# UPPER PAYETTE RESERVOIR

ACTIVE STORAGE

CALCULATION

IDAHO DEPARTMENT OF WATER RESOURCES

J. WESTRA & S. HORNBAKER 6/2/93

### UPPER PAYETTE RESERVOIR

### **PURPOSE**

The primary purpose of the project was to determine active storage volumes at any given reservoir level height. Allowances for evaporation, seepage and other sources of shrinkage were not considered in the calculations. The results will be utilized for future water management of the Payette River system.

### BACKGROUND

The upper Payette Reservoir is a mountain reservoir located north of McCall in the Payette National Forest. Originally, the reservoir was part of a natural lake on the North Fork of the Payette River, draining into "Big" Payette Lake. A radial gate dam was constructed on the south end in 1953, raising the lake 8 feet in height. The active storage is utilized for irrigation in the lower Payette River Valley below.

### **PROCEDURE**

Several sources of information and field data were incorporated into the volume calculations for the reservoir. Due to the natural lake (dead pool) portion of the reservoir, a detailed survey of the reservoir would have involved a great deal of time and resources. It was felt that by incorporating the use of existing contour maps, survey field data, and the computer, a credible calculation of volume could be found. USGS bench marks had been established on the right dam abutment and at the north road bridge, all elevations were referenced to these bench marks. The USGS contour maps of the reservoir also referenced the reservoir at the high water line elevation of 5555 ft., which outlined the reservoir border at full elevation. In late October of 1992 after several drought seasons, the reservoir had reached dead pool level. A field survey was completed at that time, tying the dead pool elevation and slope to the full reservoir elevation, 5555 ft.. Survey data was obtained at key geological features such as shore points, incoming creek tributaries, and bench marks that could be referenced on the USGS map. The data points were then plotted for the dead pool on an expanded version of the contour map. Data points from the reservoir full elevation and dead pool were loaded into the computer utilizing Surfer-Version 4 software, which inturn plotted a new contour map of the reservoir with contour elevations at 1 foot intervals. Surface areas were also calculated at each elevation of the reservoir as part of the software. The volume for each 1 foot of reservoir elevation was then computed by the pyramid frustrum equation:

$$V = h/3(A_1 + A_2 + (A_1 A_2)^{1}$$

where V= Volume (Ac-Ft.)
h= contour height (ft.)
A = upper surface area (Ac-Ft)
A = lower surface area (Ac-Ft)

### ACCURACY/ERROR

Although, the utmost care was taken in obtaining and collecting data, there is always some error involved in field data, maps, and computer plotting. Close attention was paid to the calmness of the dead pool during the survey to obtain accurate elevations, but some movement is unavoidable. At the reservoir dead pool level, the north end of the reservoir becomes a wetland grass habitat, and the ground surface is very uneven with several creek tributaries coming in. In being practical, some interpolation had to be done in plotting this particular area. By plotting the data manually on an expanded map, using a planometer, the surface areas found were reasonably close to the computer calculated areas. Generally, the accuracy of other types of water measurements are credible within 5 to 10 percent, the volumes determined in this case would safely fall within this percentage.

### SPECIFICATIONS/FACTS

Reservoir Location: Parts of Sec. 36, 25, T21N, 3E Sec. 31, 30, 19, T21N, 4E Valley County, ID.

Dam: 4 - 8ft.(height) X 10 ft.(wide) radial gates.

Drainage: 42 square miles.

Surface Area: 321 acres

Water Right: #65-2918 (Decreed)

Owner: Lake Reservoir Co., Payette, ID.

