

AD-A147 015

COMPUTER OPERATIONS STUDY OF RESERVOIR OPERATIONS FOR
SIX MISSISSIPPI RIVER HEADWATERS DAMS APPENDIX A(U)
ANDERSON-NICHOLS AND CO INC PALO ALTO CA JUN 82

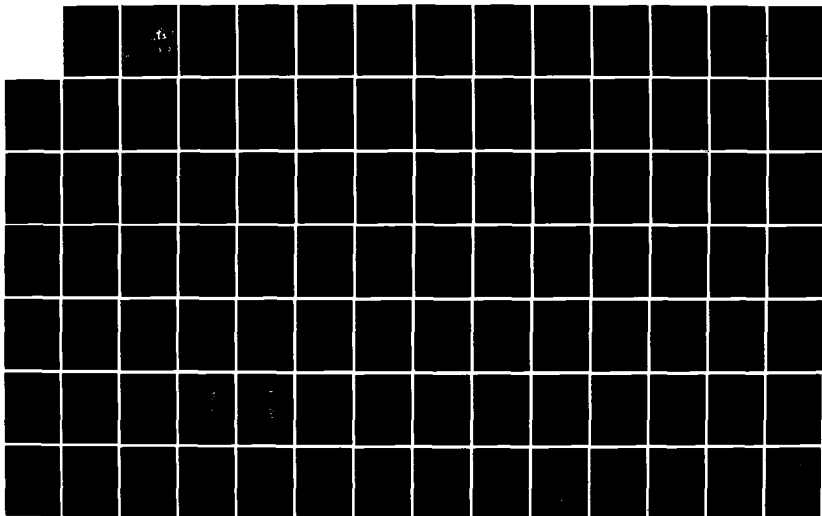
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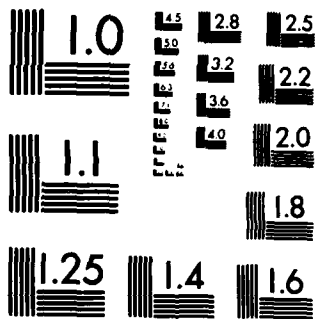
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Prepared for
ST PAUL DISTRICT
U.S. ARMY CORPS OF ENGINEERS

CONTRACT NO.
DACW37-81-C-0027

AD-A147 015

COMPUTER OPERATIONS STUDY OF RESERVOIR OPERATIONS FOR SIX MISSISSIPPI RIVER HEADWATERS DAMS

APPENDICES
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APPENDIX A

SCOPE OF WORK

APPENDIX "A"
CONTRACT SERVICES TO
UNDERTAKE STUDIES AND PREPARE A REPORT ON THE
EFFECTS OF DIFFERENT OPERATING PLANS FOR THE
SIX MISSISSIPPI RIVER HEADWATERS DAMS

SCOPE OF WORK

1. GENERAL

The work effort under this scope of work will be directed toward reevaluating the effects of four operating plans already developed in a previous contract and six additional operating plans for the six Mississippi River Headwaters Dams. The previous work which was accomplished by the St. Anthony Falls Hydraulic Lab, University of Minnesota, utilized an early version of the Hydrologic Engineering Center's (HEC) HEC-5c Computer Program. HEC is a Corps of Engineers Research and Training Facility located at Davis, California.

The work desired under this scope of work will utilize the new HEC-5 model developed by the HEC, and will culminate in a final report which will summarize the hydraulic and economic effects of implementing each of the evaluated plans. The final report will be required for a public meeting, and the Contractor will provide the necessary exhibits to summarize the computer work for the public meeting. The contractor will attend the public meeting to answer questions from the public on the computer study.

2. REQUIREMENTS

The contractor is required to utilize the new HEC-5 Model. The model will be modified as appropriate to evaluate the six Mississippi River Headwaters lakes operation and related effects on five river control points. The model development will be accomplished on the Lawrence-Berkely-Lab system or in-house Harris 500 computer system, at the discretion of the contractor. However, the final model will in any event be transferred to the Harris 500 system for subsequent use by the St. Paul District, after completion of this contract.

The contractor is required to utilize the modified HEC-5 computer model to reevaluate four operating plans previously prepared for the six Mississippi River headwaters dams and evaluate six new operating plans as described in Exhibit 1 attached, and to prepare a summary report. The summary report is required by the government to aid in preparing a stage III feasibility report. The summary report will be completed by November 1981.

The contractor will also conduct and summarize the results of a sensitivity analysis involving the HEC-5 model. The sensitivity analysis will determine how a modification to the six lake area-capacity curves would impact on the downstream control points for the evaluated operating plans. Based on the sensitivity analysis, the contractor will make a recommendation as to the need for a field survey to more accurately define the area-capacity curves presently in use.

3. POLICY GUIDELINES

Technical factors will be given adequate consideration in the application of the HEC-5 computer program to the operating plans evaluated for the six Mississippi River Headwaters Dams and five downstream control points (see exhibit 2). Flow data for all control points and elevation or stage data for the six headwaters lakes and Aitkin are available on tape, as developed by the University of Minnesota's St. Anthony Falls Hydraulic Laboratory (SAFHL). The required work will utilize existing data to the greatest extent possible.

4. DATA FURNISHED BY THE GOVERNMENT

- a. January 1977 Plan of Study.
- b. August 1979, Report and Appendixes by the St. Anthony Falls Hydraulic Laboratory, "The Effects of Different Operating Plans for the Six Mississippi River Headwaters Dams, Part I."
- c. September 1979, Report and Appendixes by the St. Paul District, Corps of Engineers, "Mississippi River Headwaters Lakes Study."
- d. Revised elevation-damage curves or data for eight required damage control points.

e. HEC-5c model on tape, computer cards, and computer output in binders. (This material was developed in a 1977-1979 analysis of four operating plans by the St. Anthony Falls Hydraulic Laboratory.) The HEC-5c model data are provided only to familiarize the contractor with the prior work completed under contract. The contractor must use the new version of HEC-5 as previously discussed under section 2, "Requirements."

f. Copies of other reference material, maps, and plates relevant to the study and available to the St. Paul District.

g. Access code and account number with the Lawrence-Berkeley Laboratory in California for the contractor's use. (The government will absorb the computer charges for all work required under this scope of work.)

5. STUDY REQUIREMENTS

a. Conferences and Meetings: The contract price will include six meetings with the Contracting Officer's representative during completion of the contract. The contractor's representative shall attend these meetings and present data as required. Four of the six meetings would be held in St. Paul and two at the HEC office in Davis, California.

b. Computations, Working Drawings, and Supporting Data: Computations, working drawings, and supporting data will be developed, as specified in other sections of this appendix, to the detail that they will form a sound basis for conclusions reached on the hydraulic effects of various operating plans and permit adequate detailed review by the Contracting Officer.

The contractor will provide the Contracting Officer with a copy of the HEC-5 computer output at the completion of runs for each operating plan. This output is required for review by the St. Paul District's Hydrology Section. This output should be put on file on the Harris System, to be assessed by District personnel directly after being informed by the contractor that the run is complete. All computations, working drawings, renderings, and supporting data developed during the preliminary and final study efforts will become the property of the Government and will be furnished to the Contracting Officer.

c. Report Documents: The general format and outline of the required report will be the responsibility of the contractor. The contractor will develop a report outline and draft sections of the report and furnish them to the Contracting Officer for review. The draft sections will be double-spaced but otherwise will follow the format and coverage as best suited to presenting the study results.

After review, the Contracting Officer will indicate items requiring revision, and the contractor will edit and make the necessary changes and prepare the corrected draft sections previously submitted. The final preparation, printing, and assembly of the required report will be accomplished by the contractor.

At least 25 copies of the study report will be prepared by the contractor and submitted to the Contracting Officer. The report should be bound in final (single-spaced form) with all maps, photographs, figures, and tables included. The report pages will be 8½ by 11 inches or suitable multiple measurements of these dimensions, and be capable of being xeroxed.

d. Government Review: In addition to a monthly review and analysis meeting, Government formal review will take place upon completion of the report.

6. SCHEDULE

The required work will be submitted according to the following schedule:

<u>Item</u>	<u>Draft</u>	<u>Final or Completion Date</u>
- Model development	-	June 1981
- Reevaluate four operating plans	-	July 1981
- Evaluate six new plans	-	September 1981
- Sensitivity analysis	-	October 1981
- Report	October 1981	November 1981

7. REVISIONS

The Contractor will incorporate suggestions or changes to working drawings, computations, and draft reports as determined necessary by the Contracting Officer at the various review points. Costs of these revisions will be included in the contract price.

REQUIRED COMPUTER PROGRAM STUDY
FOR MISSISSIPPI RIVER HEADWATERS

1. STUDY OBJECTIVE

a. Reevaluate four operating plans that were developed for the six Mississippi River Headwaters Lakes by the University of Minnesota's St. Anthony Falls Hydraulic Laboratory in 1979. The reevaluation will consist of rerunning the four operating plans using the new HEC-5 model with any modifications deemed necessary by the contractor.

b. Evaluate six new operating plans for the six Mississippi River headwaters lakes as identified in paragraph 6 of this exhibit and as further detailed by the Government during the course of the contract.

2. NUMBER OF CONTROL POINTS

There are 11 control points. (This includes each of the six Mississippi River Headwaters Dams and five downstream locations shown on Exhibit 2. The five downstream locations are Libby, Aitkin, Royalton, Anoka, and St. Paul U.S. Geological Survey gages.).

3. PERIOD EVALUATED

1932 to 1976 inclusive.

4. NUMBER OF RESERVOIRS

The six headwaters lakes: Winnibigoshish, Leech, Pokegama, Sandy, Pine River, and Gull Lakes.

5. DURATION OF INTERVAL

Same as previous study by SAFHL. Normally 30 days except for high-flow periods when daily intervals are used.

6. NUMBER OF OPERATING PLANS (NUMBER OF RUNS)

a. Reevaluation (four runs to include update of earlier version of present, low, high, and natural plans).

b. Evaluation of six new plans as follows:

(1) A minimum guaranteed flow of 2,275 cfs at Anoka. - In letters dated 2 May 1978, the Environmental Protection Agency and the Metropolitan Waste Control Commission have both requested evaluation of an alternative with flows of approximately this magnitude. This alternative would ensure 1,875 cfs at St. Paul after Twin City water withdrawals are made. This would be a combined water supply and water quality alternative for supplying year 2000 water needs identified by the June 1977 Minneapolis-St. Paul Level B Study.

(2) A minimum guaranteed flow of 4,200 cfs (1970) and a minimum guaranteed flow of 4,800 cfs (2015) at Anoka. - In a letter dated 23 May 1978, the Metropolitan Council requested the Corps of Engineers to evaluate a plan which would provide 4,000 cfs at St. Paul (in addition to Twin City water withdrawals). A 4,000-cfs guaranteed minimum low flow at St. Paul would require a delivered flow at Anoka of 4,200 cfs in 1970 and 4,800 cfs in 2015. The purpose of the guaranteed St. Paul low flow of 4,000 cfs would be to provide an assured water supply and water quality improvement in the Twin Cities area and to decrease the required level of sewage treatment (for example, 1983 water quality standards could possibly be maintained without tertiary treatment if the St. Paul 7-day 10-year low flow were equal to 4,000 cfs or 5,000 cfs).

(3) A plan that would optimize hydropower production.

(4) A plan that would minimize lake property damages.

(5) An environmental or conservation plan.

(6) A plan that would allow a Sandy Lake drawdown to normal spring level and then gradually open Sandy Lake control gates to maintain the spring drawdown level. As the Mississippi River rises and Sandy Lake and the Mississippi

River are equalized, the control gates at Sandy Lake are left wide open to allow the Mississippi River and Sandy Lake to rise together.

Details of the above six plans will be supplied by the Government as required by the contractor.

7. STUDY PRODUCTS

In general, the study products will be similar to those generated in the earlier August 1979 study by the SAFHL with one major exception. The number of graphical plots will be less. Principal products will be as follows:

a. Plots of both low- and high-stage frequency curves for each of the six headwaters reservoirs for the period 1932-1976 for each of the operating plans investigated. The curves should be developed for the recreation season 1 May to 30 September.

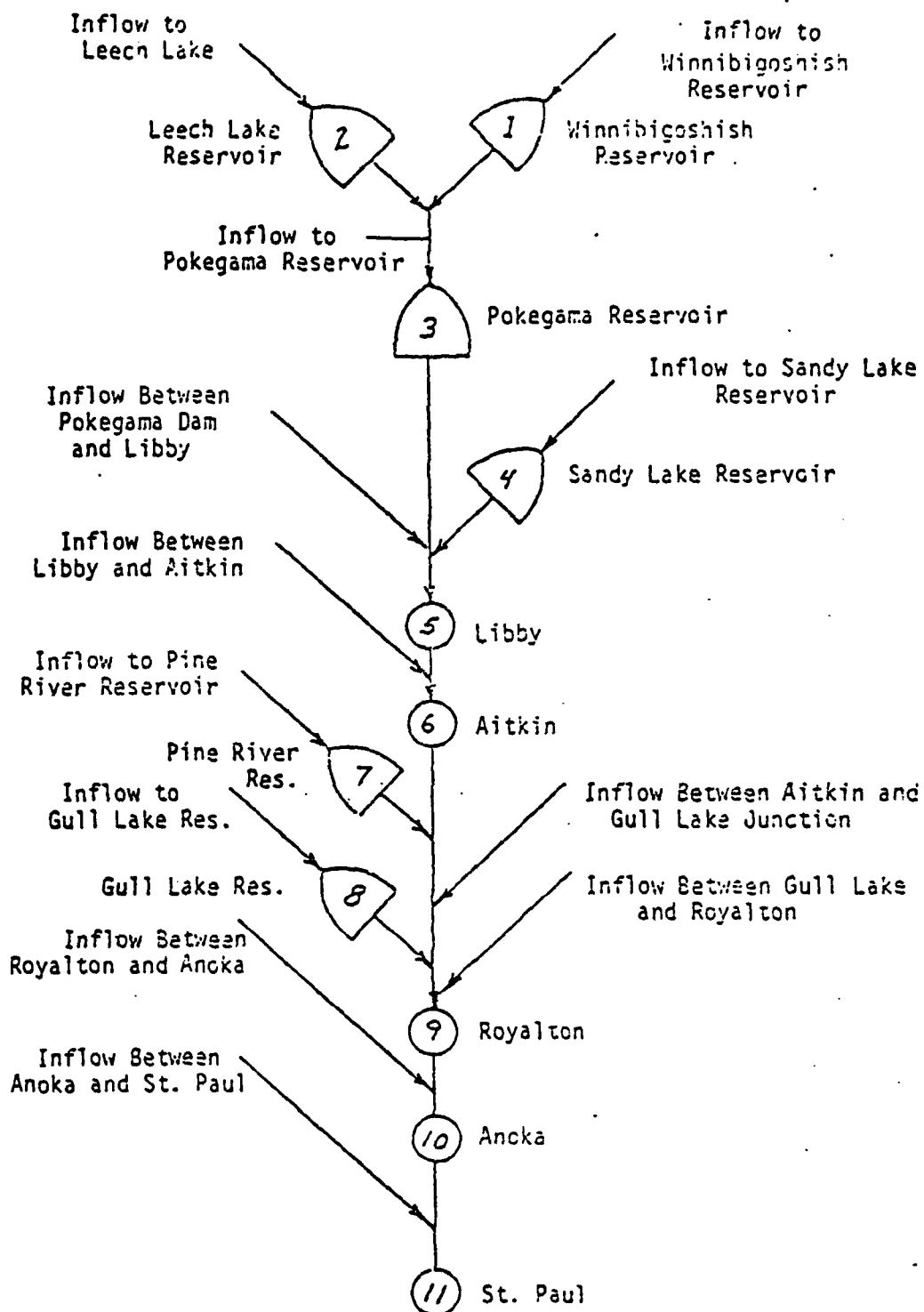
b. Plots of high-flow frequency curves at Aitkin, Minnesota, and plots of low-flow frequency curves at the St. Paul gage for the period 1932-1976 for each of the plans investigated. The curves would be developed for the recreation season 1 May to 30 September.

c. Summary comparison of average annual damages for each of the six headwaters lakes. Aitkin and St. Paul for the 10 operating plans in tabular form.

d. Computer print-outs standard to the HEC-5 program, which are essential to the development of items a. through c. above.

e. A summary report which would include, but not be limited to, the items in a. through d. above.

f. Plots of 10 operating plans at the St. Paul gage, Aitkin, and at each of the six headwaters lakes for the period 1930 to 1976 are desirable. These plots are to be developed by computer in accordance with d. above.



Schematic Representation of
Mississippi River Headwaters

Computer Model

EXHIBIT 2

SCOPE OF WORK MODIFICATIONS

The scope of work was modified during the course of the study to reflect changes in the schedule and the study's objectives, primarily as a result of the delays and problems caused by HEC-5 related errors.

A summary of these modifications follows:

<u>Date</u>	<u>Modification</u>
06-17-81	1. Change period of record for HEC-5 analysis to include 1930 and 1931. 2. Eliminate separate analysis of Plan 7 (Hydro-power Plan), which is identical to Plan 6.
10-20-81	1. Change project completion date to 31 January 1982.
01-13-82	1. Change project schedule to: (a) submit draft report: 1 February 1982 (b) submit final report: 31 March 1982 (c) project completion date: 30 June 1982
04-09-82	1. Limit Plan 10 results to a discussion of procedures. No calculations will be made. 2. Limit future trips to St. Paul to June meeting to discuss report and project results and implementation of HEC-5 on St. Paul's Harris computer. No additional trips for further discussions or public meetings will be required unless funded separately. 3. Change project schedule to: (a) submit draft report: 14 May 1982 (b) submit final report: 18 June 1982

APPENDIX B

MERGE PROGRAM DOCUMENTATION

APPENDIX B
MERGE PROGRAM DOCUMENTATION

The Merge program takes monthly and daily data from HEC-DSS for select periods, compares the monthly and daily values, and replaces the monthly value with the largest daily value for the month if it is greater than the monthly value. This program has been used for this comparison and replacement of elevation data for the six reservoirs at the headwaters of the Mississippi River and high flow data at Aitkin, MN.

The documentation of the Merge program is presented in the following order:

- (1) merge-related files on the HEC Harris computer
- (2) input description
- (3) sample input sequence.

Merge files on the HEC Harris computer:

MERGE source code to access DSS and create new
 monthly file
MERGEX compilation of MERGE
MJCL1* JCL to execute MERGEX for Plan 1
MPLAN1* input sequence for Plan 1
MOUT1* output results for Plan 1

*Note: There is one set of JCL, input, and output for each plan studied.

INPUT DATA (10 Fields of 8 Columns Each)

A. TITLE CARDS

T1 Job & Run Title
T2
T3

B. JOB CARDS

J1 Card

<u>Field</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
1	NCP	+	Total number of Control Points (CP Cards) that require data merging

2	NFLOOD	+	Total number of daily flood events that will be merged into monthly time series
---	--------	---	---

3	IPRINT	0	Full output
		1	Reduced output

C. CONTROL POINT CARDS NCP sets required (J1.1)

CP Card

<u>Field</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
1	MCP(ICP)	+	Any integer id. no. (same as HEC-5 values) (must be less than 12) (ICP = 1, NCP)

CR Card

1,2	CR(MM,4)	A	Basic parameter of the data (C part of pathname) ELEV or FLOW-REG
-----	----------	---	---

ID Card

1,2	BR(MM,4)	A	Basic location identification of the data (B part of pathname) (use same as ID cards in HEC-5)
-----	----------	---	--

D. HEC-DSS CARDS

ZR Card

1,2	A(4)	A	"A" part of pathname for general grouping of data (corresponds to A part of pathname on HEC-5 run ZW card)
3,4	F(4)	A	"F" part of pathname used for further qualification of data (corresponds to F part of pathname on HEC-5 run ZW card)

ZW Card

1,2	AW(4)	A	Same as ZR card
3,4	FW(4)	A	Same as ZW card with additional letter "R" as last character of pathname part F

E. TIME SERIES DATA CARDS

DM Card (Monthly Time Series)

1	Blank		
2	SMON	A	military date of starting month in monthly time series
3	EMON	A	military date of ending month in monthly time series

DD Card (Daily Time Series) NFLOOD (CP.2) cards required

<u>Field</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
1	NFLD	1 to NFLOOD	Number of this daily flood event (sequential for each DD card)
2	SDAY(NFLD) A		military date of starting day in monthly time series
3	EDAY(NFLD) A		military date of ending day in monthly time series

EJ Card end job card.

