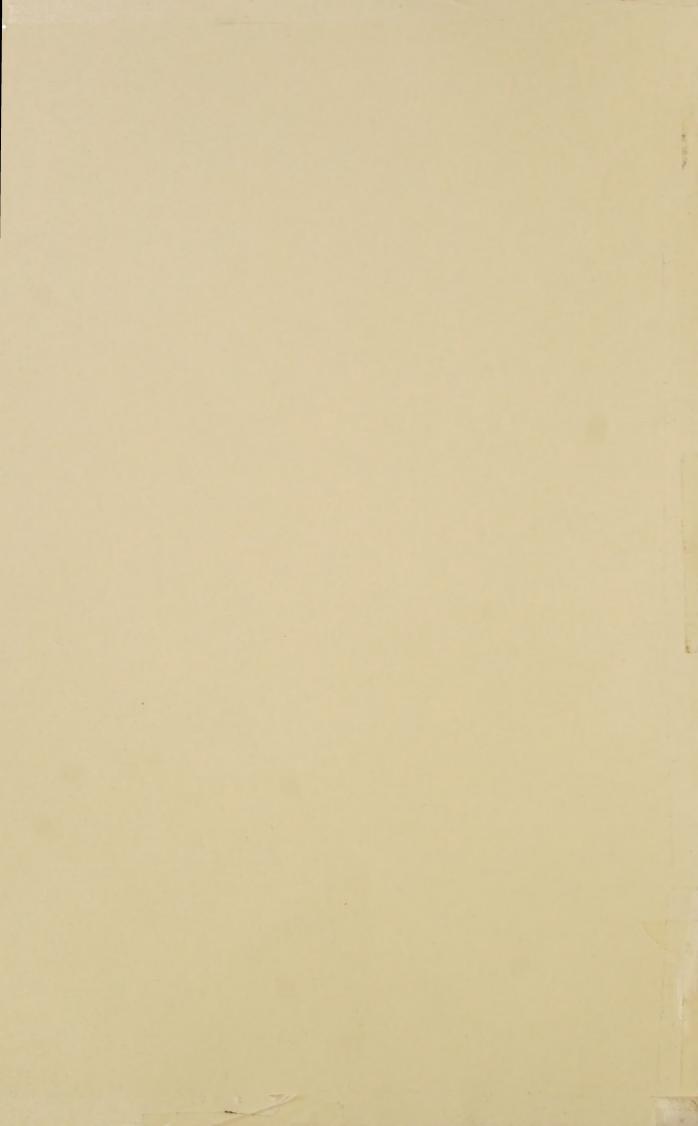
### **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



# Grand Mesa National Forest COLORADO

F769G



U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

MF 11 R-2

## Where It Is · How To Get There

THE GRAND MESA National Forest is located in westcentral Colorado, and is named for Grand Mesa, a high plateau, which is its most striking topographic feature. Most of the forest lies between the Colorado and Gunnison Rivers and their tributaries, and is characterized by high mesas and beautiful mountain lakes. It contains 679,804 acres, of which 26,639 are privately owned.

The Battlement Mesa Forest Reserve, as the forest was originally known, was established by President Benjamin Harrison by proclamation on December 24, 1892. President Calvin Coolidge gave the forest its present name on March 11, 1924.

Visitors to the Grand Mesa National Forest, from the east, have a choice of two highways, U S 50 and U S 24, which unite at Grand Junction, and continue westward as U S 50. The Denver and Rio Grande Western Railroad follows nearly the same routes, but automobile travel is necessary to reach the forest.

Several roads enter the forest. State Highway 65 branches off U S 24 seven miles east of Palisade and reaches the forest by way of the town of Mesa. Continuing up the north side of Grand Mesa, the traveler has wonderful views of the surrounding country. Winding between beautiful lakes, through alpine meadows, and dense groves of spruce and fir, the road crosses Grand Mesa, and descends by way of Cedaredge to a junction with U S 50 at Delta. This. highway, known locally as the Skyway Drive, is safe to drive at all times, except when closed by snow.

