service are taking steps to prevent sediment damage to high-value watersheds in the Washington, D. C. area. The five major practices in urban conservation are: (1) quick means of replacing plant cover, such as seeding; (2) saving as much natural vegetation as possible; (3) development in close harmony with natural topography; (4) drainage patterns in larger projects; (5) installation of temporary sediment basins where other measures do not achieve controls.

60476 League of Women Voters Education Fund The big water fight. Battleboro, Vt., Stephen Greene Press. 246p. 1966. Ref., maps, photos, tables.

"The trials and triumphs in citizen action on problems of supply, pollution, floods and planning across the U.S." are described. A broad strategy is outlined involving basin planning and group action. Provided as a guide to tactics are: a brief summary of tools and techniques for community action, and a check list for effective decision making. One appendix provides information on organizations and federal departments, divisions, and interdepartmental commissions concerned with water or related land resources; a glossary of terms is included in another appendix.

60477 McKee, R. John Muir—a noble earthquake. COLO. OUTD. 15(6):24-26, Nov. -Dec. 1966.

This narrative traces the early history of John Muir's efforts to have parks and natural areas set aside in the United States.

60478 McKeon, Mrs. D. M. Conservation. GARD. CLUB AMER. BULL. 54(1):41-43, Jan. 1966.

This article discusses the dangers inherent in pesticides and relates how a Garden Club officer saved Greenwich, Connecticut, from the hazards of pesticide spraying. Conservationists do not prefer wildlife to people, but people and wildlife are all inhabitants of the same environment and danger to any part of the environment is dangerous to all.

60479 Milton, A. W. Visiting historic spots now is a favorite pastime. TENN. CONSERV. 32(3):22-26, 31, Mar. 1966. Photos.

Some 4 million persons tour historic Tennessee landmarks every year. The Association for the Preservation of Tennessee Antiquities (APTA) is engaged in historical preservation; and this article includes reviews and postscripts of APTA and preservation conferences. The preservation of historic homes fits right in the State's conservation program to protect and improve soils, forests, water, wildlife, recreation areas, and other tourist attractions.

60480 Mueller, E. W., ed.; Ekola, G. C., ed. Mission in the American outdoors. St. Louis, Concordia Publishing House 165p. 1966. Ref.

This book is the outgrowth of a comprehensive study of outdoor recreation requested in 1963 by the Division of the American Missions Committee of the National Lutheran Council. Part 1 is concerned with outdoor recreation resources and



presents an overview of national surveys, planning, and legislation. Part 2 is concerned with people and discusses social and spiritual values and the role of the church in an era when leisure and recreation are enjoyed by many people.

60481 National Recreation and Park Association Outdoor recreation space standards. New York 55p. 1966. Ref., illus., tables.

The National Recreation and Park Association has guided government authorities on problems concerning open space for recreation. Part 1 of this study deals with standards, past and present; various space standard proposals based on population ratios, and statistics on recreation areas for selected cities and counties of certain size populations. Part 2 deals with recommended standards for open space for recreation. These standards are for the maximum population, not present size. Administrative responsibility of each level of government to provide open space for recreation is considered. Statistics for recreation land areas in the most populous cities and counties with largest acreage for recreation facilities per 1,000 population are listed in the appendices.

60482 Nature Conservancy Natural areas preserved by the Nature Conservancy to April 1, 1966. NATURE CONSERV. NEWS. 16(1)3-33, Spring 1966. Tables.

This issue lists the natural areas secured against destruction by the Nature Conservancy, by States. Table I represents those areas currently held by the Conservancy and acquired through gift, purchase or lease; Table II are those preserves formerly owned by the Conservancy; which have been conveyed to other agencies; Table III are those areas acquired by other organizations and aided by the Conservancy.

60483 Penfold, J. W.; Dennis, R. T.; Focus on Redwoods. IZAAK WALTON MAG. 31(6):12-13, June 1966. Photos.

The pros and cons of two bills that have been introduced as proposals for the establishment of a Redwood National Park are discussed. At the 1965 Izaak Walton League Convention a resolution was passed urging the Secretary of the Interior to provide adequate preservation and protection of representative areas of primeval redwoods. The area proposed would include Jedediah Smith and Del Norte Coast Redwood State parks in California.

60484 Rein, M.
NSF, pool industry riding to crossroad? In
SWIMMING POOL DATA AND REFERENCE
ANNUAL
33:74, 81-82, 84, 1966.

The purpose of the National Sanitation Foundation is to bring public health officials and industry

members together to solve common problems. It sponsors pre-planning of preventive programs for improvement of the environment and is involved in basic and applied research, uniform equipment standards, providing an independent testing laboratory, offering a seal of approval program, and education. Three swimming pool equipment standards have been developed. Steps in this process are detailed.

60485 Schley, B. Henry Hawkins' fish farm. AMER. FOR. 72(4):34-35, 51-52, Apr. 1966. Ref., photos.

This article provides suggestions and examples on farm fish pond management.

60486 Smith, G. Building a strong club. AMER. RIFLEM. 114(3):39, Mar. 1966.

The growing facilities of a strong rifle and pistol club are described along with its organization and financing.

60487 Smith, M.
No wilderness wasted.
FLA. WILDL.
20(7):14-19, Dec. 1966. Photos.

At Turkey Point, the Florida Light & Power Company created a semi-public park and recreation area, a Boy Scout camp, canals, islands, beaches, an archery range, a home for a full-time Florida Board of Conservation ranger, and a small laboratory for the University of Miami's Institute of Marine Science. All this, and a power plant, too. Turkey Point is living proof that industrial efforts can include creation and preservation of natural beauty.

60488 Swift, E. Woodlots and long-term forestry management. CONSERV. NEWS 31(18):1-3, Sept. 1966.

The greatest national and community challenge in conservation of our time is the management of the privately owned wooded areas for economic as well as aesthetic values.

60489 Trueblood, T.
The awakening giant.
FIELD STREAM
71(6):26-27,30,32, Oct. 1966. Illus.

Sportsmen must get into politics. They are a sleeping giant. If they would speak in a collective voice, 35 million sportsmen would have a real say in the use of our heritage of natural resources. Some of the outstanding Congressmen, from a conservation standpoint, are mentioned. Sportsmen should support those candidates for Congress who demonstrate sound thinking on resource issues. This they are beginning to do now.

60490 Vesall, D. B. Our FFA's wildlife housing development. CONSER. VOL. 29(169): 29-30, Sept. -Oct. 1966. Photos.

The Wildlife Habitat Improvement Program recently launched by the Future Farmers of America (F. F. A.) will benefit hunters, trappers, bird-watchers and other individuals interested in Minnesota's wildlife.

60491 West, W. Conserving our waters. New York, American Petroleum Institute 22p. 1965.

This is not a definitive survey. Oilmen recognize that America's rapid growth requires that water conservation efforts be accelerated. Information is provided on what steps should be taken in this direction. It helps oilmen to explain the true situation to their neighbors. Present progress toward final solutions can best be continued at local, State and area levels by the dedicated individuals and groups that are already at work conserving our waters.

60492 Wilderness Society
North Cascades Report.
LIV. WILDER.
29(91):32-39, Winter 1965/66. Maps, photos.

As each part of the recommendations of the North Cascades Study Team's report is discussed, the views and endorsements of the Wilderness Society are included in bold type.

60493 Willey, Mrs. W.H., Jr. An experiment in civic participation. GARD. CLUB AMER. BULL. 54(6):25-26, Nov. 1966.

The Goldsmith Civic Garden Center was established with the advice of a member of the Memphis Garden Club as a memorial to the Memphis department store magnate. The Goldsmiths' gift is operated by the Memphis Park Commission, which allocates an annual budget to staff and maintain it. The Center is in constant use for meetings, flower shows, classes, lectures and workshops. Now all of the facilities of the Goldsmith Civic Garden Center and of Audubon Park are incorporated into the city's first full-scale botanic garden, the Memphis Botanic Garden.

60494
Carl Buchheister appeals to McNamara to save Agattu Island.
AUDUBON LEAD. CONSERV. GUIDE 7(18):2, Sept. 15, 1966.

Scenic Agattu Island, nesting area for many birds, including great colonies of pelagic species,

is one of the few islands in the Aleutians large enough and unspoiled enough to qualify for protection under the Wilderness Act. It is a key area in Bureau of Sport Fisheries & Wildlife plans for restoration of the rare and endangered Aleutian Canada Goose. It is one of the best islands in the Aleutian Islands National Wildlife Refuge. Yet the Air Force has designs on Agattu for a "classified mission." The National Audubon Society's President has appealed to Defense Secretary Mc-Namara, in a letter dated September 12, to prevent the invasion of Agattu Island by the Air Force.

60495
Fight to save Grand Canyon.
SIERRA CLUB BULL.
51(5):6-9, May 1966. Map, photos.

The Reader's Digest commits itself "to oppose the construction of Bridge Canyon and Marble Gorge hydroelectric dams on the mainstem of the Colorado River in Grand Canyon." The Digest sponsors a press conference at the canyon itself. The statements of individuals of note who have opposed the dams are recorded. The Sierra Club has introduced a bill to give the entire Canyon National Park status.

60496 Grand Canyon's highest and best use. SIERRA CLUB BULL. 51(5):4, May 1966.

The Sierra Club is sponsoring legislation which would enlarge Grand Canyon National Park to include the entire canyon and would prohibit any dams or divisions between Lees Ferry where the canyon starts and Grand Wash Cliffs where it ends. The canyon has incalculable scientific value in its present wild state. The proposed Bridge Canyon and Marble Gorge Dams would destroy biota and conceal formations of educational value for anthropologists, archaeologists, biologists, botanists, geologists and the lay public.

60497
Is Interlochen State Park headed for abandonment?
MICH. OUT-OF-DOORS
17(3): 3, 10, Mar. 1966.

Strong opposition is expressed by the Board of Directors of the Michigan United Conservation Clubs against a request made by the National Music Camp for 20 acres of the Interlochen State Park. The land is desired for the site of a two-year university.

60498
National youth conference.
LIV. WILDER.
30(93):22-23, Summer 1966.

The National Youth Conference on Natural Beauty and Conservation explored the question—



by speeches, discussion groups, and workshop sessions—of how American youth can promote natural beauty of the land and the conservation of natural resources.

60499 A Pine Barrens National Monument? ATLANT. NATUR. 21(3):139-140, July-Sept. 1966. Map.

A group of conservationists organized recently to advocate the preservation in a national monument of one of the most remarkable wild areas of the eastern coast: the New Jersey Pine Barrens. This article presents the views and proposals of the Pine Barren Conservationists.

60500 Playing tag with fish. N. J. OUTD. 17(2):16-17, Aug. 1966.

The American Littoral Society issues fish tagging kits to fishermen who fish for fun and enjoy adding to the scientific knowledge on fish migrations.

60501
Save-the-Redwoods League gains Federal-State cooperation in program to preserve giant trees. PARK MAINTEN.
19(10):20-22, Oct. 1966. Map, photos.

Information is provided on the Save-the-Redwoods League: its primary program objectives, methods of financing, early history, and recent activities in trying to preserve and protect the Northern California coastal redwoods.

60502 A wilderness plan for the Smokies. APPALACH. TRAILW. NEWS 27(1):6-7, Jan. 1966.

The recommendations of the Smoky Mountains Hiking Club, Knoxville, Tennessee, concerning designations of wilderness areas, are stated and discussed.

60503 Advisory Commission on Intergovernmental Relations
State legislative program 1967.
Washington
601p. 1966.

The Advisory Commission's program for State legislation is presented on: (1) taxation and finance, (2) structural and functional relationships. Suggested legislation is itemized.

The Commission recommends State initiative in several specific program areas. Among the recommended actions are establishment of a State agency for overall water resource planning and policy-making. Legislation is suggested to States in securing and preserving open space by (1) providing for acquisition by States of interests

or rights in real property, including conservation easements; (2) authorizing local units of government to acquire interests or rights in real property within existing metropolitan areas for open space. Acquisition and preservation of open land areas may be justified on grounds of watershed protection for water supply; on the need for parks and recreation areas, and on the prevention of urban blight and deterioration.

60504 Anderson, R.M.; Roswig, B.B. Planning, zoning and subdivision. A summary of statutory law in 50 States. Albany, New York State Federation of Official Planning Organizations 231p. 1966. Tables.

Presented is a compilation of State's statutes on zoning, planning and subdivision control. To be used with each State's listings are charts on various aspects of zoning and planning; also on airports, regulation of specific uses, official maps and subdivision control.

60505 Bruna, J.

It's against the law—to clog streams, banks.

KY. HAPPY HUNT. GROUND

22(3):16-17, May 1966. Photos.

Many streams are being all but destroyed by debris, rubbish and trees. The 1964 Senate bill No. 136, passed by the Kentucky General Assembly, prohibits activities which cause these conditions. Clearing of vegetation to the edge of a stream adds silt and debris to the water, affects all downstream landowners and the general public. Brush and trees cut along banks should be burned.

60506 Church, F. Rivers, recreation and you. FIELD STREAM 71(3):10-13, 54-55, July 1966. Photos.

In an interview, Senator Church explains the Wild Rivers bill as he proposed it and as it passed the Senate. The significance for the public in providing new areas of recreation is considered.

60507 Cook, R. A.
The new stream protection law.
CONSERVATIONIST
20(4):10-11, Feb.-Mar. 1966. Photos.

The areas of jurisdiction of the new stream protection law in New York State and the administration of the new law are defined. The statute covers: a) disturbance of stream beds; b) dredging and fill in navigable waters; c) dams and docks.

60508 Craig, J.B.
The Allagash—a pattern emerges.
AMER. FOR.
72(8):26-29, 50-51, Aug. 1966. Photos, table.

The Allagash Riverway Act as passed by Maine and the proposal by the Bureau of Outdoor Recreation are in substantive agreement. Pertinent Maine law and the original BOR proposal are

analyzed in a table. The Interior Department will support the efforts of Maine to preserve this waterway as a State project including matching Federal funds. It is hoped the people of Maine will approve the State Bond Issue to assure protection of the Allagash Waterway for all time to come.

60509 Craig, J. B. Allagash—2-1. AMER. FOR. 72(12):12, Dec. 1966.

Exultation and praise over the Maine vote of 150,000 to 72,000 in favor of a State appropriation of \$1-1/2 million for the Allagash Wilderness Waterway are first voiced in this editorial. Then plans for the project's implementation are discussed. Land acquisition has the first priority.

60510 Ellis, W.H.
Recent natural resources cases. Watercourses—
recreational uses for water under prior appropriation law.
NATUR. RESOUR. J.
6(2):181-185, Apr. 1966. Ref.

In 1937, the Colorado legislature created the Colorado River Water Conservation District and empowered it to withhold stream water in the amount necessary to preserve fish. In 1965, the District, having seen fishing ruined in one Colorado stream after another, tried to use its power to withhold the waters of three streams. The resulting court case is narrated, with the basis for the negative court decision. Amending the statute is the next step. This time the Colorado legislature should specify the means by which the District is to choose the amount and location of the waters to be withdrawn.

60511 Foss, W.O. Ventilation rules start next year; Open boats not affected by change. NAT. FISHER. 47(5):9-c, Aug. 1966. Photos.

No abstract.

60512 Franson, J. L. Appointees still problem in new pollution law. BADG. SPORTS. 23(1):8, Aug.-Sept. 1966.

After an explanation of the law that outlines a program to protect, maintain and improve the quality of Wisconsin's waters, the author shows a conservationist's concern over the appointees who will administer the program. He believes that much of the future of Wisconsin's waters will depend on these appointments.

60513 Garrett, J.T.
"Chasing ourselves".
J.SOIL WAT. CONSERV.
21(6):210, 231, Nov.-Dec. 1966.

Discusses the problem of pollution abatement. Passage of the Water Quality Act of 1965 inferred

that pollution abatement was the concern of all, the individual as a private citizen and an employee of an industry which became involved in the pollution problem. Lack of cooperation will compel government agencies to issue regulations for the benefit of the entire community.

60514 Haugen, A.O.
Iowa's county conservation board program.
J. SOIL WAT. CONSERV.
21(2):54-56, Mar.-Apr. 1966. Ref., Photos.

More than a decade ago, Iowa's legislative body passed an enabling act to permit counties to cope with increased demands for conservation and recreation areas. Major provisions of the law and the resulting county conservation board program are reviewed in this article.

60515 Jackson, H. M. Water and the nation. AMER. WATER WORKS ASS. J. 58(7):761-766, July 1966. Ref.

In an address to the Annual Conference, American Water Works Association, Bal Harbour, Fla., May 23, 1966, the Chairman of the Senate Committee on Interior and Insular Affairs discusses the problems of the Nation's water supply and water resource development. Senator Jackson declares that Congress must make some complex decisions involving water uses and cites the bill on establishing a national wild rivers system as an example. He goes into some detail in explaining S. 3107, a bill to establish a National Water Commission.

60516 McInteer, J. Sweating out the 1966 waterfowl regulation. VA. WILDL. 27(6):4-7, June 1966. Illus., photos, map.

Control dates on annual waterfowl hunting regulations are influenced by two factors: (1) a number of agencies, state and federal, are involved in the setting of duck and goose regulations: (2) final actions on waterfowl regulations are not taken until there has been an assessment of conditions on the northern breeding grounds and a measurement of the current year's production, usually in midsummer.

In 1952 the Flyway Councils and the National Waterfowl Council were organized. The Atlantic Waterfowl Council represents the 17 state game management agencies in the flyway. Two members from this group serve on the National Waterfowl Council. This group together with representatives of private national conservation organizations serve as the Waterfowl Advisory Committee to the Federal Bureau of Sport Fisheries and Wildlife.

60517 McKeon, Mrs. D.M.; Fox, Mrs. C. Conservation.
GARD. CLUB AMER. BULL.
54(2):58-60, Mar. 1966.

The Garden Club of America advocates highway beautification by means of plantings, antilitter campaigns, and billboard control across the Nation. Mrs. Fox, member of the Roadside Panel for the White House Conference on Natural Beauty, provides additional explanatory state-

60518 McKewen, T.D. The water in Maryland's future. MD. CONSERV. 43(5):6-8, Oct. 1966. Photos.

Maryland is first in the Nation to pass a law requiring its counties and the City of Baltimore to submit comprehensive plans for water use and sewage disposal to the State Health Department by 1970. Details of the State law and the State's role in coordinating county and municipal plans provide a framework for action.

60519 Pelkin, D.
The perils of conservation bills.
BET. CAMP.
7(6):21-22, June 1966. Illus.

Myriad bills to preserve precious areas of the Nation are now being considered by Congress. Some battles have been won within the last year; for others the battle has just begun. The Ice Age National Scientific Reserve in Wisconsin is one crusade that was brought to a successful conclusion. The new area is described.

60520 Popowski, B. Beware those silly game laws! SHOOT. TIMES 7(8):10-15, 40, 44, Aug. 1966. Photos.

No abstract.

60521 Porter, W. W., II
The public domain. Heart of the Republic. Parts
I-III.
AMER. FOR.
72(1):12-14, 46-48, Jan. 1966. Map, photos.
72(2):27-29, 46-51, Feb. 1966. Photos.
72(3):34-35, 58-63, Mar. 1966. Photos.

A detailed history of public domain lands in America from the beginning of the 1780's until the present is provided, including all congressional actions.

60522 Porter, W.W., II
The public domain, heart of the Republic. Part
4: Natural resources.
AMER. FOR.
72(4):28-31, 53-59, Apr. 1966. Photos.

American forest and mineral conservation policies are explained especially in terms of land policies and legislation, such as the Multiple Use Act and other land laws. The Public Land Law Review Commission organized in 1965 as a result of the enactment of P. L. 88-606, 1964, must review the public land policy and its administration. Non-disposal of land to the private sector for develop-

ment of resources could have a deleterious effect on the economy. Only 19 States—the original 13 colonies plus Maine, Vermont, Kentucky, Tennessee, West Virginia, and Texas—are without public domain.

60523 Prendergast, J.
Hunting and fishing recreation on State and Federal
park lands. In International Association of Game,
Fish and Conservation Commissioners. Proceedings, 1966.
Kansas City, Mo.
p. 142-151, 1966.

This speech gives laws, rules and regulations about hunting and fishing on State and Federal park lands. All national parks are open to fishing. Public hunting is prohibited on public lands, with one exception: hunting is permitted in the Grand Teton to keep the wintering herds from becoming too large.

60524 Smith, A.W.
Raising the sights for the redwoods. A big national park and national forest.
NAT. PARKS MAG.
40(230):17-19, Nov. 1966. Maps, photo.

The President of the National Parks Association presented the two alternative proposals with his own recommendation for a proposed Redwoods National Park to the Senate Subcommittee on Interior and Insular Affairs. Land acquisition by fee simple and conservation easement are discussed.

60525 Stuart, L.
Saving the Allagash. A year of decision for a
Maine wilderness.
PARKS RECREAT.
1(10):852-854, Oct. 1966. Map, photos.

A discussion of the proposed Allagash River Waterway, to be administered by Maine's State Park and Recreation Commission if approved by the public referendum on November 8, 1966. Highlights of the legislation are given.

60526 Udall, M.K.
The facts about Grand Canyon and dams.
PUBLIC POWER
24(7):22-24, 46, July 1966. Maps, illus.

Rep. Morris K. Udall is sponsor of H. R. 4671, a bill which would authorize the building of two major hydroelectric plants on the Colorado River. He denies that the two dams proposed for building as part of the project will destroy the scenic beauty of the Grand Canyon. He advocates conservation of all our resources—including the vast amounts of hydroelectric power now going to waste on the Colorado River.

Government Operations.
Water pollution—Great Lakes. Part 3: Western Lake Erie, Detroit River, Lake St. Clair and tributaries. Hearing.
Washington, Govt. Print. Off.
834p. 1966. Ref., maps, tables. (89th Congress, 2nd session).

The hearings held at Toledo, Ohio, were conducted to determine how effectively government agencies and othersare dealing with the growing problem of water pollution in the Great Lakes area, specifically the water pollution problems of western Lake Erie and the area around it, including Lake St. Clair, the Maumee and Detroit Rivers and their drainage basins. This area is one of the most highly industrialized in the United States. Pollutants in the water include a variety of industrial wastes, as well as sewage from combined storm and sanitary sewers. Some of the pollutants are chemicals that stimulate the growth of plants which absorb from the water the oxygen necessary for fish and aquatic life. Lake Erie, it is said, is dying. Statements from water pollution control experts and citizens of the region interested in wildlife preservation and pure water for human and industrial use are presented. The problems of Federal grants and inspections are clarified. Recommendations are made for improved government assistance in water pollution control.

60528 U.S. Congress. Senate. Committee on Interior and Insular Affairs.
North Cascades-Olympic National Park.
Hearings.
Washington, Govt. Print. Off.
1062p. 1966. Map, tables. (89th Congress, 2nd session).

Hearings on the report of the North Cascades study team and the proposed revisions of the boundaries of Olympic National Park and other issues relate to the development and utilization of the natural resources of the State of Washington. The 2-1/2-year study under the auspices of the Departments of the Interior and Agriculture was undertaken to determine what type of management and administration of those lands would best serve the public interest. The Departments cooperate on development of outdoor recreation resources. Public objections to the North Cascades Park are mainly economic. Many proposals suggest that limited wilderness areas be preserved under the Forest Service and the remainder be put to multiple use of lumbering, mining, watershed development, grazing, and a flexible program for recreation and commerce. It is emphasized that the resources are needed for the economy of the State which already has much national park land. Recommendations of the study team which are summarized fall into seven categories: (1) wilderness areas, (2) North Cascades National Park (proposed), (3) Mt. Rainier National Park, (4) other recreation areas, (5) scenic roads and trails, (6) timber management, and (7) other. Major issues confronting the study team were:

(1) should there be a new park; (2) how much wilderness is enough; (3) how best to provide for the more conventional types of recreation desired by the great mass of people; (4) how to reconcile national and local interests when the two appear to conflict; (5) how to utilize and manage the timber resource in harmony with other multiple uses of the area; and (6) the extent to which scenic roads should be an essential ingredient in making the North Cascades available to large numbers of people. Statements of the National Park Service and Forest Service on the proposed administration and management of the 6.3 million acres are provided. The area obviously includes the unique physical, natural and geological features necessary to qualify for national park status. The proposed park would become one of the outstanding units of the whole national park system because of its superlative mountain features.

60529 U.S. Congress. House. Committee on Science and Astronautics. The adequacy of technology for pollution abatement. Hearings.

Washington, Govt. Print. Off.
603p. 1966. Tables. (89th Congress, 2nd session, v. 1).

Research needs and technological problems of pollution abatement are presented. Definitions of pollution are relative to the specific use to which a particular stream or area is dedicated. Quality criteria and standards permit goals and timetables to be established. Greater reuse of resources will be required in the future. The technology to achieve objective of environmental quality and waste management is not yet adequate. Criteria needs to be established for four classes of pollutants: (1) sulphur oxides; (2) photochemical oxidants; (3) nitrogen oxides; (4) carbon monoxide. Major sources of pollution are: motor vehicles; stationary combustion sources; petroleum refineries; steel mills; the chemical industry, both organic and inorganic; foundaries and pulpmills. Clinical studies on animals with air pollutants are described with special emphasis on reactions in man. Departments of the government are involved in counteractive measures.

60530 U.S. Congress. Senate. Committee on Interior and Insular Affairs.
Great Salt Lake National Monument. Hearings. Washington, Govt. Print. Off.
117p. 1966. (89th Congress, 2nd session

Senate bill 25 provides for establishment of the Great Salt Lake National Monument in Utah, and for other purposes. Hearings are concerned with the use of Great Salt Lake as a scenic and recreational attraction and the establishment of the Great Salt Lake National Monument on Antelope Island. A cooperative arrangement between the Federal government and Utah is proposed whereby both may participate in providing facilities on the Island. The bill would authorize acquisition of the land and administration by the Department of the Interior. It provides for interpretive and educational facilities. The

State of Utah would be authorized to operate and manage the recreational facilities and accommodations. User fees would be assessed by the State.

60531 U.S. Congress. Senate. Committee on Interior and Insular Affairs. Guadalupe Mountains National Park. Hearings. Washington, Govt. Print. Off. 133p. 1966. Tables. (89th Congress, 1st and 2nd sessions).

The Subcommittee on Parks and Recreation considers S. 295 and H. R. 698, bills to establish the Guadalupe Mountains National Park in Texas, and authorize the acquisition of land and interests therein. The park will preserve in public ownership an area of 76, 302 acres which possess outstanding geological values as well as scenic and other natural values of great significance. Archaeologic and historic sites in the area will also be preserved. Some mineral rights will be acquired at a later date. Costs for acquiring the land and expenditures of staff for the first five years of programs are projected. Statements and communications in support of the bill are provided.

