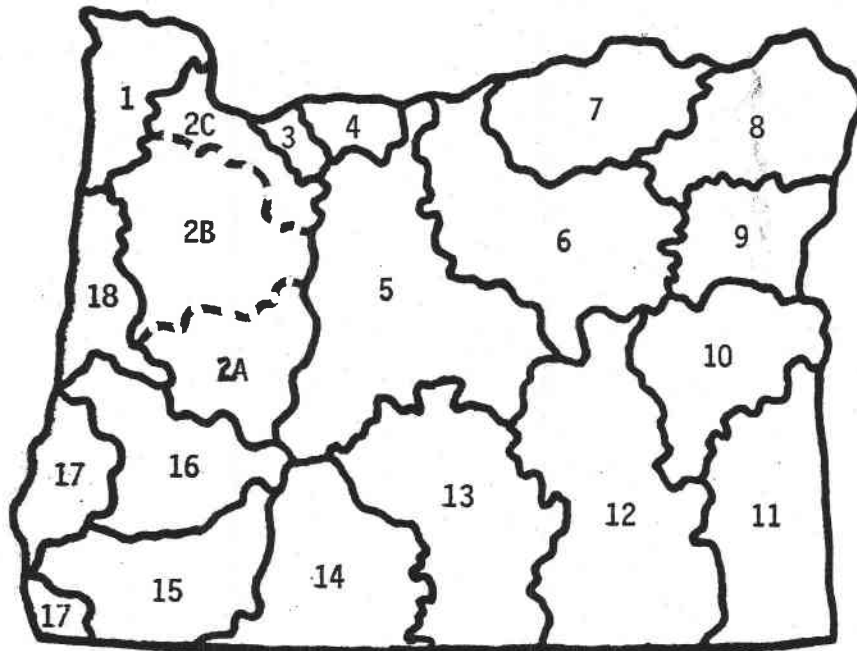


A RESOURCE SURVEY OF RIVER ENERGY
AND LOW-HEAD HYDROELECTRIC POWER POTENTIAL
IN OREGON

APPENDIX 11: OWYHEE BASIN



WATER RESOURCES RESEARCH INSTITUTE
Oregon State University
Corvallis, Oregon 97331

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Drainage Basin Map 11-ii

Reach Hydro Potential Characteristics Sheets

 Owyhee River Below Owyhee Dam 11-1 to 11-3

 Owyhee River Main Stem Above

 Owyhee Reservoir 11- 4-8, 12, 18-23

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Reach Feasibility Analysis Sheets 11-24 to 11-25

REACH HYDRO POTENTIAL CHARACTERISTICS

REACH # 02-500-240-200-000-R0001

I. LOCATION

A. State	Oregon
B. County	Malheur
C. Township, Range	Sec. 3, T21S, R46E
D. Latitude, Longitude	43°43'N, 117°05'W
E. Stream Name	Owyhee River
F. Major Basin Name	Owyhee
G. River Mile	0.0 to 10.0