Another approach to Grand Mesa is by way of the Lands End Highway, a Forest Service road which extends from U S 50 at Whitewater to State 65 on the Mesa, and is one of the noted scenic roads of the State. This road winds up the west side of Grand Mesa to Lands End, the westernmost extension of the Mesa, where spectacular views extend

to the plateau and cliff country of northwestern Colorado and eastern Utah, the La Sal and Blue Mountains of Utah, the Uncompangre and Wilson Mountain groups, and the Lone Cone in western Colorado. The artistic stone house on Lands End provides shelter for those who wish to linger and enjoy the scenic wonders. Here, also, the tourist may get information, maps, and refreshments before continuing along the Mesa.

A third route to Grand Mesa is by way of the town of Collbran. This is an attractive drive, but should be made in dry weather only. State Highways 92 and 135 follow the Gunnison and North Fork Valleys eastward from Delta. At the junction of Muddy and Anthracite Creeks, the Muddy-Buzzard Road branches from State 135 and crosses the forest to the Buzzard Creek Valley. From that point one branch extends along the Plateau Valley to Collbran, and another crosses the Buzzard-Mamm divide of the forest to junctions with US 24 at Rifle, Silt, and New Castle. During favorable weather this is a drive of exceptional beauty, through vast slopes of aspen, open parks, and natural wild flower gardens.

# Ask the Forest Officers

The Grand Mesa National Forest is administered by a forest supervisor with headquarters in the Federal Building at Grand Junction. He is assisted by an office staff and four forest rangers, each in charge of a ranger district.

These employees of the Forest Service are almost all the These employees of the Forest Service are always glad to give information concerning roads, camp or picnic grounds, the better places to fish or hunt, how the forests are administered and especially how to cooperate in the are administered, and especially how to cooperate in the protection of the forests. Contact the forest personnel, cooperate with them, and they will assist in making your vacation more satisfying and enjoyable.

Forest Supervisor, U. S. Forest Service, Grand Junction,

Forest Ranger, Muddy District, Paonia, Colo. Forest Ranger, Lakes District, Cedaredge, Colo. Forest Ranger, Mesa District, Mesa, Colo. Forest Ranger, Collbran District, Collbran, Colo. If you find a forest fire, put it out if you can. If you

cannot put it out, report it to the forest supervisor, the ranger, the sheriff, or the nearest telephone operator. Location of the headquarters of the supervisor and the rangers is indicated on the map.

An Ideal **Vacation** Land —A Valuable Resource

### Our Other National Forests

The Rocky Mountain National Forest Region, in which the Grand Mesa Forest is located, has headquarters in Denver. Twenty-one forests are included in this group, 14 of them in Colorado, 4 in Wyoming, 2 in South Dakota, and 1 in Nebraska.

The national forests in Colorado are:

San Isabel Montezuma San Juan Arapaho Uncompangre Cochetopa Rio Grande White River Grand Mesa Roosevelt Gunnison Holy Cross

A small portion of the La Sal Forest, most of which is in Utah in the Intermountain Region, extends into Colorado. Including this small tract, the total net area of national forest land in the State is 13,629,532 acres, or a little more than

one-fifth of its total land area. There are 161 national forests within the United States, distributed through 40 States and the Territories of Alaska and Puerto Rico. They contain approximately 175,000,000 acres of public land, and are administered by the Forest Service, U S.

For economical and effective administration the Department of Agriculture. national forests are grouped in 10 regions, each

with a regional forester in charge. The main purposes of the national forests are the growing of wood crops and the conservation of water. To grow succeeding crops of timber is highly important in the economic development of the Nation, and to preserve a forest and vegetative cover on the watersheds of our public lands is necessary as a preventive measure against erosion. Therefore, to protect, use, and perpetuate the timber and all other natural resources of the national forests for the benefit of all citizens has been the keynote of their administration by the Forest Service

Wildlife Is An Important National Forest Resource

## · A Forest of Many Uses ·

THE NATURAL RESOURCES of the Grand Mesa National Forest are bountiful and alluring. The forest provides water, wood, and range for the use of the people who live in the adjacent river valleys, and during the long, hot summer it is a cool and restful haven, easily accessible. The many natural or improved reservoirs of its mesa land hold enormous stores of water for irrigation and domestic use in the surrounding valleys. and its spruce-fir forests aid in conserving this water supply.