MERGE Sample Input Sequence

```

T1 MISSISSIPPI RIVER HEADWATERS STUDY - ST. PAUL DISTRICT ANCO JOB NO 3781
T2 MERGE PROGRAM: COMPARISON OF MONTHLY AND DAILY VALUES IN DSS (01/27/82)
T3 PRESENT OPERATING PLAN - PLAN 1
J1 7 20 0
CP 1
CR C= ELEV,
ID B= WINNI RES.,
CP 2
CR C= ELEV,
ID B= LEECH RES.,
CP 3
CR C= ELEV,
ID B= POKEGAMA RES.,
CP 4
CR C= ELEV,
ID B= SANDY RES.,
CP 7
CR C= ELEV,
ID B= PINE RES.,
CP 8
CR C= ELEV,
ID B= GULL RES.,
CP 6
CR C= FLOW-REG,
ID B= AITKIN,
ZR A= STPAUL, F= PLAN1,
ZW A= STPAUL, F= PLAN1R,
DM 01JAN1930 31DEC1976
DD 1 01MAY1938 31MAY1938
DD 2 01APR1941 31MAY1941
DD 3 01JUN1943 31JUL1943
DD 4 01JUN1944 31JUL1944
DD 5 01MAR1945 31MAY1945
DD 6 01APR1948 31MAY1948
DD 7 01APR1950 30JUN1950
DD 8 01APR1952 31AUG1952
DD 9 01JUL1953 31AUG1953
DD 10 01APR1954 30JUN1954
DD 11 01APR1956 31MAY1956
DD 12 01APR1965 30JUN1965
DD 13 01APR1966 31MAY1966
DD 14 01APR1967 31MAY1967
DD 15 01APR1969 31MAY1969
DD 16 01APR1970 31MAY1970
DD 17 01APR1971 31MAY1971
DD 18 01APR1972 31MAY1972
DD 19 01APR1974 30JUN1974
DD 20 01APR1975 31MAY1975
EJ

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COST PROGRAM DOCUMENTATION

The Cost program takes monthly data from HEC-DSS, compares the monthly values with a minimum flow requirement, and calculated the cost of not meeting this requirement. This program has been used for this cost analysis of streamflow data at Anoka, MN.

The documentation of the Cost program is presented in the following order:

- (1) cost-related files on the HEC Harris computer
- (2) input description
- (3) sample input sequence.

Cost files on the HEC Harris computer:

COST	source code to access DSS and calculate cost of failing to meet minimum flow requirements
COSTX	compilation of COST
CJCL1*	JCL to execute COSTX for Plan 1
CPLAN1*	input sequence for Plan 1
COUT1*	output results for Plan 1

*Note: There is one set of JCL, input, and output for each plan studied.

INPUT DATA (10 Fields of 8 Columns Each)

A. TITLE CARDS

T1 Job & Run Title
T2
T3

B. JOB CARDS

J1 Card

<u>Field</u>	<u>Variable</u>	<u>Value</u>	<u>Description</u>
1	MFLOW	+	Minimum streamflow requirement at Anoka (cfs)

2 COST + Cost of not meeting minimum flow requirement (\$/cfs-day)

C. CONTROL POINT CARDS

CR Card

1,2 C (4) A Basic parameter of the data (C part of pathname) FLOW-REG

ID Card

1,2 B (4) A Basic location identification of the data (B part of pathname) (use same as ID cards in HEC-5)

D. HEC-DSS CARDS

ZR Card

1,2 A(4) A "A" part of pathname for general grouping of data (corresponds to A part of pathname on HEC-5 run ZW card)

3,4 F(4) A "F" part of pathname used for further qualification of data (corresponds to F part of pathname on HEC-5 run ZW card)

E. TIME SERIES DATA CARDS

DM Card (Monthly Time Series)

1 Blank

2 SMON A military date of starting month in monthly time series

3 EMON A military date of ending month in monthly time series

EJ Card end job card.

T1 MISSISSIPPI RIVER HEADWATERS STUDY - ST. PAUL DISTRICT ANCO JOB NO 3781
T2 COST PROGRAM: CALCULATION OF COST OF MIN FLOW AT ANOKA (04/12/82)
T3 PRESENT OPERATING PLAN - PLAN 1
J1 4800 385
CR C= FLOW-REG,
ID B= ANOKA,
ZR A= STPAUL, F= PLAN1,
DM 01JAN1930 31DEC1976
EJ

APPENDIX C

FATSO PROGRAM DOCUMENTATION

INPUT DESCRIPTION
FREQUENCY ANALYSIS OF TIME SERIES OBSERVATIONS
(FATSO)

TT CARD - TITLE INFORMATION

FIELD	VARIABLE	VALUE	DESCRIPTION
1-10	ITIT	ALPHA	ALPHANUMERIC INFORMATION TO IDENTIFY THE JOB. AS MANY TT CARDS MAY BE PROVIDED AS NECESSARY TO INPUT THE DESIRED DESCRIPTIVE INFORMATION. THE FIRST THREE CARDS ARE STORED FOR SUBSEQUENT LABELS.

J1 CARD - JOB SPECIFICATIONS (REQUIRED CARD)

FIELD	VARIABLE	VALUE	DESCRIPTION
1	JSTAT	+	STATISTICAL ANALYSIS OPTIONS. THE SUM OF THE FOLLOWING OPTIONS WILL GOVERN THE NUMBER AND KIND OF STATISTICAL ANALYSES THAT ARE PERFORMED ON THE DATA.
		1	ANALYTICAL FREQUENCY ANALYSIS.
		2	GRAPHICAL FREQUENCY ANALYSIS.
		4	DURATION ANALYSIS.
		8	MONTHLY MEANS OF DATA BY YEAR AND STATISTICS OF MONTHLY AND ANNUAL MEANS. STATISTICS INCLUDE MEAN, STANDARD DEVIATION, SKEW, MAXIMUM AND MINIMUM.
2	NPRDS	+	NOMINAL NUMBER OF PERIODS IN EACH EVENT, E.G., 365 IF DAILY DATA AND THE EVENT IS A YEAR, OR 12 IF MONTHLY DATA.
3	NYRS	+	NUMBER OF YEARS REPRESENTED BY THE EVENTS. MAY BE LEFT BLANK IF NYRS IS EQUAL TO THE NUMBER OF INPUT EVENTS.
4	JSTPD (1)	+	MONTH ORDER NUMBER OF FIRST PERIOD IN EACH EVENT, E.G. 1 FOR JAN, 10 FOR OCT, ETC. THIS VALUE IS USED TO SPECIFY THE WATER YEAR. IF BLANK, 1 IS ASSUMED.
5	JBEGN	+	ORDER NUMBER OF FIRST PERIOD IN EACH EVENT TO SELECT FOR ANALYSIS. IF BLANK, PERIOD 1 IS ASSUMED. JBEGN AND JEND ARE USED TO SELECT A SPECIFIC SET OF SEQUENTIAL PERIODS FROM EACH EVENT.

J1 CARD (CONTINUED)

FIELD	VARIABLE	VALUE	DESCRIPTION
6	JEND	+	ORDER NUMBER OF LAST PERIOD IN TIME SERIES TO SELECT FOR ANALYSIS. IF BLANK, THE LAST PERIOD IS ASSUMED.
7	JPPF (2)		PLOTTING POSITION FORMULA OPTION.
		1	WEIBULL PLOTTING POSITIONS.
		2	MEDIAN (BEARD) PLOTTING POSITIONS.
		3	HAZEN PLOTTING POSITIONS.
8	MONSS (0)		SUPPRESS SELECTED STATISTICS OF MONTHLY MEANS. SUM THE FOLLOWING DESIRED CODES:
		0	NO STATISTICS SUPPRESSION.
		1	SUPPRESS PRINTOUT OF THE MEAN.
		2	SUPPRESS PRINTOUT OF THE STANDARD DEVIATION.
		4	SUPPRESS PRINTOUT OF THE SKEW COEFFICIENT.
		8	SUPPRESS PRINTOUT OF THE MAXIMUMS.
		16	SUPPRESS PRINTOUT OF THE MINIMUMS.
8	LOGTH (0)		LOGARITHMIC TRANSFORMATION INDICATOR FOR STATISTICS OF THE MONTHLY MEANS.
		-1	USE SAME TRANSFORMATION AS LOGT (LS.3).
		0	NO TRANSFORMATION.
		1	LOG (BASE 10) TRANSFORMATION.
10	NDECH (0)		NUMBER OF DECIMAL PLACES FOR TABLE OF MONTHLY MEANS.
		-1	USE SAME NUMBER AS NDEC (LS.4).
		+	0, 1, 2, OR 3 ALLOWED. IF LOGTH (J1.9) SPECIFIES A LOG TRANSFORM, THE MEAN, STANDARD DEVIATION, AND SKEW WILL BE PRINTED WITH 4 DECIMAL PLACES.

ID CARD - LOCATION IDENTIFICATION (REQUIRED CARD)

FIELD	VARIABLE	VALUE	DESCRIPTION
1-10	ISTA	ALPHA	ALPHANUMERIC INFORMATION SUCH AS LOCATION IDENTIFICATION, STATION NUMBER, ETC. ALTHOUGH COLUMNS 3-80 MAY BE USED, ONLY COLUMNS 3-48 ARE PRINTED AS TABLE HEADINGS.

LS CARD - LOCATION SPECIFICATIONS (OPTIONAL CARD)

FIELD	VARIABLE	VALUE	DESCRIPTION
1	IANAL (0)		DATA SELECTION OPTION FOR FREQUENCY ANALYSIS SPECIFIED BY J1.1.
		0	ALL DATA IN EACH EVENT WILL BE ANALYZED.
		1	ANALYZE THE MAXIMUM VALUES SELECTED FROM EACH EVENT.
		2	ANALYZE THE MINIMUM VALUES SELECTED FROM EACH EVENT.
		3	ANALYZE BOTH MAXIMUM AND MINIMUM VALUES FROM EACH EVENT.
		4	ANALYZE ANNUAL VOLUME-DURATION DATA. (NOT PROGRAMMED YET)
2	NAME (FLOW,CFS)	ALPHA	VARIABLE NAME AND/OR UNITS TO BE USED FOR TABLE AND GRAPH HEADINGS.
3	LOGT (1)		LOGARITHMIC TRANSFORMATION INDICATOR FOR FREQUENCY ANALYSES.
		-1	NO TRANSFORMATION.
		0,1	LOG (BASE 10) TRANSFORM.
4	NDEC (0)	+	NUMBER OF DECIMAL PLACES TO PRINT IN TABLES OF PLOTTING POSITIONS AND FREQUENCY CURVE ORDINATES - 0, 1, 2, OR 3 ALLOWED.
5	NSIG (3)		NUMBER OF SIGNIFICANT FIGURES IN PRINTOUT OF COMPUTED FREQUENCY CURVE ORDINATES.
		-1	NO ROUNDING WILL BE DONE.
		0	DEFAULT OF THREE SIGNIFICANT FIGURES.
		+	ROUND VALUES TO NSIG SIGNIFICANT FIGURES.

LS CARD (CONTINUED)

FIELD	VARIABLE	VALUE	DESCRIPTION
6	IPRNT (0)	+	THE SUM OF THE FOLLOWING PRINTOUT SUPPRESSION OPTIONS WILL CONTROL THE AMOUNT OF OUTPUT AND DIAGNOSTIC INFORMATION.
		0	STANDARD OUTPUT WILL NOT BE SUPPRESSED AND NO DIAGNOSTIC INFORMATION WILL BE OUTPUT.
		1	SUPPRESS LISTING OF THE INPUT TIME SERIES DATA.
		2	SUPPRESS PRINTOUT OF PLOTTING POSITION TABLE.
		4	SUPPRESS PRINTOUT OF FREQUENCY CURVE ORDINATES.
		8	SUPPRESS PRINTOUT OF FREQUENCY STATISTICS.
		16	SUPPRESS FREQUENCY CURVE PRINTER PLOT.
		128	PROVIDE DIAGNOSTIC OUTPUT AT VARIOUS STEPS OF INTERPOLATION FOR FREQUENCY CURVE ORDINATES.

FR CARD - INPUT EXCEEDANCE FREQUENCIES (OPTIONAL CARD)

THIS OPTIONAL CARD SPECIFIES PERCENT CHANCE EXCEEDANCE (EXCEEDANCE FREQUENCY) VALUES OTHER THAN THE FOLLOWING 12 DEFAULT VALUES OF - 0.2, 0.5, 1, 2, 5, 10, 20, 50, 80, 90, 95, AND 99.

FIELD	VARIABLE	VALUE	DESCRIPTION
1	--	--	NOT USED
2	NFRQ (12)	+	NUMBER OF PERCENT CHANCE EXCEEDANCE VALUES FOR WHICH TO COMPUTE FREQUENCY CURVE ORDINATES. DIMENSIONED FOR A MAXIMUM OF 18 VALUES.
3-10	FREQ (SEE ABOVE)	+	PERCENT CHANCE EXCEEDANCE VALUES. IF THERE ARE MORE THAN 8 VALUES, THE 9TH VALUE MUST BE IN THE FIRST FIELD OF THE SECOND FR CARD.

SC CARD - SPECIFIED COORDINATES (OPTIONAL CARD)

FIELD	VARIABLE	VALUE	DESCRIPTION
1	NSCV (0)	+	NUMBER OF PAIRS OF SPECIFIED COORDINATES. DIMENSIONED FOR 4.
2	XSC	+	PERCENT CHANCE EXCEEDANCE FOR THE FIRST COORDINATE.
3	YSC	+	CORRESPONDING VALUE OF THE RESPONSE VARIABLE, FOR EXAMPLE FLOW, STAGE, ETC.
4-9	XSC,YSC	+	REMAINING PAIRS OF DATA.
10	--	--	NOT USED.

CL CARD - CLASS LIMITS FOR DURATION ANALYSIS (OPTIONAL CARD)

THIS CARD SPECIFIES THE NUMBER OF CLASSES AND THE LOWER LIMIT FOR EACH CLASS. DEFAULT VALUES ARE NOT YET AVAILABLE.

FIELD	VARIABLE	VALUE	DESCRIPTION
1	NCLV	+	NUMBER OF CLASS LIMIT VALUES. DIMENSIONED FOR 59.
2	CLV	+	THE LOWEST VALUE (CLASS LIMIT) TO BE INCLUDED IN CLASS 1. SMALLER VALUES WILL BE ASSIGNED TO CLASS ZERO (0).
3-10	CLV	+	REPEAT AS REQUIRED BY NCLV. IF THERE ARE MORE THAN 9 VALUES, THE 10TH VALUE WILL BEGIN IN THE FIRST FIELD OF THE NEXT CARD.

RV CARD - REVISION OF INPUT DATA (OPTIONAL CARD)

THIS CARD IS USED TO MODIFY A SET OF DATA BY THE ADDITION OR MULTIPLICATION OF THE SPECIFIED CONSTANT.

FIELD	VARIABLE	VALUE	DESCRIPTION
1	IFUNC		MATHEMATICAL OPERATION TO PERFORM ON DATA.
		1	ADD THE QUANTITY CONST (RV.2) TO EACH DATA VALUE.
		2	MULTIPLY THE QUANTITY CONST (RV.2) BY EACH DATA VALUE.
2	CONST	+	THE VALUE WHICH WILL BE USED IN THE OPERATIONS SPECIFIED BY IFUNC (RV.1).

ZR CARD - DSS READ PATHNAME (OPTIONAL CARD)

THIS CARD SPECIFIES THE PATHNAME OF DATA TO BE ACQUIRED FROM THE DATA STORAGE SYSTEM (DSS). THE PROGRAM WILL CREATE 'IN' CARDS TO BE PROCESSED BY THE ANALYSIS PORTION OF THE PROGRAM.

FIELD	VARIABLE	VALUE	DESCRIPTION
1-10	(PATHNAME)	ALPHA	ALPHANUMERIC PATHNAME OF FILE AS GENERATED BY HEC DSS. USE THE FOLLOWING FORMAT BEGINNING IN COLUMN 2: A=PROJECT B=LOCATION C=PARAMETER, ETC. WHEN SUCCESSIVE ANALYSES ARE MADE, ONLY THE PATHNAME PARTS THAT CHANGE NEED TO BE PROVIDED.

ZT CARD -- DSS TIME AND DATES (OPTIONAL CARD)

THIS CARD IS USED TO SPECIFY THE STARTING AND ENDING TIMES AND DATES FOR THE DATA TO BE ACQUIRED FROM DSS. THIS CARD MUST BE PROVIDED AFTER THE FIRST ZR CARD ONLY AND ALL TIMES AND DATES REMAIN FIXED UNTIL A EJ CARD IS ENCOUNTERED.

FIELD	VARIABLE	VALUE	DESCRIPTION
1	ITIMST	+	STARTING TIME IN HOURS AND MINUTES IN 24-HOUR TIME, E.G. 1305 FOR 5 MINUTES AFTER 1 PM. USE ZERO (0) FOR DAILY, MONTHLY, OR ANNUAL DATA.
2-3	IDATST	ALPHA	STARTING DATE FOR ANALYSIS IN MILITARY STYLE, E.G. 01JAN1933. LOCATE WITHIN COLUMNS 13 TO 24.
4	ITIMEN	+	ENDING TIME IN MINUTES (24-HOUR TIME).
5-6	IDATEN	ALPHA	ENDING DATE FOR ANALYSIS IN MILITARY STYLE. LOCATE WITHIN COLUMNS 37-48.

ZW CARD - DSS WRITE PATHNAME (OPTIONAL CARD)
(WILL BE FORMATTED LATER)

BF CARD - BEFORE DATA (OPTIONAL CARD)

THIS CARD IS USED TO SPECIFY INPUT DATA FORMATS (OTHER THAN THE DEFAULT) AND VARIABLE NUMBER OF PERIODS IN EACH EVENT.

FIELD	VARIABLE	VALUE	DESCRIPTION
1	IFMT (1)	0	NOT PROGRAMMED YET
		1	DATA WILL BE INPUT WITH 12 VALUES ON EACH CARD (USEFUL FOR MONTHLY DATA). COLS 3-6 ARE FOR AN OPTIONAL INTEGER LOCATION NUMBER, COLS 7-8 ARE FOR THE LAST TWO DIGITS OF THE YEAR, AND COLS 9-80 ARE FOR 12 DATA VALUES IN EACH 6 COLUMN FIELD.
		2	DATA WILL BE INPUT WITH THE FIRST 'IN' CARD CONTAINING AN INTEGER LOCATION NUMBER IN COLS 3-8 AND THE STARTING YEAR IN COLS 13-16. THE DATA WILL FOLLOW ON SUCCESSIVE 'IN' CARDS IN 10 FIELDS OF 8 COLS EACH.
		3	THIS FORMAT IS GENERATED BY THE PROGRAM WHEN THE DATA READ FROM DSS ARE MONTHLY VALUES.
		4	THIS FORMAT IS GENERATED BY THE PROGRAM WHEN THE DATA READ FROM DSS ARE DAILY VALUES.
2	NPRDS	+	ACTUAL NUMBER OF PERIODS FOR AN EVENT ON FOLLOWING 'IN' CARDS UNTIL NEXT ID, BF, OR EJ CARD.

IN CARD - TIME SERIES DATA (REQUIRED CARD EXCEPT WHEN DATA COMES FROM DSS)

THESE CARDS ARE USED TO INPUT THE TIME SERIES INFORMATION. IF THE DATA ARE INPUT VIA DSS, THESE CARD IMAGES WILL BE GENERATED BY THE PROGRAM.

(NOTE - FOR FORMAT, SEE BF CARD DESCRIPTION)

EJ CARD - END OF JOB INDICATOR (REQUIRED BETWEEN JOBS)

BF CARD - BEFORE DATA (OPTIONAL CARD)

THIS CARD IS USED TO SPECIFY INPUT DATA FORMATS (OTHER THAN THE DEFAULT) AND VARIABLE NUMBER OF PERIODS IN EACH EVENT.

FIELD	VARIABLE	VALUE	DESCRIPTION
1	IFMT (1)	0	NOT PROGRAMMED YET
		1	DATA WILL BE INPUT WITH 12 VALUES ON EACH CARD (USEFUL FOR MONTHLY DATA). COLS 3-6 ARE FOR AN OPTIONAL INTEGER LOCATION NUMBER, COLS 7-8 ARE FOR THE LAST TWO DIGITS OF THE YEAR, AND COLS 9-80 ARE FOR 12 DATA VALUES IN EACH 6 COLUMN FIELD.
		2	DATA WILL BE INPUT WITH THE FIRST 'IN' CARD CONTAINING AN INTEGER LOCATION NUMBER IN COLS 3-8 AND THE STARTING YEAR IN COLS 13-16. THE DATA WILL FOLLOW ON SUCCESSIVE 'IN' CARDS IN 10 FIELDS OF 8 COLS EACH.
		3	THIS FORMAT IS GENERATED BY THE PROGRAM WHEN THE DATA READ FROM DSS ARE MONTHLY VALUES.
		4	THIS FORMAT IS GENERATED BY THE PROGRAM WHEN THE DATA READ FROM DSS ARE DAILY VALUES.
2	NFRDS	+	ACTUAL NUMBER OF PERIODS FOR AN EVENT ON FOLLOWING 'IN' CARDS UNTIL NEXT ID, BF, OR EJ CARD.

IN CARD - TIME SERIES DATA (REQUIRED CARD EXCEPT WHEN DATA COMES FROM DSS)

THESE CARDS ARE USED TO INPUT THE TIME SERIES INFORMATION. IF THE DATA ARE INPUT VIA DSS, THESE CARD IMAGES WILL BE GENERATED BY THE PROGRAM.

(NOTE - FOR FORMAT, SEE BF CARD DESCRIPTION)

EJ CARD - END OF JOB INDICATOR (REQUIRED BETWEEN JOBS)

APPENDIX D

HEC-DSS PROGRAM DOCUMENTATION

HECROSS

HYDROLOGIC ENGINEERING CENTER DATA STORAGE SYSTEM

PREPARED BY

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TYPIST

SHIRLEY SPARKS

THIS PROGRAM AND DOCUMENTATION IS AVAILABLE THROUGH THE COMPUTER
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INTRODUCTION

THIS MANUAL GIVES A DESCRIPTION OF THOSE UTILITIES FOR CREATING AND ACCESSING A DATA BASE SYSTEM WHICH IS WRITTEN IN TRANSPORTABLE FORTRAN. THE DATA STORAGE SYSTEM WAS DEVELOPED AS A STANDARD INTERMEDIARY STORAGE FORMAT BETWEEN VARIOUS WATER RESOURCES MODELING PROGRAMS, BUT IT IS DESIGNED FOR MORE GENERAL APPLICABILITY. THE SYSTEM IS HIERARCHIAL AND UTILIZES PATHNAME STRINGS AS DIRECTORY KEYS.

THE MANUAL IS DIVIDED INTO FOUR SECTIONS:

1. OVERVIEW
2. DSS SYSTEM CALLS
3. INTERNAL DETAILS
4. OTHER AVAILABLE SOFTWARE TOOLS

THE OVERVIEW PROVIDES AN INTRODUCTION TO DSS, THE PHILOSOPHY AND CONVENTIONS, AND ASPECTS PERTAINING TO PORTABILITY OF THE SYSTEM.

THE SYSTEM CALLS ARE USUALLY INVOKED DIRECTLY FROM AN APPLICATION PROGRAM, AND ARE DESCRIBED FOR THE APPLICATION PROGRAMMER TO HELP INTERFACE HIS PARTICULAR PROGRAM TO DSS FILES.

THE INTERNAL DETAILS ARE CONCERNED WITH IMPLEMENTING AND SUPPORTING HECDSS ON A PARTICULAR COMPUTER. IT DISCUSSES THE WORKINGS OF PRIMITIVE SUBROUTINES NOT CALLED DIRECTLY BY THE APPLICATION PROGRAMS.

THE OTHER SOFTWARE TOOLS ARE A SET OF SYSTEM INDEPENDENT PRIMITIVES USEFUL FOR A WIDE VARIETY OF PROGRAMMING APPLICATIONS, ESPECIALLY INVOLVING STRINGS MANIPULATIONS. THE DSS SYSTEM MAKES USE OF THESE PRIMITIVES, AND THEY ARE AVAILABLE TO THE APPLICATION PROGRAMMER AS WELL.

OVERVIEW

ONE OF THE MANY PROBLEMS WHICH PROGRAMMERS AND USERS FACE IS THE LACK OF A STANDARD FILE SYSTEM FROM MACHINE TO MACHINE. MANY ENHANCED VERSIONS OF FORTRAN CONTAIN VARIOUS PROGRAMMING CONSTRUCTS FOR USING RANDOM ACCESS FILES. THE CHARACTERISTICS OF EACH SYSTEM MAY VARY CONSIDERABLY, AND THE ABILITY TO USE VARIABLE LENGTH RANDOM ACCESS RECORDS IS NOT VERY COMMON.

THE TWO MOST COMMON LANGUAGE CONSTRUCTS USED FOR RANDOM INPUT/OUTPUT ARE THE SUBROUTINE CALL AND THE EXTENDED READ/WRITE STATEMENTS. THE SUBROUTINE CALL IS THE METHOD OF CHOICE FOR DSS BECAUSE IT IS SYNTACTICALLY CORRECT IN ALL FORTRAN.

OFTEN A PROGRAMMER IS GIVEN AN ASSIGNMENT WHICH REQUIRES STRUCTURING A DATA BASE, AND THEY ARE CAUGHT IN A DILEMMA OF MAINTAINING FLEXIBILITY AND PORTABILITY WHILE WORKING WITHIN THE CONSTRAINTS OF INSTALLATION SPECIFIC CONVENTIONS. HECDSS WAS IMPLEMENTED IN SUCH A WAY SO THAT NON-STANDARD REQUIREMENTS ARE MINIMIZED AND ISOLATED IN TERMS OF WIDELY SUPPORTED SERVICES, AVAILABLE ON ALL MODERN COMPUTERS. THIS PERMITS THE SYSTEM TO BE IMPLEMENTED WITH VERY LITTLE TROUBLE, WHILE PROVIDING A SOPHISTICATED HIERARCHICAL DATA BASE FACILITY.

A RATIONAL NAMING SYSTEM FOR ACCESS INTO THE DATA BASE WILL HELP TO KEEP THE USERS AWARE OF WHAT INFORMATION IS STORED, AND CONFIDENT THAT THE INFORMATION IS RETRIEVABLE. DSS USES ARBITRARY LENGTH CHARACTER STRINGS FOR RECORD NAMES, WHICH ARE CHOSEN BY THE USER. SINCE THE SYSTEM HAS A HIERARCHICAL DIRECTORY STRUCTURE, IT IS ADVANTAGEOUS TO BOTH THE USER AND DSS FOR THE NAMES TO BE PATHNAMES, THAT IS, CONCATENATED SUBSTRINGS DELIMITED BY A SPECIAL SEPARATOR CHARACTER (USUALLY A SLASH, /). WITH THIS METHOD, THE USER CAN ORGANIZE HIS RECORDS BY GROUPING SUBNAMES, INCREASINGLY SPECIFIC TO THE RIGHT. FOR EXAMPLE,

```
/JOE USER/PROJECTA/STEP 2/DATATYPE III/  
/JOE USER/PROJECTA/STEP 4/DATATYPE V/
```

DSS PROVIDES A SIMPLE PATHNAME FORMING SUBROUTINE, ZFPN, WHICH PROVIDES THE DELIMITER AND CONCATENATES THE NAME PARTS. ALL CHARACTER STRING MANIPULATION TRANSPARENTLY UTILIZES LOCAL MACHINE WORD SIZE.

HECDSS IS CAPABLE OF MAINTAINING SEVERAL OPEN FILES CONCURRENTLY. ONE OF THE DESIGN DECISIONS WAS THAT USER PROGRAMS SHOULD NOT BE PENALIZED FOR SPACE IF THEY DID NOT USE MULTIPLE FILES. THEREFORE, A USER PROGRAM LOCAL HOST ARRAY IS USED FOR MAINTAINING A FILE TABLE FOR EACH FILE. THE DONATED AREA, DIMENSIONED WITHIN THE PROGRAM WHICH CALLS THE DSS, MUST NOT BE USED WHILE THE CORRESPONDING FILE IS OPEN. IT TYPICALLY USES ABOUT 1200 MACHINE WORDS FOR EACH CONCURRENT FILE. USING THIS METHOD, IT IS POSSIBLE TO MANIPULATE AN

ARBITRARY NUMBER OF FILES FOR SUCH TASKS AS MERGING AND COPYING.
THIS HOST ARRAY IS NAMED IFLTAB IN THE SUBROUTINE DESCRIPTIONS BELOW.

THREE ITEMS MAKE UP A DSS RECORD. EVERY RECORD HAS A USER
SUPPLIED NAME, WHICH IS A CHARACTER STRING ARRAY WITH A KNOWN NUMBER
OF CHARACTERS. RECORDS MAY OPTIONALLY HAVE A DATA LIST AND A HEAD
LIST. THE DATA IS AN ARRAY OF THE INFORMATION, TYPICALLY A LIST OF
NUMBERS, WHICH THE USER WANTS TO SAVE. HEAD IS AN ADDITIONAL ARRAY
WHICH CONTAINS AS MUCH ASSOCIATED INFORMATION AS NEEDED BY THE USER,
TYPICALLY DIMENSIONS OR DATA UNITS AND TYPES.

IF DSS FILES ARE TO BE SAVED BETWEEN PROGRAM RUNS, THE LOCAL JOB
CONTROL LANGUAGE AND STORAGE MEDIUMS MUST BE USED. HOWEVER, ON SOME
SYSTEMS, IT MAY BE POSSIBLE TO IMPLEMENT AUTOMATIC FILE RETRIEVAL AND
SAVING SERVICES, WHICH WOULD BE ENTIRELY IN LINE WITH THE PHILOSOPHY
BEHIND DSS, TO MAKE RECORD MANAGING AS UNIFORM AND EASY AS POSSIBLE
FOR ITS USERS.

IF A PRE-EXISTING DSS FILE IS ATTACHED TO A PROGRAM EXECUTION,
IT WILL BE RECOGNIZED WHEN IT IS REFERENCED THROUGH THE SYSTEM CALLS
BELOW. IF NO FILE IS ATTACHED, ONE WILL BE CREATED. BY DEFAULT,
INTERNAL LOGICAL UNIT NUMBERS, BEGINNING WITH UNIT 71, 72, ... ARE
ASSIGNED TO EACH FILE. THIS MAY BE OVERRIDDEN BY A SYSTEM CALL TO
USE ANY LOCALLY LEGAL NAME.

***** PREFACE TO VERSION 4:0 *****

VERSION 4:0 DIFFERS FROM THE PREVIOUS VERSION IN THREE WAYS:

- 1) AN INTERNAL BLOCKING SCHEME WAS ADDED TO SIGNIFICANTLY
REDUCE FILE STORAGE SPACE.
- 2) THE NEED FOR THE RECORD TABLE WAS ELIMINATED.
- 3) THE ABILITY TO DELETE WAS ADDED, PERMITTING OTHER UTILITIES.

TO USE PROGRAMS DEVELOPED UNDER THE OLD VERSION, THE FOLLOWING
BASIC CHANGES SHOULD OR MAY BE USED.

- 1) INCREASE THE SIZE OF THE FILE TABLE (IFLTAB) ACCORDING
TO THE GUIDELINES ON PAGE 6.
- 2) ELIMINATE THE RECORD TABLE (IRCTAB) AS AN ARGUMENT.
ALL REFERENCES MAY BE ELIMINATED.
- 3) NHEAD AND NDATA MUST BE SPECIFIED IN MACHINE WORDS.
- 4) THE RECORD LENGTH NEED NOT BE SET BY ZRECL, EVEN
FOR LARGE RECORDS. IT REMAINS AS AN OPTION.

DSS SYSTEM CALLS

THE SET OF SUBROUTINE CALLS WHICH MAY BE USED BY THE APPLICATION PROGRAM TO INTERACT WITH THE DSS ARE DESCRIBED BELOW. THEY INCLUDE UTILITIES FOR WRITING, READING, CHECKING, MAKING INVENTORIES, AS WELL AS SOME OTHERS. UTILITIES WILL BE ADDED IN THE FUTURE TO DO SUCH TASKS AS EDITING, PLOTTING, STATISTICS, RENAMING, MULTIPLE NAMING, AND DELETING RECORDS.

THE FOLLOWING LIST SHOWS THE PARAMETER NAMES IN THE CORRECT CALLING SEQUENCE, WITH ARRAYS INDICATED BY AN EMPTY SET OF PARANTHESES. NOTICE THAT THERE ARE MANY PARAMETERS WHICH ARE THE SAME IN SEVERAL CALLS. ALL SUBROUTINE NAMES IN THE DSS PACKAGE, AS WELL AS ITS INTERNAL COMMON BLOCKS, BEGIN WITH THE LETTER Z.

