

Form 9-1503
(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

1906 0000

Basin Index 133 DD

WATERPOWER OF THE UNITED STATES

State	Alaska	Stream	Humpback Lake	Site	Humpback Lake
County				Owner	
First Judicial Division					
Mer. T. R. Sec.				Constructed	
Lat. 55 ° 01.5 ' " Long. 130 ° 38.4 ' W. "				Storage 70,000 af 86,344,300 m ³	
Miles above mouth				Installed capacity mw	
Drainage Area 34.4 sq. mi. 89.10 sq. km				Installable capacity mw	

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m³/sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	25	.7	320	98.0	20	6.1	300	91.4	0.64	
50	282	8.1							7.19	
mean	310	9.0							7.91	55,370

Remarks: Ketchikan A-2 Quad.

Prepared by GCG Date

WPSA 1947

Creek flows 0.4 miles
to the 10' elev ?

Low saddle to the
north

Lake 240

Saddle 265

Dam 25' high at outlet

$190 - 265 = 70,000$ acre-foot

PSC 192 1/4 mile Lake & outlet stream

Does not cover upper valley

Survey needs

determine if Humpback
Lake can be raised to 500'

Elev of saddles and some
topog between Humpback
and Red River and Willard
Inlet. Stream profiles to
determine power house location
and elevation

Quads Ket H-2, H-3

Lake 272

↙ No with drainage

Develop Red River & Humpback
Lake to 500' One project

Total Drainage 78.939 miles

Area = $13/34 \text{ m.lc} = 1026$

$500 \times 1026 \times 1.085 = 43,600 \text{ kw}$

Check saddle between 500-600'
between Humpback & Willard
Inlet.

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GEOLOGICAL SURVEY

Basin Index _____

WATERPOWER OF THE UNITED STATES

State Alaska Stream Humpback Lake Site Humpback Lake 2592

County First Judicial Div. Owner _____
Mer. _____ T. _____ R. _____ Sec. _____ Constructed _____
Lat. 55 ° 01.5 'N " Long. 130 ° 38.4 'W. " Storage 70,000 af 86,344,300 m³
Miles above mouth _____ Installed capacity _____ mw
Drainage Area 34.4 sq. mi. 89.10 sq. km Installable capacity _____ mw

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	25	.7	320	98.0	20	6.1	300	91.4	637.64	
50	282	8.1							7191	
mean	310	9.0							7905 7.91	55,370

Remarks:

Prepared by _____ Date _____

Ketchikan A-2