

# Table Rock Lake

*Missouri & Arkansas*



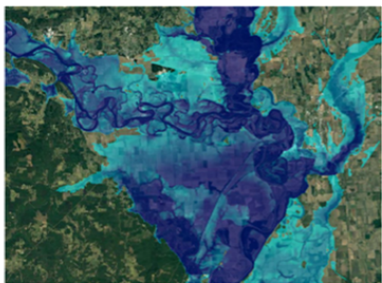
US Army Corps  
of Engineers®  
Little Rock District

# Flood Risk Management

The Great Mississippi Flood of 1927 was so severe that it changed the face of North America. It left almost one million people homeless, drove hundreds of thousands to emigrate north, and paved the way for monumental flood policy changes.

By the 1930s, it was obvious that a national flood control plan was essential. The Flood Control Act of 1936 authorized the US Army Corps of Engineers to accept projects that were primarily for flood management. About 270 projects - 73 in the White and Arkansas River basins - were authorized, including Table Rock Dam. However, most projects were postponed until after World War II due to lack of funding.

Today, six White River Basin lakes operate together as a system to reduce the frequency and severity of floods. These lakes are Beaver, Table Rock, Bull Shoals, Norfolk, Greers Ferry, and Clearwater. Since constructed, the White River Basin lakes and levees have prevented an estimated \$960 million in flood losses. The White River Basin Water Control Plan outlines when and where releases are made based on the amount of rainfall occurred and the demand for hydropower.



This model shows the flooding that would have occurred in Newport, AR in 2017 if there were no dams in the White River Watershed.



## Recreation

The blue waters of Table Rock Lake have become a playground for visitors from all over the nation. Table Rock is for you to enjoy, but it can also be dangerous. Whatever your activity, keep safety in mind. Wear a life jacket when you're on or near the water. Life jackets worn...nobody mourns.

Table Rock boasts over 700 campsites at 11 beautiful Corps campgrounds. Electricity, restrooms, showers, dump stations, boat launches, swimming areas, and more are available to campers with tents, trailers, and RVs. Reservations can be made online at [www.recreation.gov](http://www.recreation.gov) or call 1-877-444-6777.

## Hydropower

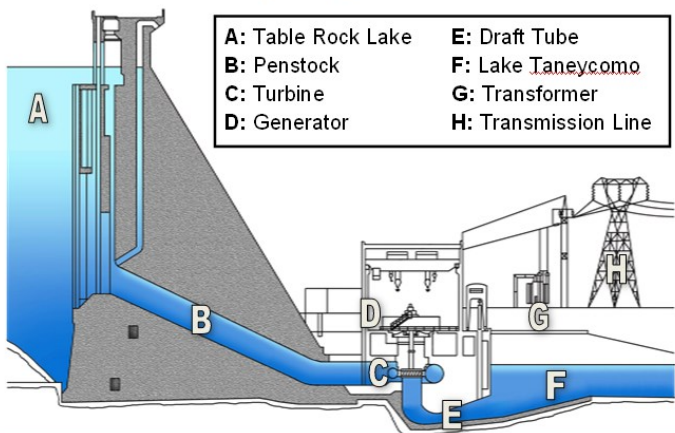


Table Rock Dam's Powerhouse produces an average annual market value for electricity of \$42.8 million. The electricity is marketed and sold by the Department of Energy's Southwestern Power Administration. Electricity produced at Table Rock is used to meet peak electrical demands when demand exceeds the maximum output of coal, gas, oil, and nuclear power. The advantage to hydropower is it can be turned on or off quickly, in as little as five minutes.

Water from Table Rock Lake plunges almost 200 feet through a pipe 18 feet in diameter called a penstock. This rushing water hits the blades of the turbine which spins a generator that can produce 50,000 kilowatts of electricity. Four of these generators are installed in the Powerhouse and can produce a combined total of 200,000 kilowatts, enough to power 40,000 homes.