```
CALL ZSET(IFLAG,IVAL)
CALL ZOPEN(IFLTAB())
CALL ZFPN(I(),NI,J(),NJ,K(),NK,L(),NL,M(),NM,N(),NN,
        KNAME(),NNAMCR)
CALL ZWRITE(IFLTAB(),KNAME(),NNAMCR,HEAD(),NHEAD,
        DATA(),NDATA,IPLAN,LFOUND)
CALL ZREAD(IFLTAB(),KNAME(),NNAMCR,HEAD(),NHEAD,
        DATA(),NDATA,IPLAN,LFOUND)
CALL ZCHECK(IFLTAB(),KNAME(),NNAMCR,NHEAD,
        NDATA,LFOUND)
CALL ZDELETE(IFLTAB(),KNAME(),NNAMCR,LFOUND)
CALL ZLIST(IFLTAB())
CALL ZCLOSE(IFLTAB())
```

THE FOLLOWING SCENARIO WILL ILLUSTRATE THE USE OF THE SYSTEM CALLS:

A WATER RESOURCES SIMULATION PROGRAM WILL BE READING SOME PREVIOUSLY SAVED INFORMATION FROM A DSS FILE, DO SOME COMPUTING, AND SAVE SOME MORE RESULTS IN THE SAME FILE. THE LISTING OF NAMES ON THE FILE WILL BE PRINTED, AND THE FILE CLOSED SO THAT IT CAN BE SAVED ON SOME PERMANENT STORAGE DEVICES, SUCH AS MAGNETIC TAPE.

THE SIMULATION PROGRAM IS WELL DESIGNED, AND ALL INPUT IS LOCALIZED IN A SPECIFIC SUBROUTINE. AT SOME POINT IN THE INPUT SECTION, THERE ARE CALLS TO DSS. CALL ZFNAME DEFINES THE NAME OF THE FILE TO BE ACCESSED. ZFPN CAUSES A PATHNAME TO BE FORMED, CONSISTENT TO SOME RATIONAL ORGANIZATION OF NAMES AGREED UPON FOR THIS APPLICATION. ZCHECK IS CALLED TO SEE WHETHER SOME NAMED RECORD EXISTS, AND ZREAD TO RETREIVE THAT INFORMATION. IN ANOTHER OUTPUT SUBROUTINE, A CALL ZSET CAUSES ALL FUTURE WRITES TO BE LABELLED WITH THE IDENTIFICATION OF THE CALLING PROGRAM. CALLS TO ZWRITE CAUSE INFORMATION TO BE SAVED FOR OTHER PROGRAMS TO USE LATER. CALLS TO ZDELETE CAUSE THE NAMED RECORDS TO BE DELETED. FINALLY, BEFORE THE END OF THE PROGRAM, A CALL IS MADE TO ZLIST FOR AN INVENTORY OF RECORD NAMES, AND A CALL TO ZCLOSE TO CAUSE THE FINAL FILE TRANSFERS.

THE COMMON PARAMETER NAMES WILL EXPLAINED HERE FIRST, AND ONLY BRIEFLY IN EACH SEPARATE LISTING BELOW.

IFLTAB - INTEGER ARRAY. DIMENSIONING DEPENDS ON THE RECORD LENGTH OF THE DSSFILE. USING THE DEFAULT VALUE, IFLTAB SHOULD BE ABOUT 1200 MACHINE WORDS LONG. OTHERWISE, THE LENGTH IS ABOUT:

LENGTH OF IFLTAB = RECORD LENGTH + 300 (MACHINE WORDS)

FILE TABLE IS USED BY DSS FOR INFORMATION CONCERNING THE ASSOCIATED FILE. USE A SEPARATE IFLTAB FOR EACH CURRENTLY OPENED FILE, AND DO NOT CHANGE ANY PART OF IFLTAB AS LONG AS THE FILE IS OPEN.

KNAME - CHARACTER STRING ARRAY. DIMENSION LONG ENOUGH TO HOLD THE NUMBER OF CHARACTERS IN YOUR RECORD NAMES. KNAME IS TYPICALLY A PATHNAME WITH SLASH DELIMITERS CONSTRUCTED BY SYSTEM CALL ZFPN.

NNAMCR - SIMPLE INTEGER. CONTAINS THE LENGTH OF THE KNAME IN NUMBER OF CHARACTERS.

HEAD - ARRAY, INTEGER OR REAL. DIMENSION LONG ENOUGH TO HOLD THE AUXILIARY INFORMATION SAVED ALONG WITH THE DATA FOR A PARTICULAR RECORD.

NHEAD - SIMPLE INTEGER. CONTAINS THE NUMBER OF HEAD WORDS TO USE FOR THE NAMED RECORD.

DATA - ARRAY, INTEGER OR REAL. DIMENSION LONG ENOUGH TO HOLD THE INFORMATION TO SAVE FOR THE RECORD.

NDATA - SIMPLE INTEGER. CONTAINS THE NUMBER OF DATA WORDS TO USE FOR THE NAMED RECORD.

IPLAN - SIMPLE INTEGER. PLAN OF ACTION CODE FOR SYSTEM CALLS ZWRITE AND ZREAD WHICH WILL HELP IN CERTAIN CHOICES DURING THOSE SUBROUTINES.

LFOUND - LOGICAL SIMPLE VARIABLE. WILL RETURN WITH A VALUE OF .TRUE, IF THE NAMED RECORD WAS ALREADY IN THE DSS FILE, .FALSE. OTHERWISE.

NAME

ZSET - SET A DSS FLAG OR PARAMETER.

CALL SEQUENCE

CALL ZSET(IFLAG,IVAL)

PARAMETERS

IFLAG - FOUR CHARACTER HOLLERITH SPECIFIER OF DSS FLAG OR VARIABLE WHICH IS TO BE CHANGED OR SET.

IVAL - VALUE WITH WHICH TO SET VARIABLE OR FLAG.

DESCRIPTION

A. STORING PROGRAM NAME IN DATA RECORDS.

ALLOWS THE PROGRAMMER TO STORE A HOLLERITH MNEMONIC NAME FOR THE CALLING PROGRAM IN EACH RECORD.

IFLAG - CONTAINS THE SPECIFIER '4HPRGN'

IVAL - CONTAINS THE FOUR CHARACTER PROGRAM NAME.
THE DEFAULT IS 4HNONE.

FOR EXAMPLE: CALL ZSET(4HPRGN,4HLOAD)
RECORDS WRITTEN AFTER THIS CALL WILL CARRY
THE IDENTIFIER 'LOAD'.

B. FILE PROTECTION AGAINST DISK CRASHES AND PROGRAM ABORTION.

NORMALLY, IF A FILE IS BEING CREATED OR CHANGED WHEN INTERRUPTED, THE FILE IS DAMAGED BEYOND RECOVERY. TO HELP PROTECT A FILE AGAINST THIS, THE SAFE FLAG MAY BE SET. IT SHOULD NOT BE SET IF THE FILE IS NOT BEING CHANGED, OR IF THE ORIGINAL FILE IS NOT EASILY REGENERATED OR RECOVERED.

IFLAG - CONTAINS THE SPECIFIER '4HSAFE'.

IVAL - CONTAINS THE INSTRUCTION '2HON' OR '3HOFF'.
THE DEFAULT VALUE IS '3HOFF'.

EXAMPLE: CALL ZSET(4HSAFE,2HON) SETS THE SAFE MODE.

C. FORCING ZREAD OUTPUT MESSAGE.

NORMALLY, ZREAD DOES NOT ISSUE A MESSAGE WHEN A RECORD IS FOUND. SETTING THIS FLAG FORCES A MESSAGE TO THE OUTPUT.

IFLAG - CONTAINS THE SPECIFIER '4HPTPN' (PRINT PATHNAME)

IVAL - CONTAINS THE INSTRUCTION '2HON' OR '3HOFF',
THE DEFAULT IS 3HOFF.

EXAMPLE: CALL ZSET(4HPTPN,2HON) FORCES A ZREAD MESSAGE.

DIAGNOSTICS

BUGS

NAME ZOPEN - OPENS A DSS FILE AND INITIALIZES.

CALL SEQUENCE

CALL ZOPEN(IFLTAB())

PARAMETERS

IFLTAB - DESCRIBED ABOVE

DESCRIPTION

OPENS FILE AND INITIALIZES THE DSS ROUTINES. A SEPARATE CALL MUST BE MADE FOR EACH FILE. ZOPEN RECOGNIZES WHETHER OR NOT A FILE HAS BEEN PREVIOUSLY OPENED. AS OF NOW, THIS MUST BE CALLED EXPLICITLY BEFORE READING, WRITING, DELETING, LISTING, OR CHECKING.

DIAGNOSTICS

BUGS

NAME
ZFPN - FORM A PATHNAME FROM SUBSTRINGS

CALL SEQUENCE

CALL ZFPN(IA(), NA, IB(), NB, IC(), NC, ID(), ND, IE(), NE, IF(), NF,
KNAME(), NNAMECR)

PARAMETERS

IA,IB,IC,ID,IE,IF - CHARACTER STRING ARRAYS, WHICH WILL BE
CONCATENATED INTO THE RESULTING STRING NAME KNAME, IN
THE ORDER SUPPLIED.

NA,NB,NC,ND,NE,NF - THE ASSOCIATED STRING LENGTHS IN TERMS OF
THE CHARACTER COUNT INTEGERS

KNAME, NNAMECR - CONTAINING THE RESULTS, AS DESCRIBED ABOVE.

DESCRIPTION

FORM A SIX-PART PATHNAME BY USING THE SUPPLIED CHARACTER
STRINGS, INSERTING A DELIMITING SLASH CHARACTER BEFORE EACH
PART, AND AT THE END. NULL PATH PARTS ARE INDICATED BY PASSING
IN A ZERO COUNT FOR THE PARTICULAR SUBSTRING.

DIAGNOSTICS

BUGS

NAME ZUPFN - UN-FORM A PATHNAME INTO SUBSTRINGS

CALL SEQUENCE

CALL ZUPFN(IA(), NA, IB(), NB, IC(), NC, ID(), ND, IE(), NE, IF(), NF,
KNAME(), NNAMECR, ISTAT)

PARAMETERS

IA,IB,IC,ID,IE,IF - CHARACTER STRING ARRAYS, WHICH WILL BE
CONCATENATED INTO THE RESULTING STRING NAME KNAME, IN
FILLED WITH THE PATHNAME PARTS FROM KNAME,
THE ORDER SUPPLIED, WHERE THE PATHNAME IS /A/B/C/D/E/F/ .

NA,NB,NC,ND,NE,NF - THE ASSOCIATED STRING LENGTHS OF EACH
PATHNAME PART.

KNAME - THE PATHNAME TO BE UN-FORMED.
NNAMECR - MAXIMUM LENGTH OF PATHNAME (CHARACTERS)
(DOES NOT HAVE TO BE ACTUAL LENGTH)

ISTAT - STATUS PARAMETER. RETURNED ZERO IF OPERATION OCCURED
PROPERLY. ISTAT = 50, IF TOO MANY PARTS (MUST HAVE 7 / 'S).

DESCRIPTION

UN-FORMS A SIX PART PATHNAME, WHOSE PARTS ARE SEPERATED BY A
SLASH. PLACES EACH PART INTO THE CORRESPONDING CHAARACTER
STRING. THE LENGTH OF EACH STRING IS RETURNED IN THE ADJCENT
INTEGER (EG. NA, NB)

DIAGNOSTICS

ISTAT = 50 *ILLEGAL PATHNAME, NOT SEVEN SLASHES.

BUGS

NAME

ZGPNP - GET PATH NAME PARTS FROM A CARD IMAGE

CALL SEQUENCE

CALL ZGPNP(ICARD,A,B,C,D,E,F,ISTATS)

PARAMETERS

ICARD - ARRAY CONTAINING THE CARD IMAGE TO BE PROCESSED

A,B,C,D,E,F - ARRAYS RETURNING THOSE PARTS FOUND (SAME AS IA, IB, ETC.)

ISTATS - ARRAY USER DIMENSIONS TO 6. DESCRIBES INFORMATION ABOUT EACH PART.

ISTATS(1) DESCRIBES PART A

ISTATS(2) DESCRIBES PART B, ETC.

ISTATS() RETURNS THE STRING LENGTH OF THE PART FOUND

ISTATS() RETURNS -1 IF THAT PART WAS NOT FOUND

USER MAY SPECIFY NOT TO LOOK FOR A PART BY SPECIFYING

ISTATS() = -2, BEFORE CALLING ZGPNP

USER MAY SPECIFY THE MAXIMUM NUMBER OF CHARACTERS TO READ

FOR A PART, BY SETTING ISTATS() = -(MAX), BEFORE CALLING

(ISTATS = NEGATIVE MAXIMUM LENGTH).

DESCRIPTION

SEARCHES THE EIGHTY CARD IMAGE FOR EQUAL SIGNS PRECEDED BY THE PART NAME (EG. A,B,C,D,E,F) - L (LOCATION) AND P (PARAMETER) ARE ALSO VALID, WHERE THE L PART IS PUT INTO B, AND P INTO C. PUTS THE PART FOLLOWING THE EQUAL INTO THE CORRESPONDING ARRAY, AFTER REMOVING LEADING BLANKS. REPORTS THE LENGTH OF THE PART IN ISTATS(). THE FIELD IS ENDED BY EITHER A COMMA, A SUBSEQUENT EQUAL SIGN (LESS THE PRECEEDING WORD OR CHARACTER), OR BY THE END OF THE 80 CHARACTER CARD. ROUTINE DOES NOT BLANK OUT ANY OF THE ARGUMENTS. USER SHOULD MAKE SURE ICARD IS FILLED WITH BLANKS OR CHARACTERS PRIOR TO CALLIN. (THE NULL SET IS NOT A BLANK, AND WILL MAKE A PART HAVE TRAILING BLANKS) ROUTINE IGNORES OTHER THAN ABOVE EQUALS, EXCEPT AS AN ENDING DELIMITER THERE AMY BE NO MORE THAN 9 EQUAL SIGNS IN ICARD. IF GREATER THAN 9, ISTATS(1) RETURNED AS -100.

EXAMPLE:

ZR=IN A = CORPS B=OHIO RIVER, P = FLOW F = PLAN D ZD = XXX

RETURN:

ISTATS(1) = 4, A =CORPS

ISTATS(2) = 10, B =OHIO RIVER

ISTATS(3) = 4, C =FLOW

ISTATS(4) = -1, D =

ISTATS(5) = -1, E =

ISTATS(6) = 6, F =PLAN D

DIAGNOSTICS

ISTATS(1) = -100 *TO MANY EQUAL SIGNS IN ICARD - MAY HAVE NO MORE THAN 9.

NAME

ZREAD - READ A RECORD FROM THE DSS

CALL SEQUENCE

CALL ZREAD(IFLTAB(), KNAME(), NNAMECR, HEAD(), NHEAD,
DATA(), NDATA, IPLAN, LFOUND)

PARAMETERS

IFLTAB, KNAME, NNAMECR, LFOUND - ALL DESCRIBED ABOVE.

DATA, HEAD - ARRAYS WHICH WILL BE FILLED WITH INFORMATION
IF FOUND ON THE DSS

IPLAN - ACTION FOR UPDATING THE VALUES OF NDATA AND NHEAD
FOR: IPLAN=1, UPDATE NHEAD AND NDATA TO ACTUAL LENGTHS OF ARRAYS
STORED.
IPLAN=OTHER, DO NOT UPDATE

DESCRIPTION

CHECK THE DSS FOR NAMED RECORD, AND READ INTO HEAD AND DATA IF
THE KNAME IS FOUND.

NOTE: THE LENGTH OF THE RETURNED ARRAY WILL BE THE SMALLER
OF THE INPUT VALUE (NHEAD OR NDATA) AND THE ACTUAL
VALUE. IF NHEAD AND NDATA ARE NOT KNOWN, THE FULL
RECORD CAN BE ACCESSED BY MAKING NHEAD AND NDATA LARGE.

DIAGNOSTICS

-UNKNOWN NAME ON FILE *CANNOT FIND NAMED RECORD

BUGS

NAME

ZGTDTS - GET DATA TIME SERIES

CALL SEQUENCE

CALL ZGTDTS(IFLTAB(), IA(), NA, IB(), NB, IC(), NC, IF(), NF, JULSD,
ISTIME, JULET, IETIME, INTRVL, IHEAD(), NHEAD, BUFFER(), DATA(), NDATA,
IUNITS(), ITYPE(), ISTAT)

PARAMETERS

IFLTAB - DSS WORK FILE ASSOCIATED WITH THE FILE OPENED,
DESCRIBED ABOVE

IA,IB,IC,IF - CHARACTER STRING ARRAYS WHICH WILL BE FORMED INTO THE
PATHNAME(S), (EXCLUDING THE DATE AND TIME INTERVAL PARTS)

NA,NB,NC,NF - THE ASSOCIATED STRING LENGTHS IN TERMS OF THE
CHARACTER COUNT INTEGERS

JULSD - STARTING DATE IN JULIAN DAYS, DAYS SINCE 01JAN1900
(USE SUBROUTINES IYMDJL, OR MILJUL TO GET FROM STANDARD
TYPE DATE TO JULIAN)

ISTIME - STARTING TIME IN MINUTES AFTER MIDNIGHT OF JULSD

JULET - ENDING DATE IN JULIAN DAYS

IETIME - ENDING TIME IN MINUTES AFTER MIDNIGHT OF JULET

INTRVL - TIME INTERVAL BETWEEN DATA DESIRED, IN MINUTES

IHEAD, NHEAD - HEADER ARRAY AND NUMBER OF HEADER WORDS DESIRED
NHEAD SHOULD BE ,GE. 15, AND IHEAD DIMENSIONED TO THAT
NHEAD IS RETURNED WITH ACTUAL NUMBER IN HEADER IF LESS THAN
ASKED FOR

BUFFER - A SCRATCH ARRAY TO BE USED INTERNALLY BY ZGTDTS TO MOVE
BLOCKS AROUND. BUFFER SHOULD BE DIMENSIONED TO BE AT LEAST AS
LARGE AS THE LARGEST DATA BLOCK IN A RECORD TO BE ENCOUNTERED.
IF BUFFER IS DIMENSIONED TO 750 (REAL), ALL INTERVALS WILL
BE HANDLED.

DATA - AN ARRAY RETURNED WITH THE DATA DESIRED (REAL NUMBERS)

NDATA - THE DIMENSION LIMIT OF ARRAY DATA. NDATA IS RETURNED
WITH THE ACTUAL NUMBER OF DATA IN DATA.

IUNITS, ITYPE - ARRAYS RETURNED WITH THE UNITS AND TYPE OF
DATA TAKEN FROM THE HEADER. (EG, CFS AND PER-AVER)
SHOULD BE DIMENSIONED TO HOLD 8 CHARACTERS (ON THE
HARRIS DIMENSION TO 2, INTEGER*6).

ISTAT - A STATUS PARAMETER RETURNED ON THE SUCCESSFULNESS
OF THE CALL. IF ISTAT ,GE. 10, A FATAL ERROR OCCURED
AND NO DATA WAS RETURNED. A LIST OF ISTAT ERRORS FOLLOWS.

DESCRIPTION

ZGTDTS IS A HIGHER LEVEL CALL TO READ DSS DATA. GIVEN A TIME WINDOW, ZGTDTS WILL FORM THE NECESSARY PATHNAMES AND RETRIEVE DATA FOR THE TIMES GIVEN, CROSSING TIME BOUNDARY BLOCKS, IF NECESSARY. FOR EXAMPLE, IF THE USER WANTS DAILY DATA FROM 14MAR67 TO 25APR69, ONE CALL TO ZGTDTS WILL RETRIEVE THAT DATA AND RETURN IT IN THE ARRAY DATA, WITH THE NUMBER OF DATA BEING NDATA. THE ROUTINE CAN EQUALLY WELL RETURN ONE PIECE OF DATA AT A DESIRED TIME BY SETTING JULED = JULSD AND IETIME = ISTIME.

REMARKS

MISSING DATA - IF A RECORD IS NOT FOUND FOR WHICH DATA WAS ASKED FOR, A WARNING MESSAGE IS PRINTED WITH THE PATHNAME OF THE RECORD MISSING. A VALUE OF -902.0 IS GIVEN FOR EACH OF THE MISSING DATA. IF DATA IS MISSING INSIDE OF A RECORD, A VALUE OF -901.0 IS GIVEN FOR THESE DATA. IN EACH CASE, ISTAT IS CHANGED TO IDENTIFY THIS.

MILITARY STYLE DATES AND TIMES, AND YEAR, MONTH, DAY STYLE DATES CAN BE TRANSFORMED INTO JULIAN USING THE DATE ROUTINES IN ULIB. THE ROUTINE INCTIM MAY BE USEFUL IN DETERMINING THE ENDING DATE. THESE ARE DOCUMENTED IN HECULIB (DOC*ULIB)

SAFE DIMENSIONING IS AS FOLLOWS:

DIMENSION IFLTAB(1200), BUFFER(750), IHEAD(15), DATA(NDATA)
INTEGER*4 IUNITS(2), ITYPE(2), IA(), IB(), IC(), IF()
WHERE NDATA IS LARGEST AMOUNT OF DATA EVER EXPECTED.

DIAGNOSTICS

ISTAT	DESCRIPTION
-------	-------------

0	OPERATION PERFORMED SUCCESSFULLY
