

EXHIBIT A. SUPPLEMENTARY PERTINENT DATA

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General Information

<u>Item</u>	<u>Description or Quantity & Units</u>
Other names of Project	Mathews Canyon Dam - Meadow Valley Wash and Lower Muddy River Basins, Nevada
Location	Mathews Canyon tributary to Meadow Valley Wash, Lincoln County, Nevada
Type of Project	Flood Control Reservoir
Objectives of regulation	Project authorized for single-purpose operation (flood control)
Project owner	U.S. Army Corps of Engineers, Los Angeles District
Operation Agency	U.S. Army Corps of Engineers, Los Angeles District. Official business hours: 0730-1600, Monday through Friday Tel (213) 452-3527
Regulating Agency	U.S. Army Corps of Engineers, Los Angeles District
Inter-Agency Agreements	U.S. Army Corps of Engineers has an agreement with Lincoln County Flood Emergency Management to keep the downstream channels free from man-made encroachment, and to adjust all water-rights claims resulting from the operation of Mathews Canyon Dam.
Project Cost	\$830,000 (Cost based on June 1955 price levels)
Closure date	16 December 1957
<u>Reservoir Lake or Pool</u>	
Pertinent Elements	See Table located on the inside front cover.

Real Estate	Lands acquired for the project were Public Domain land and acquired by withdrawal by Public Land Order. Elevation of taking line is approximately the top of the dam, elevation 5,483 ft, msl. Real Estate taking line for easement is 0 acres.
Range of clearing	Real Estate lands acquired below top of dam elevation of 5,483 and above spillway surcharge elevation of 5,481.7 ft, msl, totals 415.5 acres. Total acquired Real Estate below spillway crest elevation 5,461 ft, msl, is 300.0 acres.
Pool elevation corresponding to maximum non-damaging releases	Non-damaging release is 260 cfs, which is the maximum capacity of the dam outlet.
Reservoir length at top of conservation pool	None
Shoreline length at top of conservation pool	None
Safety aspects, possibly requiring warning	Dam breach and spillway flow conditions - Check Emergency Action Plan dated January 1986.
Emergency drawdown	Not applicable. The only outlet is the 3.5 ft diameter opening which conveys all flood flows from the reservoir.
Project area data Reservoir area	Construction camp site (picnic area) is located approximately at elevation 5,425 ft, msl.
Downstream area	No downstream facilities are affected by releases from the outlet works.
<u>Hydrology</u>	
Drainage area	34 square miles
Design Floods	See Table on the inside front cover.
Climate	Semiarid with some wet winters and dry summers.

One inch of runoff	Over Mathews Canyon Basin drainage area (34 square miles) is equivalent to a volume of 1814 acre-feet
Storm types	General winter storms, general summer storms (tropical rain)
Flood seasons	Flood season is 15 November - 15 April
Low flow season	Reservoir remains dry most of the year, especially during the months of June - September.
Minimum daily flow	Minimum daily inflow is 0 cfs
Minimum monthly flow	Same as minimum daily flow
Minimum annual flow	Same as minimum daily flow
Average annual flow	8.43 cfs
Maximum annual flow	Maximum recorded flow is 1771 cfs during the January storm of 1969
Maximum monthly flow	Same as maximum annual flow
Maximum daily flow	Maximum daily flow is 1771 cfs, 21 January 1969
Key streamflow station tunnel	Downstream gage located at outlet
Type of data at dam	Automatic recording telemetry gages for precipitation, water surface elevation
Stations for hydrologic forecasting	None. No hydrologic forecasting is done
No. of snow courses	None. Snow doesn't last for more than a few days.
Number of sediment ranges	None. Sedimentation records are not kept.
<u>Embankment</u>	
Location	20 miles southeast of Caliente and 100 miles northeast of Las Vegas, Nevada.
Purpose	Protection of agriculture, community, structures, and against loss of life
Type of fill	Earthfill

Slope protection	Upstream face is covered with 2-foot layer of riprap. There is also a 4-foot layer of stone on the downstream toe.
Height	71 feet
Length	800 feet
Top elevation	5,483 feet, msl
Design flood	SPF - 8,000 cfs
Freeboard	4.9 feet
<u>Spillway</u>	
Location	Left abutment
Type	Rectangular reinforced concrete with an ogee crest
Crest elevation	5,461 feet, msl
Net overflow length	50 feet
Spillway activation	When WSE exceeds 5,461 feet, msl
<u>Outlet Facilities</u>	
Location	Right abutment of dam
Purpose	Flood control
Type outlet	Circular conduit
Size of outlet	3.5 feet diameter
Type of service gate or valve	Ungated
Number and size of gates and valves	None
Entrance invert elevation	5,420 feet, msl
Discharge at pertinent elevations	Bottom, elevation 5,420 = 0 cfs Flood control pool, elevation 5,461 = 260 cfs
Minimum pool elevation	5,420 feet, msl
Type energy dissipater	Stilling basin