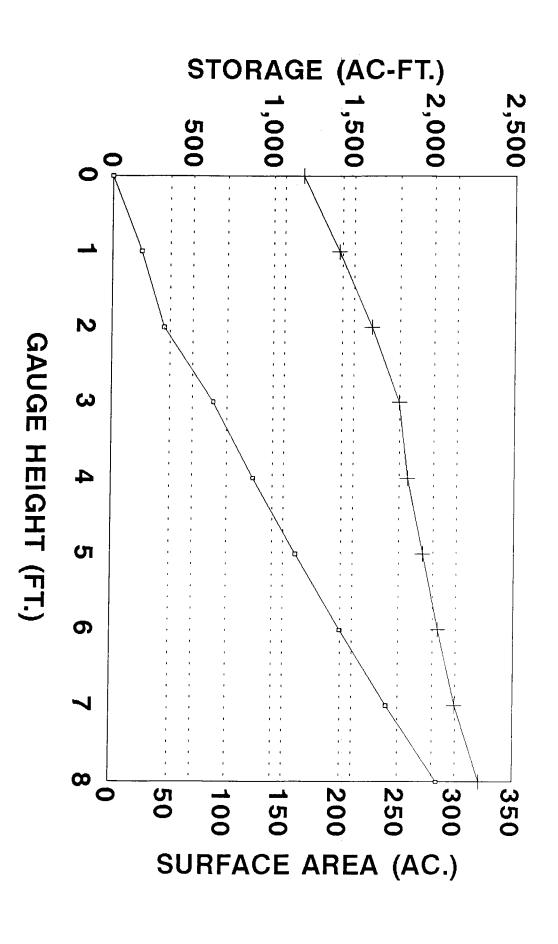
<sup>1.</sup> Davis, Foote, Kelly; Surveying- Theory & Practice, 5th Ed. Page 784.

## UPPER PAYETTE RESERVOIR LAKE STORAGE CHART

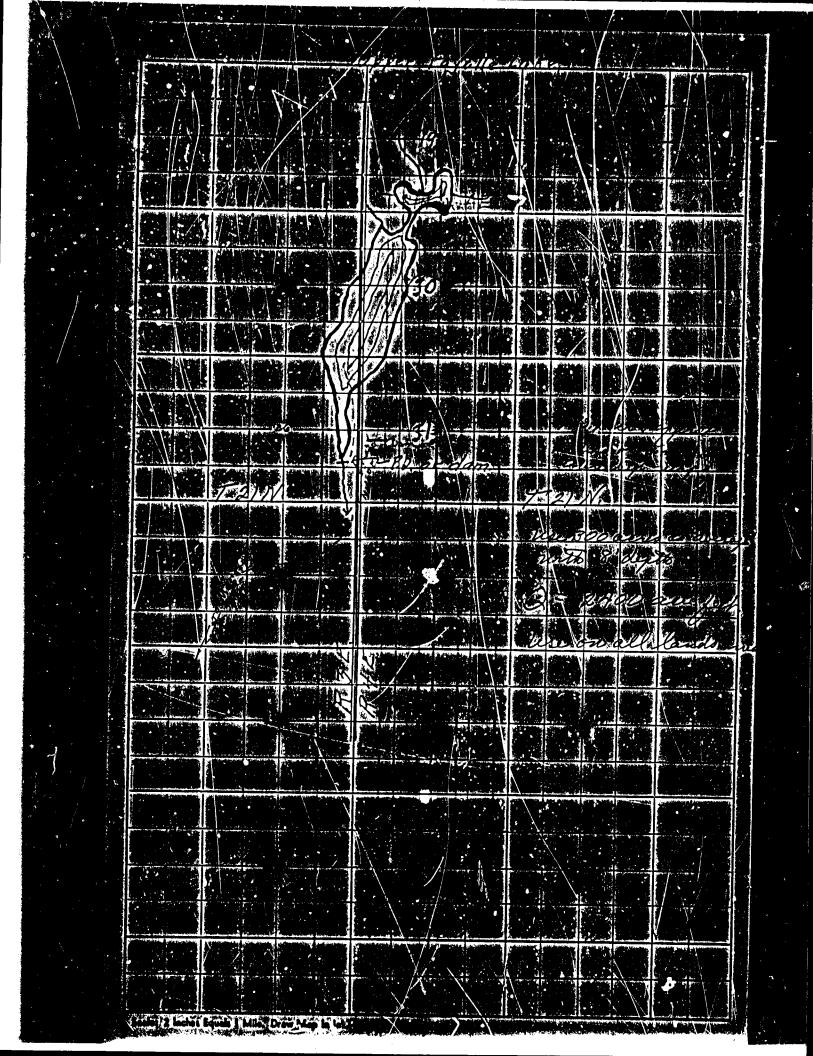
Gauge Height (Ft.)	Remaining Active Storage (Ac-Ft.)	Surface Area (Acres)
0.0	0.0	165.5
1.0	181.0	197.0
2.0	320.0	225.6
3.0	629.0	249.6
4.0	882.0	257.2
5.0	1146.0	270.8
6.0	1423.0	284.6
7.0	1715.0	299.4
8.0	2026.0	321.2