## Southwestern Power Administration (SWPA)



- US Department of Energy, Power Marketing Administration.
- Markets cost-based, wholesale power to not-for-profit preference customers in six states: AR, KS, LA, MO, OK, TX.
- Over 8 million end-users, ~2.6 million in Missouri.
- Markets hydropower from 24 Federal, multi-purpose projects owned by the U.S. Army Corps of Engineers.
- Owns/operates 1,380 miles of high-voltage transmission line.
- Repays to the U.S. Treasury the Federal investment, interest, and O&M.







## Dewey Short Visitor Center

The \$10.8 million Dewey Short Visitor Center is one of a handful of regional Class A regional visitor centers in the US Army Corps of Engineers nationwide. The three-story structure has exhibits that tell the Corps story and how the White River Watershed dams work as a system to reduce flooding and produce clean hydroelectric power. An interpretive film on the history of Table Rock Lake and the White River further explains the Corps role in managing water.

Exhibits provide an educational, fun, and interactive learning experience that makes the center a destination of choice for schools, youth, and adults. Topics touched on include history, flood risk management, hydropower, fish and wildlife, recreation, water safety, and more.

The paved flat Lakeshore Trail extends 2.5 miles (one way) from the visitor center grounds to the State Park Marina. This scenic partially wooded trail follows Table Rock Lake's shoreline where hikers take in lake views and experience the Ozark's nature.

## Shepherd of the Hills Fish Hatchery

Cold water released from the dam supplies water to the Missouri Department of Conservation hatchery and Lake Taneycomo. One million trout are raised each year. Self-guided and led tours offered along with the Conservation Center.



[mdc.mo.gov/discover-nature/places/shepherd-hills-fish-hatchery](http://mdc.mo.gov/discover-nature/places/shepherd-hills-fish-hatchery)

# Project Data

## LOCATION

Table Rock Dam is on the White River in Branson, MO 529 miles upstream of the Mississippi River.

## PURPOSE

The lake is one of six multiple-purpose dams constructed in the upper White River Basin for the flood risk management and the generation of hydroelectric power. About 750 miles of shoreline is management for fish and wildlife and the lake offers excellent recreational opportunities including camping, fishing, and boating.

## CONSTRUCTION

Construction of the dam began in October 1954 and was completed in 1958. The powerhouse and switchyard to distribute power was completed in June 1959 with the first two generators. The last two generators were brought online in April and August 1961. Total construction cost approximately \$65,420,000.00.

## DAM

Length of dam, feet.....	6,423
Concrete section, feet.....	1,602
Maximum height of dam above streambed, feet.....	252
Concrete in dam, cubic yards.....	2,100,000
Earth in embankment, cubic yards.....	3,320,000
Length of Spillway, feet.....	531
Spillway crest gates (10), feet.....	45x37
Outlet conduits (4), feet.....	4x9
Elevations, feet above mean sea level	
Top of dam.....	947
Spillway crest.....	896

## LAKE

Elevations, feet above mean sea level	
Top of flood pool.....	931
Top of conservation pool, varies seasonally... ..	915-917
Surface area of lake, acres	
Top of flood pool.....	52,300
Top of conservation pool.....	43,100
Storage Capacities, acre feet	
Flood pool.....	760,000
Power drawdown and dead.....	2,702,000
Lake total.....	3,462,000
Shoreline length, miles	
At top of flood pool.....	857
At top of conservation pool.....	758

## HYDROELECTRIC POWER

Main generating units, number.....	4
Rated capacity, each unit, kilowatts.....	50,000
Station Service units, number.....	2
Rated capacity, each unit, kilowatts.....	700
Station installed capacity, kilowatts.....	201,400



## **US Army Corps of Engineers**

Table Rock Lake

4600 State Highway 165

Branson, MO 65616

(417) 334-4101

[ceswl-tr@usace.army.mil](mailto:ceswl-tr@usace.army.mil)

[swl.usace.army.mil/Missions/Recreation/Lakes/Table-Rock-Lake/](http://swl.usace.army.mil/Missions/Recreation/Lakes/Table-Rock-Lake/)