60532 U.S. Congress. Senate. Committee on Interior and Insular Affairs. Redwood National Park. Hearings. Washington, Govt. Print. Off. 2pts. 1966. Maps, tables. (89th Congress. 2nd session).

The bill to establish the Redwood National Park in California proposes to preserve certain remaining virgin and old growth stands of the tallest living trees in the world and to provide an equitable means of assisting the local economy. The portion of the proposed Redwood National Park in Del Norte County will consist of the Jedediah Smith Redwoods and Del Norte Coast Redwoods State Parks, about five miles of frontage on the Smith River, and a coastal strip southward. The separate unit of the Redwood National Park on Redwood Creek in Humboldt County will contain the tallest trees in the world. The establishment of the park will necessitate acquisition by the Federal Government of 24,960 acres of privately owned lands and will remove large acreages from taxation in Del Norte County. Curtailment of the timber industry will cut into the local economy. The bill provides for annual economic adjustment payment for a 5-year period to county and local government bodies after which time the tourist industry is expected to bring increased revenue. Main opposition to the bill comes from the forest products industry and from local authorities in the three northern California counties involved. There are differences of opinion about the appropriate size and proper location of the park. The principal objectives of the bill are to give national recognition and protection to one of the natural wonders, to increase the opportunities for outdoor recreation in northwestern California, to preserve the best virgin growth of redwoods, to afford vital watershed

protection within the park, and to incorporate into the National Park System a nationally significant resource.

60533 U.S. President (Lyndon B. Johnson) Preserving our natural heritage. Washington, Govt. Frint. Off. 10p. Feb. 23, 1966. (House Doc. 378, 89th Congress, 2nd session).

In his message to Congress in which he transmits programs for the control of pollution and preservation of our natural and historical heritage, President Johnson proposes a course which will restore America to her people, one with the promise of clear rivers, tall forests and clean air. Means to achieve that promise are set forth. The President also has something to say about costs of land acquisition and expounds a creed to preserve our natural heritage.

60534 U.S. President (Lyndon B. Johnson)
The President's remarks to members of the
National Recreation and Park Association, Washington Hilton Hotel, Oct. 13, 1966.
WEEKLY COMPILATION PRES. DOC.
p. 1490-1493, Oct. 21, 1966.

The President talks about conservation, beautification and recreation; notes new parks, forests and recreation areas recently located within easy access of urban centers and new bills passed by the 89th Congress which he proposes to sign.

60535 Wheat, M.C., Jr. Precedent on the Hudson. SIERRA CLUB BULL. 51(3):5-7, Mar. 1966. Photo.

The Consolidated Edison Co. plans to build the biggest pumped storage plant in the world on Storm King Mountain on the Hudson River to provide electricity for New York City. Court rulings against the Federal Power Commission, following a public protest against the proposed destruction of an historic and scenic landmark plus a large bass breeding ground, are evaluated.

Because of the controversy, Congressman Richard L. Ottinger, Yonkers, N. Y., introduced a bill which authorizes the Secretary of the Interior to veto projects which Federal agencies propose to build on scenic sites and also permits the Secretary to negotiate scenic easements.

60536 Conservation bills flood legislature. MICH. OUT-OF-DOORS 17(3):5, Mar. 1966.

A brief general resume is given on proposed bills in the legislature. These bills are relative to the conservation of deer and elk, water pollution, park legislation, littering, federal aid, game proposals, fishing bills, and pertinent administrative bills.

60537 Conservation committee. APPALACH. BULL. 32(3): 69-70, Mar. 1966.

This article is a report on the Allagash Wilderness Waterway which is a new act passed by the Maine Legislature in February of 1966. The prime purpose of the act is to preserve the natural wilderness character of the waterway.

60538
Highway department opposes rural road signs.
MICH. OUT-OF-DOORS
17(6):2, June 1966.

Federal laws restricting advertising signs in rural and residential areas alongside interstate and primary highways have been endorsed by the Michigan Dept. of State Highways. Hearings are being conducted in each state in an effort to devise standards, criteria, rules and regulations necessary to carry out the provisions of the Highway Beautification Act of 1965.

Indiana Sand Dunes National Lakeshore. PRAIRIE CLUB BULL. (555):5, Apr. 1966.

The proximity of the Indiana Dunes to an ever increasing population render the present facilities insufficient to meet the growing outdoor recreation demands. H. R. 51 proposes to make use of all the different types of dunes for separate recreation, historic and scientific research purposes.

60540
Public Land Law Review Commission.
FOR. FARM.
25(11):9, 14, July 1966.

The Public Land Law Review Commission is authorized to review "existing statutes, rules, regulations, policies and practices governing the administration of the public lands." The Commission must recommend modifications to existing law to assure that public lands are used for the maximum benefit of the general public both now and in the future.

60541 Redwood Park. J. FOREST. 64(5):342-344, May 1966.

Brief comments on Redwood National Park proposals.

60542 Trails across the nation. PARKS RECREAT. 1(8):632-633,664, Aug. 1966. Ref, maps.

A discussion of the provisions of the Administration bill sent to the Congress by Secretary Udall on March 31, 1966. Four general classes of trails are covered. It includes a list of trails requiring additional study.

60543 Two cooks. SALT WAT. SPORTS. 27(9):3, Sept. 1966.

The Anadromous Fish Act of 1955 is discussed. It is suggested that monies spent on anadromous fisheries problems can be more wisely directed by the Department of the Interior in a concentrated approach on the few anadromous species of major sport and commercial importance to any specific geographical area.

60544 Alberta Fish and Game Association A water policy. FISH GAME 19(3/4):10,21, Apr. 1966. Illus.

With growing concern for their province's water resources, the Alberta Fish and Game Association cites basic principles and proposes a policy for insuring a clean, pure supply of water for livelihood, industry and recreation.

60545 American Association for Health, Physical Education, and Recreation. Recreation Division.

Recreation policy statement.

JOHPER

37(5):43-44, May 1966.

Present major areas of recreation concern defined and approved by Board of Directors of the American Association for Health, Physical Education, and Recreation are: (1) education for leisure, (2) professional preparation and personnel standards, (3) research and evaluation, (4) recreation services, and (5) planning and development.

60546 Crafts, E.C.
The dilemma of America. Remarks before the
Nevada Governor's Conference on Natural
Beauty and Outdoor Recreation, Las Vegas,
Nevada, September 21, 1966.
U.S. DEPT. OF THE INTERIOR NEWS RELEASE
11p. 1966.

Rapid changes in Federal policy in recreation and other programs relating to quality of living, such as pollution control and beautification, portend major public concerns for the future. The change in policy to city-oriented, peopleoriented recreation has affected the programs, attitudes, and budgets of all concerned Federal agencies. New philosophies are evolving from the historical foundations of outdoor recreation. Outdoor recreation is evolving as both a desirable public policy and a major concern and responsibility of business. Our nation leads the world in wealth and power, and also leads in the degradation of the human habitat. The dilemma of America today is: Canwe have progress without spoliation? We must act with new respect for the land and for ourselves.

60547 Crafts, E.C.
The evolution of outdoor recreation policy. Remarks at the National Conference of Policy
Issues in Outdoor Recreation, Logan, Utah,
September 6, 1966.
U.S. DEPT. OF THE INTERIOR NEWS RELEASE
12p. 1966.

Outdoor recreation and other major programs relating to quality of environment, such as pollution control and beautification, are major public concerns. The approach to outdoor recreation is being rapidly converted from a resourceoriented byproduct of conservation and preservation, to a people-oriented, city-oriented major public purpose. The historical and philosophical foundations of outdoor recreation and problems discussed lead to 7 major policy trends for consideration: (1) quality environment; (2) orientation to urban areas; (3) people orientation; (4) the acquisition, protection and development of needed land and water resources; (5) education; (6) financing; (7) acceptance of responsibilities by state and local governments and the business community. The final decisions will rest with the Congress and the courts.

60548 Frame, A.P. Needed—a national outdoor recreation policy. PARK NEWS 2(3):11-16, July 1966.

An agreement for a national outdoor recreation policy is needed so that an assignment of responsibilities to appropriate levels of government can be made. The first requirement is for an appropriate review authority to assess the resources and demands.

60549 Izaak Walton League of America Policy statements.
WASHINGTON NEWSLETT.
2:5-7, Feb. 25, 1966.

Important policy statements on water, outdoor recreation, fish and wildlife, pollution and pesticide control, and public lands.

60550 James, W. Yellowstone National Park nearing 100th anniversary. WEST. OUTD. NEWS 13(37):6, Sept. 16, 1966.

Yellowstone is not only the Nation's first national park, it also has the unique distinction of being the first in the world. Preservation of the great national parks has been promised top priority by Dr. Stanley A. Cain, Assistant Secretary of the Interior for Fish, Wildlife and Parks. The author, however, deplores the inclusion of active outdoor recreation areas, claiming the National Park Service now manages recreation on the reservoirs formed by Bureau of Reclamation dams. Instead of swimming, motor boating and water skiing, the author believes the National

Park Service should primarily preserve the natural wonders and beauties of great land areas in their primitive condition for the benefit of all of the people.

60551 Laing, A. A dedication to the future. PARK NEWS 2(4):4-7, Sept. 1966.

A speech at the opening of the Nature - Interpretive Centre, Point Pelee National Park. The Minister responsible for National Parks points out the dangers faced by the parks and outlines the need for careful development of existing parks and for the establishment of new ones.

60552 McChesney, J.; Tappley, R.A. Administrative policy manual. Wheeling, W. Va., Nat. Recreation Park Ass. 40p. 1966. (Manage. Aids Bull. No. 61)

A sample policy planning guide in this manual deals with administration, community relations, finances, personnel, participants, program, and maintenance. It is a guidance tool for park and recreation departments to follow in developing their own administration policy manual.

60553 McInteer, J. F., Jr. Rising expectations. VA. WILDL. 27(11):3, Nov. 1966.

A change in our public policies on outdoor resources and recreation is occurring today. Programs that first improved recreation opportunities were resource-oriented. What's new is that we now think of outdoor recreation in terms of public concern, public responsibility and public policy. As a result programs are becoming more people-oriented. Today's emphasis on providing public recreation facilities must eventually include an equal concern for the quality of our whole environment. Outdoor recreation as an end in itself is not a proper purpose on which to base public policy, since it is but one of many uses that people make of their environment. The rising expectations of people—for material, aesthetic and recreational enjoyment -- can be fulfilled only if we keep our resource programs people-oriented and concurrently recognize that environmental quality is our real concern.

60554 Orell, B. L.
On federal land acquisition.
J. SOIL WAT. CONSERV.
21(6):210, 232, Nov.-Dec. 1966.

The land policy pattern of the Federal Government has reversed itself from conveying land in the public domain to private owners to a policy of widespread land acquisition from private owners. For full, proper use of public lands, Federal holdings should be consolidated through changes and its ownership increased proportion-

ately in a given area. Private land owners are helped in managing their lands by the Soil Conservation Society of America, the Soil Conservation Service, State foresters, and other organizations and agencies.

60555 Munro, D. A.
Land management for wildlife and outdoor recreation in Canada. In International Association of Game, Fish and Conservation Commissioners. Proceedings, 55th convention, 1965.
Portland, Oreg.
p. 64-70, 1966.

A comprehensive report on the development of a program for outdoor recreation in Canada is provided. The problem, not apparent 50 years ago, calls for those recreation if outlets which may relate to stability within the community. The aim is to acquire land with the qualities that make it suitable for outdoor recreation, located so that people can use it, and manage it so that it serves the peoples' needs, yet keeps its qualities unimpaired. With respect to wildlife, the aim is to secure habitat in amounts necessary to support viable populations. The allocation of land for park purposes in Canada suffers from a serious regional imbalance. The Canada land inventory is providing a basis for development of parks accessible to areas of dense population.

60556 Ownbey, C.R. Water quality goals. AMER. WAT. WORKS ASS. J. 58(4):397-402, Apr. 1966. Tables.

A six-step procedure is formulated for the Illinois River Basin Project. Each step is subdivided and its implementation described in detail: 1) General statement of policy, 2) Grouping of water users into categories, 3) Selection of significant parameters or yardsticks of quality for each category, 4) setting of numerical values with the limits of technology and reasonableness of use, to be used as guidelines in the establishment of goals. A table describes the proposed water quality goals for each water source. Water uses are divided into general, recreational, and fish and aquatic life. Some sources are also used for irrigation, industrial processes, and municipal water. Water quality control measures are defined under the headings of exclusion, collection, treatment, ultimate disposal of residue, and operations.

60557 Pomeroy, K. B. "Sea of troubles" AMER. FOR. 72(12):34, 38, Dec. 1966.

The National Conference on Outdoor Recreation convened at Utah State University, September 6-8, 1966. The focus was on policy issues. Key thoughts and excerpts from Conference speeches are summarized and presented in this article.

60558 Schiff, A. L. Outdoor recreation values in the public decision process.
NATUR. RESOUR. J. 6(4):542-559, Oct. 1966.

The author analyzes the factors involved in the outdoor recreation policy-making process at all levels of government with emphasis on the Federal Government's role. Reviews the conflicts in resource use and evaluates the attempts at developing a rational approach to guide public investment in recreation opportunities.

60559 Simons, H. Science: Sense and nonsense. BIOSCIENCE 16(9):607-608, Sept. 1966.

Discusses the basic controversy in the National Park Service's mandate to "conserve" and simultaneously to "provide for the enjoyment of the same." Author makes a plea for more research and administrative action to preserve the unique natural conditions in our national parks.

60560 Smyth, A. V.
Trees, game and people. In International Association of Game, Fish and Conservation Commissioners. Proceedings, 55th convention, 1965. Portland, Oreg. p. 130-134, 1965.

Views of a resource-based industry towards fish and wildlife resources are described. A public relations officer of the Weyerhaeuser Company discusses the policy of a forest products industry in management of the forests to provide the maximum yield of trees as well as the maintenance of wildlife as a recreation resource. Cooperation with the state game commissions is practiced. On the company's forest lands in Washington and Oregon, multiple use includes opening of these vast acres to the public for hunting. The industry wishes to promote wise use of forests and game and thus provide outstanding recreational opportunity to people.

60561 Stoddard, C.H.
Room to roam. The Bureau of Land Management's role in recreation. In Society of American Foresters. Proceedings, 1965.
Washington.
p. 134-136, 1966.

The purpose of the Bureau of Land Management is to manage the vast public domain lands and their uses by the public. Bureau of Land Management recognizes outdoor recreation as a major management responsibility to be developed and managed in balance with other resource values. Its outdoor recreation program will be coordinated with other units of government.

60562 Swift, E.

One horse for recreation—a rabbit for education.

CONSERV. NEWS
31(16):1-3, Aug. 15, 1966.

"Mass recreation which involves natural resources has a much more seductive interest for the general public than mass education relating to the management of those resources. The public is more interested in what it considers its rights than its obligations". Federal and State agencies attempt to meet the recreational demands by expending grants of tax money. Often they overlook the fact that the protection and management of the resources should be the first consideration and human desires must fit the scope of good husbandry. However, the people themselves are beginning to sense some of the more basic issues and those who get out frequently may learn something in regard to resource husbandry.

60563 Tyrell, J.M.
Pressures on our national and provincial parks.
CAN. AUDUBON
28(4):115-121, Sept.-Oct. 1966.

A discussion of the problems faced by national and provincial parks in Canada. The pressures on the parks from private and public enterprise, from recreational use, and from legislation are pointed out. The author recommends the separation of recreation lands from park lands.

60564
National policy for county parks and recreation.
TRENDS PARKS RECREAT.
3(2): 31-32, Apr. 1966.

"It is the purpose of the National Policy for County Parks and Recreation to suggest some guidelines by which county governments in the United States may contribute toward effective utilization of leisure by participating in the provision of a balanced program of public parks and recreation." The program will involve every level of government, as well as the private sector, and will serve every segment of society. Guidelines are proposed for the role of the county: 1) its organization, financing and planning responsibility; 2) its relationship with other local governments, State governments, Federal government, and the private sector.

60565 Andrews, J.K.
The seagoing classroom.
MOT. BOAT.
p. 72-73, Aug. 1966. Illus.

With the aid of the Coast Guard Auxiliary, a program of boating safety education is begun in Brick Township High School, New Jersey.

60566 Bailey, H. W. Minnesota's hunter safety program. AMER. RIFLEM. 114(5):25, May 1966. Photos.

Since the enactment of the Firearm Safety
Training Law, Minnesota's Youth Firearm
Safety Training Program has instructed over
100,000 young people in techniques of safe gun
handling. The State's Department of Conservation
conducts the course with the cooperation of private organizations to eliminate firearm accidents
and inform the public on conservation measures.

60567 Bird, H. P.
This land was made for you and me.
FLA. NATUR.
39(4):137-140, Oct. 1966.

After a plug for the CBS documentary film, BULLDOZED AMERICA, the author discusses fully three of the urgent problems in conservation today: the population explosion, air pollution, and water pollution.

60568 Fiske, H.
The burden of the Potomac. In Roberts, E. A., ed., America Outdoors.
Silver Spring, Md., The National Observer p. 34-47, 1966. Maps, illus., photos.

As the population of Washington grows, doubling by the turn of century, conflicting presures on the Potomac River Basin will increase: on one hand, recreation and health demand the conservation of natural beauty; on the other, clean water and an attractive river frontage for new housing and industry are needed. Historic review of water pollution shows a few industries contaminated the river but multiple sewage remains the main problem. The Interstate Commission on the Potomac River Basin was formed in 1941 to inform the public on pollution and prod the states into passing strong antipollution laws. Government agencies and legislation of the 1950's have improved Potomac water. A separate sewage system for Washington is being developed. For water storage, the Corps of Engineers proposed headwater reservoirs and a large dam at Seneca Creek. The dam has met with opposition from conservationists of land, wildlife, and historic sites. A new approach to Potomac River development with an eye to natural beauty and recreation exists in Washington today. A plan for a system of Potomac parks will provide for wilderness areas, camping, hiking, and historic site visiting.

60569 Holtz, D. D. Safe boating.
JOHPER
37(5):38-39, 66-67, May 1966. Photos.

Education for safe boating is available from two sources—instruction in the schools and training offered by various community groups and agencies. 60570 Hutchings, H.M.
You are invited to attend U.S. Power Squadron's free instruction classes in boat operation.
MOT. BOAT.
p.74, Aug. 1966. Illus.

The United States Power Squadrons provide a piloting course and other advanced boating courses. These are described.

60571 Kowalski, J. M. Salt and water. MO. CONSERV. 27(8):6-7, Aug. 1966. Illus.

A warning that exercise and hot sun combine to bring on heat exhaustion and heat cramps. When salt tablets are not available, use a teaspoon of salt to a glass of water. Drinking three such glassfuls will partially compensate for the salt and water loss resulting from several hours of moderate activity on a hot day.

60572 Megregian, S. Great Lakes - Illinois River Basin Project. AMER. WATER WORKS ASS. J. 58(4): 394-397, Apr. 1966.

A large portion of the Great Lakes - Illinois River system remains in poor condition, and further population and industrial growth will intensify the present trend toward degradation. Serious measures must be taken now to reverse the pollution spiral. Congress is giving the problem increased attention. The Illinois River Basin Comprehensive Water Pollution Control Program combines the action of all groups including local and state governmental bodies. It is designed to present a solution to water pollution problems which includes optimum use of all methods and mechanisms with the aim of pollution prevention.

60573 Stern, J.
What responsibilities do pool operators have?
In SWIMMING POOL DATA AND REFERENCE
ANNUAL.
33:104, 106, 177, 178, 1966.

Legal actions against pool operators for failure to provide proper water equipment, signs for danger zones, and attentive and adequately trained lifeguards are listed. Variations in responsibilities between the private pool owner and a government operated pool's supervisor are discussed.

60574 Weinberg, E.A.
Coast Guard Auxiliary offers free boating courses.
MOT. BOAT.
p.77, Aug. 1966. Photos.

The Coast Guard Auxiliary offers courses in outboard boating, safe boating, and basic seamanship.

60575 Colorado hunter safety program. AMER. RIFLE. 114(8):17-18, Aug. 1966.

Colorado has no statute which requires successful completion of a hunter safety course in order to purchase a hunting license. This State stresses the quality of its course on safe hunting in thirty schools. The program for hunter safety and game management is described. Other groups sponsoring hunter safety are listed.

60576 Columbus Cycle School a first. AMER. MOTORCYC. 20(10):10, Oct. 1966.

The Ohio Motorcycle Driver Training School, Inc., Columbus, Ohio, chapter is the first regular motorcycle driver training course in the country. At the end of each of the two courses offered, each student is tested. If he has not attained the necessary proficiency for safe cycling, he will be given additional private instruction.

60577 Brigham, A.P.
Recreational uses of watersheds. Operator's view.
AMER. WATER WORKS ASS. J.
58(10):1260-1263, Oct. 1966.

Discusses the pollution and siltation problems that result from the use of watersheds and reservoirs for recreational purposes. Multipurpose use of these waters is discouraged.

60578 Clepper, H.
The big five.
AMER. FOR.
72(1):18-21,63, Jan. 1966. Photos.

FAO gave special attention at the biennial conference to five major problem areas in world forestry: (1) tropical forestry, (2) forest tree seed centers, (3) wildlife management; outdoor recreation, (4) forest fire technology, and (5) logging and transportation.

60579 Cowan, I.M.
Conservation and man's environment.
In Smithsonian Institution. Knowledge among men.
New York, Simon, Schuster
p. 61-80, 1966. Ref.

Conservation as we know it today is the expression of the enlightened self-interest of a population arising from the understanding, scientifically gained, of the laws of growth. The known facts of population regulation, and the discovery that for wild crops, as for tame, the environment has a capacity which it cannot exceed but can sustain. The doctrine of wise use indicates that a living resource may not be used at a rate faster than its capacity to replace itself, Conservation in the United States as originally

stated in the Roosevelt Doctrine has evolved through eras of slow acceptance to an era of growing moral power. Public policy was based on the wise use of all outdoor resources considered as a whole and guided by scientific knowledge of the environment. Five areas which deal with man's impact upon his environment are given attention. Of particular interest is the maintenance of natural beauty and opportunity to enjoy the resources. Various conservation principles evolved are set forth.

60580 Godwin, G. An opinion on the forester's role in resource management. PARK NEWS 2(3):3-6, July 1966.

This article attempts to place preservation and recreation within the multiple use concept. The author agrees with a no logging policy in national parks and a use of logging company roads for recreation.

60581 Lyman, H., Woolner, F. Thunder on the Hudson. SALT WATER SPORTS. 27(6):28-29, 56-58, June 1966.

Consolidated Edison's Storm King Project on New York's Hudson River has been challenged by an irate citizenry. The massive power generating station originally supported by the Federal Power Commission and Governor Rockefeller will be taken under advisement by the U.S. Supreme Court. This is a victory for conservationists since it sets a precedent for future land and water grabs. A discussion of the pros and cons reveals the project's effect upon striped bass in the Hudson.

60582 Neff, P. E.
Applied silviculture in managing outdoor recreation sites. In Society of American Foresters.
Proceedings, 1965
Detroit
p. 34-35, 1966.

Silviculture must play an increasing role in recreation management. Positive scenic treatment is discussed under the headings of vista; variety in the woodside; transition vegetation; open woods, and variety in the stand. Some timber cutting is essential to the economy of the West. Almost one-fifth of our existing saw timber is located in the national forests of Oregon and Washington.

60583 Rankin, B.
Ohio's open park policy.
BET. CAMP.
7(6):37-38, June 1966. Illus.

Ohio has inaugurated a new state park policy of keeping campgrounds open 12 months of the year and not turning away any campers. Governor Rhodes kicks off year-round camping in the month of February. Ohio has set up overflow areas in all of its state parks.

60584 Ripley, T. H.
Rehabilitation of forest recreation. In Society
of American Foresters. Proceedings, 1965.
Detroit
p. 35-36, 1966.

If foresters have a developed site that is badly damaged or overused, they should decide if it might not be better to relocate the site where it would be much easier to maintain and much less susceptible to degradation through human use. Our failure in the past to recognize the unnatural condition we create by introducing people into a forest environment has created many problems to be corrected.

60585 Taylor, G.D.
Land'classification for multiple use—a recreational view. In Proceedings,
National Committee on Forest Land.
p. 81-86, 1966.

A proposal to integrate the physical characteristics of land required for recreation into a system designed to classify land for multiple use.

60586 Tufty, B. Redwoods win protection. SCIENCE NEWS 89(16):264-266, Apr. 16, 1966.

Stands of ancient California redwoods are being protected by scientists, nature lovers, and politicians in the eternal conflict of beauty versus utility. The trees are endangered by lumber interests and road engineers. Pressure must constantly be maintained by private, State and Federal institutions to promote protection of these trees.

60587 Udall, S. L. Secretary of Interior writes to lumber company on National Park. WEST. MOB. HOME NEWS 16(13):7, Sept. 12, 1966.

No abstract.

60588
Multiple use for the North Cascades.
AMER. FOR.
72(12):13, Dec. 1966.

An explanation of the American Forestry
Association's endorsement of multiple use management of the North Cascades in the State of
Washington, including preservation of wilderness
values, as presently administered by the Forest
Service.

60589 Appelt, S.; Moorman, R. Underground cables. An annotated bibliography, 1960-1965. Portland, Oreg., Bonneville Power Administration 325p. 1966.

Interest in natural beauty has stimulated the need for underground transmission lines. This

aspect is treated in this bibliography as well as the economic and technical aspects of cable design, installation, etc.

60590 Aull, G. H., Jr. Current trends in recreation and parks. PARKS RECREAT. 1(7):553-554, July 1966.

The achievement of status of recreation in government organization, and the emphasis upon parks and open space within the community, are two of the major trends in this discussion. Planning standards are under consideration, too. For parks and recreation the planning standards must be based upon more realistic appraisal of the circumstances, the needs, and the forecasts for the future.

60591 Cartsonis, E. M.
"Ten minute town" designed around pathway system.
LANDSC. ARCHITECT.
57(1):40-42, Oct. 1966. Maps, photos.

Describes Litchfield Park, a new town 18 miles west of Phoenix, Arizona. The community is oriented to leisure of movement and non-automobile traffic is provided with a 12-foot wide pathway system.