1	MISSING DATA INSIDE A RECORD (-901.0)
2	MISSING RECORD(S) (-902.0), BUT SOME VALID DATA FOUND
3	MISSING RECORD(S), AND MISSING DATA INSIDE A RECORD DETECTED, BUT SOME VALID DATA WAS FOUND.
4	NO VALID DATA WAS FOUND (ALL -901.0, AND -902.0)
5-9	RESERVED FOR INTERPOLATED DATA
-- FATAL ERRORS --	
11	USER ASKED FOR MORE DATA (VIA DATES, TIME) THAN ARRAY DATA WAS DIMENSIONED FOR (NDATA).
12	A NON-STANDARD INTERVAL WAS PASSED
20	INTERVALS NOT EQUAL (THIS WILL NOT OCCUR AT THIS TIME)
21	A BAD STARTING DATE WAS DETECTED
22	DATA REQUESTED NOT ON THE STANDARD TIME INTERVAL EG. DAILY DATA REQUESTED, BUT GIVEN STARTING TIME WAS 9 A.M. (TIME HAS TO BE MIDNIGHT FOR DAILY - IE ISTIME = 0 OR 1440)

NO DATA WILL BE RETURNED WITH A FATAL ERROR.
ERRORS 20 AND 21 SHOULD NOT OCCUR. IF THEY DO, ROUTINE MAY HAVE BEEN WRITTEN OVER.

NAME

ZGTDTA - GET DATA TIME SERIES ALTERNATIVE

CALL SEQUENCE

CALL ZGTDTA(IFILTAB(), ME(), NNAMCR(), ITIME(), IHEAD(),
NHEAD, DATA(), NDATA, BUFFER(), ISTAT)

PARAMETERS

IFILTAB - DSS WORK ARRAY
KNAME - CHARACTER STRING PATHNAME
NNAMCR - NUMBER OF CHARACTERS IN KNAME
ITIME - A ARRAY OF FOUR VALUES:
 ITIME(1) - JULIAN STARTING DATE = JULSD
 ITIME(2) - STARTING TIME = ISTEIME
 ITIME(3) - JULIAN ENDING DATE = JULED
 ITIME(4) - ENDING TIME = IETIME

REMAINDER DISCUSSED IN ZGTDTS

DESCRIPTION

ZGTDTA IS A SHORTENED CALL TO THE ROUTINE ZGTDTS, USEFUL
IF THE PATHNAME HAS ALREADY BEEN FORMED. PARAMETERS AND
USAGE ARE DISCUSSED IN ZGTDTS.

NAME

ZWRITE - WRITE A RECORD TO THE DSS

CALL SEQUENCE

CALL ZWRITE(IFLT4B(), KNAME(), NNAMECR, HEAD(), NHEAD,
DATA(), NDATA, IPLAN, LFOUND)

PARAMETERS

IFLT4B - INTEGER ARRAY. SCRATCH AREA NEEDED, AS DISCUSSED
ABOVE
KNAME - CONTAINS THE CHARACTER STRING NAME TO USE FOR WRITING
THE RECORD.
NNAMECR - NUMBER OF CHARACTERS IN KNAME, AS DESCRIBED ABOVE.
HEAD, DATA - ARRAYS OF INFORMATION TO SAVE, AS ABOVE.
IPLAN - ACTION DEPENDING ON WHETHER NAME IS PREVIOUSLY IN DSS:
FOR: IPLAN=1, ONLY WRITE IF NEW NAME
FOR: IPLAN=2, ONLY WRITE IF OLD NAME
FOR: IPLAN=OTHER, ALWAYS WRITE

LFOUND - LOGICAL .TRUE. RETURNED IF OLD NAME, ELSE .FALSE.

DESCRIPTION

ENTER INTO DSS UNDER THE NAME KNAME THE SPECIFIED, POSSIBLY
ZERO, LENGTH ARRAYS HEAD AND DATA.

DIAGNOSTICS

-NAME EXISTED ON NEW WRITE REQUEST	* IPLAN CONFLICT
-NEW NAME ON REWRITE REQUEST	* IPLAN CONFLICT

BUGS

NAME

ZPTDTS - PUT DATA TIME SERIES

CALL SEQUENCE

CALL ZPTDTS(IFLTAB(), IA(), NA, IB(), NB, IC(), NC, IF(), NF, JULSD,
ISTIME, JULET, IETIME, INTRVL, IHEAD(), NHEAD, BUFFER(), DATA(), NDATA,
IUNITS(), ITYPE(), ISTAT)

PARAMETERS

IFLTAB - DSS WORK FILE ASSOCIATED WITH THE FILE OPENED,
DESCRIBED ABOVE

IA,IB,IC,IF - CHARACTER STRING ARRAYS WHICH WILL BE FORMED INTO THE
PATHNAME(S), (EXCLUDING THE DATE AND TIME INTERVAL PARTS)

NA,NB,NC,NF - THE ASSOCIATED STRING LENGTHS IN TERMS OF THE
CHARACTER COUNT INTEGERS

JULSD - STARTING DATE IN JULIAN DAYS, DAYS SINCE 01JAN1900
(USE SUBROUTINES IYMDJL, OR MILJUL TO GET FROM STANDARD
TYPE DATE TO JULIAN)

ISTIME - STARTING TIME IN MINUTES AFTER MIDNIGHT OF JULSD

JULET - ENDING DATE IN JULIAN DAYS

IETIME - ENDING TIME IN MINUTES AFTER MIDNIGHT OF JULET

INTRVL - TIME INTERVAL BETWEEN DATA, IN MINUTES

IHEAD, NHEAD - HEADER ARRAY AND NUMBER OF HEADER WORDS.
DIMENSION IHEAD TO AT LEAST 15, AND SET NHEAD TO 15

BUFFER - A SCRATCH ARRAY TO BE USED INTERNALLY BY ZPTDTS TO MOVE
BLOCKS AROUND. BUFFER SHOULD BE DIMENSIONED TO BE AT LEAST AS
LARGE AS THE LARGEST DATA BLOCK IN A RECORD TO BE ENCOUNTERED.
IF BUFFER IS DIMENSIONED TO 750 (REAL), ALL INTERVALS WILL
BE HANDLED.

DATA - AN ARRAY CONTAINING THE DATA TO BE STORED

NDATA - THE DIMENSION LIMIT OF ARRAY DATA. NDATA IS RETURNED
WITH THE ACTUAL NUMBER OF DATA STORED.

IUNITS, ITYPE - ARRAYS CONTAINING THE UNITS AND TYPE OF
DATA TO BE PUT IN THE HEADER. (EG. CFS AND PER-AVER)
SHOULD BE DIMENSIONED TO HOLD 8 CHARACTERS (ON THE
HARRIS DIMENSION TO 2, INTEGER*6).

ISTAT - A STATUS PARAMETER RETURNED ON THE SUCCESSFULNESS
OF THE CALL. IF ISTAT .GE. 10, A FATAL ERROR OCCURED
AND NO DATA WAS STORED. A LIST OF ISTAT ERRORS FOLLOWS.

DESCRIPTION

ZPTDTS IS A HIGHER LEVEL CALL TO WRITE DATA TO DSS. GIVEN A TIME WINDOW, ZPTDTS WILL FORM THE NECESSARY PATHNAMES AND WRITE THE DATA FOR THE TIMES GIVEN, CROSSING TIME BOUNDARY BLOCKS, IF NECESSARY. FOR EXAMPLE, IF THE USER HAS DAILY DATA FROM 14MAR67 TO 25APR69, ONE CALL TO ZPTDTS WILL WRITE THE DATA TO DSS. USER MUST OPEN AND CLOSE THE FILE SEPERATLY FROM ZPDTS.

REMARKS

IF THE DSS RECORD ONE IS WRITTING TO PREVIOUSLY EXISTS, THE PROGRAM THE RECDR THEN INSERT THE NEW DATA, PRESERVING OLD DATA THE RECORD THAT EXISTS AT TIME SPAN. THIS ALLOWS THE USER TO EASILY EXTEND A RECORD OF DATA. FOR EXAMPLE, IF DURING ONE RUN DAILY DATA IS WRITTEN TO DSS FOR THE TIME SPAN 13NOV67 TO 15MAR68, A LATER RUN CAN WRITE DATA FROM 16MAR68 ON, LEAVING THE PREVIOUS DATA INTACT.

MILITARY STYLE DATES AND TIMES, AND YEAR, MONTH, DAY STYLE DATES CAN BE TRANSFORMED INTO JULIAN USING THE DATE ROUTINES IN ULIB. THE ROUTINE INCTIM MAY BE USEFUL IN DETERMINING THE ENDING DATE. THESE ARE DOCUMENTED IN HECULIB (DOC*ULIB)

'SAFE' DIMENSIONING IS AS FOLLOWS:

DIMENSION IFLTAB(1200), BUFFER(750), IHEAD(15), DATA(NDATA)
INTEGER*6 IUNITS(2), ITYPE(2), IA(), IB(), IC(), IF()
WHERE NDATA IS LARGEST AMOUNT OF DATA EVER EXPECTED.

DIAGNOSTICS

ISTAT DESCRIPTION

0 OPERATION PREFORMED SUCCESSFULLY

-- FATAL ERRORS --

41 USER ASKED TO STORE MORE DATA (VIA DATES, TIME) THAN ARRAY
DATA WAS DIMENSONED FOR (NDATA).
40 A NON-STANDARD INTERVAL WAS PASSED
20 INTERVALS NOT EQUAL (THIS WILL NOT OCCUR AT THIS TIME)
21 A BAD STARTING DATE WAS DETECTED
22 DATA GIVEN NOT ON THE STANDARD TIME INTERVAL
EG. DAILY DATA GIVEN, BUT THE STARTING TIME WAS 8 A.M.
(TIME HAS TO BE MIDNIGHT FOR DAILY - IE ISTE = 0 OR 1440)

NO DATA WILL BE STORED WITH A FATAL ERROR.
ERRORS 20 AND 21 SHOULD NOT OCCUR. IF THEY DO, ROUTINE
MAY HAVE BEEN WRITTEN OVER.

NAME

ZDELETE - DELETE A RECORD FROM THE FILE.

CALL SEQUENCE

CALL ZDELETE(IFLTAB(), KNAME(), NNAMCR, LFOUND)

PARAMETERS

IFLTAB, KNAME, NNAMCR, LFOUND - DESCRIBED ABOVE

DESCRIPTION

CAUSES THE NAMED RECORD TO BE DELETED IF FOUND. THE
PATHNAME CAN THEN BE REUSED.

NOTE: THE FILE SPACE TAKEN BY THE DELETED RECORD BECOMES
INACTIVE AND WILL BE REMOVED BY A COMPRESS ROUTINE.

DIAGNOSTICS

-UNKNOWN NAME ON FILE

-RECORD DOESN'T EXIST AS NAMED

BUGS

NAME

ZCHECK - CHECK IF NAME CORRESPONDS TO ANY RECORD.

CALL SEQUENCE

CALL ZCHECK(IFLTAB(), KNAME(), NNAMECR, NHEAD, NDATA,
LFOUND)

PARAMETERS

IFLTAB - INTEGER ARRAY, SCRATCH AREA NEEDED, AS DISCUSSED
 ABOVE.
KNAME - CONTAINS THE CHARACTER STRING NAME TO CHECK
NNAMECR - NUMBER OF CHARACTERS IN KNAME, AS DESCRIBED ABOVE.
NHEAD, NDATA - IF RECORD FOUND WILL BE STUFFED WITH LENGTH
 IN WORDS OF THE STORED ARRAYS DATA AND HEAD
LFOUND - LOGICAL .TRUE. RETURNED IF NAME IS ON DSS,
 .FALSE. OTHERWISE.

DESCRIPTION

CHECK THE DSS FILE FOR THE NAMED RECORD AND RETURN VALUES FOR
NHEAD, NDATA AND LFOUND. DO NOT CHANGE NHEAD OR NDATA IF NOT
FOUND.

DIAGNOSTICS

BUGS

NAME

ZLIST - LIST ALL OF THE RECORD NAMES IN A FILE.

CALL SEQUENCE

CALL ZLIST(IFLTAB)

PARAMETERS

IFLTAB - INTEGER ARRAY, SCRATCH AREA FOR PARTICULAR DSS FILE
WISHED TO LIST, AS DISCUSSED ABOVE.

DESCRIPTION

START ON A NEW PAGE, AND LIST RECORD NAMES, CREATION TIME, AND
RECORD LENGTHS FOR THE DSS FILE ASSOCIATED WITH IFLTAB.

DIAGNOSTICS

BUGS

NAME

ZCLOSE - CLOSE DSS FILE SO IT MAY BE SAVED.

CALL SEQUENCE

CALL ZCLOSE(IFLTAB)

PARAMETERS

IFLTAB - INTEGER ARRAY, SCRATCH AREA FOR PARTICULAR DSS
FILE TO CLOSE, AS DISCUSSED ABOVE

DESCRIPTION

CAUSE ANY FINAL TRANSFERS TO THE PHYSICAL DISK FILE AND CALL A
SYSTEM DEPENDENT CLOSING ROUTINE. RELEASE THE SCRATCH AREA USED
IN IFLTAB, AND PRINT A CLOSING MESSAGE TO OUTPUT.

DIAGNOSTICS

BUGS

INTERNAL DETAILS

DSS IS ARRANGED AS A RANDOM ACCESS FILE USING FIXED RECORD LENGTHS AND AN INTERNAL BUFFERING SYSTEM TO COMPACT INFORMATION. SPACE IN THE FILE TABLE ARRAY (IFLTAB) IS USED FOR THE BUFFER. IF RANDOM ACCESS IS NOT AVAILABLE, SEQUENTIAL ACCESS AT A LOWER LEVEL, WITH REWIND AND BACKSPACE, CAN BE USED TO SIMULATE IT.

THE KEYS USED TO ACCESS THE LOGICAL RECORDS ON THE FILE ARE RECORD NAMES, WHICH CONSIST OF AN ARBITRARY LENGTH STRING. THE STRING IS HASHED INTO AN INTEGER VALUE BETWEEN ONE AND MAXH (MAX HASH), AND THE VALUE IS CHECKED FOR A CORRESPONDING ENTRY IN A FILE DIRECTORY. THE DIRECTORY IS HIERARCHICAL OR TREE-LIKE, AND WILL BE DISCUSSED BELOW. IF THE NAME STRING CONTAINS EMBEDDED DELIMITER CHARACTERS, MDLM, USUALLY A SLASH (/), THE ENCLOSED SUBSTRINGS WILL BE HASHED SEPARATELY, AND THE RESULTING SEQUENCE OF HASH VALUES FROM SCANNING THE NAME STRING LEFT TO RIGHT, WILL BE USED TO STEP DOWN THROUGH THE DIRECTORY TREE, ONE LEVEL FOR EACH VALUE, ALWAYS STARTING FROM THE ROOT NODE OF THE TREE (TREES ARE TO BE PICTURED UPSIDE-DOWN). THE MAXIMUM NUMBER OF PATHNAME SUBSTRINGS, MAXP, CORRESPONDS TO THE MAXIMUM TREE DEPTH, AND ALONG WITH MAXH AND MDLM ARE SYSTEM PARAMETERS.

IF, WHILE ATTEMPTING TO WRITE A RECORD WITH ZWRITE, A NODE FOR THE NEXT HASH VALUE DOES NOT EXIST, ONE WILL APPROPRIATELY BE CREATED. THE ACTUAL NAME STRING WILL BE WRITTEN TO THE FILE FROM THE LAST NODE IN THE HASH VALUE SEQUENCE. IF THERE ARE NAMES WITH THE SAME HASH SEQUENCES, THE NAMES WILL FORM A CHAIN OF NAMES WHICH MAY BE SEARCHED DURING A RETRIEVAL REQUEST. ALONG WITH THE NAME IS WRITTEN A POINTER TO AN INFORMATION BLOCK FOR THE RECORD, WHICH CONTAINS CREATION, LENGTH, AND LOCATION INFORMATION ASSOCIATED WITH THE NAME, AND POINTERS TO THE ACTUAL SAVED INFORMATION.

THE VARIOUS TYPES OF RECORDS IN THE FILE WILL BE DESCRIBED NEXT.

- PERM - THE FIRST RECORD, AT THE TOP OF THE FILE, CONTAINS INFORMATION THAT IS PERMANENTLY ASSOCIATED AND STORED WITH THE FILE. IT INCLUDES A ADDRESS POINTER TO THE ROOT NODE, FILE SIZE IN WORDS, FILE SIZE IN RECORDS. IT IS INITIALIZED WHEN A FILE IS OPENED IN ZOPEN, AND UPDATED BEFORE CLOSING BY ZCLOSE.
- ROOT - THE SECOND RECORD IS THE ROOT NODE, FROM WHICH ALL DIRECTORY SEARCHING BEGINS. IT IS CREATED BY ZOPEN IF THE FILE WAS NOT PRE-EXISTING, AND HAS NO PARENT NODE. OTHERWISE, IT IS LIKE ANY OTHER NODE OF THE DIRECTORY.
- NODE - THE DIRECTORY IS MADE UP OF UNIT PIECES, CALLED NODES, WHICH, TAKEN TOGETHER, FORM A TREE-LIKE NETWORK. EACH NODE IS A LIST OF ALTERNATIVE POINTERS WHICH WILL BE CHOSEN, DEPENDING ON THE VALUE OF THE HASHED NAME SEQUENCE. THERE WILL BE ONE NODE ACCESSED CORRESPONDING TO EACH OF THE VALUES OF THIS SEQUENCE,

COUNTING THE ROOT NODE. THE LENGTH OF A NODE DEPENDS ON MAX HASH PARAMETER, AND IS TWO TIMES MAXH PLUS TWO. THE FIRST MAXH POINTERS ARE USED TO GO TO OTHER NODES. THE LAST VALUE OF A HASHED NAME SEQUENCE USES A POINTER FROM THE SECOND MAXH POINTERS IN THE NODE. THE LAST TWO POINTERS ARE FOR THE FILE ADDRESS OF THE NODE, AND ITS PREDECESSOR NODE'S ADDRESS. ZERO VALUE INDICATES A NULL POINTER, THAT IS, NO SUCH DESCENDANT NODE OR RECORD EXIST.

FAKE - THE LAST VALUE OF A NAME HASH VALUE SEQUENCE IS USED TO POINT FROM THE LAST NODE ACCESSED IN THE TREE, TO THE TOP OF A CHAINED LIST OF NAMES. TO MAKE THE CONTROL OF THE LIST UNIFORM, A FAKE HEAD OF THE LIST IS USED TO POINT TO THE ACTUAL FIRST NAME ON THE LIST.

NAME - TO TAKE CARE OF THE POSSIBILITY OF HASHING COLLISIONS, THE ACTUAL NAMES OF RECORDS ARE STORED ON THE FILE IN A LIST, ALONG WITH NON-ZERO POINTERS TO ANY SUCCEEDING NAMES IN THE CHAIN. ALSO INCLUDED IS A CHARACTER COUNT FOR THE NAME, AND A POINTER TO THE ASSOCIATED RECORD BLOCK.

BLOCK - FOR EACH NAMED RECORD, THE DSS MAINTAINS INFORMATION REGARDING CREATION TIME, RECORD LENGTHS, VERSION NUMBER, WRITING PROGRAM AND DATA AND HEAD LOCATIONS.

DATA,HEAD - CONTAIN THE ACTUAL INFORMATION FROM THE USER. THERE ARE TWO COMMON BLOCKS ASSOCIATED WITH DSS. BLOCK /WORDS/ IS USED BY THE STRING MANIPULATION PACKAGE, DESCRIBED IN THE LATER SECTION, TO EFFICIENTLY PACK CHARACTERS INTO MACHINE WORDS. BLOCK /ZFS/ CONTAINS DSS PARAMETERS, SAVE VARIABLES BETWEEN SUBROUTINE ACTIVATIONS, AND POINTERS INTO THE SCRATCH AREA IFLTAB.

COMMON BLOCK /ZFS/ VARIABLES *****

GROUP 1:

KDATE	DATE OF FIRST DSS CALL OF THIS JOB
KTIME	TIME OF FIRST DSS CALL OF THIS JOB
KPROG	CALLING PROGRAM NAME TO ZSET TO SAVE IN RECORD BLOCK. DEFAULT IS 4HNONE.
KFSIZE	LENGTH OF FILE IN WORDS
KGOT	NUMBER OF NODES FOUND FOR NAME BEING CHECKED
KNCD	NUMBER OF VALUES IN HASHED NAME SEQUENCE

GROUP 2: POINTERS IN IFLTAB FILE MANAGEMENT.....

KSYS	POINTER TO HOST COMPUTER FILE TABLE AREA
KFNH	POINTER TO FILE NAME
KOPN	POINTER TO WORK FOR FILE NAME WHILE OPENED FILE
MAXP	MAXIMUM PATHNAME LENGTH FOR SYSTEM
MAXH	MAXIMUM HASHING VALUE FOR SYSTEM
MDLM	LEFT JUSTIFIED DELIMITER CHARACTER FOR SYSTEM
KNND	NUMBER OF WORDS IN A NODE
KLRT	POINTER TO LOCATION OF ROOT NODE
KFSZ	POINTER TO FILE SIZE IN WORDS