[www.facebook.com/littlerockusace](https://www.facebook.com/littlerockusace)

[www.twitter.com/usacelittlerock](https://www.twitter.com/usacelittlerock)



Facilities		Locations	Marina	Marine Dump Station	Public Launch Ramp	Courtesy Dock	Picnic Grounds	Group Shelter	Drinking Water	Swim Beach	Playground	Public Restrooms	Campground	Showers	Trailer Dump Station	Lodging	Visitor Center	Nature Trail	Operating Agency
Aunts Creek		6C	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Baxter		2E	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Beaver		5G																	Town of Beaver
Big Bay		4D																	U.S. Forest Service
Big M		3E	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Campbell Point		5E	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Cape Fair		5B	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Cricket Creek		8E	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Dewey Short Visitor Center & Project Office		8E															x	x	Corps of Engineers
Eagle Rock		2F	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Hideaway		5C	x	x															Commercial Concession
Holiday Island		2G	x	x															Commercial Concession
Indian Point		7D	x	x	x	x	x	x	x	x	x	x	x	x	x				Corps of Engineers
Long Creek		8F	x	x	x	x	x	x	x	x	x	x	x	x	x				Commercial Concession
Mill Creek		6E																	Corps of Engineers
Moonshine Beach		8D																	Corps of Engineers
Old 86		8E																	Corps of Engineers
Port of Kimberling		6D	x	x	x	x	x	x	x	x	x	x	x	x	x				Commercial Concession
Roaring River State Park & Fish Hatchery		1E															x	x	MO State Parks, MO Dept of Conservation
Rock Lane		7D	x																Commercial Concession
Shell Knob Recreation Area		4D																	U.S. Forest Service
Table Rock State Park		8E	x	x	x	x	x	x	x	x	x	x	x	x	x			x	MO State Parks
Viney Creek		3E																	MO State Parks
Viola		4E	x																Corps of Engineers

**CAUTION**  
An attempt has been made to show boating hazards (submerged or exposed point); however other hazards may exist and boaters are cautioned to watch for unknown hazards resulting from variation in pool levels.

When winds of 25 M.P.H. or more are forecast or blowing, boats are cautioned to stay out of open water.  
**FOR YOUR OWN SAFETY'S SAKE  
HEED THE WARNINGS!**

U.S. Highway

State Highway

Paved Road

Graveled or Secondary Road

Mileage

Areas Open for in Season Hunting

Top of Conservation Pool, El. 915

Park (Corps Operated)

Park (Other Entity)