# UPPER PAYET ESERVOIR

**ACTIVE STORAGE** 



→ STORAGE + SUR. AREA



Form 23

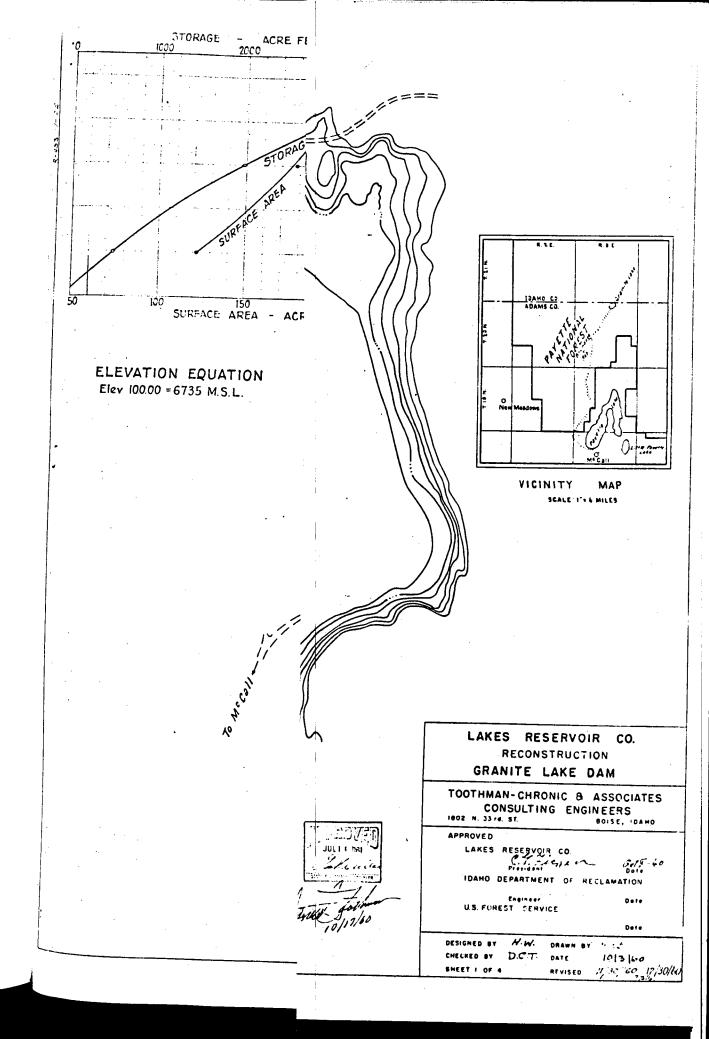
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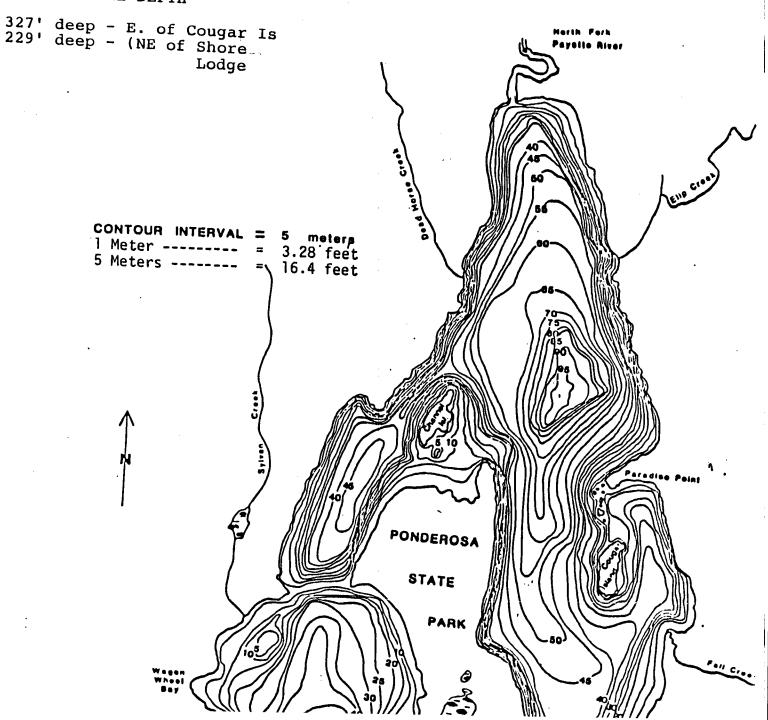
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than irrigation				
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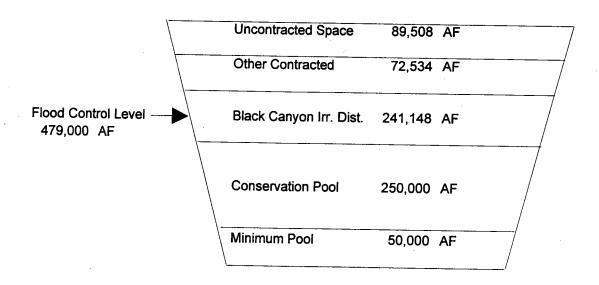