60592 Caudill, H. M. An offense against America. AUDUBCN 68(5):357-359, Sept. -Oct., 1966. Photos.

The Poor Fork of the Cumberland River in the Appalachians and U.S. 119 which winds along the banks - an area of unspoiled natural beauty observed by the traveller ten years ago. Now coal and coke operations have cut gashes in the earth and produced taller slopes of unstable soil filling, spoiling the stream and upsetting the natural flora and wildlife. The corporation which extracted the coal has reaped a bumper harvest of ill will. Strip-mining on such steep terrain is wholly inconsistent with the preservation of natural beauty and the natural balance of life. Local and State statutes are unequal to the task of controlling such economic and corporate pressure. Only a national conscience and a Federal strength of purpose can preserve the hills, hollows, streams, fish and wildlife of the yet unravaged lands.

60593 Creese, W. L.
The search for environment.
New Haven, Yale Univ. Press
360p. 1966. Ref., illus., photos.

The thirst for environmental beauty in England reached its peak in the 1890's when the garden city appeared. The cultural implications of this development in architectural form and community planning are set forth. Examples are taken mainly from the British Isles, but the overseas images are also discussed.

60594 Elliott, J. E. Think multi-use! CAMP. MAG. 38(4):34-37, 39, Apr. 1966.

Discusses the major planning considerations essential to the development of camp facilities for off-season use.

60595 Flanagan, W.L. Welfare Council urges land acquisition. PRAIRIE CLUB BULL. (556):3, 4, May 1966.

The Open Lands Committee of the Welfare Council of Metropolitan Chicago presents a proposal to solve Northern Illinois' open lands problems. The program recommends that: (1) land be acquired as soon as possible for additional acreage of land for a State park system and a 500% increase in recreation facilities; (2) a multi-park plan be developed by a regional authority to take care of county park systems; (3) park and recreation space be increased immediately in Chicago.

60596 Gold, S. M. An approach to outdoor recreation planning. IZAAK WALTON MAG. 31(8/9):17-19, Aug. -Sept. 1966. Photos.

Discusses the general misconception of the duties and responsibilities of the recreation planner. The role of the planner in relation to the citizen, his appointed representatives, is described.

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60597 Hughes, W. G. Historic preservation and urban renewal. GARD. CLUB AMER. BULL. 54(1):54-57, Jan. 1966.

The interests of historic preservation and urban renewal need not clash. The experience of WHALE (Waterfront Historic Area League) in New Bedford, Massachusetts, is cited as a good example of cooperation. If the historic preservationists have a fair and ready plan, the problems with urban renewal can usually be worked out.

60598 Johnson-Marshall, P. Rebuilding cities. Chicago, Aldine 390p. 1966. Illus., photos.

The book presents evidence, both good and bad, of a half century in the building and rebuilding of cities and the evolving principles for creating new urban quarters. The author, professor of urban design and regional planning, University of Edinburgh, treats architecture and urban design as a unified process. He emphasizes the role of the pedestrian core for assembly and meeting place and those elements which allow a city to function culturally and to pass on the cultural heritage and give form to all its subordinate activities. Where the civic nucleus does not

exist or is shrunken, the town"becomes an undifferentiated, urbanoid mass. "The concept is applied through the use of a wealth of illustrations to modern town planning and city design. The civic nucleus criteria should also be applied in the planning of neighborhoods, precincts and sectors.

60599 Laurie, M.
The California influence on contemporary landscape architecture.
LANDSC. ARCHITECT.
56(4):292-298, July 1966. Photos.

A narrative about the role that Olmsted, Muir, and other California conservation giants played in the shaping of landscape architecture as it is known today.

60600 Lehmann, R. A.
The principles of waterfront renewal: A summary of experiences in fifty American cities.
LANDSC. ARCHITECT.
56(4):286-291, July 1966. Illus., photos.

The article discusses the advantages of waterfronts as urban renewal sites, and the general principles followed in redesigning waterfronts to create a more pleasing environment for recreation, shopping, creative arts, and passive enjoyment.

60601 Mackie, D. J.
Site planning to reduce deterioration. In Society of American Foresters. Proceedings, 1965.
Detroit
p. 33-34, 1966.

One of the three basic considerations on which the successful park system stands is "recreation area site design." The other two elements are "high quality sites" and "good management". For intelligent recreation site planning, foresters must take soil limitations into account. A discussion of the requirements for picnic areas, trails, and campgrounds are included.

60602 Morrison, C. C., Jr.
A national survey of outdoor recreation participation and preference.
Speech Presented Before the Annual Meeting of the Association of American Geographers,
Toronto, Canada, Aug. 30, 1966.
10p, Aug. 1966.

The National Recreation Survey of 1965 conducted by the Bureau of the Census is described: sample design, extent of the interview work, purpose, and subject matter rationale. The subject matter of the surveys included: the respondent's vacations, overnight trips, recreation outings, and their preferences in recreational activities. These surveys will be utilized by the Bureau of Outdoor Recreation in preparing the Nationwide Plan which is scheduled for completion by 1968.

The problems in analyzing and correlating the data from these surveys and in their applications to planning models are discussed. It is pointed out that the essence of planning is policy recommendation.

60603 Murdoch, K. A. City management speaks out. PARKS RECREAT. 1(5):413, 456, 457, May 1966.

When city management looks at the parks and recreation service, it takes in the very wide picture of recreation and recreation facilities, both public and private. The day of completely unplanned recreation is past. City Manager Murdoch sets forth what he expects of parks and recreation people.

60604 Pearson, N.
Total planning for a region for recreation.
CAN. AUDUBON
28(1):1-7, Jan. -Feb. 1966.

A description of the legislation and the problems in the planning of the North Georgian Bay Recreational Reserve in Ontario is presented.

60605 Sayers, P.R. Whence and whither? From parks superintendents to leisure planners. PARK ADMIN. 31(12):18-19, Dec. 1966.

No abstract.

60606 Sharpe, G. W.
University of Michigan professor looks at future outdoors.
MICH. OUT-OF-DOORS
17(6):9, June 1966.

A university professor sees flying scooters, instant camps, and computer-type guidance in future outdoor recreation. The task of protecting, revitalizing, and enlarging recreation lands is monumental.

60607 Smith, R. J.
"Service stations can be attractive" says Palm
Springs Zoning Ordinance.
WEST. CITY
42(7):38, July 1966. Photos.

The Planning Commission and its Architectural Advisory Committee in Palm Springs, California, has been successful in promoting the development of eye-appealing service stations. This has been possible through zoning, architecture, and planning commission policy.

60608 Stein, C.S.
Toward new towns for America.
Cambridge, M. I. T. Press
263p. 1966. Ref., illus., photos.

The 1966 slightly revised edition of an earlier work of the same title re-explores experiences in planning several communities, which were conceived as new projects or towns. The author, a noted architect, believes that urban environment can best be changed by building new towns on new sites. Several projects and famous communities planned or developed in association with other professionals are described and the planning criteria used in their construction are explained. Lewis Mumford, another outstanding American architect and city planner, has prepared the introduction which points out the contribution the author, Clarence Stein, has made to the new town concept in America. The influence on American thought of the British contribution to new town planning is emphasized.

60609 Stroud, R. H. Key values in outdoor recreation planning. Washington, Sport Fishing Institute 9p. 1966.

This was the keynote address delivered by the Exec. Vice Pres., SFI, at the Northeastern Fish & Wildlife Conference, Boston, Jan. 17. 1966. Among the outdoor recreation values and problems was the overriding conservation issue of the sixties—the conflict between the philosophies of resource isolation and resource utilization. Preservation is only a part of a more mature conservation philosophy. Proper management of fish and game stocks is vital so resource specialists play a key role in sound conservation. The sports of hunting and fishing play a key recreational role. A re-emphasis on these traditional sports is urged.

60610 U.S. Bureau of Outdoor Recreation Focus on the Hudson. Evaluation of proposals and alternatives. Washington, Govt. Print. Off. 51p. 1966. Maps, photos.

The Bureau of Outdoor Recreation, under auspices of the Recreation Advisory Council, completed this study on the Hudson River Valley to provide a basis for Executive Branch comments on the Hudson Highlands National Scenic Riverway bills. The study, prepared by a Bureau of Outdoor Recreation and Park Service team, includes both air and automobile coverage of the Hudson River. The report reviews, summarizes, and evaluates the various proposals for the Hudson River corridor, particularly those relating to the scenic, recreation and historic resources of the area. Basic issues discussed include water pollution, urban blight, inadequate access to the river, piecemeal approach to planning and development, and conflicting land uses. Possible alternative actions and recommendations are considered. Data, findings and recommendations contained in the Hudson River Valley Commission's Summary Report, as well as other

published reports dealing with the existing and future development of the Hudson River area, are presented in summary with appropriate reference to detailed reports in the text.

60611 Weismantel, W. How the landscape affects neighborhood status. LANDSC. ARCHITECT. 56(3):190-194, Apr. 1966. Table, maps.

Here is a study of the influence of urban landscape as exemplified in the conserving and renewing influence of Boston's Charles River Basin and Park System. 60612 Forever pastoral. ADIRONDAC 30(4):75, July-Aug., 1966.

A section of beautiful meadows and eight miles of mountain valley between Keene Valley and Keene are earmarked for unspoiled preservation.

60613
Long line forms as Federal funds become available for county and local parks.
PARK MAINTEN.
19(5):42-43, May 1966.

The plans of a number of local parks for expansion with the aid of federal funds are described.

60614
"The Path is Dead" in Manhattan.
LANDSC. ARCHITECT.
56(3):231, Apr. 1966. Photos.

Many new designs and ideas are exerting a refreshing influence on the course of new playground, park, and housing project design today. The designs and work of Paul Friedberg in Manhattan are symptomatic of these refreshing changes. With city approval, Friedberg is transforming exterior spaces in a three-dimensional land use manner that removes the proprietary look of fenced-off playgrounds. In explaining his "path is dead" concept, Mr. Friedberg reports that the idea is to take away the rigid, coercive path structure imposed on old projects and to look on the entire space as one big path—almost a "happening" for the benefit of the entire community.

60615 Treasure Island, Florida. AMER. SHORE BEACH PRESERV. ASS. NEWS LETT. p. 3, Aug. 31, 1966.

A beach restoration project to be undertaken by the Corps of Engineers includes Treasure Island in Pinellas County, Fla. This article explains the benefits, both public and private. The public would enjoy recreation use of the entire reconstructed beach, while private property owners along the Treasure Island shoreline would benefit from the protection of their existing uplands by the project. Success in the Treasure Island experiment will set a very valuable precedent for public-private cooperation.

60616 Brooks, P. L., Jr.
Asian native conquers desert sands.
DESERT
29(12):10-11, Dec. 1966.

A tree, Tamarix or Athel, native to western Asia, is selected for windbreak planting by the Southern Pacific Railroad in desert areas. Growth quickly proliferates in sandy and rocky soil. Area landowners are requesting assistance in sand control and the tree is being promoted by the Soil Conservation Service.

60617 Cain, S. A.

Program concepts of the Dept. of the Interior with regard to fish and wildlife. In International Association of Game, Fish and Conservation Commissioners, Proceedings, 55th convention, 1965.

Portland, Oreg. p. 109-116, 1966.

Program concepts are interpreted. The program of the Bureau of Commercial Fisheries is concerned with oceanic resources and calls for expanded investigation of the environments of the seas and of the biological resources associated with them. The international treaty organizations and F.A.O. are supported. Treaties with foreign countries on the natural resource and production of cheap fish protein for world consumption is part of this Bureau's responsibility. Cooperation is needed between the States and the Federal Government on the research of estuaries and the inland water improvements. Research in fisheries management and wildlife, especially refuge management, is the responsibility of the Bureau of Sport Fisheries and Wildlife in cooperation with the States and neighboring countries. The boundaries between State and Federal jurisdictions regarding fish and wildlife management are areas of dispute. More needs to be known about endangered species. Problems in wildlife management involve the growing pressure to use wildlife areas for recreation. Human population, agriculture, industry, and other related causes of habitat destruction and pollution create major problems. The control of the general environment must be achieved regardless of cost; for man himself is the endangered species. Research and cooperation with other nations in developing and controlling the natural environment for mankind is part of the responsibility of the Interior Department.

60618 Chapman, C. W.
The importance of forestry in Georgia's soil conservation program.
FOR. FARM.
25(8):26, 50, Apr. 1966. Photo.

Georgia landowners now realize the importance of woodlands. In making the best use of their land and water resources, the landowners are using trees to control soil erosion, help prevent floods, and make the rural landscape more attractive. The landowners realize that trees have recreational and landscape beauty values as well as their use in erosion control and economic value as timber. Landowners are using soils information to decide the type of trees to plant in specific locations, to predict tree growth, to determine erosion control needs, and other data essential to woodland management.

60619 Coleman, P.
The Susquehanna River basin compact.
PA. ANGL.
35(9):1-3, Sept. 1966. Photos.

This year the Interstate Advisory Committee on the Susquehanna River Basin proposed the Susquehanna River Basin Compact. It would join the States of New York, Pennsylvania, and Maryland and the Federal Government as equal partners in a Susquehanna River Basin Commission. This article explains the survey being conducted, the comprehensive plan, and the development program for water and related land resources including water-based recreation.

60620 Day, Mrs. R. E. Blue star memorial highways. NAT. GARDEN. 37(7-8):71-72, July-Aug. 1966.

No abstract.

60621 Delaware River Basin Commission
Manual of Federal aid programs for water resource development in the Delaware River Basin.
n. p.
95p. 1966.

This publication is compiled to provide a comprehensive description of federal aid for the development of water resources and related projects by state and local communities. Major topics treated are: fish and wildlife protection; disaster relief and repairs; ground water; hydroelectric power; recreation; research and planning projects; navigation; soil erosion and irrigation. Detailed information on aid for recreation programs includes eligibility, legal source, administering agency, financial provision, and source for program and application information.

60622 Eschmeyer, R. W. Stocking—a fundamental of fish conservation. IOWA CONSERV. 25(5):36-40, May 1966.

Fish need lots of food. Instances in which planting warm water fingerlings serves a good purpose are given. Circumstances are provided under which stocking with cold water species will probably prove beneficial. Both beneficial and harmful introductions are described. Productive and successful hatchery programs result only where trained fishery biologists are handling planting programs and are judiciously using hatcheries as only one phase of a fisheries management program.

60623 Freeman, O. L.
The "Greenspan" program.
PARKS RECREAT.
1(10):829-830, Oct. 1966. Photos.

The Secretary of Agriculture describes the "Greenspan" plan, which is a part of the Cropland Adjustment Program. In brief, the plan provides dollar help to government entities interested in buying cropland for conversion to public recreation and conservation uses.

60624 Graetz, K. E. Sericea for erosion protection and beauty along highways.

J. SOIL WAT. CONSERV.
21(3):92-94, May-June 1966. Ref., photos, table.

No abstract.

60625 Grant, E. Conservation education for students of high and elementary schools.
N. J. OUTD.
16(11):9-13, May 1966. Photos.

The New Jersey Department of Conservation and Economic Development helps elementary and high school youngsters to become aware of the vital importance of our natural resources and their conservation.

60626 Grant, E.; Peterman, W.
The State School of Conservation. With special reference to the program for students of the six state colleges.
N. J. OUTD.
16(9):13-20, Mar. 1966. Photos.

How the future teachers and decision-makers of tomorrow are learning basic facts about the importance of natural resources in a setting that permits first-hand examination of many elements of the natural environment.

60627 Hass, H. C. Combat soil erosion. CAMP. MAG. 38(6):26, 28, June 1966. Map.

Camp McLean at Rockland Lake in Chicago had so much soil and water erosion during a period of 25 years, that it was necessary to employ a concentrated conservation program to save the camp. Chicago's Austin YMCA, Racine County Soil and Water Conservation District, the U.S. D.A. Soil Conservation Service and the Wisconsin Conservation Department were largely responsible for this fine work.

60628 Henley, J.
The rainbow treasure in Kentucky waters.
KY. HAPPY HUNT. GROUND
22(27):17-18, Mar. 1966. Photos.

The Kentucky trout stocking program has grown in the past few years but falls short of future needs and goals for the State. Fishing pressure has increased and the rate of harvest and fishing success has increased. Studies are carried out on cold water streams where trout are released.

60629 Hoover, J. E. What have we done with Arbor Day? TRENDS PARKS RECREAT. 3(2):1-2, 4, Apr. 1966. Photos.

Vandalism is largely a juvenile crime. Small children may be taught positive attitudes concerning the need for preserving and protecting the natural gifts in our surroundings. Those who plant trees or flowers and watch them grow seldom desecrate parks or forests. Arbor Day should be revived as a method of teaching conservation values.

60630 Johns, W. T. For the beauty of America. N. J. OUTD. 17(4):3, Oct. 1966.

Some thoughts and suggestions on how one can help protect natural beauty, the theme of National Wildlife Week 1966.

60631 Johnson, W. O. Warming and informing. MD. CONSERV. 43(4):15-16, Aug. 1966. Map, photos.

The Interpretive Campfire Program operated by the Maryland Dept. of Forests and Parks is a family-centered educational and recreational activity. Each program, conducted by a state naturalist, is designed to explain park phenomena while promoting good conservation practices. The Interpretative Campfire Schedule for Maryland State parks is included. 60632 Kraus, R.
Recreation and the Job Corps.
PARKS RECREAT.
1(11):898-900, 929-930, Nov. 1966. Photos.

Recreation has been given increased recognition as a component of services within such programs as VISTA, Neighborhood Youth Corps, HUD, and the community action programs of the Office of Economic Opportunity. Its potential contribution is greatest, however, within the Job Corps. Here is described the recreation program of the Job Corps and how recreation is helping in the attainment of the goals of the War on Poverty.

60633 Landahl, W. L. How to use landmarks in program. PARKS RECREAT. 1(8):642-643, Aug. 1966. Illus.

Three historical landmarks—Fort Osage Restoration (1808), Civil War Battlefield Museum at Lone Jack, and Missouri Town 1855 at Lake Jacomo—are administered by the Jackson County Park Dept., Missouri. The history of their purchase and restoration point to local pride and interest in preserving the area's historic past.

60634 McDermott, J. D.
The history program of the National Park Service.
PARK MAINTEN.
19(8):24-28, Aug. 1966. Photos.

Historic Sites Act of 1935 provided authority for the National Park Service to launch a program "to preserve for public use historic sites, buildings, and objects of national significance". Progress made under the National Park Service's historical program since the passage of the 1935 legislation is described.

60635 Myers, J. W., Jr.
Program for forest lands in State, local and private ownership.
FOR. FARM.
25(4):10, 19-21, Jan. 1966.

The principal features of the 15-point proposed program, and estimated average cost, showing Federal participation only, are presented in this article. It summarizes the preliminary plans for a 10-year Department of Agriculture program for forest lands in State, local and private ownership.

60636 Olzendam, R. M. Keeping America green. AMER. FOR. 72(6):8-11, June 1966.

The Keep Green program is a national outgrowth of a volunteer Washington state program that is assisted by the state government. During the last 25 years it has witnessed an 82% average

drop in acres of forests burned per year. Thirty-seven States and several Canadian provinces now are organized. Educating the public is an important step in controlling the number of fires set. A national organization, American Forest Products Industries, Inc. distributes materials to schools and colleges. Two points about fires are important: (1) the principal cause of fires is man's carelessness which cause 90% of the forest fires; (2) quick detection is the key to forest fire control. A history of fire fighting techniques is given.

60637 Peterman, W. E.
Rabbit trap and transfer program.
N. J. OUTD.
17(5):15-18, Nov. 1966. Photos.

The Bureau of Wildlife Management has a program for group participation in the stocking of rabbits. This program as well as habitat improvement for low rabbit populations is discussed and illustrated.

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60638 Randall, C. E. You can be a conservationist. AMER. FOR. 72(4):17-27, Apr. 1966. Illus.

This article explains the meaning of conservation of resources—soil, water, forests, grasslands, etc.—and what can be done about it. Includes a Conservation Pledge: "I give my pledge as an American to revere the living earth of which I am a part and to cherish all things living on, over and beneath its surface."

60639 Reagen, M. V. New Jersey township solves its emergency rescue problems. SWIM. POOL AGE 40(8):24-25, Aug. 1966.

Livingston, New Jersey, has solved its aquatic emergencies with the help of members of the Fire Department, the Police Department, paid and volunteer rescue personnel and qualified residents. These people are given the Red Cross Survival swimming course and training in areas of advanced resuscitation, basic water safety, and lifesaving techniques.

60640 Rosen, H. Conservation education in the action stage. PA. ANGL. 35(10):20, Oct. 1966.

Here are listed some of the enterprises which have proved effective for a positive training effect on young people. The rewards of this training are not only immediate but lasting. They result in having far better conservation practices for tomorrow's citizenry.

60641 Sage, D.; Bowmen, W. New hope for the Rahway River. N. J. OUTD. 17(2):10-13, Aug. 1966.

A program sponsored by local community organizations is underway to clean up the Rahway River and build small stone dams to provide "holding water" so trout can thrive again.

60642 Shomon, J. J.
The Greenspan program.
AUDUBON
68(6):414-415, Nov.-Dec. 1966.

A new U. S. Department of Agriculture program called "Greenspan" may become a boon to open space preservation and nature center development. As part of the Federal Cropland Adjustment Program, it provides Federal grants to assist farmers who agree to move land out of production of certain crops and into conservation use. It also offers funds to help local and State governments to acquire land for permanent conversion to open space, natural beauty, wildlife habitat, or public recreation, or for the control of air or water pollution. Application of the plan to Newark, N. Y., is described.

60643 U. S. Dept. of Agriculture Financing rural recreation facilities. LEISURE 8(1):9-12, Mar. 1966.

The U. S. D. A. program administered by the Farmers Home Administration to finance rural recreation facilities is explained.

60644 U. S. Dept. of the Interior Program for advancing underground electric power transmission technology. Washington 33p. 1966.

In order to accomplish the recommendations of the Panel on Underground Installation of Utilities, of the White House Conference on Natural Beauty, this report charts a cooperative research effort between government and industry. It recommends a research program to lower the cost of placing transmission lines underground and to improve transmission technology. In addition to specific recommendations by Stewart Udall, Secretary of the Interior, and Kenneth Holum, Assistant Secretary, Water and Power Development, all aspects of the program for advancing underground electric power transmission technology are presented and explained in detail.

60645 U.S. Economic Development Administration. Handbook of Federal aids to communities. Washington 111p. 1966.

This handbook describes the Federal programs which provide any kind of aid to communities.

Included are discussions of the financial and technical assistance available through the Bureau of Outdoor Recreation.

7.63

60646 U. S. President (Lyndon B. Johnson) Message to Congress on pollution. TRENDS PARKS RECREAT. 3(2):6-10, Apr. 1966. Photo.

A message to Congress by the President details the pollution of our waters and proposes a Clean Rivers Demonstration Program. The four requirements for participation and benefits in the program and the enforcement authority on pollution vested in the Federal Government are enumerated. The proposal deals with: research for comprehensive pollution control; control of air pollution; pollution from federal activities; human resources for pollution control; impact on cities; and the establishment of a National Water Commission. The president also proposes the completion of our National Park System by 1972; creation of a Redwood National Park in northern California; various Outdoor Recreation programs; a Nationwide Trail System; grants to States and to the National Trust for Historic Preservation; a Wild River System. The costs of land acquisition are to undergo investigative procedures for protecting the government against artificial price spirals. The President proclaims a conservation creed to preserve our natural heritage with rights and the duties to respect those rights.

60647 Wirth, C. L.
The mission called 66.
NAT. GEOGR.
130(1):7-46, July 1966. Photos.

Seldom has a single program which so affects the inspirational heritage of a Nation been implemented in such a short time. Great was the need. In 1956 our national parks were overcrowded, historic sites showed signs of ruinous wear. A system equipped to handle 21 million visitors a year was being flooded by 55 million. The author decided the answer to keeping the park areas intact lay in a 10-year package program called Mission 66. This program has brought about park improvements, additional lands, new methods of visitor protection, better operating procedures, and new interpretation of park values.

60648
America the beautiful, let's keep it that way.
RECREAT. MANAGE.
9(5):10-11, June-July 1966. Illus.

Industrial recreation has much to gain in helping the efforts of community, state and federal campaigns to clean up, fix up, conserve, and keep America beautiful. When Owens-Illinois' Recreation Association joined the "keep America beautiful" movement, the entire town of Toledo gained by it. The true and lasting reward is a cleaner and more beautiful city in which to live, work and play.

60649
New York community starts first "Greenspan"
Project.
CONSERV. NEWS
31(13):5-6, July 1, 1966.

The Village of Newark, N. Y. has a new "Greenspan" Project. This project is given to a community action plan provided for in the new Cropland Adjustment Program which shifts cropland to other uses. The first Greenspan area will be developed into a village recreation area, primarily for children. Present plans call for a bird sanctuary, wildlife pond, picnic area, novice ski slope and ice skating rink.

60650
Public access obtained and developed.
IDAHO WILDL. REV.
18(4):11, 14, Mar. -Apr. 1966. Photos.

The Idaho Fish and Game Department has a five-point program for the future. A key part of this program is to acquire and develop public access sites to major fishing and hunting waters.

60651
Sportsmen clean up Lake Merced.
OUTD. CALIF.
27(7):11-12, July 1966. Photos.

No abstract.

60652 Variety of areas and facilities under development by all levels of government. PARK MAINTEN. 19(5):52-53, May 1966.

Both State and local park and recreation agencies are acquiring land for new parks and facilities, some of which are described.

60653 Bannon, J. J. Methods of problem solving. PARKS RECREAT. 1(11):917-918, Nov. 1966.

Here are results of ideas presented at the 10th Institute for Recreation Administrators, on "Creative Problem Solving", held at Minneapolis, Minnesota. The problems studied at the sessions are listed and the steps recommended in solving the problems of recreation administrators are summarized.

60654 Bannon, J. J. Summer internship program. PARKS RECREAT. 1(4):321,374, Apr. 1966. Photo.

Topeka's nine-week program acquaints recreation majors with many aspects of community life. 60655 Galloway, H.
Thoughts on being a good camp director.
CAMP. MAG.
38(6):32, June 1966.

A good director is largely responsible for the success of a camp. The qualities of a good director are enumerated and discussed.

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60656 Gasper, D. Fisheries biologist. W.VA. CONSERV. 30(1):22-24, Mar. 1966. Illus.

Biologists have doubled "fishing time" since taking a realistic approach to fishery enigmas. There are over 3,000 fish biologists in North America today, including 9 in West Virginia. More than 25 million U.S. fishermen each year spend over \$3 billion, and fresh water fishermen are increasing at a rate of 3.3% per year.

60657 Herrick, A. M.
Training foresters. . for tomorrow.
FOR. FARM.
25(8):19-20, Apr. 1966. Photos.

Practicing foresters are now engaged in applying knowledge and using techniques unheard of a decade or two ago. The author, Dean of the University of Georgia's School of Forestry, emphasizes the necessity of long-range resource management planning and that forestry education must respond to the challenge of change.