KDEAD, KDEADS	POINTER(S) TO INACTIVE SPACE IN FILE
KNRC	POINTER TO NUMBER OF RECORDS IN FILE
KNOD	POINTER TO NODE AREA OF IFLTAB
KLCD	POINTER TO DESCENDANT NODE POINTERS IN CURRENT NODE
KLRC	POINTER TO FAKE NAME POINTER LIST IN CURRENT

	NODE
KLHY	POINTER IN NODE OF ITS OWN FILE ADDRESS
KNPRM	NUMBER OF WORDS OF PERM, FIRST RECORD IN FILE, TO SAVE

GROUP 3: POINTERS IN IFLTAB RECORD MANAGEMENT.....

KCOD	POINTER TO BEGINNING OF HASHED NAME CODE VALUES
KCDT	POINTER TO CREATION DATE FOR RECORD
KCTH	POINTER TO CREATION TIME FOR RECORD
DUSN	POINTER TO VERSION NUMBER FOR RECORD
KRNM	POINTER TO RECORD NUMBER FOR RECORD
KNHD	POINTER TO NUMBER OF WORDS IN HEAD
KNDT	POINTER TO NUMBER OF WORDS IN DATA
KNNM	POINTER TO NUMBER OF CHARACTERS IN NAME
KLHD	POINTER TO LOCATION OF HEAD IN FILE
KLDT	POINTER TO LOCATION OF DATA IN FILE
KLNM	POINTER TO LOCATION OF NAME IN FILE
KPRG	POINTER TO PROGRAM NAME WHICH WROTE RECORD
KLBK	POINTER TO LOCATION OF BLOCK IN FILE
KNBLK	NUMBER OF WORDS IN A BLOCK
KBLK	POINTER TO FIRST WORD OF BLOCK IN IRCTAB

GROUP 4: IFLTAB BUFFER MANAGEMENT.....

KBUF, KBUFS	POINTERS TO BUFFER SIZE IN WORDS
KSBUF, KSBUF	FIRST CELL OF BUFFER AREA
KWRIT, KWRITS	POINTER(S) TO FLAG THAT IS SET IF CURRENT BUFFER CONTAINS INFORMATION THAT NEEDS TO BE WRITTEN TO FILE BEFORE CHANGING BUFFERS.
KCURR, KCURRS	POINTER(S) TO THE CURRENT BUFFER NUMBER.

GROUP 5: OTHERS

KLPR	POINTER IN IFLTAB OF NODE PREDECESSOR LOCATION
KPRM	POINTER IN IFLTAB TO FIRST WORD OF PERM
KNNOD	NUMBER OF WORDS IN A NODE
KXNAME	EXTRA NAME ARRAYS, USED WHILE SEARCHING FOR NAME
KPRNT	PARENT SUBSCRIPT TO KXNAME
KXMY	LOCATIONS OF EXTRA NAMES
DBUG	LOGICAL FLAG TO CONTROL DIAGNOSTIC OUTPUT
DLETE	LOGICAL FLAG THAT CONTROLS DELETIONS IN ZCHECK
NEW	LOGICAL FLAG INDICATING STATUS OF FILE (NEW OR OLD)
LVER	VERSION NUMBER AS USED IN RECORD MANAGEMENT ROUTINES
MAP	LOGICAL FLAG TO CONTROL EXTRA OUTPUT IN ZLIST

NON-SUPPLIED SUBROUTINE *****

NAME	CALLED FROM	PURPOSE
DATE	ZLIST,ZINIT	ENTER CURRENT DATE IN PARAMETER
TIME	ZLIST,ZINIT	ENTER CURRENT TIME IN PARAMETER
Q9FILE	ZOPEN	OPEN A FILE, USING GIVEN BUFFER FOR SYSTEM TABLES
Q9CLOSE	ZCLOSE	CLOSE A FILE, RELEASE A BUFFER
R9RWTR	ZPTREC	WRITE VARIABLE LENGTH RANDOM ACCESS ENDING WITH RECORD MARK OR OTHER EXTRA WORD
R9READW	ZGTREC	READ VARIABLE LENGTH RANDOM ACCESS

UTILITIES: PROGRAMS AND SUBROUTINES

ZLIST -----

THIS PROGRAM INVENTORIES A DSS FILE AS DOES THE SUBROUTINE ZLIST. IT INCLUDES THE OPTION OF HAVING A FILE MADE OF THE PATHNAMES IN THE FILE. THIS OUTPUT FILE IS IN THE CORRECT FORMAT TO USE IN ZDELETE, ZCHECK, AND ZCOPY.

CALL SEQUENCE: ZLIST FILE=AREANAME (MAP=NAMEFILE)

WHERE AREANAME IS THE NAME OF THE DSS FILE, AND NAMEFILE IS THE NAME OF THE OPTIONALLY GENERATED PATHNAME FILE. IF A 'MAP=' CALL IS MADE, THE OUTPUT FILE PATHNAMES WILL START IN COLUMN 1, USING SLASHES AS DELIMITERS.

ZCOMPRS -----

THIS PROGRAM COMPRESSES THE DSS FILE, ELIMINATING INACTIVE SPACE THAT MAY HAVE BEEN CREATED BY REWRITING, RENAMING, OR DELETING. SINCE TEMPORARY FILE U2 IS USED BY THE PROGRAM, BE SURE ITS CONTENTS ARE RELOCATED IF NEED BE.

CALL SEQUENCE: ZCOMPRS FILE=AREANAME

WHERE AREANAME IS THE NAME OF THE FILE TO BE COMPRESSED.

ZDELETE -----

THIS PROGRAM DELETES RECORDS FROM A DSS FILE, GIVEN THE PATHNAME. IT MAY BE RUN WITH INTERACTIVE INPUT OR WITH A AN INPUT FILE.

CALL SEQUENCE: ZDELETE FILE=AREANAME (INPUT=NAMELIST)

WHERE AREANAME IS THE NAME OF THE DSS FILE TO BE EDITED AND NAMELIST IS THE OPTIONAL INPUT FILE CONTAINING THE PATHNAMES TO BE DELETED. IF 'INPUT=' IS NOT USED, PATHNAMES ARE TO BE INPUT INTERACTIVELY. THE INPUT PATHNAMES SHOULD START IN COLUMN ONE AND USE SLASHES AS DELIMITERS.

ZRENAME -----

THIS PROGRAM CHANGES THE PATHNAMES OF DSS RECORDS.

CALL SEQUENCE: ZRENAME FILE=AREANAME (INPUT=NAMELIST)

WHERE AREANAME IS THE NAME OF THE DSS FILE, AND
NAMELIST IS THE OPTIONAL INPUT FILE OF PATHNAMES.
IF 'INPUT=' IS NOT USED, PATHNAMES ARE TO BE
INPUT INTERACTIVELY.
THE INPUT PATHNAMES SHOULD START IN COLUMN ONE
AND USE SLASHES AS DELIMITERS.
PATHNAME SEQUENCE MUST BE OLD, NEW, OLD, NEW, ...
WITH EACH PATHNAME ON A SEPARATE LINE.

ZCOPY -----

THIS PROGRAM CAN BE USED TO ACCOMPLISH ANY ONE
OF THESE ACTIONS:

- 1) COPY ALL OF A DSS FILE TO A NEW FILE
- 2) MERGE ALL OF A DSS FILE WITH AN EXISTING FILE
- 3) COPY/MERGE PART OF A DSS FILE TO ANOTHER FILE.

CALL SEQUENCE:

ZCOPY FILE=AREANAME TO=NEXTFILE (I=ALL OR I=NAMELIST)

WHERE AREANAME IS THE NAME OF THE ORIGINAL DSS FILE
TO BE COPIED, AND NEXTFILE IS THE NAME OF THE FILE
IN WHICH TO PLACE THE COPY (FOR COPYING), OR THE NAME
OF THE FILE WITH WHICH TO MERGE (FOR MERGING).
NAMELIST IS THE NAME OF THE FILE CONTAINING THE PATH-
NAMES TO BE MOVED (FOR A PARTIAL MERGE OR COPY). IF
'I=' IS OMITTED, THESE PATHNAMES WILL BE EXPECTED
INTERACTIVELY. WHEN MOVING PART OF A FILE,
THE INPUT PATHNAMES SHOULD START IN COLUMN ONE
AND USE SLASHES AS DELIMITERS.
IF ALL OF THE FIRST FILE IS TO BE MOVED, USE 'I=ALL'.

NOTE THAT IN ALL CASES THE ORIGINAL FILE IS UNCHANGED.

ZCOPY EXAMPLES:

ZCOPY FILE=DSSOUT TO=NEWDSS I=ALL

IF NEWDSS WAS A NONEMPTY FILE, ALL OF THE DATA IN
DSSOUT WILL BE MERGED INTO NEWDSS.
IF NEWDSS IS AN EMPTY FILE, DSSOUT WILL BE DUPLICATED
AND THE COPY WILL BE CALLED NEWDSS.

ZCOPY FILE=DSSOUT TO=NEWDSS I=NAMES

ONLY THOSE PATHNAMES IN THE INPUT FILE 'NAMES' WILL
BE DUPLICATED IN THE (NEW OR OLD) FILE NEWDSS.

ZCOPY FILE=DSSOUT TO=NEWDSS

SAME AS ABOVE. PATHNAMES TO BE INPUT INTERACTIVELY

ZCHECK -----

SIMILAR TO SUBROUTINE ZCHECK, THIS PROGRAM SEARCHES A DSS FILE FOR THE RECORD CORRESPONDING TO THE PATHNAME INPUT. IF FOUND, THE SIZE OF THE HEADER AND DATA ARRAYS ARE RETURNED.

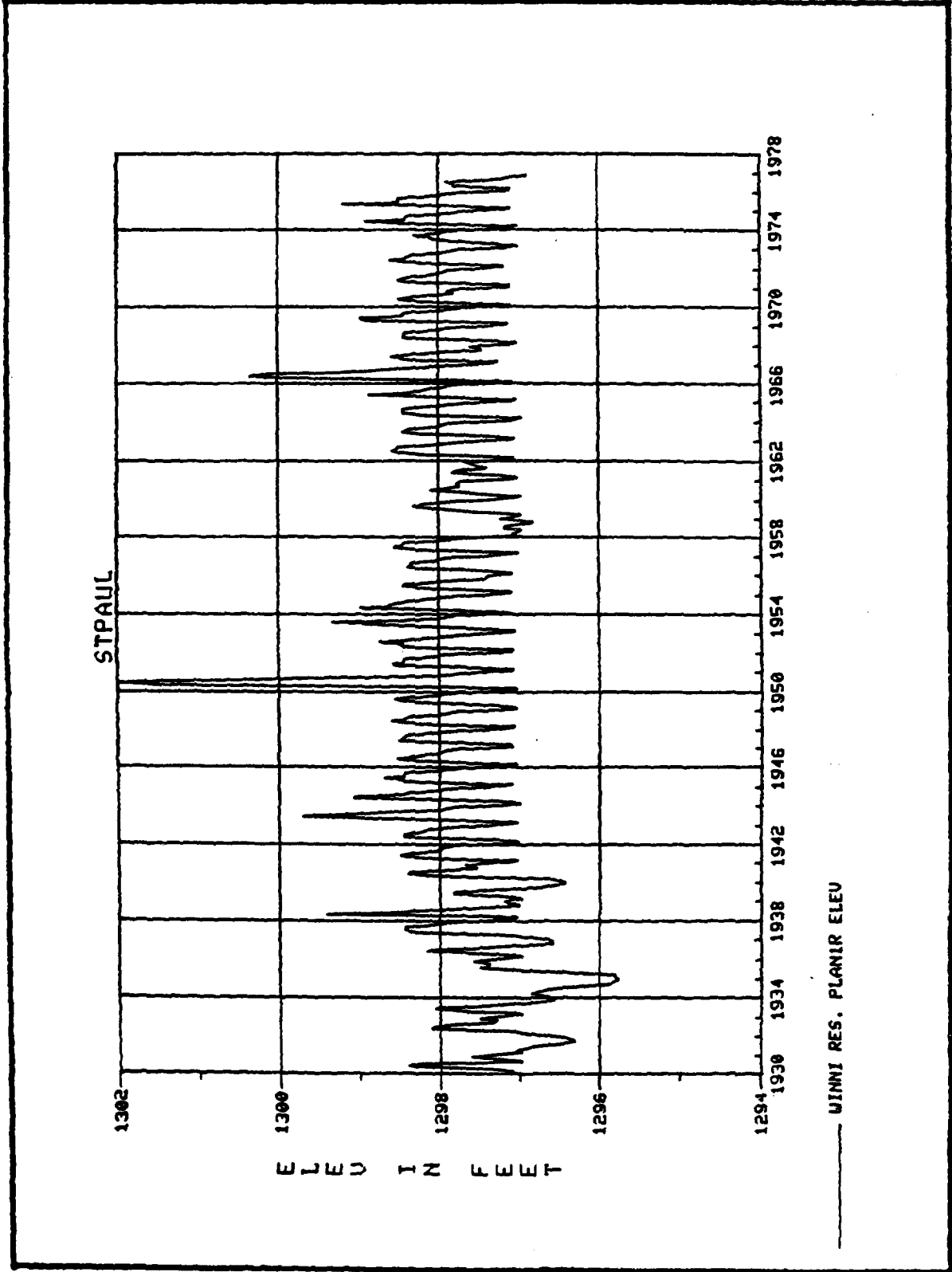
CALL SEQUENCE: ZCHECK FILE=AREANAME (INPUT=NAMelist)
WHERE AREANAME IS THE NAME OF THE DSS FILE TO CHECK, AND NAMelist IS THE NAME OF THE OPTIONAL INPUT FILE CONTAINING THE PATHNAMES TO BE CHECKED. IF 'INPUT=' IS NOT USED, THE PATHNAMES WILL BE EXPECTED INTERACTIVELY. THE INPUT PATHNAMES SHOULD START IN COLUMN ONE AND USE SLASHES AS DELIMITERS.

APPENDIX E

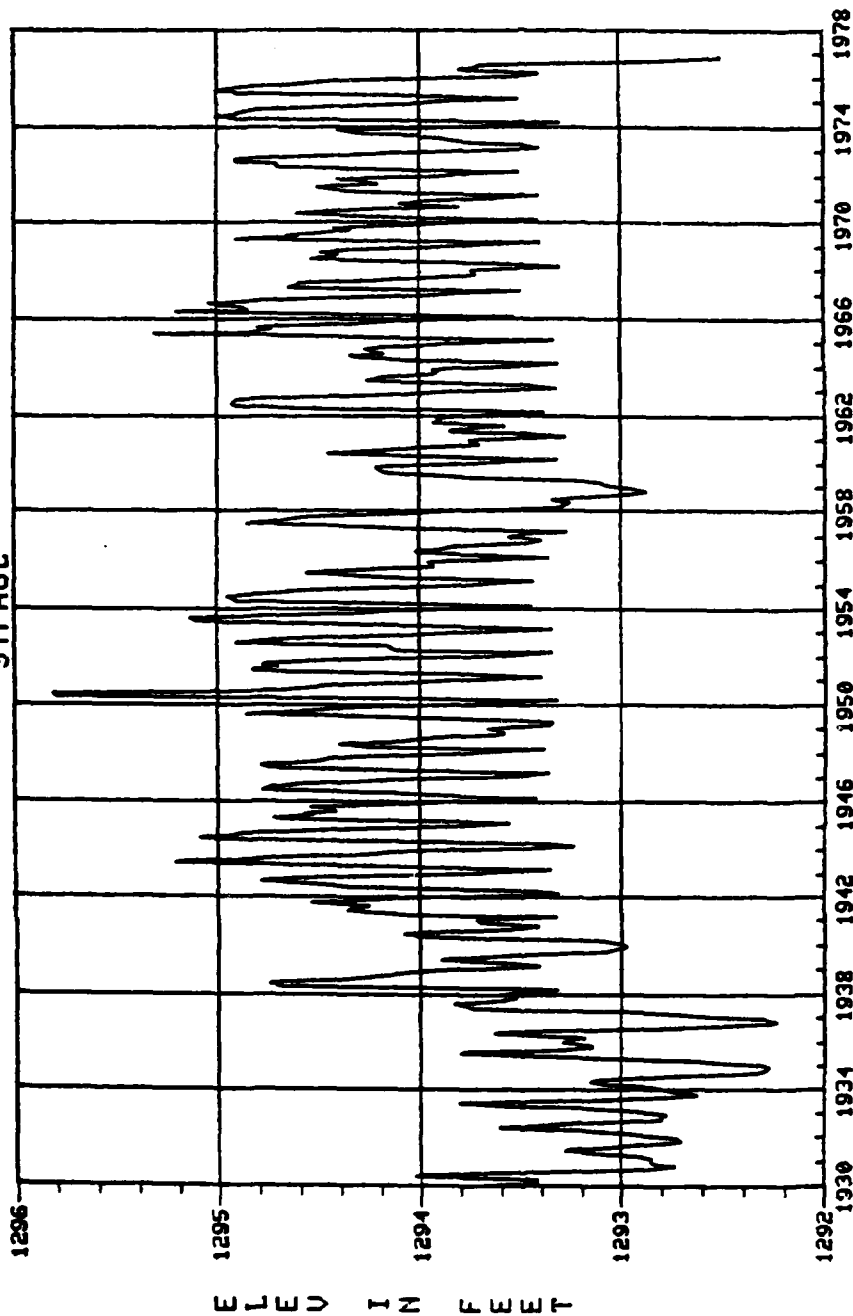
PLAN 1

TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

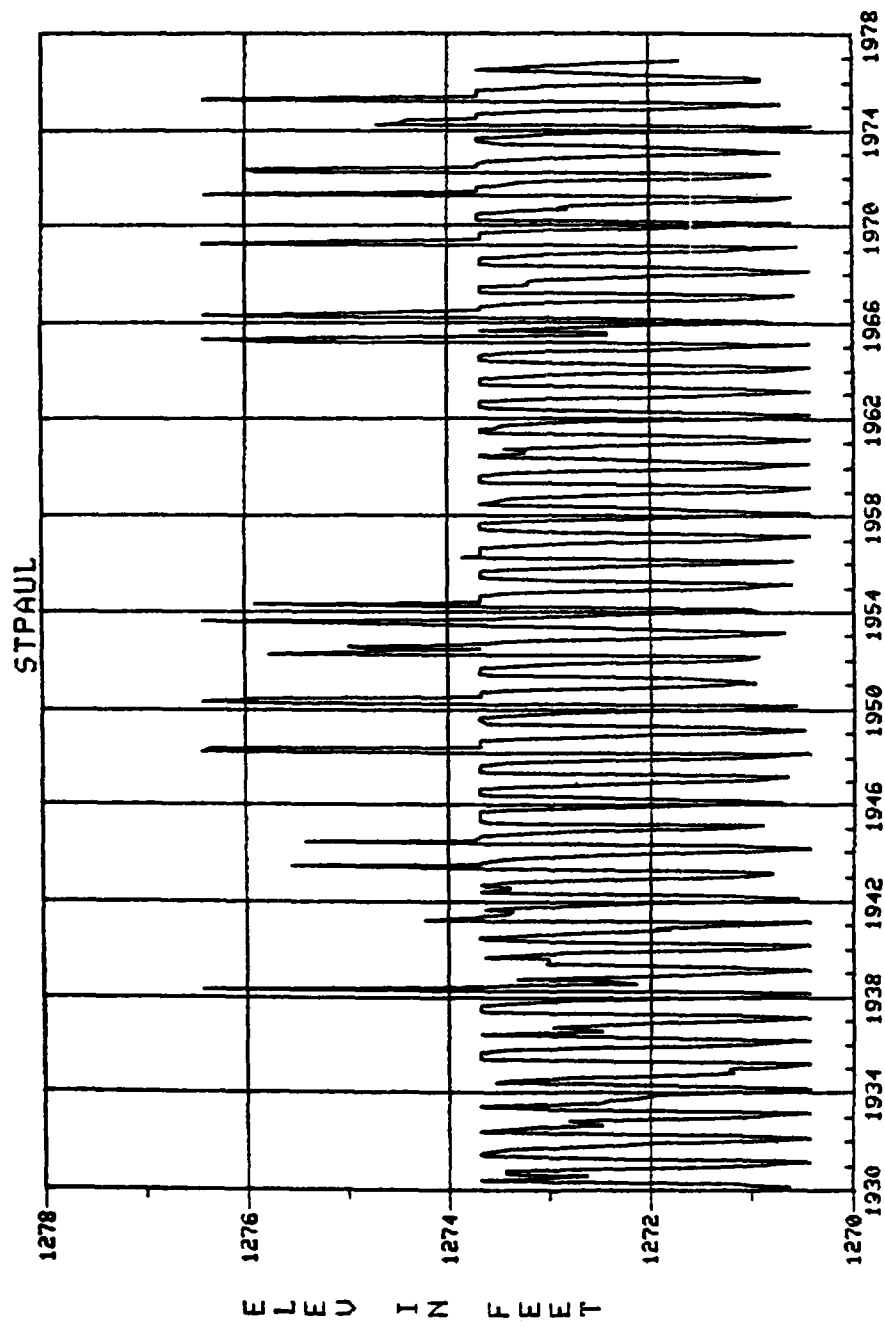
Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.



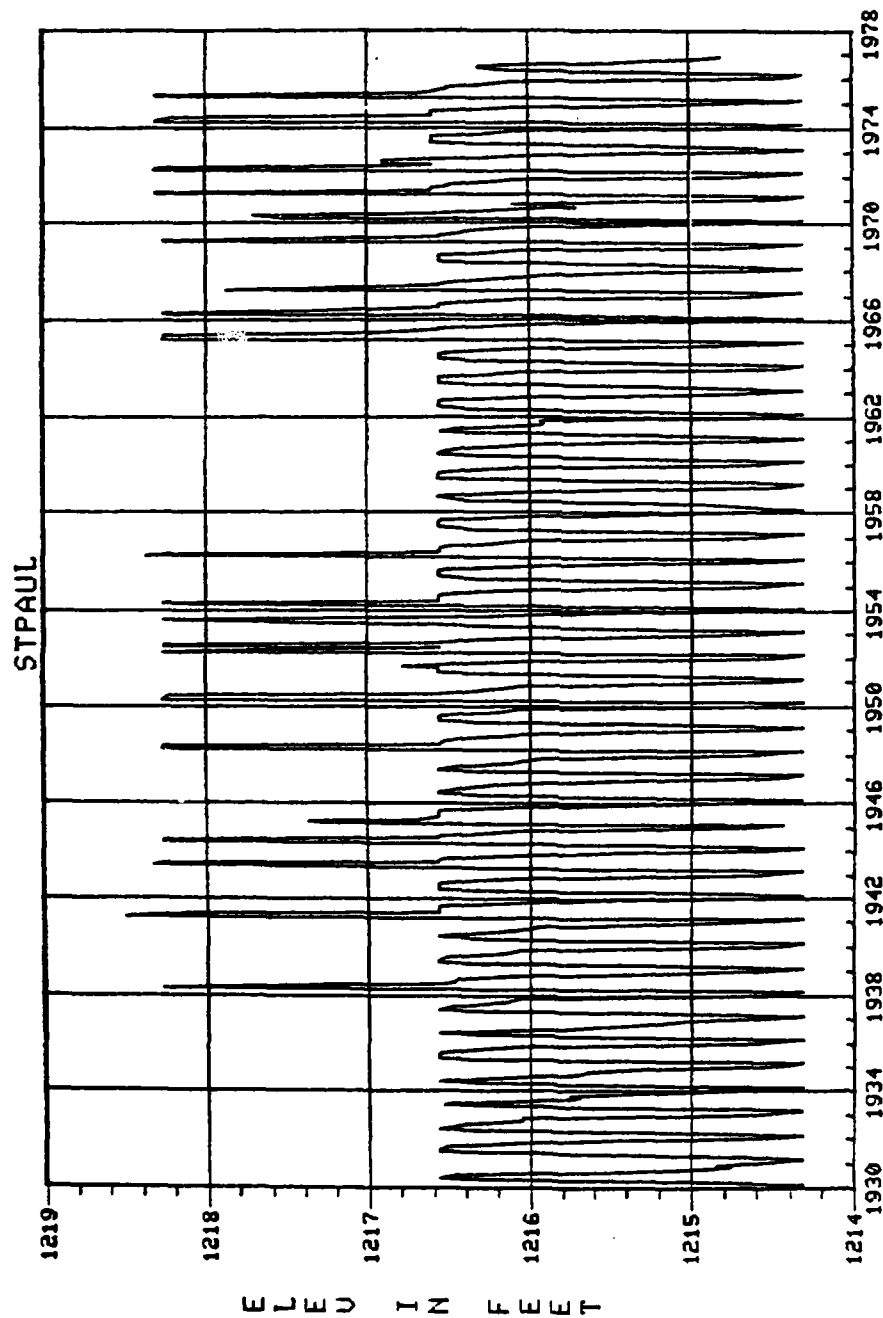
STPAUL



LEECH RES. PLANIR ELEV

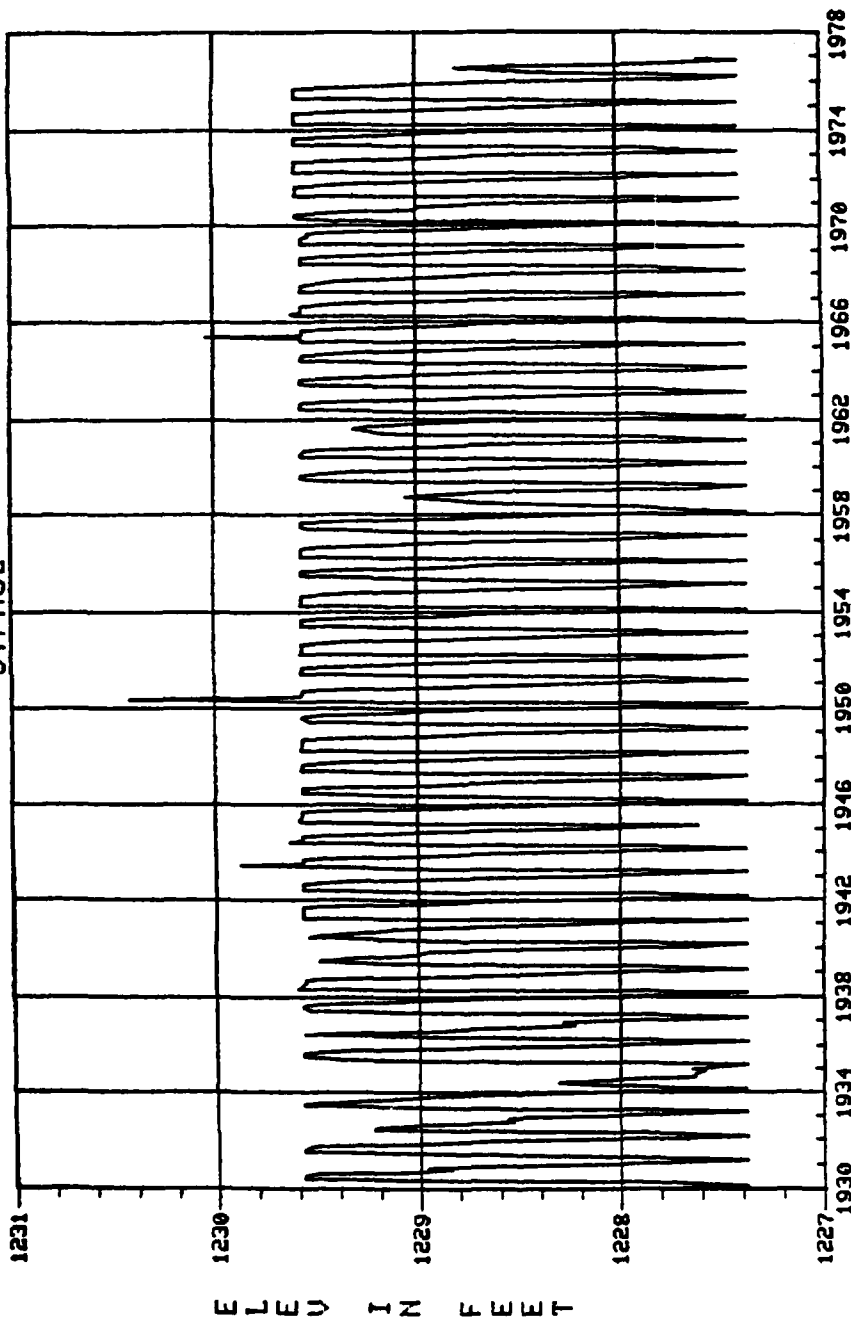


POKEGAMA RES. PLAN1R ELEV

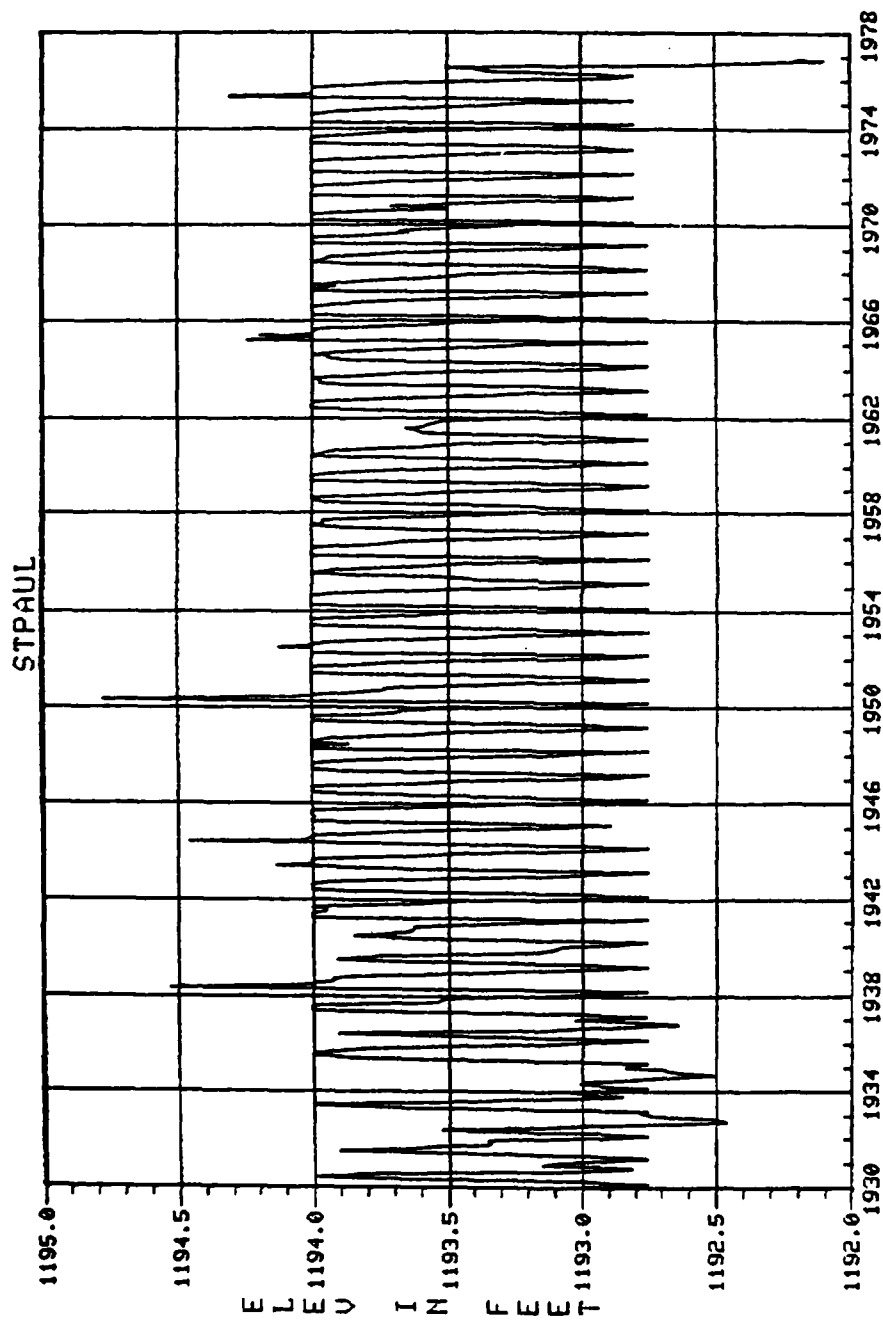


— SANDY RES. PLANIR ELEV

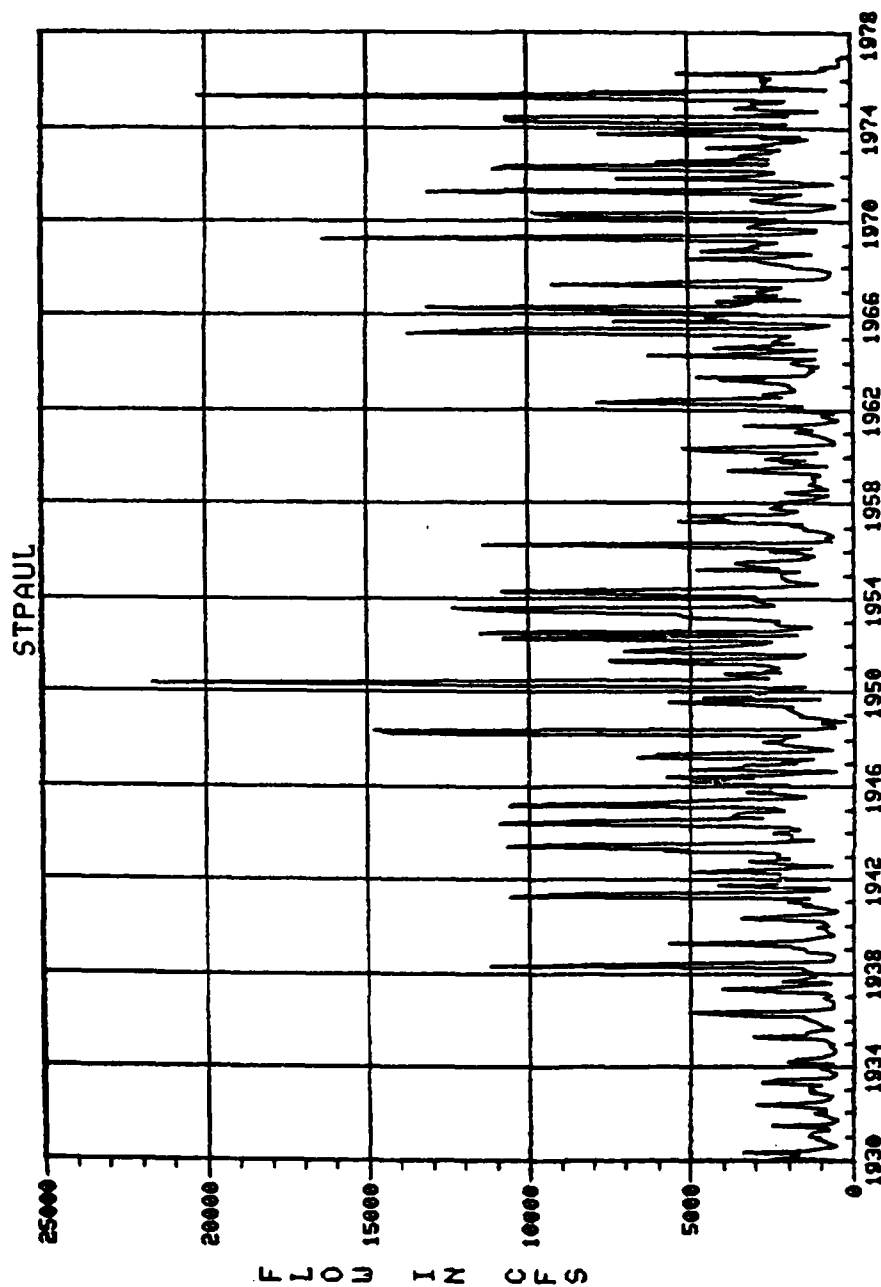
STPAUL

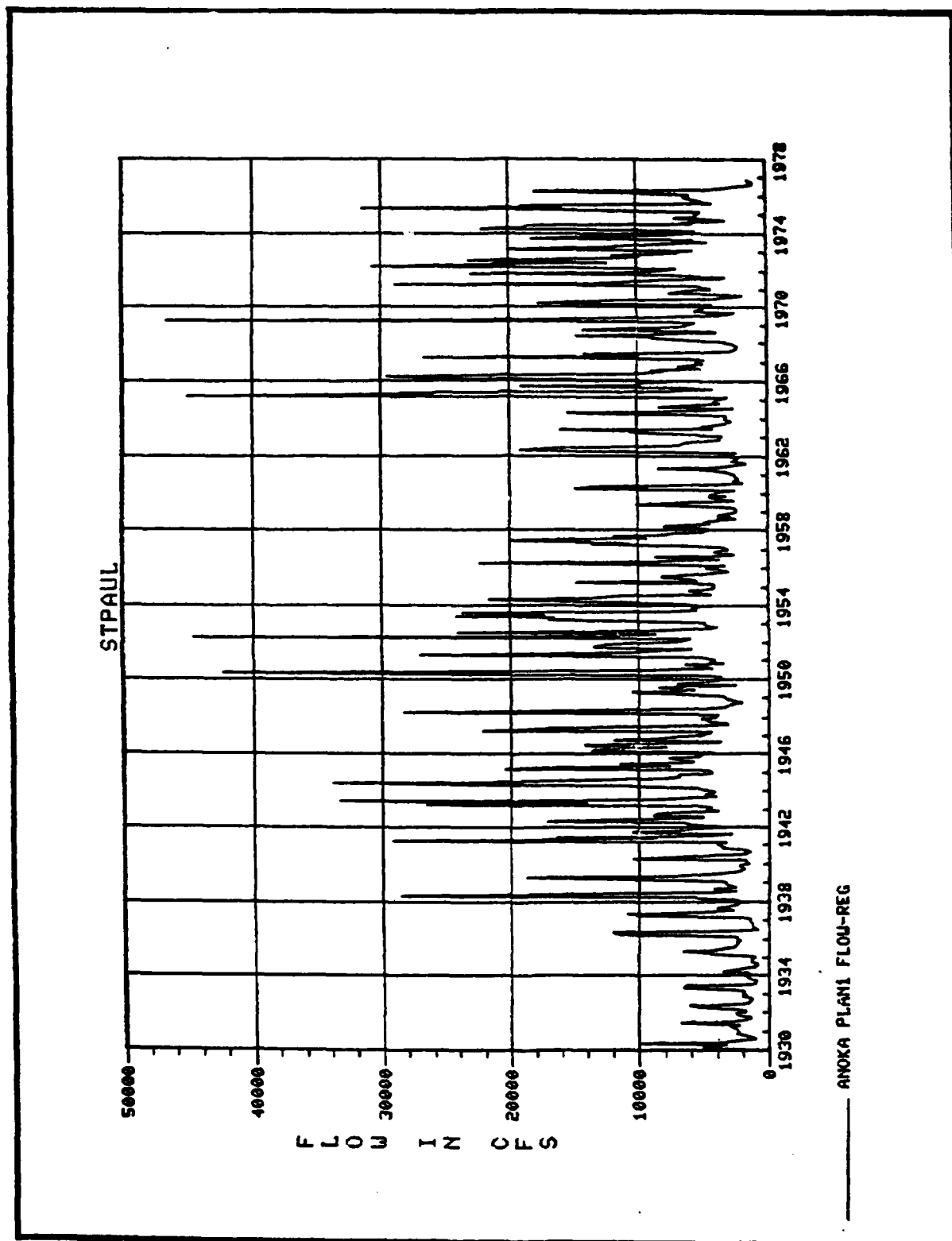


— PINE RES. PLANIR ELEV



— GULL RES. PLANIR ELEU





- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1298.4	* 1	* 1950	* 1302.0	* 2.08	*
* 5	* -1	* 1931	* 1297.0	* 2	* 1966	* 1300.4	* 4.17	*
* 6	* -1	* 1932	* 1298.1	* 3	* 1943	* 1299.7	* 6.25	*
* 6	* -1	* 1933	* 1298.0	* 4	* 1938	* 1299.4	* 8.33	*
* 5	* -1	* 1934	* 1296.8	* 5	* 1953	* 1299.3	* 10.42	*
* 8	* -1	* 1935	* 1297.5	* 6	* 1975	* 1299.2	* 12.50	*
* 6	* -1	* 1936	* 1298.1	* 7	* 1944	* 1299.1	* 14.58	*
* 7	* -1	* 1937	* 1298.4	* 8	* 1954	* 1299.0	* 16.67	*
* 5	* -1	* 1938	* 1299.4	* 9	* 1969	* 1299.0	* 18.75	*
* 7	* -1	* 1939	* 1297.8	* 10	* 1974	* 1298.9	* 20.83	*
* 6	* -1	* 1940	* 1298.4	* 11	* 1965	* 1298.9	* 22.92	*
* 6	* -1	* 1941	* 1298.5	* 12	* 1952	* 1298.7	* 25.00	*
* 6	* -1	* 1942	* 1298.4	* 13	* 1945	* 1298.7	* 27.08	*
* 6	* -1	* 1943	* 1299.7	* 14	* 1967	* 1298.6	* 29.17	*
* 6	* -1	* 1944	* 1299.1	* 15	* 1948	* 1298.6	* 31.25	*
* 6	* -1	* 1945	* 1298.7	* 16	* 1951	* 1298.6	* 33.33	*
* 6	* -1	* 1946	* 1298.5	* 17	* 1962	* 1298.6	* 35.42	*
* 6	* -1	* 1947	* 1298.5	* 18	* 1972	* 1298.6	* 37.50	*
* 6	* -1	* 1948	* 1298.6	* 19	* 1949	* 1298.5	* 39.58	*
* 8	* -1	* 1949	* 1298.5	* 20	* 1957	* 1298.5	* 41.67	*
* 6	* -1	* 1950	* 1302.0	* 21	* 1971	* 1298.5	* 43.75	*
* 6	* -1	* 1951	* 1298.6	* 22	* 1946	* 1298.5	* 45.83	*
* 8	* -1	* 1952	* 1298.7	* 23	* 1970	* 1298.5	* 47.92	*
* 8	* -1	* 1953	* 1299.3	* 24	* 1947	* 1298.5	* 50.00	*
* 5	* -1	* 1954	* 1299.0	* 25	* 1941	* 1298.5	* 52.08	*
* 6	* -1	* 1955	* 1298.4	* 26	* 1955	* 1298.4	* 54.17	*
* 6	* -1	* 1956	* 1298.4	* 27	* 1942	* 1298.4	* 56.25	*
* 6	* -1	* 1957	* 1298.5	* 28	* 1963	* 1298.4	* 58.33	*
* 7	* -1	* 1958	* 1297.2	* 29	* 1964	* 1298.4	* 60.42	*
* 9	* -1	* 1959	* 1298.3	* 30	* 1968	* 1298.4	* 62.50	*
* 7	* -1	* 1960	* 1298.1	* 31	* 1937	* 1298.4	* 64.58	*
* 6	* -1	* 1961	* 1297.8	* 32	* 1940	* 1298.4	* 66.67	*
* 7	* -1	* 1962	* 1298.6	* 33	* 1930	* 1298.4	* 68.75	*
* 7	* -1	* 1963	* 1298.4	* 34	* 1956	* 1298.4	* 70.83	*
* 6	* -1	* 1964	* 1298.4	* 35	* 1959	* 1298.3	* 72.92	*
* 6	* -1	* 1965	* 1298.9	* 36	* 1973	* 1298.3	* 75.00	*
* 6	* -1	* 1966	* 1300.4	* 37	* 1936	* 1298.1	* 77.08	*
* 6	* -1	* 1967	* 1298.6	* 38	* 1932	* 1298.1	* 79.17	*
* 6	* -1	* 1968	* 1298.4	* 39	* 1960	* 1298.1	* 81.25	*

* 6	* -1	* 1969	* 1299.0	* 40	* 1933	* 1298.0	* 83.33	*
* 6	* -1	* 1970	* 1298.5	* 41	* 1976	* 1297.8	* 85.42	*
* 6	* -1	* 1971	* 1298.5	* 42	* 1939	* 1297.8	* 87.50	*
* 6	* -1	* 1972	* 1298.6	* 43	* 1961	* 1297.8	* 89.58	*
* 9	* -1	* 1973	* 1298.3	* 44	* 1935	* 1297.5	* 91.67	*
* 6	* -1	* 1974	* 1298.9	* 45	* 1958	* 1297.2	* 93.75	*
* 5	* -1	* 1975	* 1299.2	* 46	* 1931	* 1297.0	* 95.83	*
* 5	* -1	* 1976	* 1297.8	* 47	* 1934	* 1296.8	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- WINNI RESERVOIR ELEVATION

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*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
*                               *
* MON DAY YEAR ELEV,FT. * RANK YEAR ELEV,FT. WEIBULL *
*                               *
* 9 -1 1930 1297.0 * 1 1934 1296.0 2.08 *
* 9 -1 1931 1296.3 * 2 1931 1296.3 4.17 *
* 9 -1 1932 1297.6 * 3 1935 1296.4 6.25 *
* 9 -1 1933 1297.1 * 4 1930 1297.0 8.33 *
* 9 -1 1934 1296.0 * 5 1958 1297.0 10.42 *
* 5 -1 1935 1296.4 * 6 1939 1297.0 12.50 *
* 9 -1 1936 1297.2 * 7 1933 1297.1 14.58 *
* 5 -1 1937 1297.9 * 8 1936 1297.2 16.67 *
* 9 -1 1938 1297.4 * 9 1959 1297.3 18.75 *
* 9 -1 1939 1297.0 * 10 1976 1297.3 20.83 *
* 9 -1 1940 1297.8 * 11 1938 1297.4 22.92 *
* 9 -1 1941 1298.0 * 12 1961 1297.4 25.00 *
* 5 -1 1942 1298.0 * 13 1960 1297.6 27.08 *
* 5 -1 1943 1298.1 * 14 1932 1297.6 29.17 *
* 5 -1 1944 1297.9 * 15 1949 1297.6 31.25 *
* 5 -1 1945 1298.4 * 16 1973 1297.6 33.33 *
*
*
*
*
* 9 -1 1946 1298.0 * 17 1967 1297.8 35.42 *
* 5 -1 1947 1298.3 * 18 1940 1297.8 37.50 *
* 5 -1 1948 1298.3 * 19 1970 1297.8 39.58 *
* 5 -1 1949 1297.6 * 20 1937 1297.9 41.67 *
* 9 -1 1950 1299.6 * 21 1955 1297.9 43.75 *
* 7 -1 1951 1298.4 * 22 1953 1297.9 45.83 *
* 9 -1 1952 1298.4 * 23 1944 1297.9 47.92 *
* 5 -1 1953 1297.9 * 24 1941 1298.0 50.00 *
* 9 -1 1954 1298.4 * 25 1942 1298.0 52.08 *
* 9 -1 1955 1297.9 * 26 1963 1298.0 54.17 *
* 5 -1 1956 1298.2 * 27 1968 1298.0 56.25 *
* 5 -1 1957 1298.2 * 28 1946 1298.0 58.33 *
* 5 -1 1958 1297.0 * 29 1971 1298.1 60.42 *
* 5 -1 1959 1297.3 * 30 1962 1298.1 62.50 *
* 5 -1 1960 1297.6 * 31 1964 1298.1 64.58 *
* 9 -1 1961 1297.4 * 32 1943 1298.1 66.67 *
* 5 -1 1962 1298.1 * 33 1965 1298.2 68.75 *
* 5 -1 1963 1298.0 * 34 1957 1298.2 70.83 *
* 5 -1 1964 1298.1 * 35 1956 1298.2 72.92 *
* 9 -1 1965 1298.2 * 36 1947 1298.3 75.00 *
* 9 -1 1966 1299.0 * 37 1948 1298.3 77.08 *
* 9 -1 1967 1297.8 * 38 1972 1298.3 79.17 *
* 5 -1 1968 1298.0 * 39 1954 1298.4 81.25 *
* 8 -1 1969 1298.4 * 40 1952 1298.4 83.33 *
* 9 -1 1970 1297.8 * 41 1969 1298.4 85.42 *
* 9 -1 1971 1298.1 * 42 1945 1298.4 87.50 *
* 9 -1 1972 1298.3 * 43 1951 1298.4 89.58 *
* 5 -1 1973 1297.6 * 44 1974 1298.4 91.67 *
* 7 -1 1974 1298.4 * 45 1975 1298.5 93.75 *
* 9 -1 1975 1298.5 * 46 1966 1299.0 95.83 *
* 9 -1 1976 1297.3 * 47 1950 1299.6 97.92 *
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- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	6	-1	1930	*	1	1950	1295.8	2.08
*	6	-1	1931	*	2	1965	1295.3	4.17
*	6	-1	1932	*	3	1943	1295.2	6.25
*	6	-1	1933	*	4	1966	1295.2	8.33
*	5	-1	1934	*	5	1953	1295.1	10.42
*	7	-1	1935	*	6	1944	1295.1	12.50
*	5	-1	1936	*	7	1974	1295.0	14.58
*	8	-1	1937	*	8	1975	1295.0	16.67
*	6	-1	1938	*	9	1954	1294.9	18.75
*	6	-1	1939	*	10	1962	1294.9	20.83
*	6	-1	1940	*	11	1952	1294.9	22.92
*	9	-1	1941	*	12	1969	1294.9	25.00
*	9	-1	1942	*	13	1972	1294.9	27.08
*	6	-1	1943	*	14	1949	1294.9	29.17
*	7	-1	1944	*	15	1957	1294.8	31.25
*	5	-1	1945	*	16	1951	1294.8	33.33
*	7	-1	1946	*	17	1947	1294.8	35.42
*	7	-1	1947	*	18	1942	1294.8	37.50
*	5	-1	1948	*	19	1946	1294.8	39.58
*	8	-1	1949	*	20	1938	1294.7	41.67
*	6	-1	1950	*	21	1945	1294.7	43.75
*	6	-1	1951	*	22	1967	1294.6	45.83
*	8	-1	1952	*	23	1970	1294.6	47.92
*	8	-1	1953	*	24	1955	1294.6	50.00
*	7	-1	1954	*	25	1968	1294.5	52.08
*	7	-1	1955	*	26	1971	1294.5	54.17
*	6	-1	1956	*	27	1960	1294.4	56.25
*	7	-1	1957	*	28	1941	1294.4	58.33
*	7	-1	1958	*	29	1948	1294.4	60.42
*	9	-1	1959	*	30	1964	1294.3	62.50
