GORGEMIN PROGRAM

PROGRAM: GORGEMIN.EXE

INTRODUCTION: The GORGEMIN program reads minimum flow requirements for Gorge from a file provided by the Northwest Power Pool (NWPP) based on Seattle City Light's February 1 Data Submittal. From this input the program develops an output file containing the minimum flow requirements in a format which is readable by the HYSSR main program.

The input file to the GORGEMIN program contains Gorge's base minimum flows and the six sets of minimum fish flow requirements by period and TRIG flow. The TRIG flow, also called the "Spawning flow", is based on Gorge's regulated flow. The TRIG flow is computed in the HYSSR regulator and the appropriate minimum flow requirement for that period is selected.

The GORGEMIN program only converts the Gorge minimum flow data from NWPP format to a HYSSR format. The actual minimum flow for Gorge for each period is determined during execution of the HYSSR main regulator program. This program only needs to be run when new minimum flow requirements are received from NWPP.

INPUT: The GORGEMIN program executes interactively, so the program prompts the user to enter the names of the files. The input file contains the minimum flow requirements for Gorge as provided by NWPP. A sample of the input data begins on page 2. It is important to note that if the format of this input file ever changes, the program will not read the data correctly.

OUTPUT: The program prompts the user to enter the name of the output file where the Gorge minimum flow data should be written. The output file will contain the Gorge base minimum flow requirements plus the six sets of minimum fish flow requirements based on period and TRIG flow. This file is in a format which the HYSSR main regulator program will read as UNIT 19 in the HYSSR.CON file.

GORGEMIN SAMPLE INPUT:

CHINOOK SALMON

TRIG	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MAR	AP1	AP2
2000	2000	2000	1500	1500	1000	1000	1000	1800	1800	1800	1800
2100	2000	2000	1500	1500	1000	1000	1000	1800	1800	1800	1800
2200	2000	2000	1500	1500	1000	1000	1000	1800	1800	1800	1800
2300	2000	2000	1500	1500	1000	1100	1100	1800	1800	1800	1800
2400	2000	2000	1500	1500	1000	1100	1100	1800	1800	1800	1800
2500	2000	2000	1500	1500	1000	1200	1200	1800	1800	1800	1800

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CHUM SALMON

TRIG	NOV	DEC	JAN	FEB	MAR	AP1	AP2	MAY
3000	1000	1000	1400	1800	1800	1800	1800	1500
3100	1000	1000	1500	1800	1800	1800	1800	1500
3200	1000	1000	1500	1800	1800	1800	1800	1500
3300	1000	1000	1500	1800	1800	1800	1800	1500
3400	1000	1000	2100	1800	2100	2000	2000	1500
3500	1000	1000	2200	1900	2100	2000	2000	1500
3600	1000	1000	2200	1900	2100	2000	2000	1500

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MARCH STEELHEAD

TRIG	MAR	AP1	AP2	MAY	JUN
3000	1800	1800	1800	1500	3584
3100	1800	1800	1800	1500	3584
3200	1800	1800	1800	1500	3584
3300	1800	1800	1800	1500	3584
3400	1800	1800	1800	1500	3584
3500	1800	1800	1800	1700	3584
3600	1800	1800	1800	1700	3584
3700	1800	1800	1800	1700	3584

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APRIL STEELHEAD

TRIG	AP1	AP2	MAY	JUN	JUL
3000	1800	1800	1500	3584	3623
3100	1800	1800	1700	3684	3623
3200	1800	1800	1900	3784	3623
3300	1800	1800	1900	3884	1500
3400	1800	1800	1900	3984	3623
3500	1800	1800	1900	4084	3623
3600	1800	1800	1900	4084	3643
3700	1800	1800	1900	4084	3663
3800	1800	1800	1900	4084	3683

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MAY - JUNE 15 STEELHEAD

TRIG	MAY	JUN	JUL
2000	1500	3584	3823
2100	1500	3584	3823
2200	1500	3584	1500
2300	1500	3584	1500
2400	1500	3584	3823
2500	1500	3584	3823
2600	1500	3764	3823

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BASE MINIMUM FLOW

AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MAR	AP1	AP2	MAY	JUN	JUL
2000	2000	1500	1500	1800	1800	1900	2300	2300	2300	2000	1700	1500	1500