60658 Hines, T. I. Curriculum in recreation and park administration. N. C. RECREAT. REV. 19(4):4-5, July-Aug. 1966.

The undergraduate recreation curriculum—its history and development and improvement—at North Carolina State University. Professor Hines challenges the practitioners and executives in the parks and recreation field to seek out such graduates before these young professionals are employed elsewhere.

60659 Horn, M. E., Jr. Lessons in adventure. PARKS RECREAT. 1(9):704-705, 767, Sept. 1966. Photos.

The National Outdoor Leadership School offers a 31-day course to develop mountain climbing leaders. Subject content is listed. During the summer of 1966, the School conducted 3 courses and graduated about 100 leaders. Plans are being made to start a leadership school for women, too.

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60660 International Council on Health, Physical Education, and Recreation. International Congress, 8th, Addis Ababa, 1965. Proceedings.
Washington

115p. 1966. Illus.
Representatives of 30 countries participated.
President Aimsworth spoke of the Council's projects during the year, its growth, hopes, and vision for the future. Purposes of education in all societies were reviewed, and limiting factors, particularly in developing countries, were noted.

60661 Maunder, E. R.; Fry, A. The Dana years. Part I. AMER. FOR. 72(11):32-35,62,64,66, Nov. 1966. Photos.

An interview with Samuel Trask Dana, Dean Emeritus, University of Michigan's School of Natural Resources, depicts his own career in the Forest Service and careers of other administrators with whom he was associated.

60662 Maunder, E. R.; Fry, A. The Dana Years. Part II. AMER. FOR. 72(12):26-29, 50-55, Dec. 1966. Photos.

On November 1, 1966, University President Hatcher announced an endowed professorship in outdoor recreation at the University of Michigan—to be named the Samuel Trask Dana Endowed Chair of Outdoor Recreation. Here is printed an interview that the authors had with Dr. Samuel Trask Dana. In this interview the highlights are brought out in Dr. Dana's career while he was Forest Commissioner of Maine from 1921 to 1923.

60663 Sessoms, H. D. Recreation enrollment growth reported. PARKS RECREAT. 1(10):867-869, Oct. 1966.

Dr. Sessoms presents statistics on numbers of schools granting degrees and numbers of rec-

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60664 Sharpe, G. W.; Sutton, M. D.; Rotty, R. Wave of the future.
AMER. FOR.
72(2):20-21, 44-45, Feb. 1966. Photos.

Foreign park executives from 15 nations were invited to a short course on national park administration in May, 1966. Co-sponsored by the University of Michigan and the National Park Service in cooperation with the Forest Service, Organization of American States, Bureau of Outdoor Recreation, and the International Union for the Conservation of Nature. The course was very successful.

60665 Silliman, A.
Psychological tips for teachers.
CONSERVATIONIST
21(1):30-32, Aug. -Sept. 1966. Photos.

Facts, research, discussion and particularly involvement blaze the conservation trail on which to guide the rising generation. Illustrations of teaching methods are discussed with respect to a specific hike for tree study and a field trip featuring water. A checklist of psychological principles and devices for conservation teaching is provided. Personal observation and the joy of being outdoors bring satisfaction to the education experience.

60666 Trask, B. A.
The eighth annual mountain leadership workshop.
APPALACHIA
36(2):366-372, Dec. 15, 1966. Photos.

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No abstract.

RECREATION USERS, DEMANDS AND VALUES

60667 Avedon, E. M. Outdoor facilities for the aged or disabled. PARKS RECREAT. 1(5):426-429, 441, May 1966. Ref., photos.

Public park and recreation facilities should be accessible to all people. New legislation makes it possible to plan a facility to accommodate everyone. A large number of people cannot use many public facilities because they are either physically inaccessible or hazardous.

60668 Brown, J.
Camper/counselor relationships.
CAMP. MAG.
38(5):8-12, May 1966. Illus., tables.

Presentation of an objective, in-depth study and analysis of camper-counselor relationships.

60669 Heeney, W.; Abbott, S. Youth fairs: Do they hit the mark? AMUSE. BUS. 78(23):20-22, June 11, 1966. Photos:

An analysis of the widely varied youth market for recreation. The latest attempt to corral this youth market is the Teen-Age Fair. By the end of this year, there will have been over 25 youth fairs and exhibitions in the U.S.A. Regardless of what it is called, the format is basically the same: exhibits consisting of cars, clothes, records, household furnishings and service firms—with a wraparound of entertainment, games and often carnival rides.

60670 Hood, M.V.; Hood, W. Nature and the camper. Los Angeles, Ward Ritchie Press. 157p. 1966. Ref., illus.

Presented is a guide to safety and enjoyment for campers, hikers, hunters, and fishermen on the Pacific Slope and southwest deserts. The book has four objectives: (1) to remove false fear; (2) to alert the prospective camper or hiker to the relatively few natural hazards to be found; (3) to help youth leaders, including parents, appreciate the privilege they have in introducing youngsters to the fun of being out-of-doors; (4) to save the lives of innocent creatures which are often killed on sight because of lack of knowledge concerning their effect on man. The book is divided into the following sections: animals of land and air; animals of the seashore; man and plants; and the camp and the trail.

60671 Miller, D. Are you using your most valuable asset? PARKS RECREAT. 1(6):494-495, June 1966. Photo.

A most valuable, and often untapped, asset of many parks and recreation departments can be the youth of the community. This age group most enjoys using the park facilities and participating in recreation programs. High School age boys are exposed to the world of work, and at the same time offered recreation facilities.

60672 Oliver, J.N. Add challenge with variety in activities. JOPHER 37(4): 30-32, Apr. 1966.

Activities for mentally retarded children suggested, with the best approaches for different age and achievement potential levels. For use primarily by camp counselors in summer day camps for the mentally retarded.

60673 Stein, J.U.
The mentally retarded need recreation.
PARKS RECREAT.
1(7):574-575, 577-578, 594, July 1966. Refs.

A report on the recreation interests and leisure-time pursuits of the mentally retarded.

60674 Swift, E. Youth and a crucible of self-sufficiency. N. J. OUTD. 16(10):1, 24-26, Apr. 1966.

The virtues of pioneering are praised, especially the development of self-reliance in boys. As a substitute for frontier ways of life, the old CCC Camp idea is recommended to improve the boys of today—in physical well-being, in ideals, in purpose, and with a little more interest acquired in America, their heritage.

60675 Tupper, M.
No place to play.
Philadelphia, Chilton Books
293p. 1966. Photos.

The author discusses recreation needs, prevention of delinquency, water pollution, the place of private enterprise, the role of government, recreation travel, the village common, and new towns—covering almost the entire spectrum of our troubled human environment. The theme which threads throughout the text is on the disappearance of good play places for children. The final chapter embodies a plea for a green legacy.

60676 Wagar, J.V.K. Some fundamental characteristics of outdoor recreation. J. FOREST.

64(10):667-673, Oct. 1966. Ref., photos, tables.

Outdoor recreation management is hampered by many who mistake recognition of happy participants (spending time and money) for understanding of areas, activities, and recreationists. Areas vary principally in condition, size, numbers, and accessibility. Activities vary chiefly in intensity of contest and expertness, and effort expended. Recreationists differ primarily in knowledge, skill, fairness, and honesty. Other definitions and analyses are presented.

60677 Many State parks have that new look. KY. HAPPY HUNT. GROUND 22(3):27, 29, May 1966. Illus.

A report on tourism reveals the travel industry in Kentucky showed a nine per cent growth last year. The State's Department of Parks records attendance at 33 state parks and shrines of more than 15,000,000 persons. The Department plans a facilities expansion program ranging from deluxe accommodations to primitive camps sites. Twenty major developments are listed and described.

60678 Canada. Dept. of Northern Affairs and National Resources. Natural and Historic Resources Branch. Visitors to five national historic parks. Ottawa, Dept. of Northern Affairs and Natural Resources 25p. 1966. (Its Recreational Research Report 19.)

A study of five historical parks provided information on the number of visitors, their characteristics (residence, party size, length of stay, and major interests in the park), and their distribution in the park. This data was collected using traffic counters and observational methods on a sample basis.

60679 Gebelein, H.; Willis, P.W. The Vermont ski market 1965-66. Montpelier, Vermont Development Department 35p. 1966. Tables.

Initiated by the Vt. Development Dept. in Feb. 1966 and completed by summer, 1966, the three phases of this study were (1) interviews with skiers at the ski areas, (2) questionnaires sent to a list of 4,562 skiers, and (3) open ended interviews with the ski area managers. Reported here are skier characteristics, skiers' comments, managers' interviews (including analyses of market trends, plans, labor force data, and financial data), plus conclusion and recommend tions. Tables include origin of skiers, length of stay, housing, daily expenditures of skiers, media attracting skiers to Vt., choice of ski area, labor force data, and information sources.

60680 Graves, W.A. Teachers' reading and regreational interests. nea j, 55(8):17-19, Nov. 1966, Tables.

A survey of teachers 'out-of-school recreational interests revealed that they participated in hiking and swimming more than any other sports. Football was the most frequently watched spectator sport. Tables which dealt specifically with recreation gave the percentage of teachers indicating certain limitations on recreational time; the spectator sports watched by various percentages of teachers; and the sports participated in by various percentages of teachers.

60681 King, D.A. Characteristics of family campers using the Huron-Manistee National Forests. St. Paul, Minn., Lake States Forest Experiment The second section of the second Station 11p. 1966. Hlus. (U.S. For. Serv. Research of the second second second Paper LS-19).

All of the campgrounds on both forests were sampled, each one on 24 days during the summer. Each time 25% of the occupied campaites were selected at random, for interviewing with a total of 564 groups being interviewed. Information on the origin, number and length of camping trips taken, campers' socio-economic characteristics and their camping experiences were obtained.

60682 Deasy, G.F.; Griess, P.R. Impact of a tourist facility on its hinterland. ann. Ass. Amer. Geogr. 56(2):290-306, June 1966. Illus., maps.

An analysis is made of the effect of a facility on its hinterland, the degree of impact being postulated as a function of the friction of distance. The validity of this concept is tested by analyzing the actual impact of two similar tourist attractions in Pennsylvania on their hinterlands. Major discrepancies are found to exist between the pattern of geometrically regular hypothetical impact zones and the highly irregular patterns produced by the two test facilities. Analysis of conditions that might create such irregularities yields null results in the case of (1) invalid data, (2) accessibility, and (3) intervening opportunity factors; and significant correlation in the case of the (4) regional orientation, (5) familiarity, and (6) advertising factors.

60683 Graves, W. California, the golden magnet. Part 1. The south. NAT. GEOGR. 129(5):595-640, May 1966. Maps, photos.

The magnitude of California, our third largest State, is described. It has more national parks and national forests than any other State. San Diego has one of the world's finest zoos, an excellent fishing and surfing beach, and a new waterfront recreation area called Mission Bay Park. Los Angeles is an urban sprawl of 75

smaller cities fused together by endless freeways, and land costs are spiralling. Dams on the Colorado River transformed the Imperial and Coachella Valleys from deserts to lush farmlands, but California still has such noted deserts as the Colorado, the Mohave, and Death Valley.

60684 Graves, W. California, the golden magnet. Part 2. Nature's north.
NAT. GEOGR.
129(5):641-679, May 1966. Photos.

This well-illustrated article about the golden State, California, describes its unique features. Yosemite National Park and northern California's major city, San Francisco, are discussed. Current expansion is described. Northern California is building Oroville Dam, which will deliver water to areas as far south as San Diego. Muir Woods National Monument and other stands of coastal redwoods contribute to the beautiful California shoreline. The scenic beauties of this State should be preserved in the face of expanding population pressure.

60685 Laing, A. Critical park needs. PARKS RECREAT. CAN. 24(6): 4-5, Nov.-Dec. 1966.

The problem of outdoor recreation on the urban fringe is discussed. The need for parks near cities and the lack of jurisdictional responsibility are pointed out. The start of a study of demand for outdoor recreation in Canada is announced.

60686 LePage, W.F.
Success of campgrounds studied as guide to recreation planners.
Upper Darby, Pa., Northeastern Forest Experiment Station.
7p. 1966. Tables. (U.S. Forest Service Res. Note NE-43.)

Privately owned campgrounds in New Hampshire were studied in 1964 to determine what characteristics were more frequently associated with successful operations. Factors of size, age, location, water attraction, length of stay of campers, advance reservation clientele and membership in the Campground Owners Association are evaluated.

60687 Sharpe, G.W.
Forest recreation. In A look at the year 2000
Society of American Foresters
Proceedings, 1965.
Washington
p. 141-144, 1966. Ref.

Land, population, income, transportation, and leisure are factors affecting recreation uses. The forester must protect, revitalize, and enlarge recreation lands where the leisure of millions may be wisely and pleasantly spent.

60688
A second look at camping demand predictions.
J. FOREST.
64(9):631, Sept. 1966.

No abstract.

60689 Seay, C.
It's the same thing...only it's different.
TAM ARCH. WORLD
15(2):22-23, Feb. 1966. Photos.

The two most commonly used methods of aiming in archery are described and discussed.

60690 Seay, C. Relaxed or collapsed? TAM ARCH. WORLD 15(1):13, Jan. 1966.

This is an explanation of the importance of relaxation of action and the use of the proper muscles in the sport of archery.

60691 Smith, J.W. Archery—an old sport with new interest. JOHPER 37(9):10, Nov.-Dec. 1966.

Through its Outdoor Education Project, the AAHPER is giving special emphasis to archery, including archery instructors' workshops. They are designed to encourage archery group instruction in schools, colleges, and recreation agencies. Target and field archery, archery games, bowhunting, and bow fishing are stressed. Archery ranks high as an individual activity which combines a satisfying skill with vigorous outdoor exercise.

60692 Webb. W.; Speaks, L.
The champions' way to do it.
TAM ARCH. WORLD
15(3):8-11, 29, Mar. 1966. Illus., photos.

This article deals with the archer's basic shooting style and tackle preparation as taught by Joe Fries to Les Speaks—both several times National champions in archery.

60693 Witt, J.
"Butterflies".
TAM ARCH. WORLD
15(3):19, 28, Mar. 1966.

How the champion archers have learned to control the tournament jitters known as "Butter-flies" to keep their game from becoming affected.

60694
Archery is one sport that's definitely "on the move."
SPORTSCOPE
11(5):2, May 16, 1966.

Survey results show the percentage of archers who include the sport in their vacation, the num-

ber of miles travelled by archers and bowhunters, and the number of contestants in tournament archery. As a sidelight to these figures and, in a way, a reward for all of the enthusiasm is the fact that archery will be entered as one of the official sports in the 1972 Olympic Games.

60695 Pettingill, O.S., Jr. Bird finding in the Bay State. AUDUBON 68(6):394, 396, 398-400, Nov.-Dec. 1966.

Bay State bird watchers in both numbers and proficiency outrank those in any other State. The Massachusetts Audubon Society is the largest State organization of its kind with a program in research and public education. A call to the Society provides information on locations and routes to bird sanctuaries where specific species may be observed.

60696 Bach, W.E. Step into Paul Bunyan country. BET. CAMP. 7(6):52-55, June 1966. Map, illus.

Lists of attractions for campers in this area of Minnesota are highlighted and mapped. Many private campgrounds are expanding or just starting as a new enterprise.

60697 Burgener, C.W. All that glitters. Children adopt their parents' attitudes...are you raising "sloppy Americans"? PARKS RECREAT. 1(7):573, July 1966.

An account of a family who gathers litter—refundable bottles, cans, paper plates, etc.—for fun and profit and to set a good example.

60698 Clepper, H. Wild food for outdoor living. AMER. FOR. 72(6): 22-24, 46-47, June 1966. Photos.

Wild food delicacies from the pack-rat to the alligator are described as well as famous naturalists' ventures with culinary curiosities and tribal food specialties. Outdoor cookery for the hungry woodsman is extolled.

60699 Dirks, L.E.
Upstairs at Yosemite. Hiking the high Sierra.
In Roberts, E.A., ed., America Outdoors.
Silver Spring, Md., The National Observer.
p. 70-77, 1966. Map, photos.

The "back country" of the Sierra Nevada with its wild forests, soft meadows, rocks, and lakes has become increasingly popular. Yosemite National Park attracts more cross-country hikers and overnight campers than any other national park with the exception of Yellowstone.

60700 Dodson, T. Camping and basic human needs. CAMP. MAG. 38(4):21-23, Apr. 1966. Photo.

Discusses the contributions toward a fuller life that can result from camping experiences.

60701 Eveleth, W. T. Educational trends and camping. CAMP. MAG. 38(4):30-32, Apr. 1966.

Discusses the problems associated with the proposed lengthening of the academic school year. Scorns the trend toward more regimentation of every child's life.

60702 Gregg, J. R. How to take a cross-country trip. BET. CAMP. 7(5):58-62, May 1966. Illus.

Special planning required for travel camping is treated in some detail. Postcards to appropriate offices, chambers of commerce, travel bureaus, and recreation agencies will bring amazing results. Take along only the necessary materials. Plan to arrive at a campground in time to set up and enjoy camping.

60703 Hill, F. Camping-itis. W. VA. CONSERV. 30(3):17-21, May 1966. Photos.

Discusses the economy, convenience, fun and the popularity trend in camping. The author describes camping areas, camping maps, camping fees and organizations. 60704 Hood, M. V.; Hood, W. Nature and the camper.
Los Angeles, Ward Ritchie Press
157p. 1966. Ref., illus.

Presented is a guide to safety and enjoyment for campers, hikers, hunters, and fishermen on the Pacific Slope and Southwest deserts. The book has four objectives: (1) to remove false fear; (2) to alert the prospective camper or hiker to the relatively few natural hazards to be found; (3) to help youth leaders, including parents, appreciate the privilege they have in introducing youngsters to the fun of being out-of-doors; (4) to save the lives of innocent creatures which are often killed on sight because of lack of know-ledge concerning their effect on man. The book is divided into the following sections: animals of land and air; animals of the seashore; man and plants; and the camp and the trail.

60705 Lindberg, M. Fireproof camping. CAMP. GUIDE (40):28-29, 50-52, Jan. 1966. Photos.

Precautions are given campers for guarding against fire starting from carelessness, wind,

campfire flare-ups, inflammable tents, or combustion. In addition, a fire extinguisher for your camp and boat is suggested.

60706 Luce, W. P. Family camping. A self-instruction guide to camp skills and sites.

New York, MacMillan 145p. 1965. Illus.

This manual contains a guide to national parks, forests, State and Federal campgrounds. Equipment analyses are given to help in selecting tents, trailers, sleeping bags, clothing. Instructions with illustrations show campsite methods, such as how to pitch camp, build fires, cook easily and safely.

60707 Riviere, W. A.
The complete guide to family camping.
Garden City, Doubleday
224p. 1966. Illus., photos.

A book on camping and camping equipment is presented. The types, care and repair of the following equipment are described: tents, tent trailers, shelter and comfort accessories, travel trailers, truck campers and camp coaches, camp stoves, cooking pans and accessories, heaters, lanterns, camp kitchens, and camp refrigerators. Camping tips are supplied to enable the camper to get the maximum benefits from the camping experience. The appendix includes lists on camping information sources; campground guides and directories; camping periodicals; national and regional camping clubs and associations; camping workshops; campground owners associations; and other organizations of interest to family campers. Modern camping terminology also is included.

60708 Shedd, D. H. Purposes and goals of family camping. TRENDS PARKS RECREAT. 3(3):5-9, July 1966. Photos.

This article presents some of the motivating factors in family camping and the problems of the campground operator in providing camping areas and facilities at reasonable cost and in preserving the natural resources for outdoor recreation.

60709 West, A. G.
For economy, try station wagon camping.
CAMP. GUIDE
(42):14-15, Apr. 1966.

The author explains how it is possible to travel comfortably and inexpensively. She and her husband took a trip from Oregon across the country in a cabana-equipped station wagon. 60710 West, D. E.
Outdoor Life: A Survey of foods for camping and sporting trips.
New York, N.Y., Outdoor Life Research Department 20p. 1966.

A report containing the results of a mail survey sent to a sample of 2501 Outdoor Life subscribers to learn about foods and outdoor cooking on camping, fishing, hunting, and boating trips. Tabulated results from 663 respondents are presented. Selected verbatim comments are included.

60711
Backpacking in the Superstition Mountains.
SUMMIT
12(10):16-21, Dec. 1966. Map, photos.

No abstract.

60712 Covault, J.
Motorized mountaineers.
COLO. OUTD.
15(4):46-47, July-Aug. 1966. Photo.

Vehicles can raise havoc with the land.

60713 Flint, G. W. Jeepster jamboree. OUR PUBL. LANDS 15(5):9, Summer 1966. Photo.

Discusses the outdoor sports that are taking place in sandy dunes and rocky mesas in California. Recreationists have been engaging in mobile sports in central San Bernadino County because of the distance from crowded cities and freeways.

60714 Jackson, J. B. 90-year wonder. LANDS. ARCHITECT. 57(1):38-39, Oct. 1966.

Discusses the impact on American life brought about by the bicycle. Although motor vehicles as a prime means of transportation have largely displaced cycling today, there are some 33 million bicycle riders in the United States. Cycling is enjoying a remarkable comeback. Actions taken in several places to encourage cycling are described.

60715
Board track racing is back.
AMER. CYCL.
5(7):25, Sept. 1966. Photo.

Board track racing has been brought to Newark, New Jersey, by Sports International. Twice a week crowds are jamming the stands to watch the exciting bicycle races. 60716
Falconry.
IZAAK WALTON MAG.
31(6):18, June 1966. Photos.

Discusses the growing sport of falconry or hawking. In January 1966, falconers from all parts of the country met in Northern Illinois at the Des Plaines Wildlife Area for several days of trials and training.

60717 Ames, F. H.
Fishing the Oregon country.
Caldwell, Idaho, Caxton Printers
324p, 1966. Photos.

For purposes of compiling data for fishing chances at different times of the year, the topographic and climatic material is arranged into four geographic regions, each of which is treated as a piscatorial entity. The lures for and locations of trout, bass, salmon, steelhead, sturgeon, shad, as well as ocean fish, clams and crustaceans are discussed in an autobiographic recount of experiences.

60718 Atts, E. Float fishing the Allegheny River. PA. ANGLER 35(9):20, Sept. 1966.

Float fishing is one of the simplest and most relaxing forms of fishing there is. One merely puts his boat in the water and floats along with the current. This article gives advice about methods and equipment.

60719 Bauer, E. Photography for fishermen. FISH. WORLD 13(1):Jan. -Feb. 1966. Photos.

The author of the book, Outdoor Photography, gives tips on how to film your fishing trips.

60720 Brooks, J. Complete guide to fishing across North America. New York, Harper, Row 613p. 1966. Maps, photos.

A guide to fresh and salt water fishing in the United States, Canada, Mexico. The Bahamas and Bermuda are presented. The book contains 48 state maps which are keyed to the text and show the location of every recommended lake and stream. Fishing regulations, license fees, seasons, and limit of fish catch are defined for each state or area. An index of waterways is included.

60721 Brower, B.
The mystique of surf fishing.
HOLIDAY
39(7):46-47, 88, July 1966. Illus.

The author describes the joys he associates with the sport. It isn't the catch that matters

so much—it is a communion with the sea. It is a deep-seated and arcane pleasure. Characteristics and kinds of surf fishermen are described.

60722 Buss, K.
The history and evolution of sport fishing.
PA. ANGL.
35(8):8-9, Aug. 1966.

The evolution of sport fishing from recreation for the wealthy aristocrat to an activity for the less well-to-do city dweller is depicted. Fishermen who fish to the limit seldom are interested in wilderness areas and anglers are seldom agreed on the various programs of fish stocking offered by state agencies. Trout Unlimited emphasizes a program of limiting the kill rather than killing the limit.

60723 California. Dept. of Fish and Game. Pismo clamming: a favorite winter sport. OUTD. CALIF. 27(2):12-14, Feb. 1966.

Discusses annual clam census at Pismo Beach and suggests best methods of harvesting and preparing clams.

60724 Cochran, B. Fishin' holes. VA. WILDL. 27(3):10-11, Mar. 1966.

The excellent fishing at Kerr Dam, on the Roanoke River, and the good camping facilities in North Bend Park, Virginia, are discussed.

60725 Corbeau, L. Sand, sea, surf, and tent trailering. TRAIL. TRAV. MAG. 31(3):31-33, 70-71, Mar. 1966. Photos.

Camping directly on the beach offers many advantages; among them are surf fishing and beachcombing in your own front yard—all for only pennies a day.

60726 Curtis, R. L. Full stringer at Folsom Lake. FISH. WORLD 13(2):40-43, Mar. /Apr. 1966. Photos.

An account of successful fishing efforts at Folsom Lake, California. Happiness is catching a string of lake fish.

60727 Fox, C. K.
The American beginning.
PA. ANGL.
35(3):2-6, Mar. 1966. Illus., photos.

Fly fishing through the years 1800-1900 in Pennsylvania is depicted.

60728 Guy, J.
Secret of the Willoughby.
FISH. WORLD
13(2):36-39,59, Mar.-Apr. 1966. Map, photos.

The adventures, joys and sorrows of fishing the Willoughby River are delineated.

60729 Guy, J.
The 'Show-Me' State showed me.
FISH, WORLD
13(3):34-37, July-Aug., 1966. Map, photos.

A description of fishing in a Missouri trout park and advice on how to do it.

60730 Hall, J. By the million. Fish, fishermen and dollars are counted. KY. HAPPY HUNT. GROUND 22(27):4-5, Mar. 1966. Illus., tables.

Results of a survey show the number of fishermen and the catch per hour on various Kentucky waters during different seasons of the year. Kentucky, Buckhorn, Dervey and Herrington lakes, and the Rough River are included in the survey. Fish counted are white and black crappie, largemouth and white bass, sauger, bluegill, channel and blue catfish.

60731 Lovett, J., Jr.
Big-fish state Alabama.
SPORTS AFIELD
156(4):70-72, 139, 147, Oct. 1966. Map, photos

No abstract.

60732 McClane, A. J. How to hire a guide. FIELD STREAM 71(6):110-112, Oct. 1966. Photos.

This detailed account narrates the best procedures in hiring a fishing guide. It emphasizes the importance of asking the guide the right questions and giving him the right information in advance of your fishing trip.

60733 McKee, R. A history of fishing. W. VA. CONSERV. 30(1):10-13, Mar. 1966. Illus.

Describes a period of 4000 years of fishing. The sport evolved, from a time of short rods, short lines, and horse 'em in techniques, through the early use of artificial flies, to the time of long poles and playing of fish on light tackle, then to the invention of the modern reel, the short rod, and the use of a variety of artificial flies.