*	6	-1	1960	*	31	1963	1294.3	64.58
*	6	-1	1961	*	32	1959	1294.2	66.67
*	7	-1	1962	*	33	1940	1294.1	68.75
*	7	-1	1963	*	34	1956	1294.0	70.83
*	7	-1	1964	*	35	1930	1294.0	72.92
*	6	-1	1965	*	36	1973	1294.0	75.00
*	5	-1	1966	*	37	1939	1293.9	77.08
*	5	-1	1967	*	38	1961	1293.8	79.17
*	7	-1	1968	*	39	1937	1293.8	81.25
*	5	-1	1969	*	40	1933	1293.8	83.33
*	6	-1	1970	*	41	1935	1293.8	85.42
*	7	-1	1971	*	42	1976	1293.8	87.50

*	9	-1	1972	*	43	1936	1293.6	89.58
*	9	-1	1973	*	44	1932	1293.6	91.67
*	6	-1	1974	*	45	1958	1293.3	93.75
*	7	-1	1975	*	46	1931	1293.3	95.83
*	5	-1	1976	*	47	1934	1293.1	97.92

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	DAY	YEAR	ELEV, FT.	* RANK	WATER YEAR	ELEV, FT.	WEIBULL PLOT POS	*		
*	9	-1	1930	1292.9	*	1	1934	1292.3	2.08	*
*	9	-1	1931	1292.9	*	2	1936	1292.4	4.17	*
*	9	-1	1932	1292.9	*	3	1933	1292.7	6.25	*
*	9	-1	1933	1292.7	*	4	1930	1292.9	8.33	*
*	9	-1	1934	1292.3	*	5	1931	1292.9	10.42	*
*	5	-1	1935	1293.1	*	6	1932	1292.9	12.50	*
*	5	-1	1936	1292.4	*	7	1976	1292.9	14.58	*
*	5	-1	1937	1293.5	*	8	1958	1293.0	16.67	*
*	9	-1	1938	1294.2	*	9	1935	1293.1	18.75	*
*	9	-1	1939	1293.3	*	10	1939	1293.3	20.83	*
*	9	-1	1940	1293.6	*	11	1959	1293.4	22.92	*
*	8	-1	1941	1294.3	*	12	1949	1293.5	25.00	*
*	5	-1	1942	1293.8	*	13	1937	1293.5	27.08	*
*	5	-1	1943	1294.2	*	14	1940	1293.6	29.17	*
*	5	-1	1944	1293.9	*	15	1961	1293.6	31.25	*
*	5	-1	1945	1294.4	*	16	1956	1293.7	33.33	*
*	5	-1	1946	1294.1	*	17	1973	1293.7	35.42	*
*	5	-1	1947	1294.4	*	18	1963	1293.7	37.50	*
*	9	-1	1948	1293.9	*	19	1970	1293.8	39.58	*

*	5	-1	1949	1293.5	*	20	1942	1293.8	41.67	*
*	5	-1	1950	1294.5	*	21	1948	1293.9	43.75	*
*	5	-1	1951	1294.4	*	22	1944	1293.9	45.83	*
*	5	-1	1952	1294.1	*	23	1967	1293.9	47.92	*
*	5	-1	1953	1294.2	*	24	1968	1294.0	50.00	*
*	9	-1	1954	1294.7	*	25	1960	1294.0	52.08	*
*	5	-1	1955	1294.1	*	26	1964	1294.0	54.17	*
*	9	-1	1956	1293.7	*	27	1946	1294.1	56.25	*
*	5	-1	1957	1294.1	*	28	1957	1294.1	58.33	*
*	9	-1	1958	1293.0	*	29	1955	1294.1	60.42	*
*	5	-1	1959	1293.4	*	30	1952	1294.1	62.50	*
*	9	-1	1960	1294.0	*	31	1971	1294.2	64.58	*
*	5	-1	1961	1293.6	*	32	1943	1294.2	66.67	*
*	5	-1	1962	1294.4	*	33	1953	1294.2	68.75	*
*	5	-1	1963	1293.7	*	34	1938	1294.2	70.83	*
*	5	-1	1964	1294.0	*	35	1941	1294.3	72.92	*
*	5	-1	1965	1294.6	*	36	1969	1294.3	75.00	*
*	6	-1	1966	1294.9	*	37	1947	1294.4	77.08	*
*	5	-1	1967	1293.9	*	38	1951	1294.4	79.17	*
*	5	-1	1968	1294.0	*	39	1945	1294.4	81.25	*
*	9	-1	1969	1294.3	*	40	1962	1294.4	83.33	*
*	9	-1	1970	1293.8	*	41	1950	1294.5	85.42	*
*	9	-1	1971	1294.2	*	42	1965	1294.6	87.50	*
*	6	-1	1972	1294.7	*	43	1972	1294.7	89.58	*
*	5	-1	1973	1293.7	*	44	1954	1294.7	91.67	*
*	9	-1	1974	1294.8	*	45	1975	1294.7	93.75	*
*	9	-1	1975	1294.7	*	46	1974	1294.8	95.83	*
*	9	-1	1976	1292.9	*	47	1966	1294.9	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIRULL	* PLOT	* FDS
*	6	-1	1930	1273.7	*	1	1938	1276.4	2.08
*	6	-1	1931	1273.7	*	2	1950	1276.4	4.17
*	6	-1	1932	1273.7	*	3	1953	1276.4	6.25
*	6	-1	1933	1273.7	*	4	1965	1276.4	8.33
*	6	-1	1934	1273.5	*	5	1966	1276.4	10.42
*	6	-1	1935	1273.7	*	6	1969	1276.4	12.50
*	6	-1	1936	1273.7	*	7	1975	1276.4	14.58
*	6	-1	1937	1273.7	*	8	1948	1276.3	16.67
*	5	-1	1938	1276.4	*	9	1971	1276.3	18.75
*	9	-1	1939	1273.6	*	10	1972	1276.0	20.83
*	6	-1	1940	1273.7	*	11	1954	1275.9	22.92
*	5	-1	1941	1273.7	*	12	1943	1275.5	25.00
*	6	-1	1942	1273.7	*	13	1944	1275.4	27.08
*	6	-1	1943	1275.5	*	14	1952	1275.3	29.17
*	6	-1	1944	1275.4	*	15	1974	1274.5	31.25
*	5	-1	1945	1273.7	*	16	1945	1273.7	33.33
*	6	-1	1946	1273.7	*	17	1946	1273.7	35.42
*	6	-1	1947	1273.7	*	18	1947	1273.7	37.50
*	5	-1	1948	1276.3	*	19	1937	1273.7	39.58
*	7	-1	1949	1273.7	*	20	1949	1273.7	41.67
*	5	-1	1950	1276.4	*	21	1931	1273.7	43.75
*	6	-1	1951	1273.7	*	22	1951	1273.7	45.83
*	5	-1	1952	1275.3	*	23	1941	1273.7	47.92
*	8	-1	1953	1276.4	*	24	1932	1273.7	50.00
*	5	-1	1954	1275.9	*	25	1940	1273.7	52.08
*	6	-1	1955	1273.7	*	26	1955	1273.7	54.17
*	5	-1	1956	1273.7	*	27	1956	1273.7	56.25
*	6	-1	1957	1273.7	*	28	1957	1273.7	58.33
*	7	-1	1958	1273.7	*	29	1958	1273.7	60.42
*	6	-1	1959	1273.7	*	30	1959	1273.7	62.50
*	6	-1	1960	1273.7	*	31	1960	1273.7	64.58
*	6	-1	1961	1273.7	*	32	1961	1273.7	66.67
*	6	-1	1962	1273.7	*	33	1962	1273.7	68.75
*	6	-1	1963	1273.7	*	34	1963	1273.7	70.83
*	6	-1	1964	1273.7	*	35	1964	1273.7	72.92
*	5	-1	1965	1276.4	*	36	1933	1273.7	75.00
*	5	-1	1966	1276.4	*	37	1967	1273.7	77.08
*	5	-1	1967	1273.7	*	38	1968	1273.7	79.17
*	6	-1	1968	1273.7	*	39	1935	1273.7	81.25
*	5	-1	1969	1276.4	*	40	1970	1273.7	83.33
*	5	-1	1970	1273.7	*	41	1930	1273.7	85.42
*	5	-1	1971	1276.3	*	42	1973	1273.7	87.50
*	5	-1	1972	1276.0	*	43	1942	1273.7	89.58
*	7	-1	1973	1273.7	*	44	1936	1273.7	91.67

*	5	-1	1974	1274.5	*	45	1976	1273.7	93.75
*	5	-1	1975	1276.4	*	46	1939	1273.6	95.83
*	7	-1	1976	1273.7	*	47	1934	1273.5	97.92

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	* *
* 8	* -1	* 1930	* 1272.6	* 1	* 1934	* 1272.1	* 2.08	* *
* 5	* -1	* 1931	* 1272.5	* 2	* 1938	* 1272.1	* 4.17	* *
* 9	* -1	* 1932	* 1272.5	* 3	* 1939	* 1272.1	* 6.25	* *
* 9	* -1	* 1933	* 1272.4	* 4	* 1958	* 1272.2	* 8.33	* *
* 9	* -1	* 1934	* 1272.1	* 5	* 1976	* 1272.3	* 10.42	* *
* 5	* -1	* 1935	* 1272.6	* 6	* 1933	* 1272.4	* 12.50	* *
* 8	* -1	* 1936	* 1272.5	* 7	* 1965	* 1272.4	* 14.58	* *
* 5	* -1	* 1937	* 1272.8	* 8	* 1936	* 1272.5	* 16.67	* *
* 8	* -1	* 1938	* 1272.1	* 9	* 1931	* 1272.5	* 18.75	* *
* 5	* -1	* 1939	* 1272.1	* 10	* 1932	* 1272.5	* 20.83	* *
* 5	* -1	* 1940	* 1272.8	* 11	* 1959	* 1272.5	* 22.92	* *
* 8	* -1	* 1941	* 1273.3	* 12	* 1973	* 1272.5	* 25.00	* *
* 5	* -1	* 1942	* 1272.8	* 13	* 1930	* 1272.6	* 27.08	* *
* 5	* -1	* 1943	* 1272.8	* 14	* 1935	* 1272.6	* 29.17	* *
* 5	* -1	* 1944	* 1272.8	* 15	* 1949	* 1272.7	* 31.25	* *
* 5	* -1	* 1945	* 1273.7	* 16	* 1970	* 1272.8	* 33.33	* *
* 5	* -1	* 1946	* 1272.8	* 17	* 1946	* 1272.8	* 35.42	* *
* 5	* -1	* 1947	* 1272.8	* 18	* 1947	* 1272.8	* 37.50	* *
* 6	* -1	* 1948	* 1273.7	* 19	* 1944	* 1272.8	* 39.58	* *
* 5	* -1	* 1949	* 1272.7	* 20	* 1951	* 1272.8	* 41.67	* *
* 7	* -1	* 1950	* 1273.7	* 21	* 1953	* 1272.8	* 43.75	* *

* 5	* -1	* 1951	* 1272.8	* 22	* 1955	* 1272.8	* 45.83	* *
* 6	* -1	* 1952	* 1273.7	* 23	* 1957	* 1272.8	* 47.92	* *
* 5	* -1	* 1953	* 1272.8	* 24	* 1943	* 1272.8	* 50.00	* *
* 6	* -1	* 1954	* 1273.7	* 25	* 1940	* 1272.8	* 52.08	* *
* 5	* -1	* 1955	* 1272.8	* 26	* 1960	* 1272.8	* 54.17	* *
* 5	* -1	* 1956	* 1273.7	* 27	* 1961	* 1272.8	* 56.25	* *
* 5	* -1	* 1957	* 1272.8	* 28	* 1962	* 1272.8	* 58.33	* *
* 5	* -1	* 1958	* 1272.2	* 29	* 1963	* 1272.8	* 60.42	* *
* 5	* -1	* 1959	* 1272.5	* 30	* 1964	* 1272.8	* 62.50	* *
* 5	* -1	* 1960	* 1272.8	* 31	* 1937	* 1272.8	* 64.58	* *
* 5	* -1	* 1961	* 1272.8	* 32	* 1968	* 1272.8	* 66.67	* *
* 5	* -1	* 1962	* 1272.8	* 33	* 1942	* 1272.8	* 68.75	* *
* 5	* -1	* 1963	* 1272.8	* 34	* 1967	* 1273.2	* 70.83	* *
* 5	* -1	* 1964	* 1272.8	* 35	* 1941	* 1273.3	* 72.92	* *
* 7	* -1	* 1965	* 1272.4	* 36	* 1971	* 1273.5	* 75.00	* *
* 7	* -1	* 1966	* 1273.7	* 37	* 1972	* 1273.6	* 77.08	* *
* 8	* -1	* 1967	* 1273.2	* 38	* 1950	* 1273.7	* 79.17	* *
* 5	* -1	* 1968	* 1272.8	* 39	* 1956	* 1273.7	* 81.25	* *
* 6	* -1	* 1969	* 1273.7	* 40	* 1969	* 1273.7	* 83.33	* *
* 9	* -1	* 1970	* 1272.8	* 41	* 1945	* 1273.7	* 85.42	* *
* 9	* -1	* 1971	* 1273.5	* 42	* 1948	* 1273.7	* 87.50	* *
* 9	* -1	* 1972	* 1273.6	* 43	* 1966	* 1273.7	* 89.58	* *
* 5	* -1	* 1973	* 1272.5	* 44	* 1954	* 1273.7	* 91.67	* *
* 7	* -1	* 1974	* 1273.7	* 45	* 1974	* 1273.7	* 93.75	* *
* 6	* -1	* 1975	* 1273.7	* 46	* 1975	* 1273.7	* 95.83	* *
* 5	* -1	* 1976	* 1272.3	* 47	* 1952	* 1273.7	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- SANDY RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1216.6	* 1	* 1943	* 1218.3	* 2.08	*
* 7	* -1	* 1931	* 1216.6	* 2	* 1938	* 1218.3	* 4.17	*
* 6	* -1	* 1932	* 1216.6	* 3	* 1944	* 1218.3	* 6.25	*
* 6	* -1	* 1933	* 1216.5	* 4	* 1948	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1216.6	* 5	* 1950	* 1218.3	* 10.42	*
* 6	* -1	* 1935	* 1216.6	* 6	* 1952	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.6	* 7	* 1953	* 1218.3	* 14.58	*
* 6	* -1	* 1937	* 1216.6	* 8	* 1954	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1218.3	* 9	* 1956	* 1218.3	* 18.75	*
* 6	* -1	* 1939	* 1216.6	* 10	* 1965	* 1218.3	* 20.83	*
* 6	* -1	* 1940	* 1216.6	* 11	* 1966	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1218.1	* 12	* 1969	* 1218.3	* 25.00	*
* 6	* -1	* 1942	* 1216.6	* 13	* 1971	* 1218.3	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1972	* 1218.3	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1974	* 1218.3	* 31.25	*
* 5	* -1	* 1945	* 1216.7	* 16	* 1975	* 1218.3	* 33.33	*
* 6	* -1	* 1946	* 1216.6	* 17	* 1941	* 1218.1	* 35.42	*
* 6	* -1	* 1947	* 1216.6	* 18	* 1970	* 1217.6	* 37.50	*
* 5	* -1	* 1948	* 1218.3	* 19	* 1967	* 1217.5	* 39.58	*
* 6	* -1	* 1949	* 1216.6	* 20	* 1951	* 1216.8	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1945	* 1216.7	* 43.75	*
* 9	* -1	* 1951	* 1216.8	* 22	* 1949	* 1216.6	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1935	* 1216.6	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1936	* 1216.6	* 50.00	*
* 5	* -1	* 1954	* 1218.3	* 25	* 1937	* 1216.6	* 52.08	*
* 6	* -1	* 1955	* 1216.6	* 26	* 1955	* 1216.6	* 54.17	*
* 5	* -1	* 1956	* 1218.3	* 27	* 1931	* 1216.6	* 56.25	*
* 6	* -1	* 1957	* 1216.6	* 28	* 1957	* 1216.6	* 58.33	*
* 8	* -1	* 1958	* 1216.6	* 29	* 1958	* 1216.6	* 60.42	*
* 6	* -1	* 1959	* 1216.6	* 30	* 1959	* 1216.6	* 62.50	*
* 6	* -1	* 1960	* 1216.6	* 31	* 1960	* 1216.6	* 64.58	*
* 6	* -1	* 1961	* 1216.5	* 32	* 1962	* 1216.6	* 66.67	*
* 6	* -1	* 1962	* 1216.6	* 33	* 1963	* 1216.6	* 68.75	*
* 6	* -1	* 1963	* 1216.6	* 34	* 1964	* 1216.6	* 70.83	*
* 6	* -1	* 1964	* 1216.6	* 35	* 1939	* 1216.6	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1940	* 1216.6	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1968	* 1216.6	* 77.08	*
* 5	* -1	* 1967	* 1217.5	* 38	* 1946	* 1216.6	* 79.17	*
* 6	* -1	* 1968	* 1216.6	* 39	* 1947	* 1216.6	* 81.25	*
* 5	* -1	* 1969	* 1218.3	* 40	* 1942	* 1216.6	* 83.33	*
* 5	* -1	* 1970	* 1217.6	* 41	* 1930	* 1216.6	* 85.42	*
* 5	* -1	* 1971	* 1218.3	* 42	* 1973	* 1216.6	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1932	* 1216.6	* 89.58	*
* 6	* -1	* 1973	* 1216.6	* 44	* 1934	* 1216.6	* 91.67	*
* 5	* -1	* 1974	* 1218.3	* 45	* 1961	* 1216.5	* 93.75	*
* 5	* -1	* 1975	* 1218.3	* 46	* 1933	* 1216.5	* 95.83	*

* 7 -1 1976 1216.3 * 47 1976 1216.3 97.92 *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
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* 9	* -1	* 1930	* 1215.4	* 1	* 1931	* 1214.9	* 2.08	*
* 5	* -1	* 1931	* 1214.9	* 2	* 1958	* 1215.0	* 4.17	*
* 9	* -1	* 1932	* 1216.2	* 3	* 1930	* 1215.4	* 6.25	*
* 5	* -1	* 1933	* 1215.6	* 4	* 1976	* 1215.5	* 8.33	*
* 9	* -1	* 1934	* 1215.7	* 5	* 1936	* 1215.6	* 10.42	*
* 5	* -1	* 1935	* 1216.3	* 6	* 1933	* 1215.6	* 12.50	*
* 9	* -1	* 1936	* 1215.6	* 7	* 1970	* 1215.7	* 14.58	*
* 9	* -1	* 1937	* 1216.3	* 8	* 1934	* 1215.7	* 16.67	*
* 9	* -1	* 1938	* 1216.4	* 9	* 1959	* 1215.8	* 18.75	*
* 5	* -1	* 1939	* 1216.3	* 10	* 1961	* 1215.9	* 20.83	*
* 9	* -1	* 1940	* 1216.1	* 11	* 1947	* 1216.1	* 22.92	*
* 6	* -1	* 1941	* 1216.6	* 12	* 1940	* 1216.1	* 25.00	*
* 5	* -1	* 1942	* 1216.2	* 13	* 1942	* 1216.2	* 27.08	*
* 5	* -1	* 1943	* 1216.3	* 14	* 1967	* 1216.2	* 29.17	*
* 5	* -1	* 1944	* 1216.3	* 15	* 1950	* 1216.2	* 31.25	*
* 6	* -1	* 1945	* 1216.6	* 16	* 1932	* 1216.2	* 33.33	*
* 5	* -1	* 1946	* 1216.3	* 17	* 1937	* 1216.3	* 35.42	*
* 9	* -1	* 1947	* 1216.1	* 18	* 1949	* 1216.3	* 37.50	*
* 9	* -1	* 1948	* 1216.4	* 19	* 1944	* 1216.3	* 39.58	*
* 5	* -1	* 1949	* 1216.3	* 20	* 1951	* 1216.3	* 41.67	*
* 9	* -1	* 1950	* 1216.2	* 21	* 1953	* 1216.3	* 43.75	*
* 5	* -1	* 1951	* 1216.3	* 22	* 1955	* 1216.3	* 45.83	*
* 6	* -1	* 1952	* 1216.6	* 23	* 1957	* 1216.3	* 47.92	*

* 5	* -1	* 1953	* 1216.3	* 24	* 1960	* 1216.3	* 50.00	*
* 6	* -1	* 1954	* 1216.6	* 25	* 1939	* 1216.3	* 52.08	*
* 5	* -1	* 1955	* 1216.3	* 26	* 1962	* 1216.3	* 54.17	*
* 9	* -1	* 1956	* 1216.5	* 27	* 1963	* 1216.3	* 56.25	*
* 5	* -1	* 1957	* 1216.3	* 28	* 1964	* 1216.3	* 58.33	*
* 5	* -1	* 1958	* 1215.0	* 29	* 1943	* 1216.3	* 60.42	*
* 5	* -1	* 1959	* 1215.8	* 30	* 1968	* 1216.3	* 62.50	*
* 5	* -1	* 1960	* 1216.3	* 31	* 1946	* 1216.3	* 64.58	*
* 9	* -1	* 1961	* 1215.9	* 32	* 1973	* 1216.3	* 66.67	*
* 5	* -1	* 1962	* 1216.3	* 33	* 1935	* 1216.3	* 68.75	*
* 5	* -1	* 1963	* 1216.3	* 34	* 1969	* 1216.4	* 70.83	*
* 5	* -1	* 1964	* 1216.3	* 35	* 1948	* 1216.4	* 72.92	*
* 8	* -1	* 1965	* 1216.6	* 36	* 1938	* 1216.4	* 75.00	*
* 7	* -1	* 1966	* 1216.6	* 37	* 1975	* 1216.4	* 77.08	*
* 9	* -1	* 1967	* 1216.2	* 38	* 1971	* 1216.5	* 79.17	*
* 5	* -1	* 1968	* 1216.3	* 39	* 1956	* 1216.5	* 81.25	*
* 9	* -1	* 1969	* 1216.4	* 40	* 1965	* 1216.6	* 83.33	*
* 9	* -1	* 1970	* 1215.7	* 41	* 1952	* 1216.6	* 85.42	*