Grand Mesa, the unusual plateau which gave the forest its name, lies 15 to 40 miles southeast of Grand Junction, the forest headquarters. It has an area of 34,200 acres and an average elevation of 10,300 feet or 5,000 feet above the surrounding valleys. With its many resources and attractions it is an area of high economic value and an ideal vacation land. The geological formation of Grand Mesa is interesting. The oldest rocks in the exposed field are hard and, because of their resistance to erosion, form the lower canyon walls. Above these hard strata is the soft Mancos shale, overlain in turn by hard sandstone. These are overlain by the easily eroded Green River formation, and these by the sheet of hard basalt that caps the Mesa and forms its rim of cliffs. Over the whole tract Nature has thrown her green mantle of forest, chaparral, and grass, making it a high tableland of beauty and charm.

Battlement Mesa, for which the present forest was first named, is smaller but comparatively as prolific in resources as the more widely known Grand Mesa. It forms the northern division of the forest and adds materially to its economic importance. The two plateaus are separated by the broad Plateau Creek Valley, whose residents, as well as those of the Grand and Gunnison River Valleys to the north, west, and south, depend largely on the water, timber, and forage of the mesas.

The remainder of the forest, extending eastward from the mesas along the Buzzard Creek-North Fork divide to the Ragged Mountains, is an area of intermingled grasslands and forests. Some of the better grazing range of the State is in this section.

Approximately 475 permits for the use of Government land have been issued on the forest Such privileges are granted only where private or semipublic use does not conflict with public needs or interests. In many cases the use is advantageous to the Government while serving a local economic need. In addition to the special uses, 219 easements for reservoirs have been granted.

Revenue derived from these permits is combined with receipts from sales of timber, grazing, and miscellaneous purposes. Annually 25 percent of the total is returned to counties for support of schools and roads. Mesa, Delta, Garfield, and Gunnison Counties share proportionately in the fund according to the acreage of forest land in each county. Mesa County, with an area of 359,778 acres in the forest, received \$5,464.99 in 1938.

TIMBER AND WATERSHED VALUES .- There are approximately 650,000,000 feet, board measure, of timber on the Grand Mesa National Forest; including only trees of sawtimber size. Engelmann spruce and alpine fir are the principal commercial species and constitute 28 and 41 percent, respectively, of the total stand. Aspen forms 26 percent of the stand and is used extensively for farm improvements. Blue spruce, Douglas fir, and ponderosa pine make up the remaining timber.

The annual cut of timber during the 5-year period 1934-38

averaged 1.147,500 feet.

The most important resource of the forest is the water supply which originates within its boundaries. There are 225 reservoirs with a total surface area of 6,305 acres, the largest number of reservoirs and the greatest water surface in any area of similar size in the State. Forty thousand acres of farm lands in the surrounding valleys depend on the life-giving streams from the springs, lakes, and reservoirs within the forest boundaries. Rifle, DeBeque, Collbran, Palisade, Grand Junction, Fruita, Delta, Cedaredge, and Hotchkiss obtain water from the forest. Some of these cities and towns have funds invested in reservoirs and pipe lines and are financially and economically, interested in preserving the forest cover and conserving the water.

(Continued on next fold)

One of the many beautiful lakes on Grand Mesa.



### Camps and Picnic Grounds

The Grand Mesa National Forest has many recreational advantages. Motorists looking for good places to picnic or camp will find them readily. Hikers or horseback riders seeking more primitive conditions will soon discover the place which they desire. Grand Mesa offers students of geology, biology, or botany unlimited opportunities for study in a comparatively limited range.

Twenty-two areas for picnicking and camping have been developed at convenient places within the forest, where simple, rustic facilities for the comfort of the forest visitor have been installed. All campers or picnickers are urged to use these areas wherever possible. There is no charge for the use of the grounds or facilities, but all users

are expected to help keep them sanitary and usable. The campgrounds (also shown on the map) are listed here for convenience.

Lands End, Steamboat Rock, and Wild Rose picnic grounds are on the Lands End Road on the west end of Grand Mesa.

Glacier Spring picnic ground and Jumbo camp-ground are on the Cedaredge-Mesa Road near Mesa Lakes under the north rim of Grand Mesa. Carp Lake, Skyway, Little Gem, Masonic, Piedra, Ward Lake, Eggleston Lakes Nos. 1 and 2, and Kiser picnic grounds are on the same highway on the south end of Grand Mesa.

