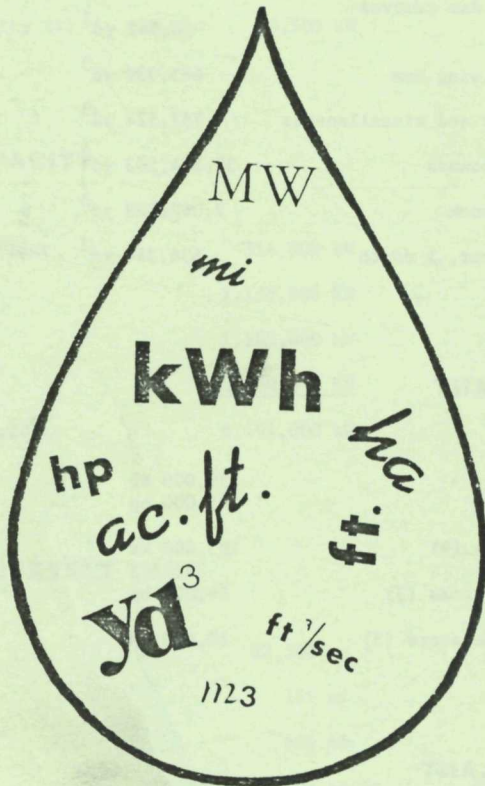




# GRAND COULEE STATISTICS



# STATISTICS

## GRAND COULEE DAM

	ENGLISH UNIT	METRIC UNITS
Total length of dam (axis)	5,223 ft	1,592.0 m
Length of main dam	3,867 ft	1,178.7 m
Length of forebay dam	1,170 ft	356.6 m
Length of wing dam	186 ft	56.7 m
Height above bedrock	550 ft	167.6 m
Height above downstream water level	350 ft	106.7 m
Spillway width	1,650 ft	502.9 m
Total concrete content	11,975,521 yd <sup>3</sup>	9,155,944 m <sup>3</sup>
Original dam, power, and pumping plants	10,585,000 yd <sup>3</sup>	8,092,815 m <sup>3</sup>
260' (79.2m) of dam removed for forebay	-30,942 yd <sup>3</sup>	-23,657 m <sup>3</sup>
Forebay dam and wing dam	663,939 yd <sup>3</sup>	507,618 m <sup>3</sup>
Third Powerplant and miscellaneous	757,524 yd <sup>3</sup>	579,169 m <sup>3</sup>
Total excavation, common	38,574,503 yd <sup>3</sup>	29,492,329 m <sup>3</sup>
Total excavation, rock	7,062,629 yd <sup>3</sup>	5,399,768 m <sup>3</sup>
Maximum concrete pour, 1 month	536,364 yd <sup>3</sup>	410,080 m <sup>3</sup>

## LEFT POWERPLANT

Main Unit Turbines		
G-1 thru G-6	150,000 hp	111,855 kW
G-7 thru G-9	165,000 hp	123,040 kW
Main unit generators (9)	125,000 kW	125,000 kW
Station service turbines (3)	14,000 hp	10,440 kW
Station service generators (3)	10,000 kW	10,000 kW

## RIGHT POWERPLANT

Main unit turbines (9)	165,000 hp	123,040 kW
Main unit generators (9)	125,000 kW	125,000 kW

## THIRD POWERPLANT

Main unit turbines (3)	820,000 hp	611,474 kW
Main unit generators (3)	600,000 kW	600,000 kW
Main unit turbines (3)	960,000 hp	715,872 kW
Main unit generators (3)	700,000 kW	700,000 kW

## PUMP GENERATOR PLANT

Pump lift to feeder canal	280 ft	85.3 m
Pumps (6)	65,000 hp	48,470 kW
Pumping capacity	1,605 ft <sup>3</sup> /s	45.42 m <sup>3</sup> /s
Pump-generators (6)	67,500 hp	50,335 kW
Pumping capacity	1,948 ft <sup>3</sup> /s	55.13 m <sup>3</sup> /s
Generating capacity (2)	50,000 kW	50,000 kW
Generating capacity (4)	53,500 kW	53,500 kW

## GENERATING CAPACITY

Pumping-Generating Plant	314,000 kW	314,000 kW
Left Powerplant	1,155,000 kW	1,155,000 kW
Right Powerplant	1,125,000 kW	1,125,000 kW
Third Powerplant	<u>3,900,000 kW</u>	<u>3,900,000 kW</u>
Total Generating Capacity	6,494,000 kW	6,494,000 kW

## FRANKLIN D. ROOSEVELT LAKE

Area	82,300 ac	33,306 ha
Length	151 mi	243 km
Length of shoreline	600 mi	965 km
Total capacity	9,386,000 ac ft	11,577,528 dam <sup>3</sup>
Active capacity	5,185,000 ac ft	6,395,640 dam <sup>3</sup>
Maximum elevation above sea level	1,290 ft	393.2 m

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