* 9	* -1	* 1971	* 1216.5	* 42	* 1945	* 1216.6	* 87.50	*
* 7	* -1	* 1972	* 1216.6	* 43	* 1972	* 1216.6	* 89.58	*
* 5	* -1	* 1973	* 1216.3	* 44	* 1954	* 1216.6	* 91.67	*
* 7	* -1	* 1974	* 1216.6	* 45	* 1974	* 1216.6	* 93.75	*
* 9	* -1	* 1975	* 1216.4	* 46	* 1966	* 1216.6	* 95.83	*
* 9	* -1	* 1976	* 1215.5	* 47	* 1941	* 1216.6	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1229.6	* 1	* 1950	* 1230.4	* 2.08	*
* 7	* -1	* 1931	* 1229.6	* 2	* 1965	* 1230.0	* 4.17	*
* 6	* -1	* 1932	* 1229.2	* 3	* 1943	* 1229.9	* 6.25	*
* 6	* -1	* 1933	* 1229.6	* 4	* 1944	* 1229.6	* 8.33	*
* 6	* -1	* 1934	* 1228.3	* 5	* 1966	* 1229.6	* 10.42	*
* 7	* -1	* 1935	* 1229.6	* 6	* 1938	* 1229.6	* 12.50	*
* 6	* -1	* 1936	* 1229.6	* 7	* 1945	* 1229.6	* 14.58	*
* 7	* -1	* 1937	* 1229.6	* 8	* 1937	* 1229.6	* 16.67	*
* 5	* -1	* 1938	* 1229.6	* 9	* 1935	* 1229.6	* 18.75	*
* 7	* -1	* 1939	* 1229.5	* 10	* 1941	* 1229.6	* 20.83	*
* 6	* -1	* 1940	* 1229.5	* 11	* 1942	* 1229.6	* 22.92	*
* 5	* -1	* 1941	* 1229.6	* 12	* 1933	* 1229.6	* 25.00	*
* 6	* -1	* 1942	* 1229.6	* 13	* 1946	* 1229.6	* 27.08	*
* 6	* -1	* 1943	* 1229.9	* 14	* 1947	* 1229.6	* 29.17	*
* 6	* -1	* 1944	* 1229.6	* 15	* 1948	* 1229.6	* 31.25	*
* 5	* -1	* 1945	* 1229.6	* 16	* 1949	* 1229.6	* 33.33	*
* 7	* -1	* 1946	* 1229.6	* 17	* 1930	* 1229.6	* 35.42	*
* 6	* -1	* 1947	* 1229.6	* 18	* 1951	* 1229.6	* 37.50	*
* 5	* -1	* 1948	* 1229.6	* 19	* 1952	* 1229.6	* 39.58	*
* 7	* -1	* 1949	* 1229.6	* 20	* 1953	* 1229.6	* 41.67	*
* 5	* -1	* 1950	* 1230.4	* 21	* 1954	* 1229.6	* 43.75	*
* 6	* -1	* 1951	* 1229.6	* 22	* 1955	* 1229.6	* 45.83	*
* 5	* -1	* 1952	* 1229.6	* 23	* 1956	* 1229.6	* 47.92	*
* 6	* -1	* 1953	* 1229.6	* 24	* 1957	* 1229.6	* 50.00	*
* 5	* -1	* 1954	* 1229.6	* 25	* 1959	* 1229.6	* 52.08	*
* 7	* -1	* 1955	* 1229.6	* 26	* 1960	* 1229.6	* 54.17	*
* 5	* -1	* 1956	* 1229.6	* 27	* 1962	* 1229.6	* 56.25	*
* 7	* -1	* 1957	* 1229.6	* 28	* 1963	* 1229.6	* 58.33	*
* 9	* -1	* 1958	* 1228.9	* 29	* 1964	* 1229.6	* 60.42	*
* 7	* -1	* 1959	* 1229.6	* 30	* 1931	* 1229.6	* 62.50	*
* 6	* -1	* 1960	* 1229.6	* 31	* 1967	* 1229.6	* 64.58	*
* 8	* -1	* 1961	* 1229.3	* 32	* 1968	* 1229.6	* 66.67	*
* 6	* -1	* 1962	* 1229.6	* 33	* 1969	* 1229.6	* 68.75	*
* 7	* -1	* 1963	* 1229.6	* 34	* 1970	* 1229.6	* 70.83	*
* 6	* -1	* 1964	* 1229.6	* 35	* 1971	* 1229.6	* 72.92	*
* 6	* -1	* 1965	* 1230.0	* 36	* 1972	* 1229.6	* 75.00	*
* 5	* -1	* 1966	* 1229.6	* 37	* 1973	* 1229.6	* 77.08	*
* 5	* -1	* 1967	* 1229.6	* 38	* 1974	* 1229.6	* 79.17	*
* 6	* -1	* 1968	* 1229.6	* 39	* 1975	* 1229.6	* 81.25	*
* 5	* -1	* 1969	* 1229.6	* 40	* 1936	* 1229.6	* 83.33	*
* 5	* -1	* 1970	* 1229.6	* 41	* 1940	* 1229.5	* 85.42	*
* 5	* -1	* 1971	* 1229.6	* 42	* 1939	* 1229.5	* 87.50	*
* 5	* -1	* 1972	* 1229.6	* 43	* 1961	* 1229.3	* 89.58	*
* 7	* -1	* 1973	* 1229.6	* 44	* 1932	* 1229.2	* 91.67	*
* 5	* -1	* 1974	* 1229.6	* 45	* 1958	* 1228.9	* 93.75	*
* 5	* -1	* 1975	* 1229.6	* 46	* 1976	* 1228.8	* 95.83	*
* 7	* -1	* 1976	* 1228.8	* 47	* 1934	* 1228.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 5	* -1	* 1930	* 1228.9	* 1	* 1934	* 1227.6	* 2.08	*
* 5	* -1	* 1931	* 1228.1	* 2	* 1976	* 1227.9	* 4.17	*
* 5	* -1	* 1932	* 1228.6	* 3	* 1958	* 1228.0	* 6.25	*
* 5	* -1	* 1933	* 1228.7	* 4	* 1931	* 1228.1	* 8.33	*
* 9	* -1	* 1934	* 1227.6	* 5	* 1959	* 1228.6	* 10.42	*
* 5	* -1	* 1935	* 1228.8	* 6	* 1932	* 1228.6	* 12.50	*
* 9	* -1	* 1936	* 1228.7	* 7	* 1955	* 1228.6	* 14.58	*
* 5	* -1	* 1937	* 1228.9	* 8	* 1936	* 1228.7	* 16.67	*
* 8	* -1	* 1938	* 1229.5	* 9	* 1939	* 1228.7	* 18.75	*
* 5	* -1	* 1939	* 1228.7	* 10	* 1933	* 1228.7	* 20.83	*
* 5	* -1	* 1940	* 1228.9	* 11	* 1961	* 1228.7	* 22.92	*
* 5	* -1	* 1941	* 1229.6	* 12	* 1946	* 1228.8	* 25.00	*
* 5	* -1	* 1942	* 1228.9	* 13	* 1935	* 1228.8	* 27.08	*
* 5	* -1	* 1943	* 1228.9	* 14	* 1963	* 1228.8	* 29.17	*
* 5	* -1	* 1944	* 1228.9	* 15	* 1930	* 1228.9	* 31.25	*
* 6	* -1	* 1945	* 1229.6	* 16	* 1949	* 1228.9	* 33.33	*
* 5	* -1	* 1946	* 1228.8	* 17	* 1937	* 1228.9	* 35.42	*
* 5	* -1	* 1947	* 1228.9	* 18	* 1957	* 1228.9	* 37.50	*
* 5	* -1	* 1948	* 1229.6	* 19	* 1940	* 1228.9	* 39.58	*
* 5	* -1	* 1949	* 1228.9	* 20	* 1973	* 1228.9	* 41.67	*
* 7	* -1	* 1950	* 1229.6	* 21	* 1951	* 1228.9	* 43.75	*
* 5	* -1	* 1951	* 1228.9	* 22	* 1953	* 1228.9	* 45.83	*
* 5	* -1	* 1952	* 1229.6	* 23	* 1947	* 1228.9	* 47.92	*
* 5	* -1	* 1953	* 1228.9	* 24	* 1942	* 1228.9	* 50.00	*
* 5	* -1	* 1954	* 1229.6	* 25	* 1944	* 1228.9	* 52.08	*
* 5	* -1	* 1955	* 1228.6	* 26	* 1960	* 1228.9	* 54.17	*

* 9	* -1	* 1956	* 1229.5	* 27	* 1962	* 1228.9	* 56.25	*
* 5	* -1	* 1957	* 1228.9	* 28	* 1943	* 1228.9	* 58.33	*
* 5	* -1	* 1958	* 1228.0	* 29	* 1964	* 1228.9	* 60.42	*
* 5	* -1	* 1959	* 1228.6	* 30	* 1968	* 1228.9	* 62.50	*
* 5	* -1	* 1960	* 1228.9	* 31	* 1970	* 1229.0	* 64.58	*
* 5	* -1	* 1961	* 1228.7	* 32	* 1967	* 1229.4	* 66.67	*
* 5	* -1	* 1962	* 1228.9	* 33	* 1969	* 1229.5	* 68.75	*
* 5	* -1	* 1963	* 1228.8	* 34	* 1956	* 1229.5	* 70.83	*
* 5	* -1	* 1964	* 1228.9	* 35	* 1938	* 1229.5	* 72.92	*
* 5	* -1	* 1965	* 1229.6	* 36	* 1965	* 1229.6	* 75.00	*
* 6	* -1	* 1966	* 1229.6	* 37	* 1966	* 1229.6	* 77.08	*
* 9	* -1	* 1967	* 1229.4	* 38	* 1948	* 1229.6	* 79.17	*
* 5	* -1	* 1968	* 1228.9	* 39	* 1954	* 1229.6	* 81.25	*
* 8	* -1	* 1969	* 1229.5	* 40	* 1952	* 1229.6	* 83.33	*
* 9	* -1	* 1970	* 1229.0	* 41	* 1941	* 1229.6	* 85.42	*
* 5	* -1	* 1971	* 1229.6	* 42	* 1971	* 1229.6	* 87.50	*
* 5	* -1	* 1972	* 1229.6	* 43	* 1972	* 1229.6	* 89.58	*
* 5	* -1	* 1973	* 1228.9	* 44	* 1945	* 1229.6	* 91.67	*
* 5	* -1	* 1974	* 1229.6	* 45	* 1974	* 1229.6	* 93.75	*
* 5	* -1	* 1975	* 1229.6	* 46	* 1975	* 1229.6	* 95.83	*
* 9	* -1	* 1976	* 1227.9	* 47	* 1950	* 1229.6	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR ELEV,FT. * RANK YEAR ELEV,FT. WEIBULL *
* * * * * * * * * * * * * * * * * * * * * * *
* 6 -1 1930 1194.0 * 1 1950 1194.8 2.08 *
* 7 -1 1931 1193.9 * 2 1938 1194.5 4.17 *
* 6 -1 1932 1193.5 * 3 1944 1194.4 6.25 *
* 6 -1 1933 1194.0 * 4 1975 1194.3 8.33 *
* 5 -1 1934 1193.0 * 5 1965 1194.2 10.42 *
* 7 -1 1935 1194.0 * 6 1943 1194.1 12.50 *
* 6 -1 1936 1193.9 * 7 1952 1194.1 14.58 *
* 6 -1 1937 1194.0 * 8 1937 1194.0 16.67 *
* 5 -1 1938 1194.5 * 9 1941 1194.0 18.75 *
* 7 -1 1939 1193.9 * 10 1942 1194.0 20.83 *
* 6 -1 1940 1193.8 * 11 1935 1194.0 22.92 *
* 5 -1 1941 1194.0 * 12 1945 1194.0 25.00 *
* 6 -1 1942 1194.0 * 13 1946 1194.0 27.08 *
* 6 -1 1943 1194.1 * 14 1947 1194.0 29.17 *
* 6 -1 1944 1194.4 * 15 1948 1194.0 31.25 *
* 5 -1 1945 1194.0 * 16 1949 1194.0 33.33 *
* 7 -1 1946 1194.0 * 17 1951 1194.0 35.42 *
* 6 -1 1947 1194.0 * 18 1953 1194.0 37.50 *
* 5 -1 1948 1194.0 * 19 1954 1194.0 39.58 *
* 6 -1 1949 1194.0 * 20 1955 1194.0 41.67 *
* 5 -1 1950 1194.8 * 21 1956 1194.0 43.75 *
* 6 -1 1951 1194.0 * 22 1957 1194.0 45.83 *
* 7 -1 1952 1194.1 * 23 1958 1194.0 47.92 *
* 6 -1 1953 1194.0 * 24 1959 1194.0 50.00 *
* 5 -1 1954 1194.0 * 25 1960 1194.0 52.08 *
* 8 -1 1955 1194.0 * 26 1962 1194.0 54.17 *
* 5 -1 1956 1194.0 * 27 1963 1194.0 56.25 *
* 7 -1 1957 1194.0 * 28 1964 1194.0 58.33 *
* 8 -1 1958 1194.0 * 29 1966 1194.0 60.42 *
* 6 -1 1959 1194.0 * 30 1967 1194.0 62.50 *
* 6 -1 1960 1194.0 * 31 1968 1194.0 64.58 *
* 8 -1 1961 1193.6 * 32 1969 1194.0 66.67 *
* 6 -1 1962 1194.0 * 33 1970 1194.0 68.75 *
* 9 -1 1963 1194.0 * 34 1971 1194.0 70.83 *
* 9 -1 1964 1194.0 * 35 1972 1194.0 72.92 *
* 6 -1 1965 1194.2 * 36 1973 1194.0 75.00 *
* 5 -1 1966 1194.0 * 37 1974 1194.0 77.08 *
* 5 -1 1967 1194.0 * 38 1933 1194.0 79.17 *
* 7 -1 1968 1194.0 * 39 1930 1194.0 81.25 *
* 5 -1 1969 1194.0 * 40 1939 1193.9 83.33 *
* 5 -1 1970 1194.0 * 41 1931 1193.9 85.42 *
* 5 -1 1971 1194.0 * 42 1936 1193.9 87.50 *
* 5 -1 1972 1194.0 * 43 1940 1193.8 89.58 *
* 6 -1 1973 1194.0 * 44 1961 1193.6 91.67 *
* 5 -1 1974 1194.0 * 45 1932 1193.5 93.75 *
* 5 -1 1975 1194.3 * 46 1976 1193.5 95.83 *
* 7 -1 1976 1193.5 * 47 1934 1193.0 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1193.0	* 1	* 1934	* 1192.5	* 2.08	*
* 5	* -1	* 1931	* 1193.0	* 2	* 1976	* 1192.6	* 4.17	*
* 9	* -1	* 1932	* 1192.6	* 3	* 1932	* 1192.6	* 6.25	*
* 9	* -1	* 1933	* 1193.1	* 4	* 1936	* 1192.9	* 8.33	*
* 9	* -1	* 1934	* 1192.5	* 5	* 1931	* 1193.0	* 10.42	*
* 5	* -1	* 1935	* 1193.5	* 6	* 1930	* 1193.0	* 12.50	*
* 9	* -1	* 1936	* 1192.9	* 7	* 1933	* 1193.1	* 14.58	*
* 5	* -1	* 1937	* 1193.6	* 8	* 1955	* 1193.4	* 16.67	*
* 8	* -1	* 1938	* 1193.9	* 9	* 1958	* 1193.4	* 18.75	*
* 5	* -1	* 1939	* 1193.4	* 10	* 1939	* 1193.4	* 20.83	*
* 5	* -1	* 1940	* 1193.6	* 11	* 1970	* 1193.5	* 22.92	*
* 7	* -1	* 1941	* 1193.9	* 12	* 1935	* 1193.5	* 25.00	*
* 5	* -1	* 1942	* 1193.6	* 13	* 1961	* 1193.5	* 27.08	*
* 5	* -1	* 1943	* 1193.6	* 14	* 1944	* 1193.5	* 29.17	*
* 5	* -1	* 1944	* 1193.6	* 15	* 1963	* 1193.5	* 31.25	*
* 6	* -1	* 1945	* 1194.0	* 16	* 1968	* 1193.5	* 33.33	*
* 5	* -1	* 1946	* 1193.6	* 17	* 1959	* 1193.6	* 35.42	*
* 5	* -1	* 1947	* 1193.9	* 18	* 1957	* 1193.6	* 37.50	*
* 6	* -1	* 1948	* 1193.9	* 19	* 1940	* 1193.6	* 39.58	*
* 5	* -1	* 1949	* 1193.6	* 20	* 1946	* 1193.6	* 41.67	*
* 9	* -1	* 1950	* 1193.7	* 21	* 1949	* 1193.6	* 43.75	*
* 5	* -1	* 1951	* 1193.6	* 22	* 1969	* 1193.6	* 45.83	*
* 9	* -1	* 1952	* 1194.0	* 23	* 1953	* 1193.6	* 47.92	*
* 5	* -1	* 1953	* 1193.6	* 24	* 1937	* 1193.6	* 50.00	*
* 5	* -1	* 1954	* 1194.0	* 25	* 1960	* 1193.6	* 52.08	*
* 5	* -1	* 1955	* 1193.4	* 26	* 1942	* 1193.6	* 54.17	*
* 9	* -1	* 1956	* 1193.9	* 27	* 1962	* 1193.6	* 56.25	*
* 5	* -1	* 1957	* 1193.6	* 28	* 1944	* 1193.6	* 58.33	*
* 5	* -1	* 1958	* 1193.4	* 29	* 1943	* 1193.6	* 60.42	*

* 5	* -1	* 1959	* 1193.6	* 30	* 1951	* 1193.6	* 62.50	*
* 5	* -1	* 1960	* 1193.6	* 31	* 1973	* 1193.6	* 64.58	*
* 5	* -1	* 1961	* 1193.5	* 32	* 1950	* 1193.7	* 66.67	*
* 5	* -1	* 1962	* 1193.6	* 33	* 1967	* 1193.8	* 68.75	*
* 5	* -1	* 1963	* 1193.5	* 34	* 1948	* 1193.9	* 70.83	*
* 5	* -1	* 1964	* 1193.5	* 35	* 1956	* 1193.9	* 72.92	*
* 8	* -1	* 1965	* 1194.0	* 36	* 1947	* 1193.9	* 75.00	*
* 9	* -1	* 1966	* 1193.9	* 37	* 1938	* 1193.9	* 77.08	*
* 9	* -1	* 1967	* 1193.8	* 38	* 1974	* 1193.9	* 79.17	*
* 5	* -1	* 1968	* 1193.5	* 39	* 1966	* 1193.9	* 81.25	*
* 9	* -1	* 1969	* 1193.6	* 40	* 1941	* 1193.9	* 83.33	*
* 9	* -1	* 1970	* 1193.5	* 41	* 1971	* 1194.0	* 85.42	*
* 9	* -1	* 1971	* 1194.0	* 42	* 1965	* 1194.0	* 87.50	*
* 5	* -1	* 1972	* 1194.0	* 43	* 1945	* 1194.0	* 89.58	*
* 5	* -1	* 1973	* 1193.6	* 44	* 1952	* 1194.0	* 91.67	*
* 9	* -1	* 1974	* 1193.9	* 45	* 1972	* 1194.0	* 93.75	*
* 6	* -1	* 1975	* 1194.0	* 46	* 1975	* 1194.0	* 95.83	*
* 9	* -1	* 1976	* 1192.6	* 47	* 1954	* 1194.0	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIRULL PLOT POS	*
*	5	-1	1930	*	1	1950	21595.	2.08
*	6	-1	1931	*	2	1975	20217.	4.17
*	5	-1	1932	*	3	1969	16309.	6.25
*	5	-1	1933	*	4	1948	14723.	8.33
*	4	-1	1934	*	5	1965	13688.	10.42
*	5	-1	1935	*	6	1966	13118.	12.50
*	5	-1	1936	*	7	1971	13048.	14.58
*	5	-1	1937	*	8	1953	12249.	16.67
*	5	-1	1938	*	9	1952	11428.	18.75
*	4	-1	1939	*	10	1956	11326.	20.83
*	5	-1	1940	*	11	1938	11150.	22.92
*	4	-1	1941	*	12	1972	11047.	25.00
*	5	-1	1942	*	13	1944	10881.	27.08
*	6	-1	1943	*	14	1954	10760.	29.17
*	6	-1	1944	*	15	1943	10641.	31.25
*	3	-1	1945	*	16	1974	10633.	33.33
*	6	-1	1946	*	17	1941	10543.	35.42
*	4	-1	1947	*	18	1945	10531.	37.50
*	5	-1	1948	*	19	1970	9777.	39.58
*	7	-1	1949	*	20	1967	9203.	41.67
*	5	-1	1950	*	21	1962	7793.	43.75
*	5	-1	1951	*	22	1973	7763.	45.83
*	7	-1	1952	*	23	1951	7442.	47.92
*	8	-1	1953	*	24	1947	6589.	50.00
*	5	-1	1954	*	25	1964	6208.	52.08
*	4	-1	1955	*	26	1946	5688.	54.17

*	4	-1	1956	*	27	1939	5648.	56.25
*	4	-1	1957	*	28	1949	5590.	58.33
*	2	-1	1958	*	29	1976	5325.	60.42
*	6	-1	1959	*	30	1957	5296.	62.50
*	5	-1	1960	*	31	1960	5193.	64.58
*	5	-1	1961	*	32	1968	5037.	66.67
*	5	-1	1962	*	33	1936	5003.	68.75
*	6	-1	1963	*	34	1942	4843.	70.83
*	5	-1	1964	*	35	1955	4693.	72.92
*	4	-1	1965	*	36	1963	4693.	75.00
*	5	-1	1966	*	37	1937	4031.	77.08
*	4	-1	1967	*	38	1959	3794.	79.17
*	6	-1	1968	*	39	1940	3422.	81.25
*	4	-1	1969	*	40	1930	3329.	83.33
*	5	-1	1970	*	41	1961	3246.	85.42
*	4	-1	1971	*	42	1935	3028.	87.50
*	4	-1	1972	*	43	1932	2950.	89.58
*	10	-1	1973	*	44	1933	2757.	91.67
*	6	-1	1974	*	45	1931	2474.	93.75
*	5	-1	1975	*	46	1958	2182.	95.83
*	4	-1	1976	*	47	1934	1984.	97.92

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANOKA FLOW

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*****
*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
* MON DAY YEAR FLOW,CFS * RANK WATER YEAR FLOW,CFS WEIBULL *
*-----*-----*-----*-----*-----*-----*
* 8 -1 1930 1052. * 1 1934 810. 2.08 *
* 9 -1 1931 1347. * 2 1936 827. 4.17 *
* 10 -1 1932 1263. * 3 1933 972. 6.25 *
* 9 -1 1933 972. * 4 1935 1030. 8.33 *
* 8 -1 1934 810. * 5 1976 1048. 10.42 *
* 1 -1 1935 1030. * 6 1930 1052. 12.50 *
* 7 -1 1936 827. * 7 1932 1263. 14.58 *
* 2 -1 1937 1373. * 8 1931 1347. 16.67 *