# Cascade Reservoir Storage Space and Possible 1995 Scenario

# Possible 1995 Scenario:

Minimum Pool Conservation Pool Black Canyon Preferred Black Canyon Regular Other Contractors Uncontracted Space	Acre Feet 50,000 250,000 125,000 116,148 72,534 89,508	Full Reservoir Space Irrigation Needs Fish Flush Evaporation Possible Reservoir Level - 10/95	Acre Feet 703,190 (88,000) (96,726) (29,394) 489,070
Total Space	703,190		



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	33,100	214,120	489,070	29,394	96,726	88,000	703,190	Total Space
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	452	5,519	4,531	452	5,067		10,050	Lower Payette
	452	4,869	5,181	452	4,417		10,050	Noble
	1,750	14,762	24,131	1,750	13,012		38,893	Farmer's
	14,559	98,852	17,296	10,852		88,000	116,148	Black Canyon
	15,278	89,508	0	15,278	74,230		89,508	Uncontracted
	,	· C	125,000				125,000	Black Canyon Preferred
		,	250,000				250,000	Conservation Pool
			50,000				50,000	Dead Pool
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Fill	Last Fill	1st Fill	Space	او	Cut Dasiii Evap. Cily	Out Dasil	11. 000	50 000	<u>8</u>	Dead Pool
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									Possible Refill Scenarios	Possible
									Cascade Reservoir	Cascac

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				439,070				653,190	Active Capacity
		117,393	214,120	489,070	3 29,394	96,726	88,000	703,190	Total Space
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			4,869	5,181		4,417		10,050	Noble
			14,762	24,131	1,750	13,012		38.893	Diack Carryon
_		9	98,852	17,296	10,852		88,000	116.148	Slock Canyon
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		,	c	123,000				125,000	Black Canyon Preferred
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WATER DISTRICT 65 - PAYETTE RIVER DIVERSION DATA - AUG 27, 1995

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	•	<b>-</b>	<b>-</b>	•	<b>-</b>	<b>&gt;</b> 0	<b>5</b> (	<b>.</b>	•	0	0	<b>O</b>	-16	: <b>-</b>		> 0	<b>&gt;</b> (	,	- AK 4	<b>-</b>	o 8		- S	100	, ,	- 4 - 4	77.	> 6	5		>	REEG	۸F