60734 Meldor, B.
Guide to fishing Alaska.
FISH. WORLD 13(1):23-25, Jan. -Feb. 1966, Photos.

Suggestions are provided about where in Alaska to go for good fishing sport, what to take, and what kind of weather can be expected.

60735 Sawyer, W.
The fabled Au Sable.
MOT. NEWS
49(2):15, 27, Aug. 1966. Photos.

The Au Sable River as an easily accessible fishing, hunting and canoeing recreation area is described.

60736 Shiner, D.

Jig-fishing comes of age.

PA. ANGL.

35(2):4-6, Feb. 1966. Photos.

In ice fishing, the jigging method is one of the most popular. Descriptions are given of this method and of the equipment required for this sport, including jig rods and ice lures.

60737 Tyler, J. Fall is for hunting. . . usually! GA. GAME FISH 1(1):7, Oct. 1966. Photos.

Reasons are provided to support the author's contention that fishing is great in Georgia in the fall.

60738 U. S. Bureau of Sport Fisheries and Wildlife
National Survey of Fishing and Hunting 1965.
Washington, Govt. Print. Off.
76p, 1966. Illus., tables. (U.S. Fish and Wildlife Service. Resource Publication 27.)

The third survey (1955 and 1960, predecessors) has more extensive coverage on the numbers of people engaged in recreational fishing and hunting and the economic value of these two activities. Appendix A contains statistical tables which give detailed data on expenditures of fishermen and hunters, number of recreation days, selected characteristics and total of participants and geographic areas. Comparisons of major findings of the three surveys are listed and the differences analyzed. Definitions and the technique of the survey also are included. Statistics preceding the detailed tables are reproduced graphically.

60739 Waterman, C. Sawgrass fishing. FLA. WILDLIFE. 20(5):14-19, Oct. 1966.

In sawgrass country "most of the fishing is done in canals built for flood control, or along

the roads for the removal of highway fill. " In South Florida there are now three new fishing centers operated by the Game and Fresh Water Fish Commission and the Flood Control District: namely, Holiday, Sawgrass, and Loxahatchee camps. The fish and fishing at these locations are described.

60740 Will, L.E. Okeechobee catfishing. St. Petersburg, Fla., Great Outdoor Publishing Co. 159p. 1965. Maps, photos.

Good fish stories and folklore about the early days, told by the "cracker historian of the Everglades".

60741 Wrangles, A., ed. Newnes complete guide to sea angling. London, England, George Newnes, Ltd. 198p. 1965. Illus, photos.

A comprehensive guide to sea angling enumerates and illustrates the best salt water fishing techniques. Described in detail are the kinds of fish to be caught around England, Scotland, and Wales. Names and addresses of sea angling organizations in Great Britain and Europe are listed.

60742 Dille, Mrs. M.
Into the wild blue yonder.
PARKS RECREAT.
1(4):332-333, Apr. 1966. Photos.

How to get a "Flying for Recreation" program off the ground.

60743
Our camera at the Nationals.
FLY. MOD.
(349):17-20, Dec. -Jan. 1966. Photos.

Numerous pictures and captions about the huge 1965 Nationals held at Horsham, Pennsylvania, hosted by the U. S. Navy, organized by the Academy of Model Aeronautics, and attended by over a 1000 contestants.

60744
State soaring records.
SOARING
30(5):28-29, May 1966. Table.

This annual presentation is amended to March 1966. There are three classes of State records, Open, Senior, and Junior. Open class and Senior class records are included, but Junior class is omitted because there are so few.

60745
Summary of long soaring flights of 1965.
SOARING
30(5):20-21, May 1966. Map.

Charts show the ranking of sailplanes, ranking of pilots, and ranking of sites of the 103 long flights reported in 1965.

60746 Arnett, E.A., Jr. Footloose. MICH. CONSERV. 35(4):8-11, July-Aug. 1966. Illus.

This lighthearted analysis categorizes hikers in 4 classes: (1) those seeking physical improvement; (2) those seeking mental gains; (3) those looking for material gains; (4) those after no gain. The mental-gain hikers can be divided into the self-preservers seeking freedom from the "hustle and bustle" of modern living; and those out to learn something. The learners include the mountain climbers, the cave explorers, and all who enjoy the study of birds, plants, and wildlife. In the material gains category are the rockhounds, beachcombers, amateur prospectors, and all collectors of leaves, insects, and botanic specimens.

60747 Bauer, E. A.
This summer... put yourself in the saddle.
NAT. WILDL.
4(4):41-46, June-July 1966. Photos.

The author discusses the pleasures and recreational benefits from pack tripping or trail riding. The equipment needed, the expenses involved, the arrangements to be made, and the possible hazards of such a trip are described.

60748 Walker, D.
Trail log...second segment...Chief Joseph
Trail.
APPALOOSA NEWS
20(9):2-4,6-10, Sept. 1966. Photos.

Each year Appaloosa riders plan on clipping 100-mile segments off the Chief Joseph War Trail until all 1350 miles have been covered. This log of the 1966 trek gives a rousing account of their spectacular trail ride.

60749 Barnes, I. R. Hunting along the C and O Canal would be an outrage. ATLANT. NATUR. 21(3):123-124, July-Sept. 1966.

A proposal has been made by the new superintendent of the C and O Canal National Monument to permit hunting there. This article is concerned with reasons why hunting should not be permitted.

60750 Bashline, L. J. A broad path. PA. GAME NEWS 37(8):1, Aug. 1966.

There is room for both the hunter and the nature watcher in conservation. Each group contributes toward maintenance of conservation goals and there is a need for mutual understanding.

60751 Bauer, E.
Deer hunter's handbook. (
SPORTS AFIELD
156(4):33-42, Oct. 1966. Illus.

"Comprehensive advice about target practice, the nature of the game, selecting equipment, still-hunting, hunting from a stand, and many tips that will help make the coming deer season a success."

60752 Burger, G. V. Helping hands for hunters. SHOOT. TIMES 7(6):26-31,62-64, July 1966. Photos.

No abstract.

60753 Corbeau, L.
Trailer hunt the national forests.
TRAIL. TRAV. MAG.
31(9):30-32, 65, Sept. 1966. Photos.

No abstract.

60754 Flannery, J.S. Hunting in Arizona. AMER. RIFLEM. 114(9):38-42, Sept. 1966. Map, photos.

The hunting assets of Arizona are presented. Information is included about hunting areas, types of game to be found, hunting seasons, equipment, cost of license fees, state hunting regulations, and safety precautions.

60755 Henbest, D.
The Le Bus Ranch hunt.
ARCHERY
p. 38-39, Sept. 1966. Photos.

Open for bow hunting, closed to gun hunting—that was the decision this year on the Le Bus Ranch, a New Mexican ranch of over 25,000 acres for good hunting.

60756 Hudoba, M. Sports Afield deer forecast. SPORTS AFIELD 156(4):42-48, Oct. 1966. Illus.

Statistics for 1966 are given on deer hunting in each of the 50 States. A ten-year period from 1956-1966 is reviewed for (1) estimated kill, (2) percentage of hunter success, (3) estimated 1966 population, (4) prospects for 1966 hunting season.

60757 Lewis, H. F. New hunting opportunities. ROD GUN CAN. 68(3):13, Apr. 1966. Photo.

Hunting for sport of some animals not yet subjected to much hunting pressure is urged—of the wildcat, lynx, fox and raccoon.

60758 McKenzie, J. V. A look at deer. N. DAK. OUTD. 29(5):4-5, Nov. 1966. Photos.

Deer hunting season as an outdoor recreational pursuit is categorized according to location and permit for North Dakota.

60759 Madson, J.; Kozicky, E. A code for young hunters. FUR FISH GAME 62(5):20-22, May 1966.

Real sportsmen observe certain written and unwritten laws. The most vital elements of the hunting ethic are to shoot clean, kill clean, and waste not.

60760 Mooney, F. Pre-season scouting. WILDL. N. C. 30(10):16-17, Oct. 1966. Photos.

The value of a reconnaissance jaunt before the first hunting trip of the season is stressed.

60761 Morehead, R. M. Where the deer and the antelope pay. SOUTHW. HOLI. 20(9):8-9, 12-13, Sept. 1966.

Stories of hunting at the Y.O. Ranch, gameraising and hunting venture in West Texas. The ranch specializes in "exotic" big game hunting during the 45 weeks per year when the season is closed on native deer and turkey.

60762 The new hunters' encyclopedia, 3rd edition.
Harrisburg, Pa., Stackpole
1131 p. 1966. Maps, illus., photos., tables.

The encyclopedia is divided into thirteen parts; a short history of game in North America is supplied.

Large and small game are described; also small mammals, upland game birds and water-fowl. Information is provided on identification, characteristics and breeding, range and distribution of each species. Hunting equipment is treated: firearms, blinds, dogs, falcons, ferrets, etc.; also camping equipment is mentioned. An appendix on game conditions and regulations for each State are provided.

60763 Partin, L. Shooting preserves. WILDL. N. C. 30(10):7, Oct. 1966. Photo.

Shooting birds on commercial hunting preserves is popular in North Carolina today. Preserve shooting provides the place to hunt, dogs, and game. Information on hunting seasons and State regulations is included.

60764 Phares, R. The tenderized champ. FLA. WILDL. 20(4):14-15, Sept. 1966.

The razorback, introduced into Florida in 1539 by De Soto, became adapted to the American wild and was a principal source of food for the pioneer. "Through game management planning, in some areas, the wild hog is returning to the Florida ranks of worthy hunting opponents."

60765 Pyle, F. B.
Spot pack hunting.
AMER. RIFLEM.
114(7):38-42, July 1966. Photos.

Spot pack hunting is big game hunting from a small camp without a guide. The hunter usually retains an outfitter or packer to provide horse transportation into the wilderness areas beyond the roads. There the hunter establishes a camp and hunts on his own. The author gives advice on equipment, supplies, and hunting techniques. Spot pack hunting requires greater preparation, both physical and planning, than almost any other hunting method.

60766 Samuels, H. J. Planning a wilderness hunt. AMER. RIFLEM. 114(5):22-24, May 1966. Photos.

Helpful suggestions are provided on hunting in pack horse country: types of trips; outfitters and outfitting; chances of game; fees; and self conditioning for the trip.

60767 Trimm, H. W. Howland Island. Bow hunt a record. CONSERVATIONIST 20(4):27, Feb.-Mar. 1966. Photos.

A successful bow hunt in November 1966 on Howland Island was part of a game management program of the Conservation Department to control deer.

60768 Whittington, R. W. Keep your eye on the deer trails. GA. GAME FISH 1(1):4-6, Oct. 1966. Photos.

Techniques of deer hunting are explained in this article.

60769
Arizona wildlife travelogue: Early rim country hunting.
ARIZ. WILDL. SPORTS.
37(9):17-19, 21, Sept. 1966. Maps, photos.

Hunting territory is described, along with the varieties of game which are available in abundant quantities to be hunted. 60770 Hunting safest since 1948. N. J. OUTD. 17(1):22-23, July 1966.

Despite the fact that the number of licensed hunters has risen by more than 10,000 since 1948, the 1965-66 hunting season in New Jersey was the safest since then. Much of the credit should go to the efforts of volunteer hunter safety instructors. This article explains State hunting regulations, statistics, and safety programs.

60771 Rockwell, L. G.
"... Except Thou bless me."
ADIRONDAC
30(5):80-81, Sept. -Oct. 1966. Photo.

Here is an attempt to explain and describe why men climb mountains. One reason the author expresses in this way: "In the mountains your total environment is the quintessence of the elemental—heat, cold, wind, clouds, rain, snow, forests, rock, earth, sky—unpolluted, uncorrupted. These elemental things evoke a sense of reverence for majesty quite outside oneself and one's fellow men."

60772 Wilkins, J.
A conquest of Rainier. In Roberts, E.A., ed.,
America Outdoors.
Silver Spring, Md., The National Observer.
p. 84-91, 1966. Map, photos.

The rigors of climbing Mt. Rainier, the 14,410foot dormant volcano in Mt. Rainier National Park
are not too tough for an experienced mountain
climber. Techniques are not difficult and
climbers are roped for safety only. Some routes
are treacherous and their use seldom permitted.
Various climbing clubs schedule ascents. Equipment should be carefully chosen. The author
recounts his activities, reactions to scenic
grandeur and feelings of personal satisfaction in
achievement on his ascent of Mt. Rainier via the
Emmons-Winthrop route.

60773 Anderson, F. V.
Tennis and camping.
JOHPER
37(4):20-21,66, Apr. 1966. Photos.

Alabama College has combined tennis and camping to allow their tennis team to take longer trips to distant areas without exceeding a small budget. State parks were selected for the camping part. The cost for 9 men, 3 full days, and a distance of 1,025 miles, only totaled \$84.60.

60774 McCauley, J. Lacrosse coming back. SPORT. GOODS DEAL. 135(2):85, Nov. 1966. Photos.

Lacrosse is becoming more popular every season, not only in Canada but also in the United

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States. Usually Canadians claim hockey as their national game. The author, a member of the Brampton Senior Excelsiors of the Ontario Lacrosse Association, states "Our national game really is lacrosse." He provides the game's historical background, the approximate number of lacrosse players in Ontario and in other Canadian provinces, the cost of equipment, and the names of Canadian suppliers both to Canada and the United States.

60775 Sarazen, G.; McLean, P. Golf/new horizons. Pan Am's guide to golf courses round the world. New York, Crowell 276p. 1966.

Each chapter deals with countries of an area or continent and provides information on travel routes, the season, golf equipment, language spoken and time. The golf clubs are described by location, course size, fees, availability of rental cars and golfing equipment, professional lessons, clubhouse facilities, and accommodations.

60776 Thomas, C. Training for the shot put and discus double. ATHLET. J. 46(5):51-52,71-72, Jan. 1966.

To develop double champions in track and field, a coach needs strong athletes with allaround athletic ability. The training program of one Texas A & M champion is outlined.

60777
Goodyear scores an 'ace' with its golf program.
RECREAT. MANAGE.
9(2):6-7, Mar. 1966. Photos.

How long-range planning and fine volunteer work are resulting in a bumper crop of enthusiastic golfers—and a national championship—at Goodyear Tire & Rubber Company, Akron, Ohio.

60778 Community art shows. PARKS RECREAT. 1(4):336-338, 345-346, Apr. 1966. Ref.

Results of questionnaire concerning community art shows are reported.

60779 Beatie, D. Waterhole photography. NAT. PARKS MAG. 40(225):10-11, June 1966. Photos.

The article contains many tips and suggested ways of improving results in outdoor wildlife photography.

60780 Robbins, B.
Ten easy ways to . . . improve summer camp pictures.
BOY'S LIFE
56(5):48-49, May 1966. Photos.

Gives 10 tips for better snapshots and suggestions for care of equipment.

60781 Blinka, J.
Overfly—good or bad?
AMER. RAC. PIGEON NEWS
82(6):24-25, June 1966. Tables.

Tabulations of pigeon flying speed against varying winds and weather conditions are given. In racing, correction factors for overfly should be applied depending on wind direction, kind of sky and distance.

60782 Hove, A.
Harness racing.
WIS. TALES TRAILS
7(2):22-26, Summer 1966. Photos.

No abstract.

60783 Jennings, P. Steamed up for a charge into the past. SPORTS ILLUS. 24(7):36-41, Feb. 14, 1966. Photos.

Englishmen no longer work with steam engines—they play with them. Quite a popular sport now, with both participants and spectators, is steam racing. It all began in 1950 when about 400 people gathered to watch two farmers race steam engines at Appleford near Oxford. Now a steam rally often features as many as 80 engines. And not only racing. Buffs at a steam rally often play steam musical chairs, tilting, hooking the straw bales, steam polo, and an awesome frontal advance by all contestants called "calvary charge".

60784 Lee, M.
The four great miles at Elkhart Lake's Road
America.
WIS. TALES TRAILS
7(2):2-7, Summer 1966. Photos.

No abstract.

60785 MacLachlan, J. D., Jr. Sudden growth of a formerly unknown sport. AMAT. ATHLETE 37(8):33, Aug. 1966.

The sport of race walking was an "unknown event" on the track and field program until recently. Now in many places—San Diego, for example—race walking has become as popular as long distance running. More information about the sport can be obtained from James Fraley's The Young Sportsman's Guide to Track and Field, published by Thomas Nelson & Sons of New York City.

60786 Whitney, L. P. What becomes of our lost homers? AMER. RAC. PIGEON NEWS 82(6):32, June 1966.

Facts and figures on the number of racing pigeons lost each year.

60787
Horse racing retains spot as no. 1 spectator sport.
SPORTSCOPE
11(6):2, June 16, 1966.

The Sports Attendance Survey revealed that horse racing is again the nation's no. 1 spectator sport. Baseball ranked second, and football, third. Other sports, with attendance figures for each, are listed in descending order.

60788
Survey lists auto racing as most dangerous competitive sport.
SPORTSCOPE
11(5):2, May 16, 1966.

According to a Metropolitan Life Insurance Co. survey, automobile racing had the largest number of fatalities from 1960 through 1964 of any competitive sport. Baseball is one of the safest, with no recorded fatalities during this period.

60789 Roark, G.
Rockhounding in Wisconsin.
WIS. TALES TRAILS
7(1):32-37, Spring 1966. Ref., map, illus.

Here are described the joys of picking up stones, knowing what they are, what is inside, and how they came to be there. Color photographs and a geologic map are provided. Rockhounding opportunities throughout Wisconsin are described.

60790 Toney, B. Shooters are athletes too! SHOOT. TIMES 7(12):38-42, 57-58, Dec. 1966. Photos.

No abstract.

60791 ATA modified clay pigeon rules. TRAP FIELD 142(4):42, Apr. 1966.

No abstract.

60792 Edsall, M. S.
Trailering the voyageur's route.
TRAIL. TRAV. MAG.
31(3):21-24, 30, 77, Mar. 1966. Ref., map, photos.

The Voyageur's Route—tracing the tracks of the early fur traders—is a 575-mile trip which

begins in Duluth, Minnesota. It takes you on a fascinating tour of Lake Superior's shores, up into the untamed Canadian lakelands, including Ontario's 1750-square-mile. Quetico Provincial Park, and then re-enters the United State at International Falls. There are sights of deep-draft ocean-vessels, cascading waterfalls, a 20-foot talking statue of Pierre the Voyageur, and vast mining operations.

60793 Standish, T.
Better Homes and Gardens travel questionnaire study. A report on family travel.
New York, Better Homes & Gardens
116p. 1966. Illus.

For a study of the travel interests and activities of subscribers, Better Homes & Gardens inserted a questionnaire in the February and March 1966 issues of all subscription copies of the magazine. A random sample was drawn from more than 215,000 respondents. This report gives the survey results and conclusions.

60794 Sunset.
Alaska.
Menlo Park, Calif., Lane Books
96p. 1966. Ref., maps, photos.

A land of contrasts, Alaska offers glaciers and hot springs, towering mountains and deep valleys, ice fields and volcanoes, modern cities and primitive villages, barren tundra and lush farming communities, old trails and new paved highways, museums and saloons. Its people present a cross-section from many States and countries and one-sixth are Aleuts, Eskimos, or Indians. The publication is a travel book and gives tourist information on accommodations, tours, and special events.

60795
Recreation boom tops population explosion.
WEST. OUTD. NEWS
13(41):4, Oct. 21, 1966.

No abstract.

60796 Dessauer, P.
They jumped for joy. . . and glory.
OKLA. TODAY
16(4):6-9, Autumn 1966. Photos.

No abstract.

60797 Roark, G. Spelunking.
WIS. TALES TRAILS
7(3):28-32, Autumn 1966. Photos.

A narrative trip into the world inhabited by spelunkers—hobbyists who explore caves, and speleologists—scientists who study caves and cave phenomena. The history of cave exploration is given. The article also discusses caver groups. Although not all cavers are organized,

the adventures underground of such cavers as the National Speleological Society in general and the Wisconsin Speleological Society in particular are reported. Cave terms, such as "speleothems", "stalactites", "stalagmites", "moon milk", "guano", "petroglyphs", "soda straws", "cave pearls", and "helictites" are explained fully.

60798 Battle, J.
On the crest of the wave.
MICH. CONSERV.
35(4):12-15, July-Aug. 1966. Photos.

In the present booming economy, boating is literally on the crest of the wave. Sailboat sales are accelerating. Michigan now leads the Nation in numbered motorboats. A basic problem is water safety. More people and more boats mean more regulations. Good safety laws are essential. Boating education is also needed. Elementary boating safety courses have been offered to over 3,000 by the Michigan Conservation Department and marine patrolmen report that water safety problems are reduced where the course has had wide exposure.

60799 Bradley, W. P.
The lure of boating.
HOLIDAY
39(7):38-45, 96-97, 110, July 1966. Illus.,
photos.

The reason Americans are going down to the sea by the millions perhaps is because there is little left to conquer on land. Places to weekend in the country are full of gas fumes, razzmatazz, and noise. The sea rolls on unchanged, a last reservoir of open space, a last great province where the work of man does not show. The lure of the sea is in its beauty and that of its companions, wind and cloud, moonrise and starlight, the revolving of the sun.

60800 Freeman, J.
Skin dive for better fishing.
WEST. OUTD.
13(11):32-33, 55, Nov. 1966. Photos.

The author shares some of his skin diving and scuba diving experiences. He recommends that anglers dive to study fish behavior and locations of different species.

60801 Gould, G. K.
Photo-boating. A sport within a sport.
MOT. BOAT.
118(1):40-41, July 1966. Photos.

"Action pictures shot aboard and added to your log enhance the pleasures of your boat and provide a priceless memento of your season afloat." 60802 Gribbins, J.
Heyday for houseboats.
MOT. BOAT.
118(2):86, Aug. 1966. Photos.

Activities at the second International Houseboat Regatta held in June at Jeffersonville, Indiana, are described.

60803 Hall, J.
Surfing comes of age. <u>In</u> Roberts, E.A., ed.,
America Outdoors
Silver Spring, Md., The National Observer
p. 98-105, 1966. Photos.

Wave riding gains new fans, seeks respectability and encounters restrictions. Manufacturers produce new lightweight equipment. Teenagers follow good surfing conditions and take over the beaches. Surfing provides real competition for beach use with the bathers, most of whom object to swimming in water amidst hurtling surfboards. As a result, some California cities have passed license ordinances to control or discourage surfers.

60804 Heart Association of Broward County, Florida
Swimming gives heart to the health of man. In SWIMMING POOL DATA AND REFERENCE ANNUAL
33:116.126, 1966.

Reasons why swimming is a fine exercise and is good for the heart and circulation.

60805 Hines, C. Water polo. An exciting team sport. SWIM. POOL AGE 40(9):28-29, Sept. 1966.

The history, prevalence, and merit of the game of water polo which teaches teamwork and cooperation more than almost any other aquatic sport.

60806 Los Angeles Co., Calif. Dept. of Parks and Recreation.
Underwater recreation.
Los Angeles
76p. 1966. Illus.

Basic information on safety is combined in this manual with many new developments in improvement of skills, communications, and organized program activities. Skin diving and scuba diving comprise the two major parts of the manual. Most of the principles stated apply to both.

60807 Paulson, F. M. Sacramento Delta Cruise. FIELD STREAM 71(2):42-43, 115-117, 135, June 1966. Maps, photos.

The writer with his family describes a delightful cruise through the waterways of the Sacramento San Joaquin Delta of California to report on the recreation opportunities available throughout the thousand miles of rivers, sloughs, creeks, lakes, deep swamps, canals, bayous, and reaches.

60808 Porter, M.
Boating is big in New Mexico.
N. MEX. MAG.
44(6/7):4-7,38, June/July 1966. Photos.

Americans spend more on boats and water sports than on any other single form of recreation. Over 8 million boats are in use today, about 15 boats for every 100 families. Most New Mexico state parks are located beside water, and New Mexico residents spend over \$2-1/2 million yearly for boats and marine accessories. Boating clubs are popular, along with surfing and water skiing and other water sports.

60809 Rothfuss, E. L. Beneath the surface. PARKS RECREAT. 1(9):715-716, 810, Sept. 1966. Illus.

Here is a description of two natural areas where visitors can combine water and underwater recreation with nature study, the Virgin Islands National Park and Buck Island Reef National Monument. These areas exhibit outstanding coral gardens, marine life, and seascapes.

60810 Stroud, R. H. Recreational uses of watersheds. Conservationist's view.

AMER. WATER WORKS ASS. J. 58(10):1263-1269, Oct. 1966. Ref.

Figures are given for water-oriented activities from Study Report 20 of the Outdoor Recreation Resources Review Commission. Multiple-use management of domestic water supply resources is encouraged.

60811 Swegle, W. E. Lake of the Ozarks. MOT. BOAT. 118(2):22-7 5, Aug. 1966. Illus.

Missouri's hills hide a boating paradise which mingles marvelous scenery with fine facilities and camping.

60812 Todd, G.
Where the action is.
TEX. PARKS WILDL.
24(6):9-13, June 1966. Photos.

No abstract.

60813 U. S. Coast Guard Recreational boating statistics 1965. Washington, Govt. Print. Off. 44p. 1966.

Detailed statistical tables on boating accidents for all registered vessels in 46 States and Virgin Islands, and Coast Guard numbering records for the four States without approved numbering systems. Includes a statistical analysis for 1961-1965.

60814 West, J.; West, C. Robust, exciting: it's called California. MOT. BOAT. 117(5):23-26, 128-30, 132,134, 141-142, 144, May 1966. Map, photos.

Cruise itinerary to help boatmen discover the rich historical lore that abounds along the Pacific coast of California. Seventh Heritage Cruise that Motor Boating magazine has presented.

60815 Woods, B.
Trip of the month. Ute Lake State Park.
N. MEX. MAG.
44(5):33, May 1966.

This is a short description of the man-made lake at Ute Lake State Park in New Mexico. It discusses the recreation facilities as well as other functions of the park and consequently the adjacent town of Logan.

60816
Deep down view.
FLA. WILDL.
20(6):28-29, Nov. 1966. Photos.

Here is an account of what the entire coastal region of Florida offers to exploring skin divers. The only underwater State park in the United States is off Key Largo.

60817 Anderson, L. A. Winter fun for everyone. Why not try ice fishing and camping?
BET. CAMP.
7(2):36-40, Feb. 1966. Photos.

Ice fishing is coming into its own. It is an invigorating, exciting sport, one that helps to fill in the lull in the winter months when things tend to slow down. Suggestions are made relative to clothing, fishing and camping equipment, fishing techniques, regulations, and places to go for ice fishing fun.