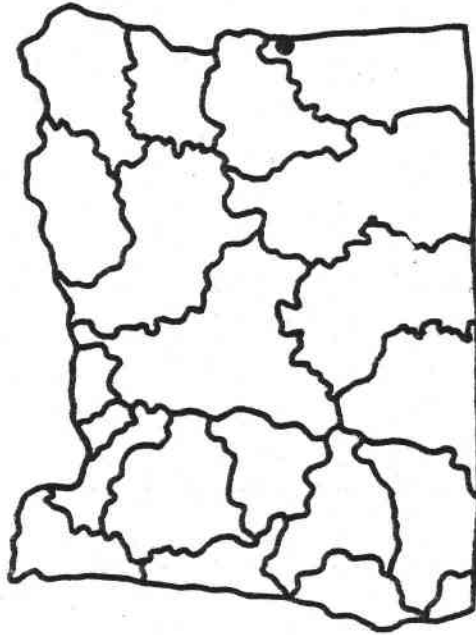
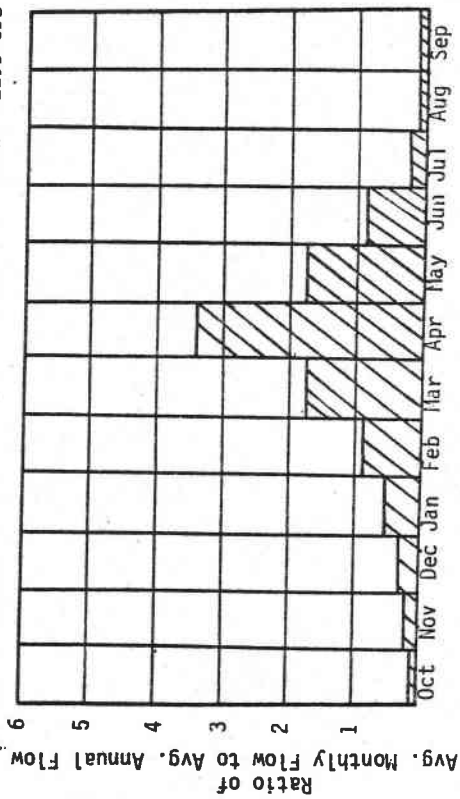
II. HYDROLOGIC AND HYDRAULIC CHARACTERISTICS

A. Upstream Elevation of Reach	2230	Ft. MSL
B. Downstream Elevation of Reach	2180	Ft. MSL
C. Total Available Head in Reach	50	Ft.
D. Average Slope in Reach	5	Ft./Mi.
E. Drainage Area above Reach Mouth	10470	Sq. Mi.
F. Inflow Classification	Regulated	

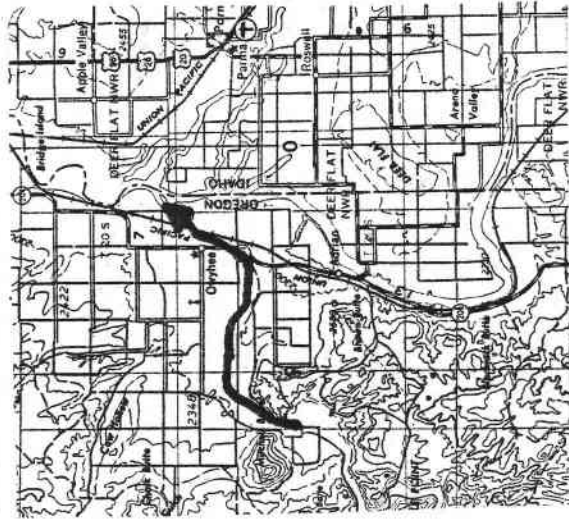
III. REACH FLOW DURATION AND THEORETICAL POTENTIAL ENERGY CHARACTERISTICS

I	PERCENTAGE	I	DISCHARGE	I	THEORETICAL	I	ANNUAL ENERGY	I	PLANT
I	I	I	CFS	I	PLANT SIZE	I	AVAILABLE	I	FACTOR
I	I	I	I	I	MW	I	GWH	I	I
I	95	I	139.2	I	.59	I	5.17	I	1.000
I	80	I	201.0	I	.85	I	7.17	I	.962
I	50	I	357.7	I	1.52	I	10.95	I	.825
I	30	I	867.4	I	3.68	I	18.52	I	.575
I	10	I	3713.8	I	15.74	I	39.65	I	.288

IV. TYPICAL ANNUAL HYDROGRAPH



U.S.G.S. TOPO. SERIES
1:250,000 SCALE
MAP NAME: BOISE



REACH HYDRO POTENTIAL CHARACTERISTICS

REACH # 02-500-240-200-000-R0010

I. LOCATION

A. State	Oregon
B. County	Malheur
C. Township, Range	Sec. 22, T21S, R45E
D. Latitude, Longitude	43° 45' N, 117° 12' W
E. Stream Name	Owyhee River
F. Major Basin Name	Owyhee
G. River Mile	10.0 to 20.0