28-AUG-95

28-AUG-95	LAST RIGHT	19380919 19380919 19380919 19380919	19380919 19380919 19380919 19380919 19380919	19380919 19380919 19990102	STORED (AF)	26470.0 116800.0 2400.0 2600.0 1300.0 570439.0 200.0	45100.0 82751.0 848060.0	FS - 47.
8	REACH GAIN LA	512. 117. 340.	80. 224. 132. 36. 68.	75. 803. 2607.	RIGHT (AF)	27750.0 116800.0 2400.0 2600.0 1300.0 570439.0	45100.0 82751.0 849340.0	AT END CFS -S - 31. IFS - 11. 7 NI COEF -
	TOTAL RCH DIV	්ප්ප්ප්	0. 0. 1622. 647.	44. 256. 461.		21 11 57	2 B	S - 343, AT ( SLOUGH CFS - E SLOUGH CFS -
1995	NATURAL FLOW DIY	3000	0. 0. 0. 783. 638.	•	ESERVOIR	PAYETTE DEADVIOD UPPER LAKES UPPER LAKES CAPER LAKES CASCADE	DEADHOOD CASCADE TOTAL	7 MILE SLOUGH AT HEAD CFS - 343, 7 COMBINED WASTE TO 7 MILE SLOUGH CFS COMBINED WASTE BLW 7 MILE SLOUGH CFS UPPER 7 MILE COEF - 1.02 LOWER 7
AUG 27,	RESRVOIR FVAP	8	12		PRIORITY R	- 0 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		7 MILE SLOUGH AT HI COMBINED WASTE TO COMBINED WASTE BLW UPPER 7 MILE COEF
UNTING -	R STORED W FLOW	439.	चंच छ		TOTL EV P	960_4 0_0 0_0 0596.3 0.0		7 WILE SI COMBINED COMBINED UPPER 7
RIVER FLOW ACCOUNTING	NG POVER OV FLOV	512. 0. 117. 0. 969. 0	2	Ē	MEASURED OR TOTL STOR TO (AF)	161900.0 960.4 6500.0 0.0 26470.0 0.0 653190.0 10596.3 0.0 0.0		UNACCT STORED 37956.0
PAYETTE RIVER	TUAL RMAINING FLOW NAT FLOW	₩ <b>-</b> 9	20. 20. 20. 157. 100. 782. 124. 456. 2352. 1460. 746. 746. 746. 746. 746. 746. 746. 746		교	_		ABV LETHA Diverted 159714.7
- 9	. <u>-</u>	R. 0. 3	N	75. 75. 1804. 2607. 4	FLOW ESTIMATED, NOT I CHNG CONT ACER ST (CFS) (CFS)	-483.5 0.0 -151.2 -934.7 -5.5	0.00	PASSING LETHA AL STORED 4
WATER DISTRICT	ACTUAL NATURAL DATE FLOW	25 25 26 25	*********		CATES FLOWIRE CONT CH (AF)	132292.0 6500.0 35000.0 626200.0 30445.0	85U457.U	ABV LETHA STORAGE USED 40792.9
WATE	e e	*	NKS * END		* - INDICATES FI PREV CONT CURR CONT (AF) (AF)	_	633561.0	CHANGE IN CONTENT 458652.0
	REACH FLOWS IN CFS	SOUTH FORK AT LOWMAN DEADWOOD BLW DEADWOOD PAYETTE NR BANKS	UPPER NORTH FORK NORTH FORK AT MCCALL AT MCCALL TO CASCADE N FORK CASCADE TO BANKS BANKS TO HORSESHOE BEND HORSESHOE BEND	EMMETT TO MID SLOUGH CORBINED MASTE BELOW 7 MILE SLOUGH LETHA TO PAYETTE	RESERVOIR	DEADWOOD UPPER LAKES PAYETTE CASCADE BLACK CANYOM	TOTAL	YEAR-10-DATE AF
	<u>ō</u> z	₩ Z E E		255 285	<b>6</b> 2	- W W A W	<b>←</b> ·	YEA

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