60818 Brady, M.
How to watch ski jumping (intelligently).
SKI
31(4):83-90, Dec. 1, 1966. Illus.

Here is a guide on ski jumping for spectators. It delineates the different phases of ski jumping, the point count according to the critical-point length of the jumping hill, and the style and distance points on which the ski jumpers are scored.

60819 Brady, M.
Ski touring with Nordic equipment.
SUMMIT
12(10):10-15, Dec. 1966. Photos.

No abstract.

60820 Hurley, E. D., Jr. New England ski developments. APPALACHIA 36(2):382-385, Dec. 15, 1966.

Advice to the skier and news of what's new in the New England ski country.

60821 Matthew, E. H. Samaritans of the ski slopes. AMER. FOR. 72(1):34-37, Jan. 1966. Illus., photos.

One of the Nations's most important rescue groups is the National Ski Patrol System. It aims to promote ski safety, provide first aid and transportation to injured skiers, and assist in preventing ski accidents. "23 Ski Do's" for skiing safety are suggested by chart.

60822 Ottum, E. America's best ski runs. SPORTS ILLUS. 25(20):52-68, Nov. 14, 1966. Photos.

No abstract.

60823 Shiner, D.
Playing the ice game.
FISH. WORLD
13(1):15-18, 59-60, Jan.-Feb. 1966. Illus.,
photos.

Instructions are given the ice angler on methods of ice fishing, choice of equipment, baits to use, and safety precautions.

60824 Stenersen, A. Skiing the wilderness. SUMMIT 12(10):2-3, Dec. 1966. Photo.

No abstract.

60825 Toles, G. E. Key to ski success at Talisman. RESORT MANAGE. 20(2):13, Feb. 1966. Photos.

Today skiing is being enjoyed by vacationers of all ages, athletic skills, and income. A first-class place was built at Kimberly, Ontaxio, because the owners believed family skiing was about to sweep the province. Their experience has proved they were right.

60826
Rollcurling can be indoor and outdoor sport.
PARK ADMIN.
31(3):47, 49, Mar. 1966. Photos.

Although it originated from ice curling, roll-curling is a game which can be played all the year round in any climate. Invented in Holland by Mr. Johan van der Eerde, it was introduced in Britain December 1963. Rollcurling is viewed as an out-of-season fill-in throughout Scotland, traditional home of ice curling, but many expect it to become an international sport.

60827 Andrews, H.
Is there a camper in your future?
FUR FISH GAME
62(4):3-4,24-27, Apr. 1966. Photos.

Characteristics of 4 types of campers are provided, with comparative advantages and disadvantages. Travel trailers, truck-mount campers, camper trailers, and motor homes are described as to degree of self-containment, size, cost, space, variety, number sold, and popularity. The Trans-Canada Highway is highlighted as a fine camping road. Camper users are discussed in terms of types of expenditures, motivation, length of vacations, length of trips, nature of trips, and socio-economic group.

60828 Armitage, J. Safety in climbing equipment. SUMMIT 12(10):28-29,31, Dec. 1966.

No abstract.

60829 Barhydt, J. D. Camping checkout. SPORT. GOODS DEAL. 113(6):114-115, 262, Mar. 1966. Photos.

Results of testing several kinds of outdoor equipment under normal conditions of use are reported.

60830 Bowers, C. An instrument of death. KY. HAPPY HUNT. GROUND 22(3):3,25, Mar. 1966. Photos.

"Too often a small, compact boat, purchased in high expectancy, is the grim reaper for the inexperienced." Small boats (john-boats), 12 feet and under, seem to take a heavy toll.

60831 Bradford, K. Tent trailering. TRAIL. TRAV. MAG. 31(11):15-16, Nov. 1966.

Fluorescent lights for campers and dry ice chest storage are discussed. New models, manufacturers, and costs are provided. Packaging for ice chests is also discussed. Even a recommendation for Suwanee State Park in Florida is given.

60832 Brown, P. Color-blind camouflage. SPORTS AFIELD 156(4):64-65, 100, Oct. 1966. Photos.

"Modern studies reveal that it's now possible for the hunter to camouflage himself from an animal's view while at the same time remaining perfectly visible to other human beings with normal color perception."

60833 Clay, G.
The changing landscape of movement.
LANDS. ARCHITECT.
57(1):33, Oct. 1966. Photos.

The rugged motor scooter, or tote goat, is making remote country more accessible, at the expense of wilderness areas. Trails are being converted into rutted roads for the backpacker and pedal-cyclists. Motorized bikes threaten the preservation of wilderness lands. The invasion by motorized equipment should be resisted by all who value rare landscape. This editorial suggests that agencies which manage the areas require separation of motorcyclists from hikers and bicyclists.

60834 Cooney, J. Here come the snowmobiles. COLO. OUTD. 15(2):10-12, Mar.-Apr.1966.

Gives brief history of snowmobiles, their importance to the hunter, fisherman, camper, and photographer for outdoor recreation during winter and their use by Colorado's Wildlife Conservation Officer in management and enforcement.

60835 Cotton, M. Rental rules. SPORT. GOODS DEAL. 113(6):116,261, Mar. 1966. Photo.

Discusses the rental of outdoor equipment to campers. Suggested rates for several pieces of equipment are stated.

60836 Cornell, G. W. Your camping outfit. VA. WILDLIFE 27(3):19, Mar. 1966. Photos.

Factors in choosing your camping gear and the variety of camping units and equipment available are discussed. Alternative of a vacation home is considered, too, and the aesthetic values of the outdoor environment in Virginia.

60837 Coykendall, R. W., Jr. Maps: another dimension. OUTD. CALL. 1(4):25-28, June 1966. Illus.

The common symbols used on standard Geological Survey maps and charts interpreted with illustrations. Wider use of these maps by outdoor people is recommended.

60838 Crandall, W. Boats for overland camping. BET. CAMP. 7(6):46-49, June 1966. Illus.

The proportion of new campgrounds that are located on streams, rivers, ponds, and lakes is still increasing. Towing a travel trailer limits you to a boat you can carry on your car top or an inflatable type that will stow inside. Pickup camper owners can tow a boat behind very easily. Tent campers can fasten a boat on top and still pack plenty of gear in a wagon.

60839 Dalrymple, B. Keeping out of coach trouble. TRAIL. TRAV. MAG. 31(11):35-36, 66, 69, Nov. 1966. Photos.

Coach and pick-up rigs can travel into out-ofthe-way spots but the seasoned camper will be wary of road conditions in rainy weather, alick wet soils, sandy beaches, and camping under trees. Sturdy equipment for changing tires is also necessary.

60840 Etkes, A. B.
The playground revisited. A new evaluation.
TRENDS PARKS RECREAT.
3(3):27-32, July 1966. Photos.

The child's desire to play does need to be turned into a constructive, productive, learning experience, but playground equipment is geared to athletically gifted children and is often physically hazardous. Limitation-minded play equipment is abandoned when mastered. Less than half the child population is psychologically, emotionally or physically equipped to derive value from the traditional playground. Successful games for children orient them toward outdoor activities and present a key to the whole concept of creative, self-directed play. Realistic play equipment depicting natural concepts capture the child's interest with a minimum of adult supervision.

60841 Farrar, D.F., Jr. One for the birds. SOARING 30(4):16-17, Apr. 1966. Photos.

Description of glider design to be used in a birdflight research project now in progress at Vanderbilt University, Nashville, Tennessee. Plans call for completion of this glider by July 1966. The birdflight research project is under National Science Foundation sponsorship.

60842 Freel, T.
What's new in outdoor vehicles.
MOT. NEWS
48(9):17, 28, 30. Mar. 1966. Photos.

Recreational vehicles for 1966 emphasize the self-contained concept. The camper should be independent of outside electricity, gas, water, and sanitary facilities.

60843 Fry, E. B. Resuscitators a "must" for pool and beach areas. SWIM. POOL AGE 40(7):30, July 1966.

Many drownings occur at supervised swimming areas that could have been prevented if resuscitation equipment had been immediately available. Resuscitators are neither complicated nor expensive pieces of equipment. Every public swimming pool and beach should have one. Criteria for selecting resuscitation equipment are provided.

60844 Grening, G. M. What you should know about LP gas. Part One. CAMP. GUIDE (42):20, 52-56, Apr. 1966.

The use by campers of liquefied petroleum gas is increasing rapidly. Here is the first in a series of three articles which contain technical information about the best and safest way to use LP gas.

60845 Grening, G. M. What you should know about LP gas. Part Two. CAMP. GUIDE (43):30-31, 77-80, May 1966. Illus.

Butane and propane gas units using disposable cans or cylinders, both American and European, are discussed. Some operating instructions and safety precautions are explained in detail and illustrated.

60846 Grening, G. M. What you should know about LP gas. Part Three. CAMP. GUIDE (44):35-37, 69-76, June 1966. Photos.

An examination of the use of LP gas by campers in heaters, lanterns, and stoves—especially the two-burner stoves that use disposable cylinders. Methods are included on exactly how to convert stoves using other types of fuel to LP gas.

60847 Hall, R. D. Surf-fishing equipment. SPORTS AFIELD 156(2):58-60, Aug. 1966.

The equipment that is needed to get your lure out beyond the breakers where fish feed on the tidal changes is explained.

60848 Huyck, D. B. Camping out. AMER. MOT. 35(2):10-11, June 1966.

A view of what the 1966 AAA Campground Directory contains is presented by the camping consultant for the American Automobile Association. 60849 McGovern, D.
... Fly Don McGovern's "Strafer" for wild, wild sport!
FLY. MOD.
350:24, 33, 36, 39, 47, Feb.-Mar. 1966. Illus.

Although not intended for stunt competition flying, the Strafer model airplane (90 m.p.h.) is recommended for sport flying outings.

60850 McGovern, D.
"The Gnat."
FLY. MOD.
349:21, 45, Dec.-Jan. 1966. Illus.

How to construct and fly the Gnat, a quiet little model airplane that is good for training excursions at small local flying sites.

60851 Mack, G.
Electronics for the fisherman afloat.
FISH. WORLD
13(2):24-28, 58, Mar. -Apr. 1966. Illus., photos.

There are three basic pieces of electronic equipment important to the fisherman taking his small boat out on big water. The author presents his views about this gear.

60852 Mack, G. Observations for a new boat owner. FISH. WORLD 13(3):20-24, May-June 1966. Photos.

Suggestions are provided about boats, boating equipment, and boating safety.

60853 Morton, F. Bonus vacation. FIELD STREAM 71(2):41,113-115, June 1966.

An explanation is given of the advantages and benefits derived from a trailer when it is used as a permanent site vacation home.

60854 Oertle, U. L.
Tips on buying used camping vehicles.
TRAIL. TRAV. MAG.
31(11):31-32, 60, Nov. 1966. Photos.

There are bargains in reconditioned camping vehicles but one should consider such factors as family size, cost, resale value and financing; a rating list is included.

60855 Ormes, M. D. Skyrocketing recreational vehicle sales spur need for parking areas. TRENDS PARKS RECREAT. 3(2):14-19, Apr. 1966. Ref., photos, tables.

The number of recreational vehicles now have passed the million mark. This article provides statistics on sales, uses, and users of these vehicles; parking areas, amount of space, related facilities and utilities needed are indicated.

60856 Schuyler, K.C. A secondhand bow? PA. GAME NEWS 37(6):48-53, June 1966. Photos.

Tips for selecting second-hand bows for targets or hunting, with approximate costs and their manufacturers are given.

60857 Sigler, H. Afield and astream. TAM ARCH. WORLD 15(6):31-33, June 1966.

An article to acquaint the reader with some of the things his camera must be able to accomplish when it goes hunting with him.

60858 Slatick, E.R. Binocular basics for the outdoorsman. PA. GAME NEWS 37(6):7-9, June 1966. Illus., photos.

Types and sizes of specific binoculars for a variety of outdoor observations are discussed. The care of binoculars is also noted.

60859 Stinson, T. Creative shelters for campers. CAMP. MAG. 38(7):12-13, Sept.-Oct. 1966. Photos.

Here are descriptions and specifications for the Adirondack shelter, the hogan, the tepee, the Canadian shelter, the covered wagon, and the round-to shelters.

60860 Traiman, S. Trailers for sale ... AMUSE. BUS. 78(11):18-19, Mar. 19, 1966.

The popularity of trailers is increasing not only in the recreational vehicle industry, but it is also becoming more desirable for the traveling showman. The trends and problems, advantages and disadvantages are discussed in this article.

60861 Ward, C.
The complete skiing boat.
MOT. BOAT.
118(1):25-26, July 1966. Illus., photos.

A guide to water skiing gear.

60862 Waterman, C. Plain fishing boats. FLA. WILDL. 20(4):26-31, Sept. 1966. Photos

New boats seen on Florida waters for fishing include rubber boats, inflatable craft, folding canvas boats, and canoes made of aluminum or fiberglass, and square-sterned prams, plywood skiffs and johnboats. The ideal motor for Florida rental boats is from 9 to 20 horsepower.

60863
The camper picture today.
WEST. OUTD.
13(8):44-45, 52, 53, 58, Aug. 1966. Photos.

The factors in their popularity—200,000 camper vehicles now in use—are presented as well as a recital about the advantages and disadvantages inherent in different models of campers.

60864 Wells, G. S. Tent trailers booming. WEST. OUTD. 13(7):36-37, 50-51, July 1966. Photos.

Thousands of campers each year are buying these tents-on-wheels. Here are the reasons why. Included is advice on how to buy and operate a tent trailer.

60865 White, E. Boat camping. FLA. WILDL. 20(4): 39, Sept. 1966. Photos.

Equipment necessary for boat camping is itemized. This is a new hybrid sport which combines the best of two outdoor activities.

60866
Boat and motor ownership.
RESORT MANAGE.
20(2):20, Feb. 1966.

The 1965 resort market survey includes a product report covering the use of boats and outboard motors. Of American resorts, more than 3100 (53% of the resort market) make boats and outboard motors available for guest use. This includes both owned and leased boating equipment. There are more than 34,000 boats and 15,000 outboard motors in use at resorts.

60867
Coloradan reminds customers of vacation savings in camping.
SPORT. GOODS DEAL.
135(2):67, Nov. 1966. Photos.

Here is imaginative merchandising of camping equipment. A Boulder, Colorado, sporting goods retailer placed a large sign in his window comparing initial costs for camping equipment with typical motel and restaurant charges for two weeks for a family of four. The total of \$365.35 for camping equipment was contrasted with commercial expenses of \$378.00 for the same people, broken down into motel accommodations and meals for 14 days. Implicit in the sign was the fact that the equipment expenditures would occur only at the outset.

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60868
'66 car sales rise sharply.
GOLFDOM
40(9):32, Sept. 1966. Photo.

A summary of highlights reported to members of the American Golf Car Manufacturers Association at their third annual meeting held at Shawnee-on-Delaware, Pennsylvania. Such facts as that the shipments of golf cars have increased 19% during the past year and that the dollar value is up 25% are included.

60869 Anderson, J.K. Make America beautiful, ARBORIST'S NEWS 31(2):9-14, Feb. 1966.

An article for stimulating action to rebuild and reclaim the natural beauty of our country. Natural beauty in our environment ministers to our spiritual and physical needs. Roadside planting, aesthetic building designs, and open space programs are steps forward. It is urgent that we work for a clean, beautiful and inspiring environment for today and for generations to come.

60870 Hay, J.
Attitudes toward nature.
MASS. AUDUBON
50(4):176-181, Summer 1966. Photos.

No abstract.

60871 Roberts, E.A., Jr.
The gifts of Zion. In Roberts, E.A., ed., America Outdoors.
Silver Spring, Md., The National Observer
p. 62-69, 1966. Map, photos.

For the working collegian who provides services in the hotel and the casual visitor, the cliffs and canyons of Zion National Park provide a backdrop of quiet natural beauty to the more common, often noisy, recreational pursuits centered at the hotel. The geological formations, plants and animals of the region may be observed on conducted tours. Foot trails bring the visitor closer to the natural wonders of the area. The grandeur and peace of Zion National Park bring to many a reappraisal of values.

60872 Shomon, J. J. You can sell a nature center. AUDUBON 68(4):218-219, July-Aug. 1966.

The author is elated over recent conferences with their emphasis on conservation, such as the White House Conference on Natural Beauty, a number of governors' conferences, and a county conference. They focus attention on our domestic aesthetic problems. One of these, especially in highly urbanized areas, is the lack of nature education. The nature center idea seeks to fill the voids on nature education that now exist in cities and crowded suburbs.

60873 Tilden, F. Seize the moment! PARKS RECREAT. -1(8):625,666, Aug. 1966.

The three fundamental aspects of interpretation in scenic and scientific areas are described:
What about beauty?
Don't try to tell all you know.
Seize the moment!

60874 Mongeon, E. J. 50-mile swim goal helping sedentary to keep fit. SWIM. POOL AGE 40(6):23, June 1966.

Here is a description of the American Red Cross 50-mile Swim-and-Stay-Fit Program. Inaugurated in 1961 as one answer to President Kennedy's emphasis on physical fitness, the program is especially designed for the sedentary person, the youngster, the non-competitive swimmer, and the older person. The 50-mile swim, done in segments of 440 yards at each visit to a participating facility, has a goal to improve the physical fitness of swimmers of all ages.

60875 Musial, S. How the American male can be fit. The relation of lifetime sports and physical fitness. PARKS RECREAT. 1(9):695, 767, Sept. 1966. Photo.

Too few American men engage in regular physical exercise, one essential ingredient of good health. The author, who is President Johnson's consultant on physical fitness, believes the best incentive for regular exercise by the American male is interest and involvement in a sport he can enjoy all his life. Every youngster should learn the rules and basic skills of several sports—badminton, bowling, golf, handball, swimming, tennis—before he reaches his teens. These are sports he can enjoy after he is out of school and they will help keep him physically fit.

60876 Sloan, M. R.; Liba, M. R. Effects of participation in physical education on achievement in selected characteristics. RES. QUART. 37(3):411-423, Oct. 1966. Refs., tables.

The reason for this study was to find out the effects of physical education participation on achievement in certain characteristics. The characteristics studied were knowledge, posture, recreational proficiency, and some aspects of physical fitness. College women were the subjects for the study. One group participated in the required program for one year; a second group for two years; a third group was not enrolled in physical education; and a fourth group had the option to enroll or not to enroll. The findings of this study are reported in a well-documented and comprehensive manner.

60877 Rillo, T. J. People and the out-of-doors. AMER. FOR. 72(3):8,44-45, Mar. 1966.

The out-of-doors is abundant in an endless variety of opportunities for diversification and can provide the stimulation needed to counter-balance the oppressiveness of urban living, but people must realize the value and importance of open land, the need for space, and the need for legislative support to provide for present and future needs.

60878 Sessoms, H. D.
Measuring outcomes in terms of socialization
and the mental health of the individual. In
National Conference on Recreation Research,
1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys.
Educ., Recreation
p. 42-53, 1966.

In the resocialization of the emotionally disturbed, wholesome recreation experiences are a necessity. These can be subdivided as: mastery type recreation experiences, self regard recreation experiences, tension reducing recreation roles, affiliation roles, power relationship recreation roles, identification roles, and socialization recreation roles.

60879 Goldman, D. L. Conservation and the city. TRENDS PARKS RECREAT. 3(3):24-26, July 1966. Photos.

The American city has changed faster than our comprehension of it. The conservation of natural values and the protection of beauty need to be related to urban problems. There has been an awakening of interest to provide smaller parks and open spaces within cities. Today, it is imperative to regard life and land as a continuity and to seek solutions from the entire range of human experience and knowledge. Education will play an important part in preservation of natural beauty in the urban scene.

60880 Berkeley, N. J. The economics of recreation. PARKS RECREAT. 1(7):549-550, July 1966.

An article which discusses the "leisure market" and the impact of recreation upon our American economy. He reports the findings of Dr. Gallup's "Leisure Index" survey, and makes recommendations about the whole field of leisure time and the development of a new philosophy of how this free time should be used.

60881 Learning, G. F. Recreational tourism. ARIZ. REV. 15(7-8);10-13, July-Aug. 1966. Maps.

This article reports on the thriving tourist industry of northern Arizona and its impact on the region's economy. The major outdoor recreation attractions in each of the five counties of northern Arizona are named, giving visitation statistics and seasonal patterns of recreational tourism in each county.

60882 McHugh, J.
Selling fun for profit.
AMUSE. BUS.
78(10):22-27, Mar. 12, 1966. Tables.

An annual market report on the fun industry is discussed. Statistics that are given include revenue and profits for 54% of the entire industry and have figures on attendance, gross income, investment, facilities, food and drink products, operating season and expenses, and capital improvements.

60883 Nathan, R.R., Associates, Inc. Resource Planning Associates Recreation as an industry in Appalachia. Washington, Appalachian Regional Commission 132p. 1966. Ref., tables.

This study concerns the impact on local economies of the complex of activities that compose the "tourist recreation" industry. Recreation alone almost never can provide a base for a viable economy. It can provide significant and valuable supplementary benefits to a local economy based on manufacturing, mining, or agriculture. Such aspects as visitor expenditures, visitor characteristics, employment, income, investment, taxes, the three kinds of impact on local economy, seasonality, vacation homes, promotion, development control, and the recreation industry in general are explored.

60884 Nathan, R.R., Associates, Inc.
Resource Planning Associates.
Recreation as an industry in Appalachia. Field study summary reports.
Washington, Appalachian Regional Commission 71p. 1966. Maps.

The Field Study Summary Reports were prepared for the Appalachian Regional Commission by personnel who visited the areas. The material included in each case reflects their judgments as to the most significant findings. The places surveyed were Capon Springs, W. Va.; Harpers Ferry, W. Va.; Cherokee, N.C.; Deep Creek Lake, Md.; Gatlinburg, Tenn.; Kentucky Dam Village, Ky.; Park City, Utah; Somerset, Penna.; and Stratford, Ontario. The fact sheet provides data which should assist the reader in understanding the nature of the area under discussion and the nature of the recreation industry and its impacts on local economies. This information makes it possible to evaluate the role of recreation in the economies of the areas studied.

60885 Nathan, R.R., Associates
Potential impact of the Delaware Water Gap
National Recreation Area on its surrounding
communities.
Washington, Robert R. Nathan Associates,
Inc.
232 p. 1966. Illus.

Measurable and non-measurable facets of this recreation area's economic impact are analyzed along with economic conditions in the local area primarily affected. The natural and cultural conditions of the area are examined to provide a context for the analysis. Both opportunities and problems for the surrounding communities will follow the creation of a national recreation area, and plans should be formulated better to guide the inevitable actions. An action program is outlined.

60886 Ray, C. A. How to ride wave of surfing sales. SPORT. GOODS DEAL. 134(1):136,138, Apr. 1966.

This article reviews the economic aspects, the successful as well as the unsuccessful, and the "pros and cons" of good business in the ventures of past surfing sales.

60887 Stewart, W.L.; Lueck, K.L.
Tourism in Utah— A study of tourism and recreation potential in selected Utah counties.
Salt Lake City, Univ. of Utah
268p. 1966. Maps, illus., tables.

Extensive data were collected, screened, and evaluated in terms of its relationship to the potential development of the counties concerned. Six key projects identified as the closest to realization were Canyonlands Resort, Hidden Valley Ranch, Lake Creek Recreation Center, Boulder King Ranches, Inc., Troll Hagen, and Indian Heritage Park. Conclusions enumerated show residents of economically distressed counties their opportunities, based upon tourism and recreation.

60888 Wallace, D. Canadian cavalcade. TRAVEL TRADE 74(44):150,152, Nov. 1, 1966. Sect. 1.

The travel industry of Canada and its provinces prospered in 1966 and is expected to in-

crease its prosperity in 1967 and beyond. This success may be attributed to non-stop air flights from Canada to various countries; the use of air-craft designed for short, medium, long and overseas routes; good roads; good transportation; comfortable and convenient hotels and motels. The World Exhibition opens April 28, 1967 in Montreal.

60889
Factories full blast.
SPORT. GOODS DEAL.
135(2):57-58, Nov. 1966. Photos.

According to a survey by the Sporting Goods Dealer magazine, 80% of boating manufacturers reported increased sales in 1966. Pertinent answers from certain manufacturers to survey questions about marine sales are quoted.

60890 1965 Market analysis of the resort industry. RESORT MANAGE. 20(2):18-19, Feb. 1966.

The first major statistical survey of the resort industry has been recently completed. General observations, industry size and characteristics, and data on geographical distribution of resorts in the U.S. by areas are provided. This is an exclusive statistical report on resort characteristics and product usage.

60891
Picnicking and camping.
SPORT. GOODS DEAL.
133(6):111-112, Mar. 1966. Illus., photo, tables.

Results of a coast-to-coast survey of the industry give information about sales of picnicking and camping equipment—including monthly buying trends by wholesalers and retailers.

60892 Gillies, E.C. Look out! Marketing'll get you. TRAVEL TRADE 74(44):24, 26, Nov. 1, 1966, Sect. 1.

The advent of the new marketing forces in the travel industry is creating a great change in the relationship between the travel agent and the carrier. The increasing role of importance of the operator to the dealer may eventually eliminate the carrier-agent relationship. Future prospective ventures in this new field of marketing are discussed.

60893 Hess, D.
Parks and recreation.
COLO. OUTD.
15(3):16-18, May-June 1966. Illus.

The reasons why user fees have become necessary at the Colorado state parks are dis-

cussed. A list of good practices for safety and welfare of all users within recreation areas is given.

60894 Milliman, J.W. Price policy and land value taxation for urban water supplies.

AMER. J. ECON. SOCIOL.

25(4):379-398, Oct. 1966.

"New urban supply and demand reactions will involve greatly different kinds and levels of technology, treatment and investment. Much of the urban demand for outdoor recreation is water-based in nature; the supply of water-recreation facilities can be developed in conjunction with the provision and operation of water-supply and sewage-disposal structures. Facilities for swimming, boating, fishing have complementary and competitive relationships with sewage disposal and water supply which would seem to justify both a cooperative and a multipurpose urban approach. ' Municipal reservoirs may open to recreational uses. Construction costs might be defrayed by taxation of adjoining land and imposition of user fees.

60895 Morris, J.R. Camp costs analysis. CAMP. MAG. 38(4):12-17, Apr. 1966. Illus.

Detailed expenses at four successfully managed camps are presented for comparative evaluation purposes.

60896 Proud, D. M. Food costs and menu planning. CAMP. MAG. 38(4):20-21, Apr. 1966. Ref.

Menu planning suggestions and cost allocations for food to give sufficient nutrition to campers.

