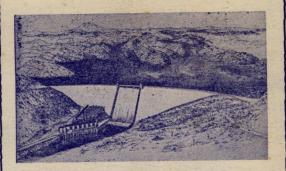
# Shasta Dam Facts . . .



Briefly Stated for Busy Folks



# Redding Chamber of Commerce

REDDING, CALIFORNIA

Courtesy of the Board of Supervisors Shasta County

## Shasta Dam

Maximum Height	560 feet
Crest Length	
Top Thickness	37 feet
Base Thickness	580 feet
Elevation Top of Dam	1077.5 feet
Cement	1,340,000 tons
Aggregates	12,000,000 tons
Concrete Content	6,000,000 cu. yds.
Earth and Rock Removed	4,250,000 cu. yds
First Concrete Placed	July 8, 1940

# Spillway

Highest Overflow Spillway in the World.		
Height of Overflow48	0	feet
	5	feet
3—110x28 feet Drum Gates		
18—102 Inch River Outlets		

## Reservoir

Reservoir AreaLength	29,500 acres 35 miles
Capacity	4,500,000 acre ft.
Drainage AreaShore Line	About 350 miles
High Water Level	1,065 ft. above sea level 828 ft. above sea level

# Conveyor

(Delivers Gravel From Pit to Dam)

Length of conveyor—9.6 miles. Contains 26 separate sections, each motivated by 200 h. p. motor, except 4 down grade which generate energy used on the others.

Width of Belt	36 inches
Width of Delt	1 hr. 40 min.
C 1 - C Polt	550 ft. per mm.
or at the rate of	6-1/4 miles per hr.
a :- of Bolt	1100 tons per nr.
- 1-14 contains	1000 hales (200,000 100.)
of cotton, and 1,000,000	lbs. of rubber.

# Cemeut Storage Tanks at the Dam Site

# Mixing Plant

10 Stories High.

Daily capacity of 10,000 cu. yds.

Contains bunkers at top holding 2165 cu. yds. rock and gravel and 3200 barrels of cement.

5—4 cu. yd. mixers.

## Head Tower

Heure Tours		
Height Above Ground	460	it.
Height Above Glound	102	ft
Below Ground		
Delow Classes The area	within	the
The 4 legs are 184 ft. apart. The area		
4 legs is approximately 1 acre.		
4 legs is approximately		

Seven cableways reach from the head tower to the tailtowers on the other side of the canyon. These cable ways deliver the concrete to the dam forms. 3 longest cableways—each 2680 ft. long.

Main 3 in. diameter track cable weights 22 lbs. per lin. ft.

# Some Comparisons

Dam	Height in ft.	Length in ft.	Base in ft.	Area in Reservoir	Storage Capacity In Acre Ft.
Shasta		3500	580	29,580 acres	4,500,000
		3430	250	4,800 acres	520,000
Friant		1282	660	146,500 acres	30,500,000
Boulder		4200	5.00	82,000	10,000,000
Grand Coulee		250	Y	1,850	51,000
East Park Stony Gorge		868		1,280	50,200

Sacramento River-400 miles long-21,000,000 acre ft. Aver. annual flow.

Colorado River-2,000 miles long-16,000,000 acre ft. Aver. annual flow.

Height Shasta Dam560 ft	
Highest Tower S. F. Bay Bridge	
Height Head Tower460 ft	:.
Height Tower of Sun at Golden Gate International Exposition400 fe	t.
Base Thickness of Dam	t.
Length of a Passenger Train, Engine and Seven CarsAbout 560 f	t.

Height Pit River Bridge500 ft.	•
Height State Capitol Bldg250 ft	
Drop of Water Over 375 ft.  Long Spillway480 ft	•
Drop of Water Over Niagara Falls162 ft	
Spillway drop is 3 times the height of Niagara Falls	١.
The conveyor belt is twice as long as any other bel in existence.	t

# Shasta Dam Power Plant

5 main generating units, each with 103,000 h. p. turbine, and 75,000 k.v.a. generator. Average head —408 ft. Two station service units, each with 3,000

horse power turbine and 2,500 k.v.a. generator. 10 story building—446 ft. long, 121 ft. wide. Capacity—375,000 kilowatts.

## Railroad Relocation

Redding to Delta-37 miles by present route.

The relocation eliminates 7 miles in length, and 5000 degrees of curvature, or about 14 complete circles.

The new route contains 12 tunnels aggregating  $3\frac{1}{2}$  miles in length, and 8 major bridges aggregating  $2\frac{1}{2}$  miles in length gaining 658 ft. in elevation. Maximum grade of 0.9 of 1 per cent.

### The length of the 12 tunnels are as follows:

No. 1	2719	ft.
No. 2	2691	ft.
No. 3	1864	ft.
No. 4		
No. 51		
No. 6	745	ft.
No. 7	1680	ft.
No. 8	897	ft.
No. 9	1610	It.
No. 10	2243	ft.
No. 11	941	ft.
No. 12	916	ft.

### The length of the main bridges follow:

First Sacramento Bridge       .4353 ft.         Pit River Bridge       .Highway 3588—R. R. 2770 ft.         O'Brien Creek Bridge       .1032 ft.         Salt Creek Bridge       .1395 ft.         Second Sacramento Bridge       .1044 ft.         Doney Creek Bridge       .653 ft.         Third Sacramento Bridge       .762 ft.         Fourth Sacramento Bridge       .312 ft.			
O'Brien Creek Bridge	First Sacramento Bridge	4353	ft.
Salt Creek Bridge	Pit River BridgeHighway 3588-R. R.	2770	ft.
Second Sacramento Bridge	O'Brien Creek Bridge	1032	ft.
Doney Creek Bridge	Salt Creek Bridge	1395	ft.
Third Sacramento Bridge762 ft.	Second Sacramento Bridge	.1044	ft.
	Doney Creek Bridge	. 653	ft.
Fourth Sacramento Bridge 312 ft.	Third Sacramento Bridge	.762	ft.
	Fourth Sacramento Bridge	. 312	ft.

# Pit River Bridge

Pit River Bridge, highest double deck bridge in the world. Length 3588 ft. approximately 2/3 mi. Height 500 ft. above present water level. Has ten piers and 4 abutments. The 2 main piers exceed 350 ft. in height, and are among the highest in the world. The largest pier is 90x95 ft. in the base, and 358 ft. high. The lower deck will have 2 lanes of railroad track. The upper deck will have 4 lanes of highway traffic and 2 walkways. When the reservoir is full, the lower deck will be only 35 ft. above the water. The approximate cost of the bridge is \$4,700,000.

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We are pleased that you have come to see Shasta Dam, one of the world's greatest man-made structures, being built. We hope this brief word picture has added to your enjoyment.

Now we invite you to tarry awhile with us. Lassen Volcanic National Park, Burney Falls, the Sacramento River Canyon, and the Trinity Alps, all within an hour's drive will thrill and delight you.

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Call at our office, 1342 Yuba Street, and let us tell you about them.

# Redding Chamber of Commerce