Cottonwood and Granby picnic grounds are in the same general vicinity, but are off the highway several miles and can be reached only by trail.

Bonham and Trickle Park picnic grounds are on the Collbran Road on the east side of Grand Mesa. Leon Lake and Weir and Johnson campgrounds are accessible by trail from the end of a spur road near Trickle Park. Dyke Creek and Buzzard picnic grounds are on the Buzzard Creek Road on the east side of the forest.

Accommodations, such as meals, lodging, and housekeeping cabins, may be obtained at reasonable rates within the forest, also boats for fishing. Guides with saddle horses, especially at Mesa Lakes or near the Alexander Lakes group will pilot

> Enjoy Your Vacation . . but Leave a Clean Camp

### Timber · Water · Forage · Wildlife · Recreation

REGULATED USE OF RANGE.—Livestock raising is one of the principal adustries of the country surrounding the forest. Approximately 34,000 and of cartle and 31,000 head of sheep use the summer ranges on the raise of the surrounding the summer ranges on the raise. Although they must have enough ranch troperty to take care of their livestock when it is not on the national corest, owners of livestock are very dependent upon this summer range and under the summer range of the summer range of the summer range.



- (1) The shelter house at Lands End. F-377967
- (2) Island Lake from Lake View Point. F-355360
- (3) Forest cover on West Muddy Creek in the Grand Mesa National Forest, photographed in 1898.
- (4) Scene from the same point as in No. 3 showing advance in forest cover as a result of protection, photographed in 1937. P-350022
- (5) "The limit" from Mesa Lakes. F-185112
- (6) Sheep grazing on national forest range. F-284278
- (7) Grazing land under the Ragged Mountains. F-358200
- (8) Ward Lake Ranger Station on the Grand Mesa National Forest.
- (9) Lumber for local use from Grand Mesa. F-355378

Yours to Enjoy and to Help Protect

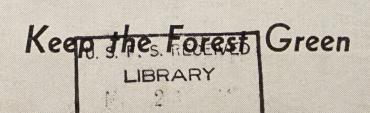
## Break Your Match in Two

### Rules For Fire Prevention

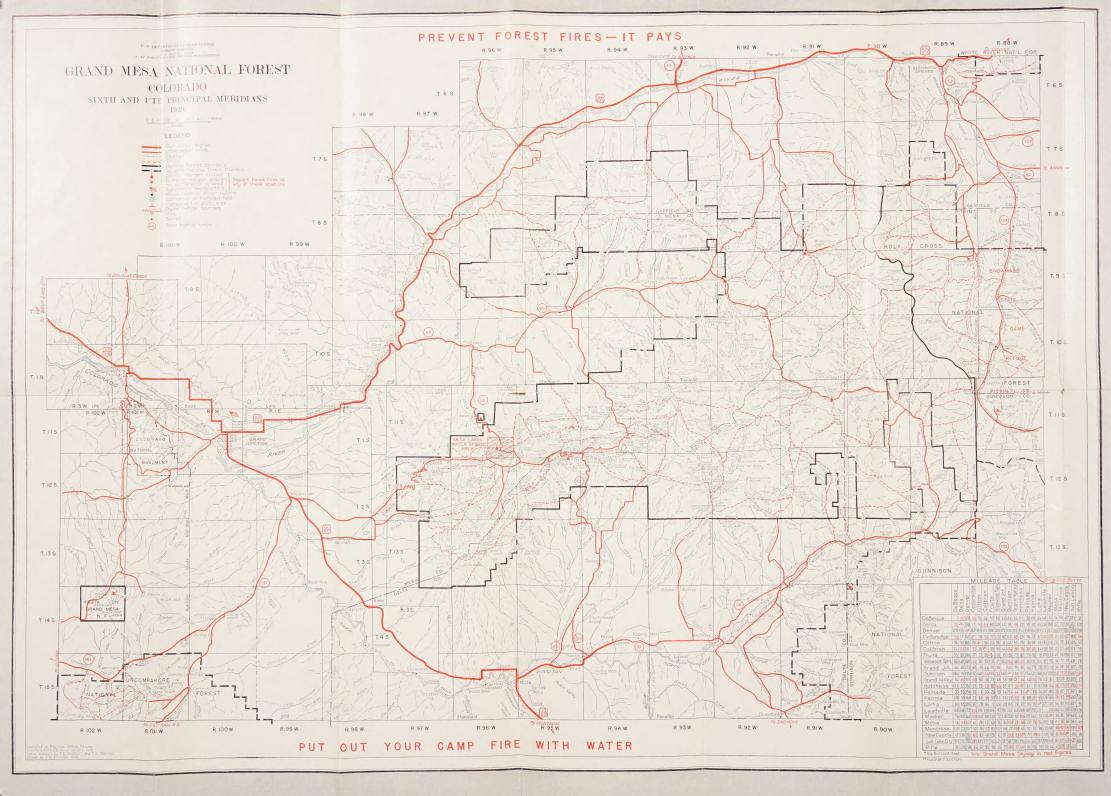
- 1. MATCHES.—Be sure your match is out. Break it in two before you throw it away.
- 2. TOBACCO.—Be sure that pipe ashes and cigar or cigarette stubs are dead before throwing them away. Never throw them into brush, leaves, or needles. Don't smoke while traveling through the
  - 3. MAKING CAMP.—Before building a fire, scrape away all inflammable material from a spot 5 feet in diameter. Dig a hole in the center and in it build your campfire. Keep your fire small. Never build it against trees or logs, or near brush.
    - 4. BREAKING CAMP.—Never break camp until your fire is out—dead out.
    - 5. BONFIRES.—Never build bonfires in windy weather or where there is the slightest danger of their escaping from control. Don't make them larger than you need.
      - 6. HOW TO PUT OUT A CAMPFIRE.—Stir the coals while soaking them with water. Turn small sticks and drench both sides. Wet the ground around the fire. Be sure the last spark is dead.