60897 Steen, M. O. Management in danger. NEBRASKALAND 44(12):44-45, Dec. 1966. Photo.

Wildlife management is expensive. It is financed through permits—a tax for permission to hunt, fish or trap—and through the federal excise tax on sporting equipment. This article provides statistics on hunters and fishermen and their expenditures.

60898
BLM designates more areas for collection of recreation fees.
IZAAK WALTON MAG.
31(4):18, May 1966.

The benefits to be derived from the 1966 Federal Recreation Permit are enumerated. Twelve additional recreation areas are listed. 60899 New fee schedule for Utah parks. PARK MAINTEN. 19(8):15, Aug. 1966.

Utah State Park and Recreation Commission adopts user fee system for visitors to State parks, picnic, camping, and boating facilities.

RESEARCH

60900 Avedon, E. M.
The role of research in health-oriented recreation service. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 18-24, 1966.

All of the national health problems have implications for therapeutic recreation service; thus, although it is difficult to pinpoint a research focus, the research concerns are many and varied.

60901 Bishop, D.W.

Some multivariate data analysis techniques and their applications to recreation research. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.

Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 177-193, 1966. Tables.

Four multivariate data analysis techniques and their applications in recreation research are discussed. Illustrated by tables.

60902 Buskirk, E.R.
Physical outcomes of recreational programs with particular emphasis on middle-aged males. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research. Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 62-79, 1966. Illus., tables.

There needs to be an appraisal of activity levels and energy expenditures in different recreation activities. While it would be impractical to screen for fitness all participants for any activity, more research should be done on the energy demands and other health-related aspects of most recreation activities.

60903 Carter, G.W.
The challenge of research in today's society. In National Conference on Recreation Research, 1965. University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p.1-10, 1966.

Recreation research resources should be deployed in two major areas—the problems within the programs that deliver recreation services, and the policy issues which determine the role of recreation as a contributing force in the improvement of the quality of our national life. More research-based knowledge for practice of the recreation profession and in policy-making is recommended.

60904 Castle, E.N.; Brown, W.G.
The economic value of a recreational resource: a case study of the Oregon salmon-steelhead sport fishery. In Western Agricultural Economics Research Council. Committee on the Economics of Water Resources Development. Water resources and economic development of the West.
Pullman, Wash., Wash. State Univ. p. 1-12, 1966. (Report no. 13).

A critical examination is made of studies to estimate empirical demand functions for outdoor recreational resources with particular reference to a study in Oregon on the demand function for sport fishery. A decision-making model is based on the assumption that fishermen would tend to move toward an equilibrium condition characterized by equating the marginal cost of obtaining an additional unit of recreational experience with the marginal utility or satisfaction derived from the experience. The approach used is to utilize transfer costs in an attempt to estimate the demand function for the sport fishery, namely, salmon-steelhead. The empirical estimation of the demand curve is based on angler expenditure taken from mail questionnaires. A Clawsontype demand curve is applied to the data.

The question of the interpretation and significance of empirical demand curves for recreation is discussed. Consideration is given to the problem of consumer surplus vs. marginalism as a measure of total values. The authors believe that the key to interpretation lies in the decision-making environment. Estimated demand function as a body of empirical knowledge may be used in a variety of ways, i.e., a fishery resource which may be used for commercial and/or sport purposes. The quality of recreation experiences is one of the most difficult of empirical relationships pertaining to outdoor recreation.

60905 Clawson, M.
Measuring outcomes in terms of economic implications for society. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 54-61, 1966.

Three major fields of economic research on outdoor recreation are covered—recreation demand analysis; valuation of natural resources when used for outdoor recreation; and the economic impact of recreation.

60906 Goldstein, L.
Research support from Public Health Service. In
National Conference on Recreation Research,
1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys.
Educ., Recreation
p. 230-236, 1966.

A flow chart provides a diagrammatic picture of how the research grants system operates. In order to describe the bases for application review, the author discusses the research problem itself, the research design, the principal investigator, the investigation and its facilities, and the budget. If one seeks research funds, one should have a definite plan and seek support for that particular project or program.

60907 Hopkins, W. S.
Research and user preferences. <u>In</u> National
Conference on Recreation Research, 1965,
University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys.
Educ., Reac
p. 81-85, 1966.

One salient point made was that when research has penetrated the motivations and reasons for recreational interests, problems connected with user preferences in activities and facilities will become less complex.

60908 Kraus, R.

Utilization of research in program planning and leadership development. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.

Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 135-143, 1966.

With direct reference to program planning and leadership development, the author delineates the role of research. We need to be as critical in the identification of significant research needs as we are ingenious in the development of funded research proposals. Research reports should be more understandable with emphasis on findings and their implications as well as on the methodology.

60909 Lucas, R. C.
Research needs generated by new directions in forest policy. In Society of American Foresters. Proceedings, 1965.
Detroit p. 73-75, 1966. Ref.

A discussion of recreation research needs under the four headings of demand; supply; distribution, or incidence of costs and benefits; and means of adjusting for unequal distribution of costs and benefits. One should see recreation areas as a part of a larger, interrelated geographical system where one part affects another, and should study means for increasing compatibility of different uses.

60910 National Conference on Recreation Research, 1965, University Park, Pa. Recreation research: collected papers. Washington, Amer. Ass. for Health, Phys. Educ., Recreation 243p. 1966. Ref., illus., tables.

The Proceedings of the National Conference on Recreation Research held at Pennsylvania State University discusses the role of research, the effects of recreation, user preference, function of research in administration, the research process, cooperative research, funding, and recommendations for facilitation of research in recreation.

60911 National Conference on Recreation Research, 1965, University Park, Pa. Special Conference Committee.
Recommendations for facilitation of research in recreation. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 237-238, 1966.

The recommendations are concerned with four major groupings: college and university recreation faculty, practitioners in the field of recreation service, officers of professional recreation organizations, and officials in appropriate government agencies.

60912 National Recreation and Park Association. Research in recreation 1965. New York 218p. 1966.

Part 2 of an annotated bibliography cites surveys, plans, studies, reports, demonstration projects, and master's degree problems in the field of recreation. The bibliography covers a period of ten years. It excludes publications without a particular research orientation. Arrangement is alphabetical by author without subject or form divisions.

60913 Ogden, D. M., Jr.
The role of research in the Federal and State recreation services. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 25-29, 1966.

Systematic inquiry into outdoor recreation as a form of human behavior is recommended. This involves, for example, examining why people

engage in it, what satisfactions they derive from it, what forms of recreation opportunity they wish, how adequately they are served, how much effort they are willing to expend, how much money, and what impact does their behavior have on others and on society.

60914 Ohio. State University, Columbus. Water Resources Center.
Water quality and recreation in Ohio.
Columbus
308p. 1966. /Symposium on Water Resources
Research, 2nd, 1966. Proceedings/

The symposium is presented in four sessions: (1) water quality and recreation. In the first session are discussed: research problems in water quality and recreation; mass leisure, a new social problem; recreation and the economics of regional water; water and water quality in relation to recreation; and quality of the recreation experience. (2) Lake Erie recreation. In the second session are discussed: the physical basis of Lake Erie water quality; the design of a model for guiding investment; and water, the pervasive source. (3) acid mine drainage and recreation potential in southeastern Ohio. In the third session are discussed: acid mine drainage control - the key to recreational development in southeastern Ohio; engineering aspects of acid mine drainage; the role of micro-örganisms information and abatement of acid mine drainage; an economic framework for evaluation of acid mine drainage; economics of water resource planning. (4) tourism and Recreation. In the fourth session are discussed: tourism and economic development.

60915 Reid, L. M.
A progressive look at park and recreation research. In American Institute of Park Executives.
Speech presented at 67th annual conference, 1965.
Milwaukee
9p. 1965.

Lauds the creation of the National Recreation and Park Association as good organizational machinery and discusses ecological, motivational, developmental, and managerial research. Points out the necessity of research as an adjunct to decision-making.

60916 Reid, L. M.
Utilizing user preferences in predicting outdoor recreation demand. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 86-93. 1966.

Attendance-counting studies, activity participation studies, user preference and satisfaction studies, and behavioral studies are aids to predicting demand. Good recreation areas require adequate knowledge of resource capabilities, responsiveness to public wants and needs, and adherence to managerial goals.

60917 Sapora, A. V. Ascertaining interests for recreation program planning. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.

Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 94-105, 1966.

Dr. Sapora outlines some approaches to the problem of assessing interests for recreation program planning. In addition to recommending certain research techniques, he maintains that recreators must learn to borrow from the research of various related disciplines and step by step develop their own research.

60918 Sapora, A. V. Interdisciplinary research. <u>In</u> National Conference on Recreation Research, 1965, University Park, Pa. Recreation research. Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 195-199, 1966.

The need for interdisciplinary team research is marked by a readiness for this type of approach, a condition that evolves after analysis of the situation.

60919 Schneider, E.; Beezer, R.
Research support by the United States Office of
Education. In National Conference on Recreation Research, 1965, University Park, Pa.
Recreation research.
Washington, Amer. Ass. for Health, Phys.
Educ., Recreation
p. 220-229, 1966.

Aspects of Federal laws providing sources of funds are discussed. Descriptions of the Bureau of Research of the Office of Education, patterns of support, application procedures, and the project and program proposals are provided.

60920 Smithee, K. J.
Cooperative research—local departments and federal government. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 200-203, 1966.

The current and long-term benefits of a quality cooperative recreation research effort between the local departments and the Federal Government are many. The areas of beneficial cooperative recreation research effort are enumerated and explained.

60921 Staley, E. J.
Function of research in recreation administration. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation Research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 107-114, 1966.

The recreation administrator should be familiar with research procedures. Action research—research that results in recommendations for action or change—is needed in planning and administering recreation services. Ten areas of recreation administration where research could aid and improve recreation administration are listed.

60922 Stoltenberg, C. H.
The research process. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 153-159, 1966.

Essentials of the research process are (1) a framework to help the researchers identify problems worthy of study; (2) problem analysis; and (3) some observations about the study objectives that call for data useful to recreation program planners or supervisors or to other recreation researchers.

60923 Stout, N. J.

The nature of research projects supported by outdoor recreation-oriented agencies—public and private. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.

Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 213-219, 1966.

Outdoor recreation research is defined, and outdoor recreation-oriented agencies are characterized. Federal and State government programs are discussed as they relate to research projects. Specific examples of privately supported research are cited and some sources of private financial support are listed. More should be known about users and their demands, how recreation affects people, and ways of making people aware of problems associated with outdoor recreation resource use.

60924 Thacker, E. H.
Utilization of research related to management procedures. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 144-151, 1966.

Applied research is the kind most used by management, but the need for basic research to

justify recreation as a field of service is recognized. We turn to applied research to solve the immediate problems of administration but management also asks, "Why?" and we must look to basic research for the answer.

60925 Tomazinis, A. R.
Utilization of research in urban planning and development of physical resources. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 115-134. 1966.

The present use of research in urban comprehensive planning is rather limited, but its use is increasing. In the United Kingdom at least 26 major areas of concern for planning research are considered. In the United States, even more areas—especially for planning physical resources in metropolitan regions, are felt to be significant.

60926 U.S. Bureau of Outdoor Recreation; Smithsonian Institution. Science Information Exchange. Outdoor recreation research. A reference catalog. Washington 86p. 1966.

Current and recently completed outdoor recreation research projects are listed and described briefly. These descriptions are grouped under headings of Resources, User'Studies, Economics, and Research Methods. A performing organization index, a principal investigator index, and a subject index are included. This first volume may serve as a stimulus for potential contributors to later editions of the catalog.

60927 U.S. Federal Council for Science and Technology. Committee on Water Resources Research.

A ten-year program of Federal water resources research.

Washington, Govt. Print. Off.
88p. 1966. Illus.

The Committee on Water Resources Research of the Federal Council for Science and Technology outlines a research program for 1967 to 1976 and recommends a doubling of research effort by 1971. It suggests expenditures and priority time schedules consistent with the priorities of the various research areas. Specific recommendations for each of the 98 categories of research and supporting activities are detailed. Recommendations on the major problem areas would increase research in the following categories:

(1) methods and criteria for water resources planning; water law; institutional arrangements for facilitating the results of more effective

planning; (2) cost allocations, cost sharing, pricing, and payment; (3) methods of waste treatment; (4) water conservation in industry and municipal use; (5) water conservation in agriculture; (6) possible ecologic impacts of water development; (7) effect of non-water activities on water, especially urbanization; (8) new ideas on water; (9) climatic changes and the significance of fluctuations from flood to draught; (10) extent and character of various water-oriented problems as prelude to research; (11) some specific problem areas; (12) consolidation of federal water research laboratories and communication and coordination between research workers; (13) Federal program of experimental watersheds; and (14) efficiency and cost reduction of large engineering projects.

60928 Van der Smissen, B.
Effects of recreation on individuals and society.
In National Conference on Recreation Research,
1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys.
Educ., Recreation
p. 32-41, 1966.

The importance of "effect research" as fundamental to understanding the impact of recreation upon individuals and society is stressed. Recreation research must focus upon the development of methods and instruments if it is to move ahead. Other pertinent questions and issues are raised.

60929 Ver Lee, J. M.
Cooperative research—local departments and universities. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p. 204-205, 1966.

The values derived from such a partnership are illustrated by examples of cooperative research efforts between city recreation departments and universities.

60930 Ver Lee, J. M.
The role of research in the recreation services in the urban complex. In National Conference on Recreation Research, 1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health, Phys. Educ., Recreation p.11-17, 1966.

Many opportunities for research exist in urban recreation services. Needing study are problems of program evaluation, patron response, goals and objectives, fiscal policy and process, evaluation of supplies and equipment, communication, personnel, safety, community organization, and the measurement of identifiable values from recreation for the individual, the neighborhood, and the community.

60931 Anderson, D. R. Computers and waterfowl. COLO. OUTD. 15(6):11-12, Nov.-Dec. 1966. Illus.

Electronic computers and waterfowl are rarely associated—except in the case of a group of ducks on a portion of the Monte Vista National Wildlife Refuge in south central Colorado. Here a member of the research team reports their methods in carrying out a study of waterfowl and their environment in the San Luis Valley.

60932 Fitzgerald, G. P. Use of potassium permanganate for control of problem algae. AMER. WATER WORKS ASS. J. 58(5):609-614, May 1966. Ref.

Data is presented on the comparative toxicity of potassium permanganate and copper sulphate to eight species of problem algae. The degree of difficulty in defining problem algae depends upon the ultimate use of the water, whether a potable water supply, industrial supply, place for fish to live, recreational area, source of water for irrigation, etc. In each instance there are possible problems associated with the uncontrolled growth of algae that are characteristic of the use of the water. Experimental treatment with 1 to 5 ppm of potassium permanganate was sufficient to kill seven of the eight algae species.

60933 Frye, J.
Milfoil spreads down Chesapeake.
NAT. FISHER.
47(2):6-c, May 1966.

No abstract.

60934 Hutt, A. Fisheries Research Laboratory. FLA. WILDL. 20(6):20-21, Nov. 1966.

Florida's first Fisheries Research Laboratory is scheduled to open in late November. Its facilities and personnel will take the guesswork out of the types and amounts of pollutants detrimental to the well-being of fish and other aquatic life. Public health officials long ago established water-quality standards for human beings. Yet some water, which people can drink, ski on, and swim in with no threat to their health, cannot support an adequate game fish population. The new Laboratory will determine the natural water-quality requirements for fresh water game fish.

60935 Kolipinski, M.C.; Higer, A.L. Ecological research in Everglades National Park. NAT. PARKS MAG. 40(229):14-17, Oct. 1966. Map, illus., photos.

In Everglades National Park myriad birds, fish, reptiles, mammals and plants live,

give birth and die in a delicately balanced hydrologic and biologic system. In recent years water diversions by man above the northern boundary of the park have altered natural surface flow and endangered the lives of animals and plants. In 1964, the Geological Survey, in cooperation with the National Park Service, started an ecological research program to furnish additional facts on water needs and to assess the impact of the changes in water supplies on Everglades life. Three sites, representing a variety of aquatic environments are being intensively studied. The results of the ecological studies will be a prime factor in determining the timing and amount of fresh water released into the park along the north boundary when based on the needs of the biota.

60936 Lapham, V. T. New methods. Aquatic weed control in Louisiana. LA. CONSERV. 18(11/12):2, 19-23, Nov.-Dec. 1966.

The efficiency and economy of aquatic weed control to prevent a possible fish kill are discussed. The techniques of drawdown, biologic control, and the use of chemicals are presented. To control aquatic weeds effectively, it is essential to identify the plants that are causing the trouble and to determine where and how they are submersed.

60937 Pfeiffer, P. W. Study designed to improve fishing. KY. HAPPY HUNT. GROUND 22(27):6-7, Mar. 1966. Illus.

A research program for the investigations of State-owned lakes begun in 1958 furnishes the Division of Fisheries basic information concerning fish populations, fishing pressure, fish harvest and water quality.

60938 Ripley, S.D. A perspective of the Smithsonian Program in Ecology. NAT. PARKS MAG. 40(229):10-13, Oct. 1966. Photos.

New programs of research at the Smithsonian Institution include among others a survey of leading university programs in ecology to determine how and where to contribute to the growth of knowledge vital to establishing harmonious adjustments between man and his environment. The International Biological Program focuses strongly on environmental biology "with a view toward broadening the productivity base for human population. " Work is underway on a World Network of Nature Reserves for scientific research. Smithsonian operates on the theory that the survival of human societies at high standards of living in quality environments depends on what is accomplished in environmental biology within the next decade.

60939 Swift, E. Control of nature. A possibility for the future. FLA. WILDL. 20(7):5, 38, Dec. 1966.

An editorial that discusses problems of water quality; problems of population. Editor claims that the aim of science is to bend the forces of nature to the will of man—bend, not block or break. Men have accomplished much in environmental modification—bending of nature—but not any significant control. Even the modifications have often misfired when changes made for one purpose have induced unwanted or unforseen consequences.

60940 Swift, E. Wildlife ecology. ILL. WILDL. 2(21):7, Nov. 23, 1966.

The real trouble with conservation today, the author argues, is that ecology has not found its proper place in the scheme of things. Too many people and public agencies are drafting their own versions of conservation commandments. They do not always realize that natural resources can only be manipulated within certain limits if the end results are to be beneficial. Beyond these limits, the effects can be destructive. With quotations from the President's Science Advisory Committee to support his views, he pleads for a return to ecological concepts.

60941
Effect of pesticides on fish becomes a State problem.
BADG. SPORTS.
22(11):9, June-July 1966.

According to a Conservation Department survey, indiscriminate use of pesticides has caused depletion of Wisconsin's fish and wild-life populations. The pesticide DDT has been found to have a long chemically active life. It has the ability to be magnified biologically as it passes through the food chain of plants and animals. As it becomes more concentrated in higher forms of life, it likewise becomes more powerful. On Conservation Department recreation areas, another kind of pesticide will be used to control insects and used sparingly.

60942 How to control mosquitoes. PARK MAINTEN. 19(5):24-26, May 1966.

Modern control measures for mosquitoes by ground and air equipment and some biological testing of new insecticides are treated.

60943 Brown, J. G. Tougher water clarity standards are urged. SWIM. POOL AGE 40(6):41-43, June 1966.

The author, president of the Granger Filter Company, deplores a recent trend in the filter industry. Some firms are designing filtration systems to meet the APHA six-inch black disk standard—the minimum allowable water clarity. Filtration systems should not be based on a water quality standard that is merely safe. Higher goals are urged.

60944 California. University. Water Resources Center. San Joaquin Study Group. Impact of water on land. Proceedings of the Study Group Conference. Berkeley, Water Resources Center 140p. 1966. Maps, photos. (California. University. Water Resources Center. Report No. 9).

"The report describes activities of the San Joaquin Study Group from its inception in November 1965 up to June 1966. Included are statements and discussions of the scope, organization, objectives, and funding of a proposed interdisciplinary University of California research project concerned with the development of the West Side of the San Joaquin Valley. " In 1970 the California aqueduct will begin delivering millions of acre-feet of water annually to sparsely populated and arid areas. With the arrival of water to the West Side there will be a transformation of the region. The aqueduct could provide reservoirs or bays along its channels for swimming, boating and fishing. Water would be available for large-scale plantings for recreation use along roadways. This report is intended to serve as background for research to follow.

60945 Culliton, B.J. Noise menace threatens man. SCI. NEWS 90(16):297-299, Oct. 15, 1966. Photo.

No abstract.

60946 Headley, J. C. Environmental quality and chemical pesticides. J. SOIL WAT. CONSERV. 21(4):130-132, July-Aug. 1966. Ref.

No abstract.

60947 Wood, G. H.
NAWAPA—king-sized Rampart.
WEST. OUTD. QUART.
33(2):4-5, Spring 1966.

NAWAPA (North American Water and Power Alliance) is a proposal that has a number of supporters. The plan would reverse the flow of water from four Alaskan rivers plus several large Canadian streams to the thirsty southwest

and the polluted, shrinking Great Lakes, producing electric power en route. Here is a full explanation of the NAWAPA proposal, now under study by the Senate; how it compares with the Rampart Dam proposal; and of the views of both advocators and dissenters.

60948 Metzger, R. E. Stilling the shifting sands. OUR PUBL. LANDS. 15(5):6-8, Summer 1966. Photos.

The Sitka spruce forest that bordered the Oregon dunes was destroyed by sand and wind which followed severe fires in the late 1800's. The Bureau of Land Management, the Forest Service, the Soil Conservation Service, the State of Oregon, and counties and local communities have been working cooperatively since 1949 to restore plants and wildlife to the dunes by planting European beachgrass and seeding wetland flats with cereal grasses.

60949 Tovell, W. M. Beauty and the falls. CAN. AUDUBON 28(2):46-47, Mar-Apr. 1966. Illus.

Funds have been granted to undertake a feasibility study to prevent further erosion—i.e., rock falls—of the American cataract, to halt their "degeneration" into rapids, and to preserve their "beauty." Now man seeks to halt Niagara's erosive power—the power of cascading water. So another of their natural assets must go—the natural process of gorge cutting which is the fourth dimension of this wonder of the natural world.

60950 Turcott, G. L. The frail lands.
AMER. FORESTS
72(2):16-19, Feb. 1966. Photos.

"Frail lands" are lands in the advanced stages of erosion. Practical land rehabilitation efforts are being developed and administered by the Bureau of Land Management.

60951 U.S. Corps of Engineers
Engineering and design. Beach erosion control
and shore protection studies.
Washington
27 p. 1966. Maps, illus. (Engineering Manual
EM 1110-2-3300.)

This manual discusses the types of information required in beach erosion studies, the methods employed to obtain such data, and the formulation of a study program. It includes how to obtain information needed to define the beach erosion problems in a study area and to serve as the basis for planning remedial measures.

60952 Smith, E. R., Jr. The story of Little Contentnes. WILDL. N.C. 30(10):8-9, Oct. 1966. Photos.

A torrential rainfall in July of 1962, causing 40% crop damage, triggered the action at Little Contentnea Creek near Farmville in eastern North Carolina. Planning for flood damage prevention began after application for help under the federal Small Watershed Act. Initiating proper soil conservation practices on the uplands was the most important part of the plan. Already results are appearing such as increased production of crops, reduction of damage to real estate, and preservation of valuable wildlife resources.

60953 Voigt, W., Jr. Flood control vs. man control. IZAAK WALTON MAG. 31(4):8-9, Apr. 1966. Photos.

The virtues of flood control by control of man are considered. There is a discussion of techniques of flood plain planning, mapping and zoning in flood damage reduction.

60954 Eddy, G.E. Water and our future. MICH. CONSERV. 35(6):22-25, Nov.-Dec. 1966. Photos.

The Chairman of the Michigan Water Resources Commission reports that water pollution control is gaining ground. Attitudes are starting to change. To have clean water, more money must be spent. Public support for better water, intensive research, and sound water laws will provide the long-haul solutions for Michigan and the Nation.

60955 Fosdick, E. R.
The pollution of man's environment.
NAT. PARKS MAG.
49(228):16-20, Sept. 1966. Illus., photos.

The alarming concentration of pollutants in the atmosphere, hydrosphere and land will continue to increase until drastic changes are made in methods of disposal.

60956 New England Interstate Water Pollution Control Commission.
Report on interstate water pollution control, 1965.

n. p., n. p.
40p. 1966. Illus., maps.

The report discusses classification of waters, planning, construction, research, legislation, and finances of the New England Interstate Water Pollution Control Commission.

60957 Ortenzio, L. F.; Stuart, L. S. Pool disinfectant test procedures outlined. In SWIMMING POOL DATA AND REFERENCE ANNUAL 33: 32, 37, 160, 179-182, 1966. Ref.

The U.S. Department of Agriculture adopts first official criteria for pool disinfectant test procedures. A biological test, using Escherichia coli and Streptococcus faecalis as test organisms, has been designed to determine the germicidal activity of water containing 0.4-1.0 ppm of available chlorine at ph 7.0-7.5. Results presented indicate the usefulness of the method in evaluating commercial disinfectant preparations recommended for use in pool water disinfection. The procedure can be readily adapted to study the effects of chlorine stabilizers, the influence of various algaecides applied as adjuncts to water disinfectants on germicidal activity, and determinations as to the acceptability of residual disinfecting activity of swimming pool waters during times when the pool is in use.

60958 Poston, H.W. Introduction to the Comprehensive Water Quality Program for the Illinois River Basin. AMER. WATER WORKS ASS. J. 58(4):393, Apr. 1966.

A definition of pollution is enlarged to include anything that changes the physical, chemical, biological or bacterial quality of water in such a manner as to impair any or all of its uses. A comprehensive plan to remove pollution from the water of the Great Lakes-Illinois River Basin Projects should include: 1) present conditions—what the state of the water is now, 2) goals—what quality would be desirable to achieve or maintain, 3) measures required—how to achieve desired goals, 4) cost—how much money would be needed, and 5) time schedules—how much time would be needed for completion of the project.

60959 Poston, H. W. Conclusion to the Comprehensive Water Quality Program for the Illinois River Basin. AMER. WATER WORKS ASS. J. 58(4): 402, Apr. 1966.

The Sagamon River reservoir and Lake Decatur provide the only source of water for storage in the Illinois River Basin. Now under construction by the Corps of Engineers, the project is designed to regulate river flow and improve water quality. Utility men may help in improving the quality of water in the Illinois Basin by: 1) support of state agencies and civic groups in making the facts on water use and pollution known; 2) support of municipal sewerage departments in getting extensions and expansions; 3) quality problems such as bad-tasting water should be made known. Public opinion is a potent force when people are informed and aroused.