Lake Access/Boat Ramp only

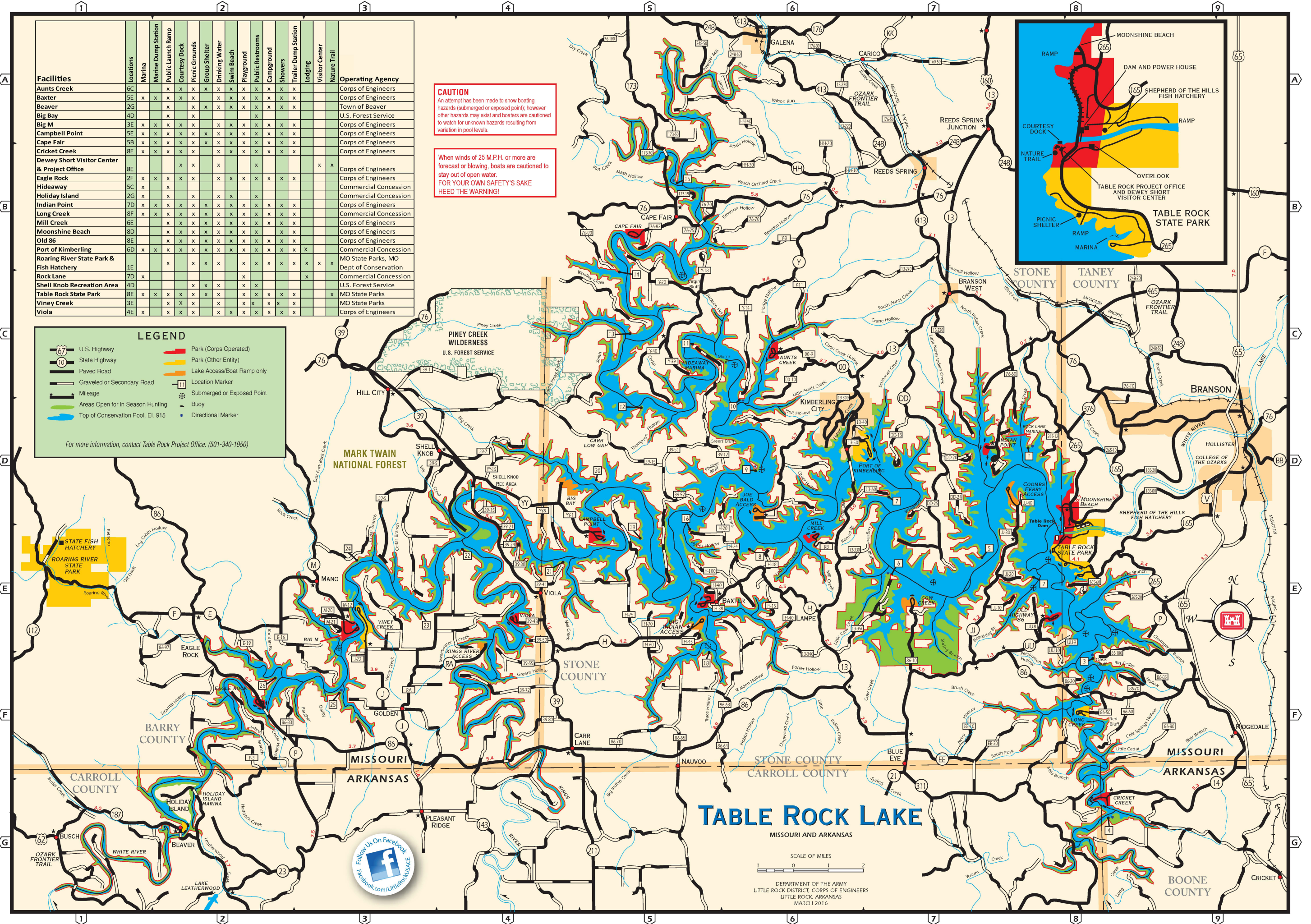
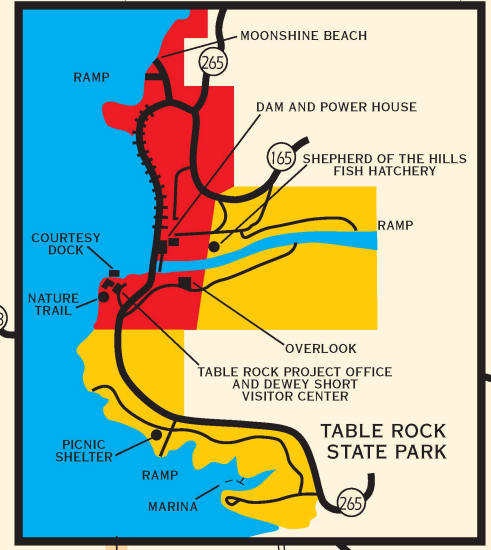
Location Marker

Submerged or Exposed Point

Buoy

Directional Marker

For more information, contact Table Rock Project Office. (501-340-1950)



**TABLE ROCK LAKE**  
MISSOURI AND ARKANSAS

SCALE OF MILES  
1 0 1 2

DEPARTMENT OF THE ARMY  
LITTLE ROCK DISTRICT, CORPS OF ENGINEERS  
LITTLE ROCK, ARKANSAS  
MARCH 2016