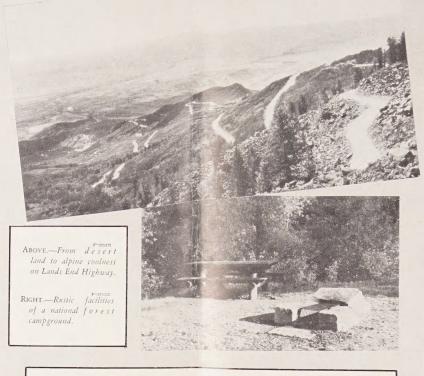
### Rules For Health Protection

- PURIFICATION.—Mountain streams will not purify themselves in a few hundred feet. Boil or chlorinate all suspected water.
  - 2. GARBAGE.—Burn and bury all garbage, papers, tin cans, and old clothes.
  - 3. WASHINGS.—Do not wash soiled clothing, utensils, or bodies in streams, lakes or springs. Use a container and throw dirty water on the ground away from the water supply.
    - 4. TOILETS.—Use public toilets where available. They are properly located. Where toilets are not available bury a foot deep all human excrement, at least 200 feet from streams, lakes, or springs.
      - 5. OBEYING LAWS.—Observe rules and endeavor to have others do the same. Report all violations or insanitary conditions (including dead animals) to the nearest health or forest officer.









#### Trees and Shrubs of the Grand Mesa Forest

CONIFERS

PINES.—Three species. The pines have their needles gathered together at the base in bundles of from two to five. The cones are woody and pendant.

LIMBER PINE (Pinus flexilis).—The darkgreen needles are stout, rigid, 11/2 to 3 inches long, in bundles of five. Cones are 3 to 10 inches long, with seeds one-third inch long, cone scales smooth. Bark is light gray or silvery white, except on old trunks, order are blackish brown and furrowed. Pines of this species are scarce on Grand Mesa.

PONDEROSA PINE (Pinus ponderosa).—Needles 4 to 7 inches long, deep yellow green, usually three in a bundle, but sometimes two, and in tufts at the ends of the branches. The cones are 3 to 6 inches long, cone scales armed with spines. When young, the bark is dark and the tree is often called "black jack" or "bull" pine. When older, the bark is yellowish and occurs in thick scales.

Piñon or Piñon Pine (Pinus edulis).—Piñon is confined to the facility.

older, the bark is yellowish and occurs in thick scales.