60960 Pyle, A. B. For pure waters. N. J. OUTD. 16(7):12-14, Jan. 1906.

The author is Principal Fisheries Biologist in the New Jersey Division of Fish & Game. Here is a résumé of the Division's cooperative study of pollution aimed at its prevention and control.

60961 Spahr, C. E. Conserving our air and water. SOHIOAN 38(2):5, Apr. 1966. Photo.

Sohio has nearly \$6 million invested in air and water pollution control equipment. The whole petroleum industry has made major contributions to technology of air and water pollution control; e.g., the American Petroleum Institute has conducted research on water pollution since 1929. Sohio believes that cooperative efforts by government, industry and the public will bring continued progress in conserving air and water resources.

60962 Spears, R. W. A river dies. TEX. PARKS WILDL. 24(11):6-8, Nov. 1966. Photos.

No abstract.

60963 Walkenshaw, G. How grease is burned in Canton, Ohio. WAT. WASTES ENG. 3(9):71-73, Sept. 1966. Illus. Photos.

A technical description of how new equipment at the Water Pollution Control Plant at Canton, Ohio, is effectively handling an old disposal problem.

60964
The destruction of the Black Warrior River!
ALA. CONSERV.
36(2):4-7, Feb.-March 1966. Photos.

considered one of the most beautiful rivers in Alabama. Now its beauty has been replaced by an ugly by-product of progress, water pollution. This article makes an appeal for clean water, and for the State and Nation to become interested, informed and involved with water pollution abatement.

60965 An industrial assault on pollution. MOT. BOAT. 118(2):21, Aug. 1966.

The Dupont Company announces its plants on the Delaware River have begun a two-year pro-

gram to cut their discharge of acid waste in half. It is hoped that other industrial plants and waterfront enterprises will follow this example and voluntarily curb their pollution of rivers.

60966
MUCC seeks new water use tax.
MICH. OUT-OF-DOORS
17(1): 3, 4, Jan. 1966.

An effort is made to control the problem of water pollution, building pollution control through various tax methods and pollution grants.

60967
Romney: "save water wonderland".
MICH. OUT-CF-DOORS
17(4):5, Apr. 1966.

A ten-point program is requested by Governor Romney to control water pollution. Cooperation is requested from public as well as private interests.

60968
Trout waters in real danger.
MICH. OUT-OF-DOORS
17(4):3,9, Apr. 1966.

The pollution of the waters in the AuSable River in Michigan is caused by sewage and other forms of disposal. This is not an uncommon occurrence in other waters.

60969 Hamilton, H.R., and others.
Bibliography on socio-economic aspects of water resources.
Columbus, O., Battelle Memorial Institute 453p. 1966.

An annotated bibliography reviews the literature pertaining to most of the socio-economic or techno-economic aspects of water published between 1955-1965, with an occasional reference prior to 1955 because of its outstanding merit.

60970 Population Reference Bureau, Inc. Bibliography on population. POPULAT. BULL. Washington 19p. Aug. 1966. Reference supplement.

A bibliography which deals with general studies; regional studies; fertility and fertility control; mortality and health; migration; urbanism; food, land, resources and ecology; demographic and economic interrelationships; marriage, family, aging; Catholic views on population and fertility; U.N. and U.S. Govt. publications.

60971 Dainte, R. J.
Methods for determination of demand for outdoor recreation.
LAND ECON.
42(3):327-338, Aug. 1966. Ref.

The results of a survey of methods for determining demand for outdoor recreation are considered. Emphasis is placed on the methods which public agencies, economists, and planners can use. The limitations of the ORRRC studies for some categories of need are pointed out and other approaches—such as transportation planning, demand schedules, leisure time measurements, philosophical considerations—are presented. Capacity is considered a key link between demand and supply. Ecological, aesthetic, and economic factors, along with desired participation, provide capacity criteria.

60972 Devine, E. J.
The treatment of incommensurables in costbenefit analysis.
LAND ECON.
42(3):383-387, Aug. 1966. Tables.

The purpose of the paper is to clarify the applicability and the limitations of cost-benefit analysis, when some of the benefits or costs are not expressible in a common unit of measurement. For illustration, the author presents the problem of a government agency which has a fixed budget and is responsible for making investment decisions with respect to water reclamation and recreation. The benefits from recreation are incommensurable, i.e., they cannot be expressed in dollars. However, these benefits are not intangible, i.e., incapable of any quantitative measurement. They can be measured in user-hours. The possible combinations of budgetary constraints and commensurability of benefits and costs are presented. Nine are discussed.

60973 Ferriss, A. L.
Types of recreation surveys. In National
Conference on Recreation Research, 1965,
University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health,
Phys. Educ., Recreation
p. 160-176, 1966.

Recreation studies employ a variety of sampling procedures: area probability samples, quote or purposive samples, sampling from lists, sampling on-site visitors, observing recreation behavior, sampling in tourist surveys, and a combination of sampling methods:

60974 Hammond, R.J. Convention and limitation in benefit-cost analysis. NATUR. RESOUR. J. 6(2):195-222, Apr. 1966. Ref.

This essay discusses benefit-cost analysis as an administrative device; contradictory doctrines

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of benefit maximization; the debilitating assumption of perfect foresight; the indispensability of policy presuppositions; and the inherent limitations of benefit-cost procedures. He wishes to encourage skeptical tendencies in decision-makers faced with economico-analytical findings and defines applied economics as a matter of informed common sense.

60975 James, G.A.; Rich, J.L.
Estimating recreation use on a complex of developed sites.
Asheville, N.C., Southeastern Forest
Experiment Station.
8p. 1966. Ref., illus., photos, tables. (U.S.
Forest Service research note SE-64).

This paper presents the results of a test using traffic count records at key "indicator" locations to estimate use of several sites. This method reduces over-all sampling costs. Most estimates were within acceptable limits of accuracy. Sufficient details of methodology and analysis are given to enable readers to set up, calibrate and evaluate the method in their own areas.

60976 Johnson, H.A.
Research needs in outdoor recreation.
A Paper Presented in Raleigh, N.C. at
The Annual Southeastern Park and
Recreation Training Institute.
n.p.,n.p. 1966.

The nature of outdoor recreation is considered by Hugh A. Johnson, U.S.D.A. Economic Research Service. Recreation is not the outdoors but our reaction to the outdoors. We need to ask the whys of outdoor recreation. Demand for recreation opportunities in the out-of-doors has increased. Insufficient supply is said to be attributable to six situations: 1) inability to accurately identify recreation needs; 2) inability to forecast recreation trends; 3) inability to secure adequate financing—public and private; 4) lack of knowledge of the significance of recreation; 5) inability to articulate the need for recreation; 6) lack of administrative, policy making, managerial, and leadership competencies in recreation. To measure the "real" demand as contrasted to the expressed demand is one of the problems. We need to develop better methods to determine how recreation users measure quality, how they adapt their recreation demands to available resources, the conflicts in recreation uses, the economics of choice, and many other aspects not usually brought out in user surveys or enterprise analysis.

60977 Kalter, R. J. A model to estimate the economic effects of water-based recreation projects on local political subdivisions. Madison, University of Wisconsin 207p. 1966. Ref., tables.

The objectives of this study were to provide a method by which the economic effects (sales,

income and employment) of recreation on the economies of local political subdivisions can be determined and to empirically test and show the usefulness of such a model. On the theoretical level, the method that was modified and used is a modification of the input-output model known as from-to analysis. Another important result of the study was to test the adequacy, cost and feasibility of new sources of local data. Major data sources included individual firm sales and income tax records, employment compensation records, a mail and telephone survey, and several subsidiary studies done by State agencies. The model was empirically tested at the county level. Sales, employment and income multipliers were calculated and used to show how the model, in conjunction with subsidiary studies, can be used to analyze public resource investment decisions. Findings showed that although almost 10% of the county's income was derived directly from recreational exports, the direct-indirect income multiplier was only 1.09 for recreation final demand. When the induced effect was added, the income multiplier rose to 1.52. Multiplier values for other factors were of similar magnitude. These values indicate the small secondary effect of money spent on final demand items due to the relatively weak backward linkages of the local economy.

60978 Knetsch, J. L. Problems of appraised recreation demand. In Western Agricultural Economics Research Council. Committee on the Economics of Water Resources Development. Water resources and development of the West. Pullman, Wash., Wash. State Univ. p. 42-52, 1966. (Report no. 13).

Various arguments on the measurement of economic value of recreational experience are discussed. Economic values are measured basically by what people are willing to give up. The relevant economic measure of recreation values is the willingness to pay on the part of consumers for outdoor recreation services. This set of values is the same as the economic values which are established for other commodities. Value characteristics of the recreation experience are not easily defined. Demand models for individual areas and models for aggregate demand both useful tools for measuring recreational needs, are described in their applications.

60979 Larner, C.
Tell it to the machines!
TRAVEL TRADE
74(44):60,64, Nov. 1,1966, Sect. 1.

Automation has been successfully applied to the economy tourist market. It is efficient, speedy, and economical. Its use is expected to become more widespread in the near future. 60980 Maddock, S. J.; Gehrken, G.A.; Guthrie, W. A.
Outdoor recreation preferences of rural residents.
VA. WILDL.
27(3):20, Mar. 1966. Table.

Study shows hunting and fishing lead in popularity. Random sample survey was made with eight outdoor activities in survey.

60981 Seckler, D.W.
On the uses and abuses of economic science in evaluating public outdoor recreation.
LAND ECON.
42(4):485-494, Nov. 1966. Ref., illus.

Some of the theoretical techniques which are used in connection with statistical demand curves to evaluate recreation benefits are reviewed. The determination of these curves is a matter of debate. The author believes that the rate of purchase of any commodity at any time by an individual is ultimately determined by two factors: (1) the marginal utility of that commodity to that individual; and (2) the marginal utility of the income to be sacrificed in exchange for that commodity. Unless one knows the value of at least one of these determinants, nothing can be inferred about utility from observation of transactions.

60982 Shafer, E.L., Jr.
Effects of sampling location, period, and method on camper survey results. Doctoral dissertation
Syracuse, State University College of Forestry
245p. 1966. Illus., tables.

Present-day inadequacies of outdoor recreation research experiments stem from a limited knowledge of population parameters, measurement procedures, and control or stratification of significant external factors. This study determined, first, through the use of personal interviews, the effect of sampling locations and sampling periods on camper recreation-survey results; and, second, the accuracy of self-enumerative survey techniques in relation to personal interview results. Abundant principles, hypotheses, and questions concerning recreation mensuration resulted. Future research designs should stratify sampling frames on the basis of acres of water available, campsite proximity to lakeshore environment, landscape heterogeneity, tourist attraction density, campground accessibility, and summer months. Delayed mail surveys with follow-up for nonrespondents are recommended when using the types of questions employed in this study.

60983 Stevens, M. E. Soil surveys as applied to recreation site planning.
J. FOREST.
64(5):314-316, May 1966. Ref., tables.

This report explains the use of soil surveys in recreation site planning, and lists interpre-

tations that can be made from these surveys.

A series of diagrams are used to show a campground layout before and after soil survey data
were available. Answers needed from research
to assist the manager to plan, design, develop,
and maintain recreation areas are suggested.

60984 Story, G. E.; Love, L. D. A proposed method for determining the extent of enlargement of natural parks.
Flagstaff, Northern Arizona University School of Forestry.
7p. 1966. Refs., illus. (Arizona Forestry Notes, no. 1).

This article provides very useful techniques both practical for expanding recreation areas and technically sound applications of a statistical tool.

60985 Taylor, G. D.; Clark, W. T. Proposed methodology for an inventory and classification of land for recreational use. FOR. CHRON. 42(2):153-159, June 1966.

Proposes a four-stage approach to inventory and classification: (1) preliminary analysis of all lands, (2) preliminary analysis of best areas, (3) detailed site analysis, (4) generalized use classes. Outlines a methodology for each stage.

60986 Thompson, M.
Demonstration projects and action research. In
National Conference on Recreation Research,
1965, University Park, Pa. Recreation research.
Washington, Amer. Ass. for Health,
Phys. Educ., Recreation
p. 206-211, 1966.

The need for recording, analyzing and documenting recreation programs is emphasized.

The way objectives and results or pilot projects can help in this evaluation process is discussed.

60987 Wagar, J. A.
Quality in outdoor recreation.
TRENDS PARKS RECREAT.
3(3):9-12, July 1966. Ref., illus., photos.

Quality in the recreational experience is based on subjective criteria and depends on the satisfaction of needs mostly learned and extremely varied. By using a few categories of needs we may predict what people are likely to want in a given recreation area. In planning the recreation complex needs, recreation opportunities of the surrounding region should be studied. Zoning, managing and interpreting attractions will provide varied benefits in the recreational experience.

60988 Wennergren, E. B.
Recreational resource values: some empirical estimates. Western Agricultural Economics
Research Council. Committee on the Economics of Water Resources Development. Water resources and development of the West.
Pullman, Wash. State Univ.
p. 13-31, 1966. (Report no. 13).

An analytical model is tested on pleasure boating and is used for estimating. One recreational value of a water resource site plus on the site expenditures are used as value indicators. These costs are defined as the marginal costs of boating and are the costs determinants of how many trips are taken per season. An individual demand schedule exists for each alternative boating site available. The schedule defines the number of trips to a site at alternative "prices". The price variable is the travel and on-site expenditures while the quantity variable is the number of trips. A boater will take that number of trips to each site sufficient to equate the travel and on-site costs (which are the marginal costs) with the value of the utility he receives as expressed by his individual demand schedule for each representative site. Empirical observations of individual activity are assumed to represent these points of equilibria on the individual's demand schedules. The procedure for deriving the demand estimate is the concentric circle approach of Clawson and Hotelling. Average travel and on-site expenditures plus the related number of trips per boat are derived for distance zones related to a site. These represent the aggregation of individuals within each zone. The valuation of the boating resource in terms of surplus values for the site is derived. Two boating sites are analyzed. Empirical estimates and demand elasticity are theorized. The impact level of demand and the estimate of marginal value are discussed. The surplus model offers concepts useful in recreational resource valuation, provides an estimate of resource value in addition to use cost, and permits a statement of net value which approximates the net contribution of the resource. The concept provides a means of overcoming a logical inconsistency encountered in deriving marginal resource values where use cost or expenditure pricing is involved.

60989 Wolfe, R. I.
Parameters of recreational travel in Ontario: A
progress report.
OTTAWA, ONT. DEPARTMENT OF HIGHWAYS
37p. 1966. (Dept. of Highways Report No. RB1-11.)

Because of the problems created by recreational travel on the rural highways in Ontario, new analytic tools have had to be developed. Parameters of recreational travel in Ontario have been tentatively established. Of these the exponent of distance in the gravity model is most important.

60990
Capital currents. News of parks from State and Federal agencies. North Dakota.
PARK MAINTEN.
19(6):6, June 1966.

A 25% return of survey questionnaires has been received following the mailing to 6, 400 North Dakotans. The survey asked about outdoor recreation requests and will be used as a guide for future State action.

60991 Land-use feedback via satellite. LANDSC. ARCHITECT. 57(1):31, Oct. 1966.

Describes the potential use of sensitive sensors in orbiting satellites to provide information on traffic patterns, human densities on every beach, boat densities on lakes and rivers, and the number of picnickers in every park in the land.

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<u>A</u>

AAAS Bulletin. Washington, D. C. American Association for the Advancement of Science

*Adirondac. Gabriels, N. Y., Adirondack Mountain Club, Inc.

*Alabama Conservation. Montgomery, Alabama
Department of Conservation

Alaska Fisherman. Naknek, Alaska Fisherman *Alaska Sportsman. Juneau, Alaska Northwest Publishing Co.

Amateur Athlete. Lynn, Mass., Amateur Athlete Union

Amateur Bicycle League of America. Journal.

Dearborn, Mich., Amateur Bicycle League of America

Amateur Hockey Association of the U.S.

Bulletin. Absecon, N.J., Amateur Hockey
Association of the United States

American Alpine Journal. N. Y., American Alpine Club

*American City. N. Y., Buttenheim Publishing Corp.

*American Cycling, Oakland, Calif., American Cycling Press

American Economic Review. Evanston, Ill.,
Northwestern University

*American Forests. Washington, D. C. American Forestry Association

American Highways. Washington, D.C., American Association of State Highway Officials

*American Horticultural Magazine. Washington, D. C., American Horticultural Society

American Institute of Planners. Journal. Balti-

more, Md., American Institute of Planners
*American Journal of Economics and Sociology.

*American Journal of Economics and Sociology.
N. Y., American Journal of Economics and Sociology, Inc.

American Journal of Sociology. Chicago, Ill.,

University of Chicago Press

American Lawn Bowling Association. Bowls.

Los Angeles, American Lawn Bowling
Association

American Midland Naturalist. Notre Dame, Ind., University of Notre Dame Press

*American Motorcycling. Westerville, Ohio, West Camp Press, Inc.

*American Motorist. Gettysburg, Pa., American Automobile Association

American Naturalist. Temple, Arizona State University

American Pigeon Journal. Warrenton, Mo., Frank H. Hollman

*American Racing Pigeon News. Morristown, Pa., Thelma H. Snyder

*Indicates journals indexed in this issue. Underscoring indicates abbreviations. A

*American Rifleman. Washington, D. C.,
National Rifle Association of America
American Scene. Tulsa, Okla., Gilcrease
Institute of American History and Art
American Scientist. Society of Sigma XI
American Sociological Review. Washington,
D. C., American Sociological Association

*American Water Works Association. Journal.

Lancaster, Pa., American Water Works
Association, Inc.

*American White Water, Berkeley, Calif., American Whitewater Affiliation

*Amusement Business. Cincinnati, Billboard
Publishing Co.

Annals and Magazine of Natural History. London, England, Taylor and Francis, Ltd.

*Annals of the Association of American Geographers. Washington, D. C., Association of American Geographers

*Appalachia Bulletin. Boston, Mass., Appalachian Mountain Club

Appalachia. Boone, Appalachian State Teachers College

*Appalachian Trailway News, Washington, D. C., Appalachian Trail Conference, Inc.

*Appaloosa News. Moscow, Idaho, Appaloosa Horse Club, Inc.

Aqua. London, England, International Water Supply Association

Aquarist and Pondkeeper. Brentford, Middlesex, Buckley Press, Ltd.

Aquarium. Easton, Pa., Petbooks, Inc.

*Arborists News. Wooster, O., International
Shade Tree Conference

*Archery Palm Springs, Calif., National Field
Archery Association

Arizona and the West. Tucson, University of Arizona

*Arizona Highways. Phoenix, Arizona Highways
Dept.

*Arizona Review. Tucson, University of Arizona *Arizona Wildlife Sportsman. Phoenix, Lincoln Publishing Co.

*Athletic Journal. Evanston, Ill., Athletic Journal Publishing Co.

*Atlantic Naturalist. Washington, D. C., Audubon Society

*Audubon. N. Y., National Audubon Society

Auk. Baton Rouge, La., American Ornithologists
Union

В

*Badger Sportsman. Chilton, Wis., Times-Journal Co.

Balance Wheel, Jefferson City, Mo., American Association for Conservation Information

*Better Camping. Milwaukee, Wis., Kalmbach
Publishing Co.

*Better Roads. Chicago, Ill., Better Roads
*Bioscience, Washington, D. C. American Institute of Biological Science

Bird-Banding. S. Londonderry, Vt., Northeastern Bird Banding Association Blaze. Cincinnati. O. The Trailsmen

Blaze. Cincinnati, O., The Trailsmen
Boating. Chicago, Ziff Davis Publishing Co.
Boats and Boat Equipment. Surrey, England,
Manor House Magazines, Ltd.

*Boy's Life. New Brunswick, N. J., Boy Scouts of America

<u>C</u>

California Fish and Game. Terminal Island,
Department of Fish and Game, California
State Fisheries Laboratory

California, Magazine of Commerce, Agriculture and Industry. San Francisco, California State Chamber of Commerce

Camp Directors Bulletin. N. Y., Camp Brokerage Co.

Camp Directors Digest. Santa Ana, Calif.,

Warren and Rogers

Camp Life Magazine. N. Hollywood, Calif.,

Western Conference and Camp Association

*Camping and Outdoor Life. London, Camping Club of Great Britain and Ireland

*Camping Guide. N. Y., Rajo Publications, Inc. Camping Journal. N. Y., New York, Science and Mechanics Publishing Co.

*Canadian Audubon. Toronto, Canadian Audubon Society

Canadian Field Naturalist. Ottawa, Ottawa Field-Naturalist's Club

Caribbean Journal of Science. Mayaguez, Puerto Rico, Institute of Caribbean Studies

Cave Notes. Castro Valley, Calif., Cave Research Associates

Cave Science. Settle, Yorks, Eng., British
Speleological Association

Chesapeake Science. Solomons, Md., Natural Resources Institute

Colorado Magazine. Denver, Colo., State Historical Society

*Colorado Outdoors. Denver, Colo., Department of Game, Fish and Parks.

Community Development Review. Washington,
D. C., Department of State

Connecticut Wildlife Conservation Bulletin.
Hartford, Conn., State Board of Fisheries and Game

Conservation Education Association. Proceedings. New Berlin, Wis., Conservation Education Association

Conservation for <u>Today</u>. Santa Rosa, Calif., Redwood Region Conservation Council

*Conservation News. Washington, D. C. National Wildlife Federation

Conservation Report. Washington, D. C., National Wildlife Federation

*Conservation Catalyst. New York, Belle W.

Baruch Foundation

*Conservation Volunteer. St. Paul, Minnesota
Conservation Department

Conservationist. N.Y., New York State Conservation Dept.

Country Beautiful. Elm Grove, Wis., Country Beautiful Foundation, Inc.

County Officer. Washington, D. C., National Association of Counties

Craft Horizons. N. Y., American Craftsmen's
Council

D

Defenders of Wildlife Quarterly Bulletin.

Wash. D. C., Defenders of Wildlife

Delaware Basin Bulletin. Philadelphia, Pa.

Delaware Basin Bulletin. Philadelphia, Pa.,
Water Resources Association of the Delaware
River Basin

<u>Delaware Conservationist</u>, Dover, Del. Board of Game and Fish Commissioners

*Desert. Palm Desert, Calif., Desert Magazine
Dissertation Abstracts. Ann Arbor, Mich.,
University Microfilms

*<u>Down East</u>. Camden, Maine, Down East Magazine

*<u>Dude Rancher</u>. Billings, Mont., Dude Rancher's Association

E

Ecological Society of America. Bulletin. New Brunswick, N. J., Rutgers University Press

Ecology. Durham, N. C., Duke University

Press

Economic Geography. Worcester, Mass., Clark University

Economist. London, England, Economist Newspaper, Limited

Editor and Publisher. N.Y., Editor and Publisher Co., Inc.

Environmental Health Letter, Washington, G. Fishbein

Explorer. Cleveland, O., Natural Science
Museum

Explorers Journal. N. Y., Explorers Club

*Extension Service Review. Washington, D. C.,

Government Printing Office

F

Family Camping Leader. Martinsville, Ind.,
Family Camping Federation, American Camping Association

Farm and Home Science. Logan, Utah State University

*Field and Stream. N. Y., Holt, Rinehart and Winston, Inc.

*Fish and Game. Calgary, Alberta, Wildlife
Publisher

Fisherman. Vancouver, B. C., Fisherman Publishing Society

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*Florida Wildlife. Tallahassee, Fla., Game and Fresh Water Fish Commission

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*Ford Times. Dearborn, Mich., Ford Motor Co. *Forest Farmer. Atlanta, Ga., Forest Farmers Association

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*Frontiers. Philadelphia, Pa., Academy of Natural Sciences of Philadelphia

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*Gardener. Rockford, Ill., Men's Garden Clubs of America

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*Georgia Game and Fish. Atlanta, Georgia Game and Fish Commission

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*Holiday. Philadelphia, Pa., Curtis Publishing

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*Howdy's Happenings. Seattle, Wash., Good Outdoor Manners Association

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*Izaak Walton Magazine. Glenview, Ill., Izaak Walton League of America

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*JOHPER, Washington, D. C., American Association for Health, Physical Education and Recreation

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*Journal of Soil and Water Conservation. Ankeny, Iowa, Soil Conservation Society of America, Inc.

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*<u>Leisure.</u> Edmonton, Alberta Government Publicity Bureau

*Living Wilderness. Washington, D. C., Wilderness Society

*Louisiana Conservationist. New Orleans, Louisiana Wildlife and Fisheries Commission Maine Field Naturalist. Portland, Me., Portland Society of Natural History and Maine Audubon Society

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*Narrangansett Naturalist. Providence, Audubon Society of Rhode Island

Nation's Cities. Washington, D. C., National League of Cities

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*National Fisherman. Belfast, Me., Journal Publishing Co.

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*National Parks Magazine, Washington, D. C.,

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ton, Va., National Speleological Society
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*Natural Resources Journal. Albuquerque,

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*Nature Conservancy News. Washington, D. C.,

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*Nebraskaland. Lincoln, Nebraska Game, Forestation and Parks Commission *Nevada Highways and Parks. Carson City,
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*New Hampshire Audubon Quarterly. Concord, Audubon Society of New Hampshire

*New Jersey Outdoors. Trenton, State of New Jersey Division of Fish and Game

*New Mexico Magazine. Santa Fe, Publishing Division, Department of Development

*New Mexico Wildlife. Santa Fe, Information and Education Section of the New Mexico Department of Game and Fish

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*Recreation Management. Chicago, Ill.,

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*Research Charterly. Washington, D. C.,
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*Sports Illustrated. Chicago, Ill., Time Inc.
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*Trap and Field. Indianapolis, Review Publishing Co., Inc.

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APPENDIX II

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- Audubon Leader's Conservation Guide. New York, National Audubon Society.
- Canadian Alpine Journal. Winnipeg, Manitoba Farm Policy Forum. Ames, Iowa State College Press.
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- Panorama. Kilburn, S. Australia, F. P. Stone. Public Power. Washington, D. C., American Public Power Association.
- State Government News. Chicago, Ill., Council of State Governments.
- Washington Newsletter. Washington, D. C., Izaak Walton League.
- Western Mobile Home News. Long Beach, Calif., Robert C. Terhune.
- Western Water News. San Francisco, Calif., Irrigation Districts Assoc. of Calif.
- Wilderness Society Newsletter. Washington, D. C., Wilderness Society.

APPENDIX III

SERIALS

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Alaska. Dept. of Fish and Game. Research Reports.

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Maine. Department of Inland Fisheries and Game. Fishery Research. Bulletins.

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Michigan. Game Division. Reports.

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Montana. Fish and Game Commission. Reports.

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Nevada. Fish and Game Commission. Annual Reports.

New Hampshire. Fish and Game Dept. Survey Reports.

New Jersey. Division of Fish and Game. Annual Reports.

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