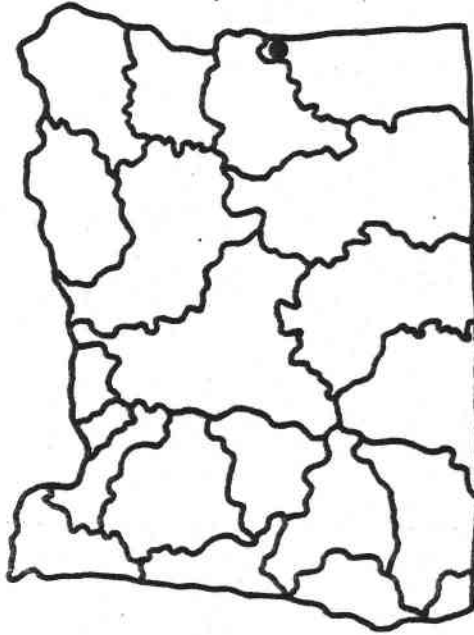
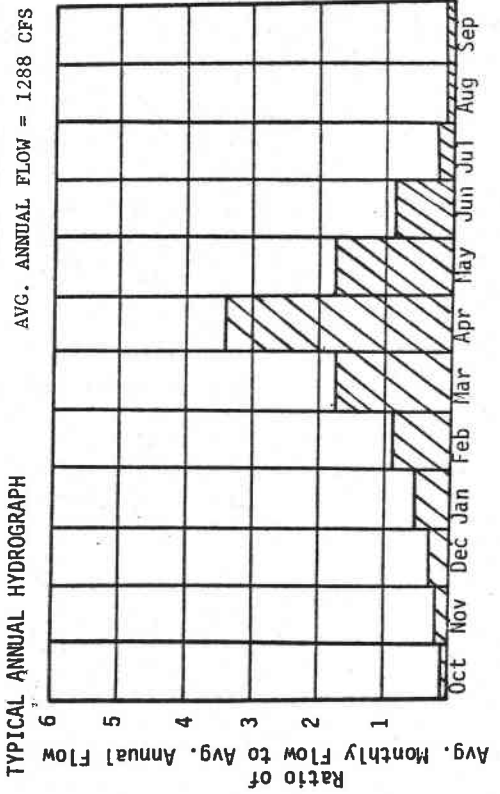
II. HYDROLOGIC AND HYDRAULIC CHARACTERISTICS

A. Upstream Elevation of Reach	2335	Ft. MSL
B. Downstream Elevation of Reach	2230	Ft. MSL
C. Total Available Head in Reach	105	Ft.
D. Average Slope in Reach	10.5	Ft./Mi.
E. Drainage Area above Reach Mouth	10387	Sq. Mi.
F. Inflow Classification	Regulated	

III. REACH FLOW DURATION AND THEORETICAL POTENTIAL ENERGY CHARACTERISTICS

I EXCEEDANCE I PERCENTAGE I	I DISCHARGE I CFS I	I THEORETICAL I PLANT SIZE I MW I	I ANNUAL ENERGY I AVAILABLE I GWH I	I PLANT I FACTOR I
I 95 I	I 138.4 I	I 1.23 I	I 10.79 I	I 1.000 I
I 80 I	I 199.9 I	I 1.78 I	I 14.98 I	I .962 I
I 50 I	I 355.6 I	I 3.16 I	I 22.87 I	I .825 I
I 30 I	I 862.5 I	I 7.68 I	I 38.68 I	I .575 I
I 10 I	I 3692.6 I	I 32.86 I	I 82.80 I	I .288 I

IV. TYPICAL ANNUAL HYDROGRAPH



U.S.G.S. TOPO. SERIES
1:250,000 SCALE
MAP NAME: BOISE