Piñon or Piñon Pine (Pinns edulis).—
Piñon is confined to the foothills. It has needles 3½ to 1½ inches long, in clusters of two, and rarely of three. Cones 1½ inches long and almost as broad. Large seeds are the common piñon nuts of trade.

SPRUCES.—Two species. Needles are scattered over the twigs singly. They are sharp pointed, four-sided, leaving twigs rough when they fall off. Cones pendent with parchmentlike scales.

ENGELMANN SPRUCE (Picea engelmanni).—The young twigs are covered with soft short hair. Needles are less rigid and less sharply pointed than those of blue spruce; green, dark blue, or pale steel blue. Cones are usually about 2 inches

long. Bark is reddish brown and separates in the form of small rounded scales. Main trunk, unlike blue spruce, is smooth, clean.

BLUE SPRUCE (Picea pungens).—The young twigs are always smooth. Needles stiff with sharp points, varying in color from silvery blue to green. Cones usually 3 inches long. Bark of mature trunks is gray and deeply furrowed. Main trunk always has numerous short twigs pushing out between branches.

Alpine Fig. (Alies Inspectable)—Flat

has numerous short twigs pushing out between branches.

ALPINE FIR (Abies lasiocarpa).—Flat leaves, 1 to 1½ inches long, without any stem where they join branches. Soft to the touch and fragrant. Bark is smooth, grayish white, furrowed on mature trees. Blisters containing liquid pitch or balsam are on smoother bark. Cones, unlike those of other conifers, stand erect, 2½ to 4 inches long, dark purple. In the fall the cones fall to pieces and leave a spike on the branch. The tree has a sharp, spirelike crown.

DOUGLAS FIR (Pseudotsuga taxifolia).—Although similar in name, this species is not a true fir. Flat leaves, ¾ to 1½ inches long, with a short stem that joins them to the branches. Cones with three-pronged bracts protruding from between the cone scales are persistent and fall off the tree whole. Buds are sharp pointed, shiny, smooth, red brown.

ONE-SEED JUNIPER (Juniperus monosperma).—Seed in berrylike fruit, not cones. Fruit is dark blue or occasionally copper colored and usually contains but one seed. Foliage is grayish green and rough to the touch, because of the slightly spreading points of the scalelike leaves. Occurs in dry situations, usually with piñon pine.

#### BROADLEAF TREES

ASPEN (Populus tremuloides).—Flat, nearly heart-shaped leaves up to 4½ inches across that tremble characteristically in a breeze. Bark whitish or very pale green, smooth with black scars where branches have dropped off. (Commonly called quaking aspen or "quakers" locally.) This species covers a large portion of the forest.

NARROWLEAF COTTONWOOD (Populus angustifolia).—Usually a tall tree, 40 to 60 feet high. Bark dark gray, heavily ridged half or two-thirds of the way up the tree; above that, smooth, pale green. Leaves ½ to 1 inch wide by 2 to 3 inches long, very similar to willow leaves. Usually found along streams at lower elevations.

MOUNTAIN ALDER (Alnus tenuifolia).—Found along and overhanging streams, usually in clumps, several trees growing from the same root, frequently 4 to 6 inches in diameter and 15 to 25 feet high. Leaves large and sharply double-toothed. Mature seedbearing fruit noticeable in winter.

BOXELDER (Acer negundo).—Leaves

compound, usually 3, rarely 5 to 7, on a single stalk. Tree low and freely branched, 50 to 70 feet high and up to 4 feet in diameter, has drooping clusters of greenish flowers. Seed is paired and winged.

MOUNTAIN OR DWARF MAPLE (Acer glabrum) — Usually a shrub, but frequently 20 to 30 feet high. Has paired opposite buds, sharply lobed leaves, light gray bark, and paired winged seed. Leaves 1 to 2 inches long, opposite each other.

PACIFIC SERVICEBERRY (Amelanchier florida) — Usually a shrub, 6 to 15 feet high. Leaves are silvery, sharply toothed toward the end, and alternate on branches; flowers white, in clusters. Five hard seeds in each berry. Berries edible and dark blue when ripe.

ripe.

SCRUB OAK (Quercus sp.).—Usually a shrub, rarely over 15 feet high, alternate leaves, smaller at the base than at the ends, with deep lobes, frequently drying on the tree and remaining over winter. Fruit a short, pointed acorn.