* 1 -1 1938 2061. * 9 1940 1371. 18.75 *
* 10 -1 1939 1901. * 10 1937 1373. 20.83 *
* 9 -1 1940 1371. * 11 1961 1642. 22.92 *
* 8 -1 1941 2827. * 12 1970 1858. 25.00 *
* 1 -1 1942 3568. * 13 1939 1901. 27.08 *
* 9 -1 1943 4007. * 14 1960 1977. 29.17 *
* 1 -1 1944 4349. * 15 1938 2061. 31.25 *
* 1 -1 1945 4275. * 16 1948 2067. 33.33 *
* 9 -1 1946 3625. * 17 1967 2219. 35.42 *
* 8 -1 1947 3074. * 18 1959 2398. 37.50 *
* 10 -1 1948 2067. * 19 1962 2449. 39.58 *
* 9 -1 1949 2560. * 20 1969 2486. 41.67 *
* 11 -1 1950 3466. * 21 1958 2530. 43.75 *
* 1 -1 1951 4115. * 22 1949 2560. 45.83 *
* 11 -1 1952 3945. * 23 1964 2571. 47.92 *
* 1 -1 1953 4831. * 24 1956 2584. 50.00 *
* 12 -1 1954 4178. * 25 1963 2822. 52.08 *
* 11 -1 1955 3120. * 26 1941 2827. 54.17 *
* 10 -1 1956 2584. * 27 1957 3060. 56.25 *
* 1 -1 1957 3060. * 28 1947 3074. 58.33 *
* 8 -1 1958 2530. * 29 1965 3090. 60.42 *
* 2 -1 1959 2398. * 30 1955 3120. 62.50 *
* 8 -1 1960 1977. * 31 1971 3126. 64.58 *
* 8 -1 1961 1642. * 32 1968 3190. 66.67 *
* 3 -1 1962 2449. * 33 1974 3204. 68.75 *
* 11 -1 1963 2822. * 34 1950 3466. 70.83 *
* 8 -1 1964 2571. * 35 1942 3568. 72.92 *
* 3 -1 1965 3090. * 36 1946 3625. 75.00 *
* 12 -1 1966 4976. * 37 1952 3945. 77.08 *
* 11 -1 1967 2219. * 38 1943 4007. 79.17 *
* 1 -1 1968 3190. * 39 1951 4115. 81.25 *
* 9 -1 1969 2486. * 40 1954 4178. 83.33 *
* 9 -1 1970 1858. * 41 1975 4235. 85.42 *
* 9 -1 1971 3126. * 42 1945 4275. 87.50 *
* 12 -1 1972 6905. * 43 1944 4349. 89.58 *
* 7 -1 1973 4609. * 44 1973 4609. 91.67 *
* 9 -1 1974 3204. * 45 1953 4831. 93.75 *
* 8 -1 1975 4235. * 46 1966 4976. 95.83 *
* 9 -1 1976 1048. * 47 1972 6905. 97.92 *
*****

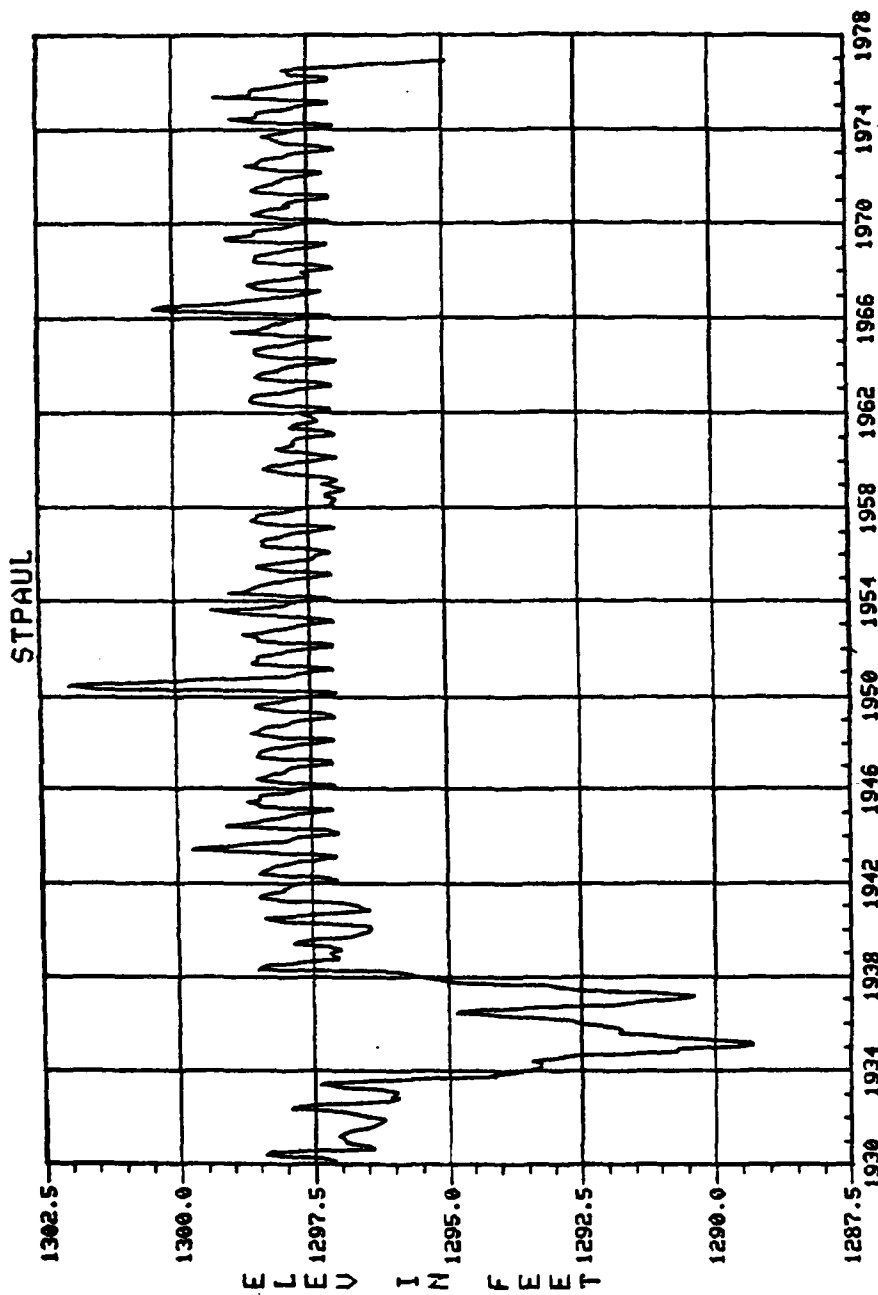
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APPENDIX F

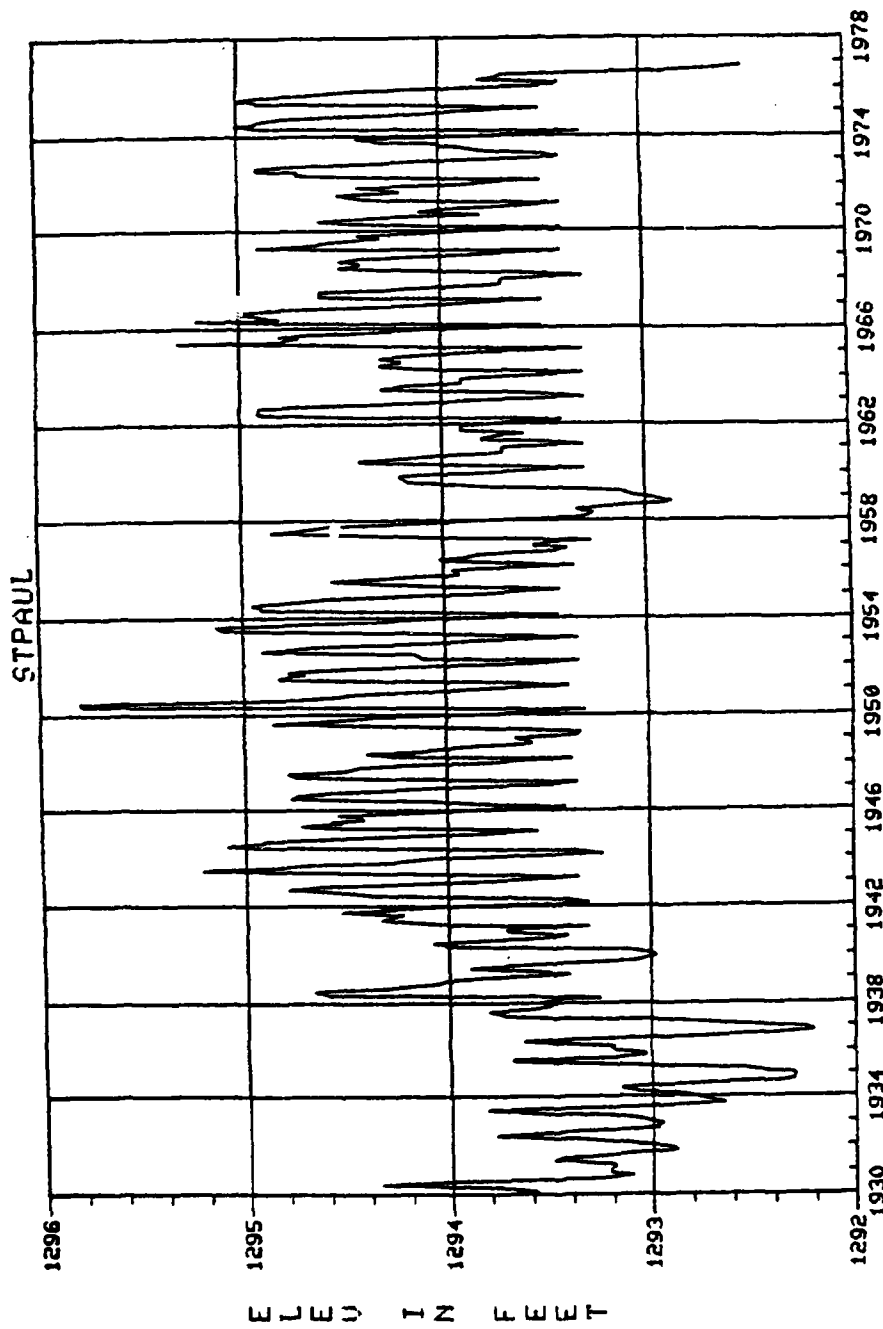
PLAN 2

TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.

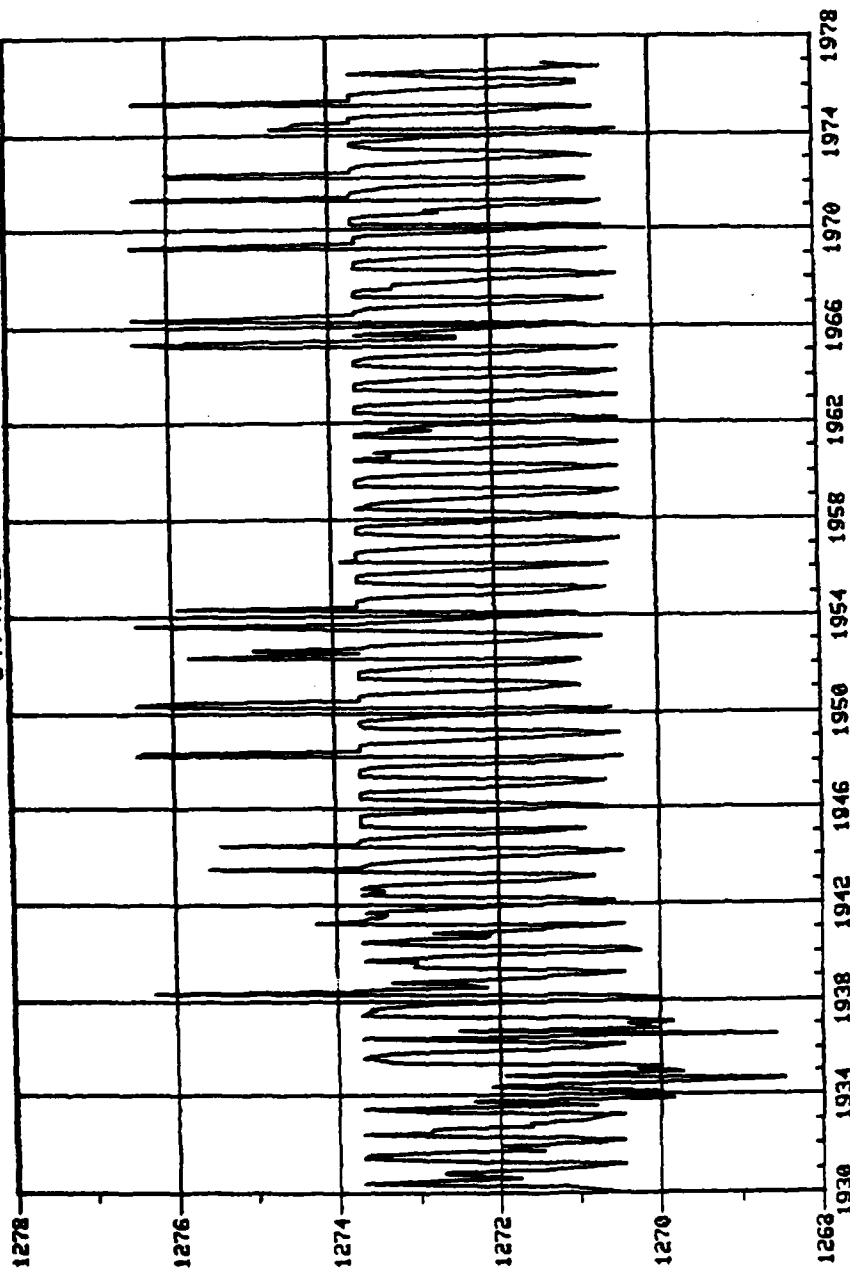


UINNI RES. PLAN2R ELEV



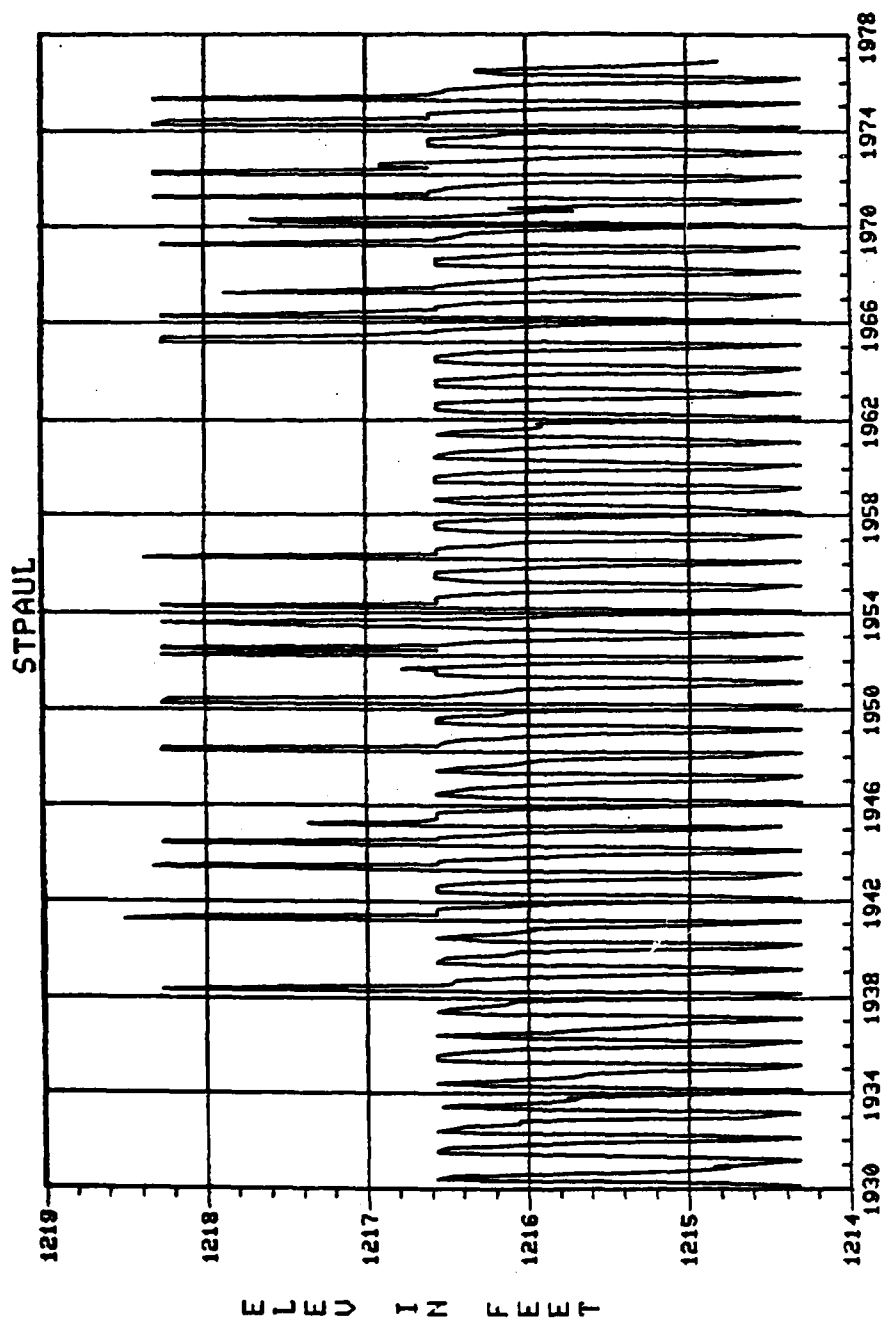
— LEECH RES. PLANER ELEV

STPAUL

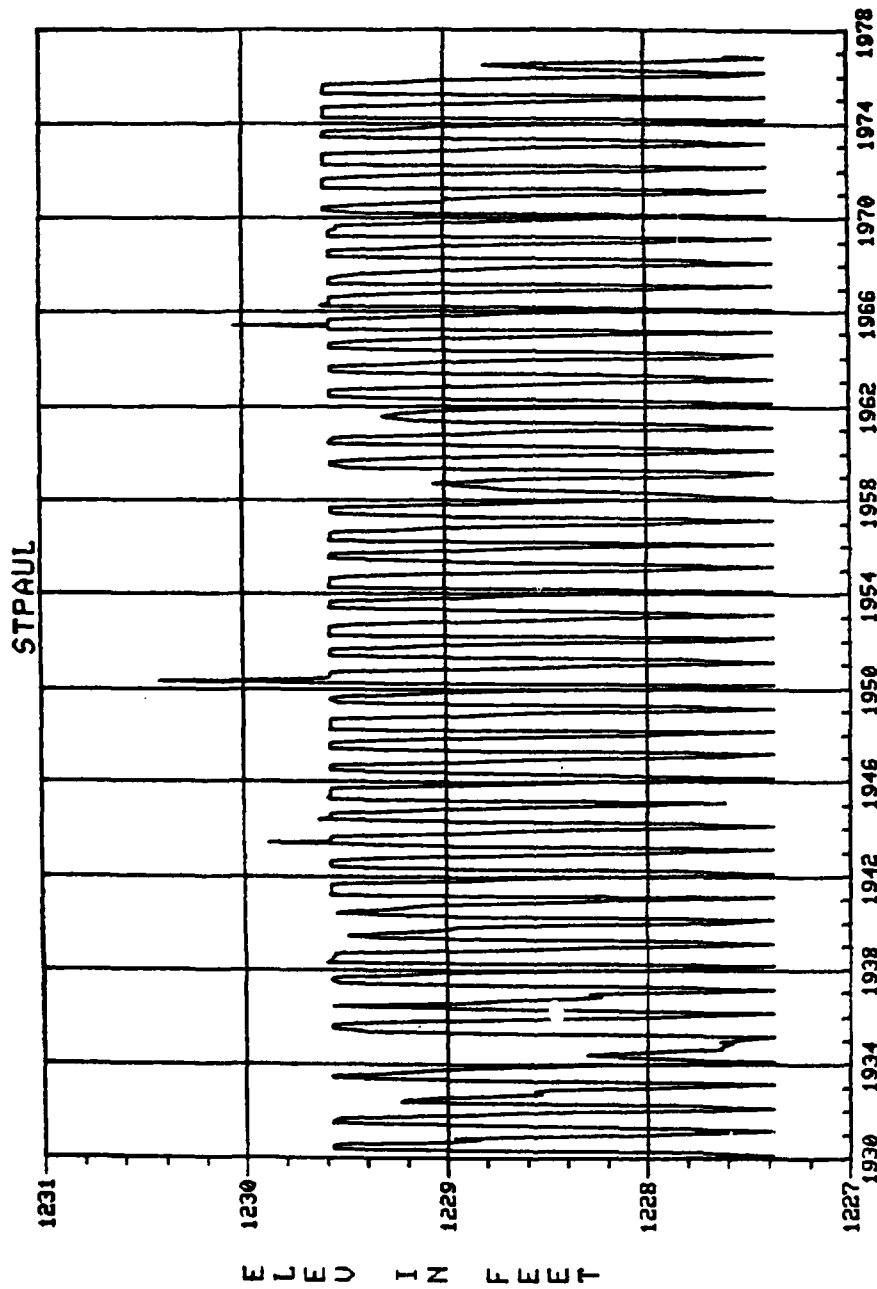


ELEV IN FEET

POKEGAMA RES. PLANER ELEV

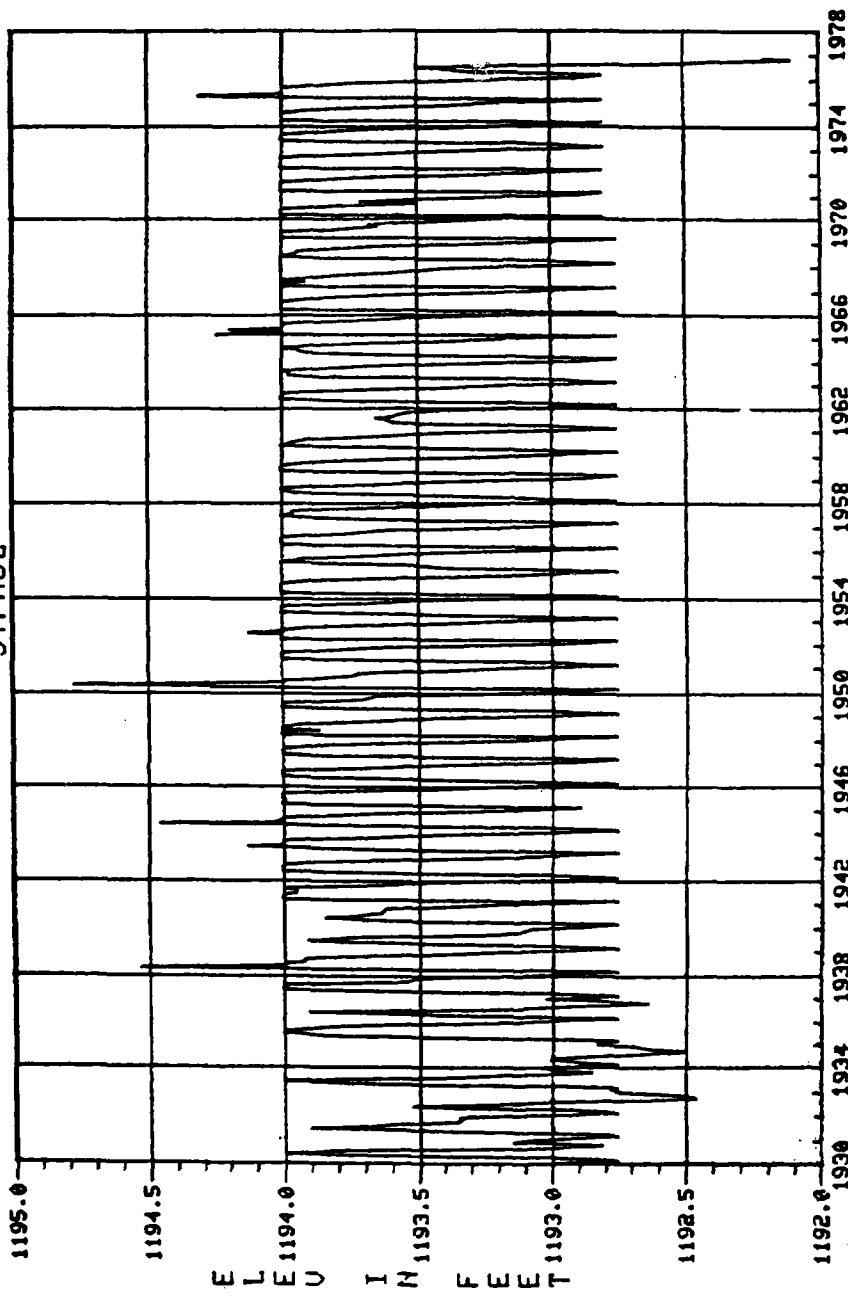


— SANDY RES. PLANER ELEV

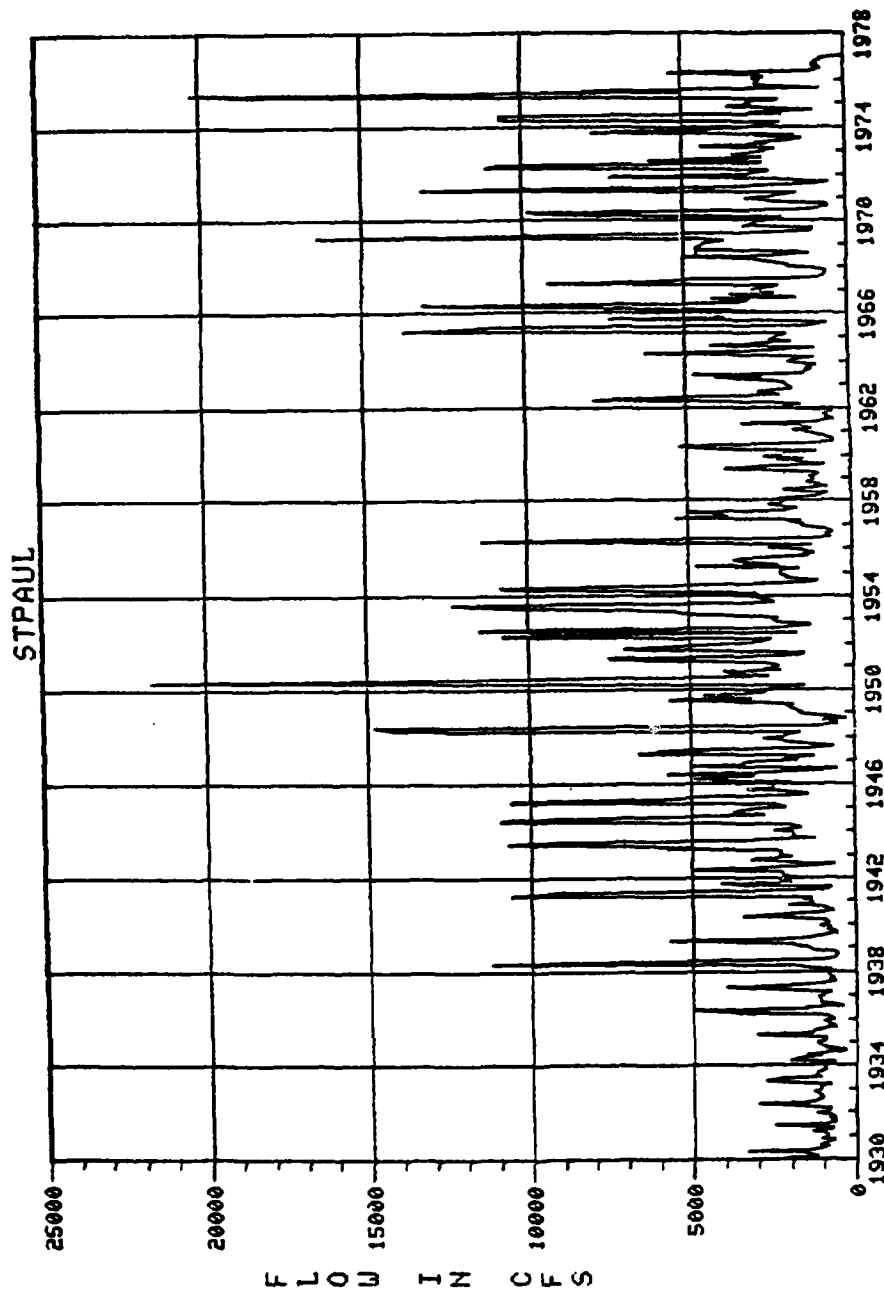


— PINE RES. PLANER ELEV

STPAUL



— GULL RES. PLANER ELEU



AD-A147 015

COMPUTER OPERATIONS STUDY OF RESERVOIR OPERATIONS FOR
SIX MISSISSIPPI RIVER HEADWATERS DAMS APPENDIX A(U)
ANDERSON-NICHOLS AND CO INC PALO ALTO CA JUN 82

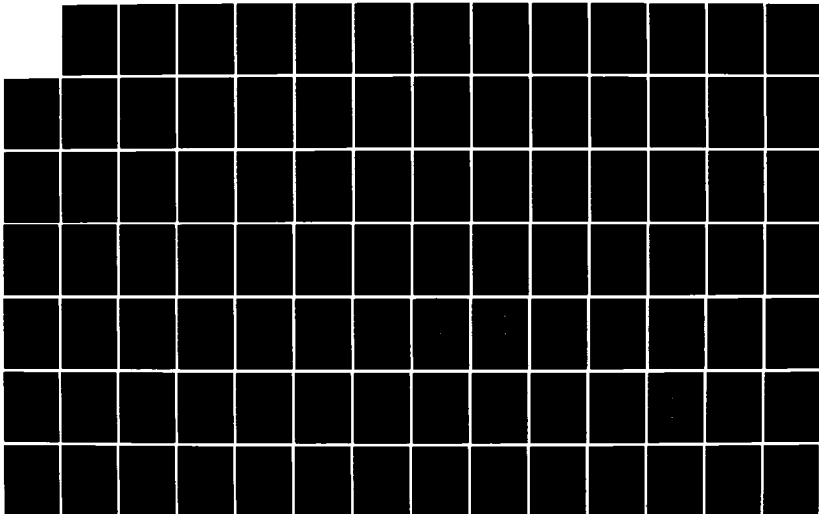
2/3

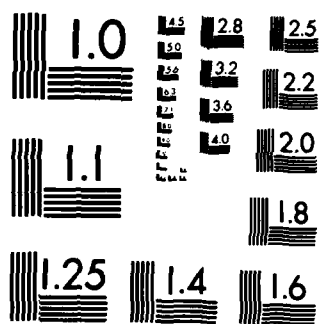
UNCLASSIFIED

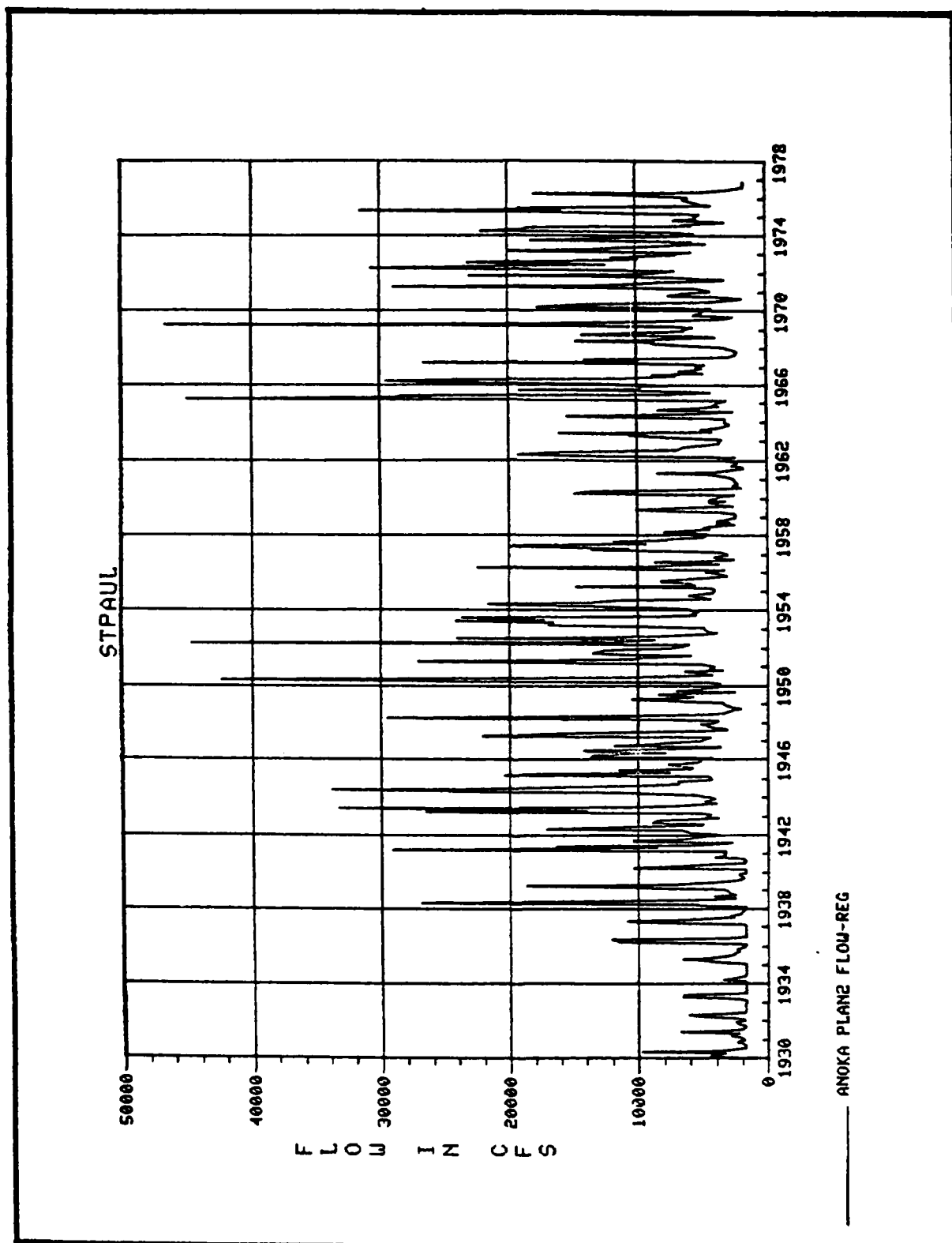
DACH37-81-C-0027

F/G 13/2

NL







- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIRBULL PLOT POS	*
* 6	* -1	* 1930	* 1298.4	* 1	* 1950	* 1302.0	* 2.08	*
* 5	* -1	* 1931	* 1297.0	* 2	* 1966	* 1300.4	* 4.17	*
* 6	* -1	* 1932	* 1297.9	* 3	* 1943	* 1299.7	* 6.25	*
* 6	* -1	* 1933	* 1297.4	* 4	* 1953	* 1299.3	* 8.33	*
* 6	* -1	* 1934	* 1293.4	* 5	* 1975	* 1299.2	* 10.42	*
* 8	* -1	* 1935	* 1291.8	* 6	* 1944	* 1299.1	* 12.50	*
* 6	* -1	* 1936	* 1294.8	* 7	* 1954	* 1299.0	* 14.58	*
* 9	* -1	* 1937	* 1293.8	* 8	* 1969	* 1299.0	* 16.67	*
* 5	* -1	* 1938	* 1298.5	* 9	* 1974	* 1298.9	* 18.75	*
* 7	* -1	* 1939	* 1297.8	* 10	* 1965	* 1298.9	* 20.83	*
* 7	* -1	* 1940	* 1298.3	* 11	* 1952	* 1298.7	* 22.92	*
* 6	* -1	* 1941	* 1298.5	* 12	* 1945	* 1298.7	* 25.00	*
* 6	* -1	* 1942	* 1298.4	* 13	* 1967	* 1298.6	* 27.08	*
* 6	* -1	* 1943	* 1299.7	* 14	* 1948	* 1298.6	* 29.17	*
* 6	* -1	* 1944	* 1299.1	* 15	* 1951	* 1298.6	* 31.25	*
* 6	* -1	* 1945	* 1298.7	* 16	* 1962	* 1298.6	* 33.33	*
* 6	* -1	* 1946	* 1298.5	* 17	* 1972	* 1298.6	* 35.42	*
* 6	* -1	* 1947	* 1298.5	* 18	* 1949	* 1298.5	* 37.50	*
* 6	* -1	* 1948	* 1298.6	* 19	* 1957	* 1298.5	* 39.58	*
* 8	* -1	* 1949	* 1298.5	* 20	* 1971	* 1298.5	* 41.67	*
* 6	* -1	* 1950	* 1302.0	* 21	* 1970	* 1298.5	* 43.75	*
* 6	* -1	* 1951	* 1298.6	* 22	* 1946	* 1298.5	* 45.83	*
* 8	* -1	* 1952	* 1298.7	* 23	* 1938	* 1298.5	* 47.92	*
* 8	* -1	* 1953	* 1299.3	* 24	* 1947	* 1298.5	* 50.00	*
* 5	* -1	* 1954	* 1299.0	* 25	* 1941	* 1298.5	* 52.08	*
* 6	* -1	* 1955	* 1298.4	* 26	* 1955	* 1298.4	* 54.17	*
* 6	* -1	* 1956	* 1298.4	* 27	* 1963	* 1298.4	* 56.25	*
* 6	* -1	* 1957	* 1298.5	* 28	* 1964	* 1298.4	* 58.33	*
* 7	* -1	* 1958	* 1297.2	* 29	* 1942	* 1298.4	* 60.42	*
* 9	* -1	* 1959	* 1298.3	* 30	* 1968	* 1298.4	* 62.50	*
* 7	* -1	* 1960	* 1298.1	* 31	* 1930	* 1298.4	* 64.58	*
* 6	* -1	* 1961	* 1297.8	* 32	* 1956	* 1298.4	* 66.67	*
* 7	* -1	* 1962	* 1298.6	* 33	* 1940	* 1298.3	* 68.75	*
* 7	* -1	* 1963	* 1298.4	* 34	* 1959	* 1298.3	* 70.83	*
* 6	* -1	* 1964	* 1298.4	* 35	* 1973	* 1298.3	* 72.92	*
* 6	* -1	* 1965	* 1298.9	* 36	* 1960	* 1298.1	* 75.00	*
* 6	* -1	* 1966	* 1300.4	* 37	* 1932	* 1297.9	* 77.08	*
* 6	* -1	* 1967	* 1298.6	* 38	* 1976	* 1297.8	* 79.17	*
* 6	* -1	* 1968	* 1298.4	* 39	* 1939	* 1297.8	* 81.25	*

* 6	* -1	* 1969	* 1299.0	* 40	* 1961	* 1297.8	* 83.33	*
* 6	* -1	* 1970	* 1298.5	* 41	* 1933	* 1297.4	* 85.42	*
* 6	* -1	* 1971	* 1298.5	* 42	* 1958	* 1297.2	* 87.50	*
* 6	* -1	* 1972	* 1298.6	* 43	* 1931	* 1297.0	* 89.58	*
* 9	* -1	* 1973	* 1298.3	* 44	* 1936	* 1294.8	* 91.67	*
* 6	* -1	* 1974	* 1298.9	* 45	* 1937	* 1293.8	* 93.75	*
* 5	* -1	* 1975	* 1299.2	* 46	* 1934	* 1293.4	* 95.83	*
* 5	* -1	* 1976	* 1297.8	* 47	* 1935	* 1291.8	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	* *
* 9	* -1	* 1930	* 1296.4	* 1	* 1935	* 1290.3	* 2.08	* *
* 9	* -1	* 1931	* 1296.3	* 2	* 1937	* 1291.8	* 4.17	* *
* 9	* -1	* 1932	* 1296.6	* 3	* 1934	* 1292.5	* 6.25	* *
* 9	* -1	* 1933	* 1295.2	* 4	* 1936	* 1293.1	* 8.33	* *
* 9	* -1	* 1934	* 1292.5	* 5	* 1933	* 1295.2	* 10.42	* *
* 5	* -1	* 1935	* 1290.3	* 6	* 1931	* 1296.3	* 12.50	* *
* 9	* -1	* 1936	* 1293.1	* 7	* 1930	* 1296.4	* 14.58	* *
* 5	* -1	* 1937	* 1291.8	* 8	* 1932	* 1296.6	* 16.67	* *
* 9	* -1	* 1938	* 1297.4	* 9	* 1958	* 1297.0	* 18.75	* *
* 9	* -1	* 1939	* 1297.0	* 10	* 1976	* 1297.0	* 20.83	* *
* 9	* -1	* 1940	* 1297.5	* 11	* 1939	* 1297.0	* 22.92	* *
* 9	* -1	* 1941	* 1298.0	* 12	* 1959	* 1297.3	* 25.00	* *
* 5	* -1	* 1942	* 1298.0	* 13	* 1961	* 1297.3	* 27.08	* *
* 5	* -1	* 1943	* 1298.1	* 14	* 1938	* 1297.4	* 29.17	* *
* 5	* -1	* 1944	* 1297.9	* 15	* 1940	* 1297.5	* 31.25	* *
* 5	* -1	* 1945	* 1298.4	* 16	* 1960	* 1297.6	* 33.33	* *

* 9	* -1	* 1946	* 1298.0	* 17	* 1949	* 1297.6	* 35.42	* *
* 5	* -1	* 1947	* 1298.3	* 18	* 1973	* 1297.6	* 37.50	* *
* 9	* -1	* 1948	* 1298.3	* 19	* 1967	* 1297.8	* 39.58	* *
* 5	* -1	* 1949	* 1297.6	* 20	* 1970	* 1297.8	* 41.67	* *
* 9	* -1	* 1950	* 1299.6	* 21	* 1955	* 1297.9	* 43.75	* *
* 7	* -1	* 1951	* 1298.4	* 22	* 1953	* 1297.9	* 45.83	* *
* 9	* -1	* 1952	* 1298.4	* 23	* 1944	* 1297.9	* 47.92	* *
* 5	* -1	* 1953	* 1297.9	* 24	* 1941	* 1298.0	* 50.00	* *
* 9	* -1	* 1954	* 1298.4	* 25	* 1942	* 1298.0	* 52.08	* *
* 9	* -1	* 1955	* 1297.9	* 26	* 1963	* 1298.0	* 54.17	* *
* 5	* -1	* 1956	* 1298.2	* 27	* 1968	* 1298.0	* 56.25	* *
* 5	* -1	* 1957	* 1298.2	* 28	* 1946	* 1298.0	* 58.33	* *
* 5	* -1	* 1958	* 1297.0	* 29	* 1971	* 1298.1	* 60.42	* *
* 5	* -1	* 1959	* 1297.3	* 30	* 1962	* 1298.1	* 62.50	* *
* 5	* -1	* 1960	* 1297.6	* 31	* 1964	* 1298.1	* 64.58	* *
* 9	* -1	* 1961	* 1297.3	* 32	* 1943	* 1298.1	* 66.67	* *
* 5	* -1	* 1962	* 1298.1	* 33	* 1965	* 1298.2	* 68.75	* *
* 5	* -1	* 1963	* 1298.0	* 34	* 1957	* 1298.2	* 70.83	* *
* 5	* -1	* 1964	* 1298.1	* 35	* 1956	* 1298.2	* 72.92	* *
* 9	* -1	* 1965	* 1298.2	* 36	* 1947	* 1298.3	* 75.00	* *
* 9	* -1	* 1966	* 1299.0	* 37	* 1948	* 1298.3	* 77.08	* *
* 9	* -1	* 1967	* 1297.8	* 38	* 1972	* 1298.3	* 79.17	* *
* 5	* -1	* 1968	* 1298.0	* 39	* 1954	* 1298.4	* 81.25	* *
* 8	* -1	* 1969	* 1298.4	* 40	* 1952	* 1298.4	* 83.33	* *
* 9	* -1	* 1970	* 1297.8	* 41	* 1969	* 1298.4	* 85.42	* *
* 9	* -1	* 1971	* 1298.1	* 42	* 1945	* 1298.4	* 87.50	* *
* 9	* -1	* 1972	* 1298.3	* 43	* 1951	* 1298.4	* 89.58	* *
* 5	* -1	* 1973	* 1297.6	* 44	* 1974	* 1298.4	* 91.67	* *
* 7	* -1	* 1974	* 1298.4	* 45	* 1975	* 1298.5	* 93.75	* *
* 9	* -1	* 1975	* 1298.5	* 46	* 1966	* 1299.0	* 95.83	* *
* 9	* -1	* 1976	* 1297.0	* 47	* 1950	* 1299.6	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

MON	DAY	YEAR	ELEV,FT.	RANK	WATER YEAR	ELEV,FT.	WEIBULL PLOT POS		
*	6	-1	1930	*	1	1950	1295.8	2.08	*
*	6	-1	1931	*	2	1965	1295.3	4.17	*
*	6	-1	1932	*	3	1943	1295.2	6.25	*
*	6	-1	1933	*	4	1966	1295.2	8.33	*
*	5	-1	1934	*	5	1953	1295.1	10.42	*
*	7	-1	1935	*	6	1944	1295.1	12.50	*
*	5	-1	1936	*	7	1974	1295.0	14.58	*
*	8	-1	1937	*	8	1975	1295.0	16.67	*
*	6	-1	1938	*	9	1954	1294.9	18.75	*
*	6	-1	1939	*	10	1962	1294.9	20.83	*
*	6	-1	1940	*	11	1952	1294.9	22.92	*
*	9	-1	1941	*	12	1969	1294.9	25.00	*
*	9	-1	1942	*	13	1972	1294.9	27.08	*
*	6	-1	1943	*	14	1949	1294.9	29.17	*
*	7	-1	1944	*	15	1957	1294.8	31.25	*
*	5	-1	1945	*	16	1951	1294.8	33.33	*
*	7	-1	1946	*	17	1947	1294.8	35.42	*
*	7	-1	1947	*	18	1942	1294.8	37.50	*
*	5	-1	1948	*	19	1946	1294.8	39.58	*
*	8	-1	1949	*	20	1945	1294.7	41.67	*
*	6	-1	1950	*	21	1938	1294.7	43.75	*
*	6	-1	1951	*	22	1967	1294.6	45.83	*
*	8	-1	1952	*	23	1970	1294.6	47.92	*
*	8	-1	1953	*	24	1955	1294.6	50.00	*
*	7	-1	1954	*	25	1968	1294.5	52.08	*
*	7	-1	1955	*	26	1971	1294.5	54.17	*
*	6	-1	1956	*	27	1960	1294.4	56.25	*
*	7	-1	1957	*	28	1941	1294.4	58.33	*
*	7	-1	1958	*	29	1948	1294.4	60.42	*
*	9	-1	1959	*	30	1930	1294.3	62.50	*
*	6	-1	1960	*	31	1964	1294.3	64.58	*
*	6	-1	1961	*	32	1963	1294.3	66.67	*
*	7	-1	1962	*	33	1959	1294.2	68.75	*
*	7	-1	1963	*	34	1940	1294.1	70.83	*
*	7	-1	1964	*	35	1956	1294.0	72.92	*
*	6	-1	1965	*	36	1973	1294.0	75.00	*
*	5	-1	1966	*	37	1939	1293.9	77.08	*
*	5	-1	1967	*	38	1961	1293.8	79.17	*
*	7	-1	1968	*	39	1933	1293.8	81.25	*
*	5	-1	1969	*	40	1937	1293.8	83.33	*
*	6	-1	1970	*	41	1976	1293.8	85.42	*
*	7	-1	1971	*	42	1932	1293.8	87.50	*

*	9	-1	1972	*	43	1935	1293.7	89.58	*
*	9	-1	1973	*	44	1936	1293.6	91.67	*
*	6	-1	1974	*	45	1931	1293.5	93.75	*
*	7	-1	1975	*	46	1958	1293.3	95.83	*
*	5	-1	1976	*	47	1934	1293.1	97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	* *
* 9	* -1	* 1930	* 1293.3	* 1	* 1934	* 1292.3	* 2.08	* *
* 9	* -1	* 1931	* 1293.1	* 2	* 1936	* 1292.4	* 4.17	* *
* 9	* -1	* 1932	* 1293.1	* 3	* 1933	* 1292.8	* 6.25	* *
* 9	* -1	* 1933	* 1292.8	* 4	* 1976	* 1292.9	* 8.33	* *
* 9	* -1	* 1934	* 1292.3	* 5	* 1958	* 1293.0	* 10.42	* *
* 5	* -1	* 1935	* 1293.0	* 6	* 1935	* 1293.0	* 12.50	* *
* 9	* -1	* 1936	* 1292.4	* 7	* 1932	* 1293.1	* 14.58	* *
* 5	* -1	* 1937	* 1293.5	* 8	* 1931	* 1293.1	* 16.67	* *
* 9	* -1	* 1938	* 1294.2	* 9	* 1930	* 1293.3	* 18.75	* *
* 9	* -1	* 1939	* 1293.3	* 10	* 1939	* 1293.3	* 20.83	* *
* 9	* -1	* 1940	* 1293.6	* 11	* 1959	* 1293.4	* 22.92	* *
* 8	* -1	* 1941	* 1294.2	* 12	* 1937	* 1293.5	* 25.00	* *
* 5	* -1	* 1942	* 1293.8	* 13	* 1949	* 1293.5	* 27.08	* *
* 5	* -1	* 1943	* 1294.2	* 14	* 1940	* 1293.6	* 29.17	* *
* 5	* -1	* 1944	* 1293.9	* 15	* 1961	* 1293.6	* 31.25	* *
* 8	* -1	* 1945	* 1294.4	* 16	* 1956	* 1293.7	* 33.33	* *
* 5	* -1	* 1946	* 1294.1	* 17	* 1973	* 1293.7	* 35.42	* *
* 5	* -1	* 1947	* 1294.4	* 18	* 1963	* 1293.7	* 37.50	* *
* 9	* -1	* 1948	* 1293.9	* 19	* 1970	* 1293.8	* 39.58	* *

* 5	* -1	* 1949	* 1293.5	* 20	* 1942	* 1293.8	* 41.67	* *
* 9	* -1	* 1950	* 1294.5	* 21	* 1948	* 1293.9	* 43.75	* *
* 5	* -1	* 1951	* 1294.4	* 22	* 1944	* 1293.9	* 45.83	* *
* 5	* -1	* 1952	* 1294.1	* 23	* 1967	* 1293.9	* 47.92	* *
* 5	* -1	* 1953	* 1294.2	* 24	* 1968	* 1294.0	* 50.00	* *
* 9	* -1	* 1954	* 1294.7	* 25	* 1960	* 1294.0	* 52.08	* *
* 5	* -1	* 1955	* 1294.1	* 26	* 1964	* 1294.0	* 54.17	* *
* 9	* -1	* 1956	* 1293.7	* 27	* 1946	* 1294.1	* 56.25	* *
* 5	* -1	* 1957	* 1294.1	* 28	* 1957	* 1294.1	* 58.33	* *
* 9	* -1	* 1958	* 1293.0	* 29	* 1955	* 1294.1	* 60.42	* *
* 5	* -1	* 1959	* 1293.4	* 30	* 1952	* 1294.1	* 62.50	* *
* 9	* -1	* 1960	* 1294.0	* 31	* 1938	* 1294.2	* 64.58	* *
* 8	* -1	* 1961	* 1293.6	* 32	* 1971	* 1294.2	* 66.67	* *
* 5	* -1	* 1962	* 1294.4	* 33	* 1943	* 1294.2	* 68.75	* *
* 5	* -1	* 1963	* 1293.7	* 34	* 1953	* 1294.2	* 70.83	* *
* 5	* -1	* 1964	* 1294.0	* 35	* 1941	* 1294.2	* 72.92	* *
* 5	* -1	* 1965	* 1294.6	* 36	* 1969	* 1294.3	* 75.00	* *
* 6	* -1	* 1966	* 1294.9	* 37	* 1947	* 1294.4	* 77.08	* *
* 9	* -1	* 1967	* 1293.9	* 38	* 1951	* 1294.4	* 79.17	* *
* 5	* -1	* 1968	* 1294.0	* 39	* 1945	* 1294.4	* 81.25	* *
* 9	* -1	* 1969	* 1294.3	* 40	* 1962	* 1294.4	* 83.33	* *
* 9	* -1	* 1970	* 1293.8	* 41	* 1950	* 1294.5	* 85.42	* *
* 9	* -1	* 1971	* 1294.2	* 42	* 1965	* 1294.6	* 87.50	* *
* 6	* -1	* 1972	* 1294.7	* 43	* 1972	* 1294.7	* 89.58	* *
* 5	* -1	* 1973	* 1293.7	* 44	* 1954	* 1294.7	* 91.67	* *
* 9	* -1	* 1974	* 1294.8	* 45	* 1975	* 1294.7	* 93.75	* *
* 9	* -1	* 1975	* 1294.7	* 46	* 1974	* 1294.8	* 95.83	* *
* 9	* -1	* 1976	* 1292.9	* 47	* 1966	* 1294.9	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT FDS	* *
* 6	* -1	* 1930	* 1273.7	* 1	* 1950	* 1276.4	* 2.08	* *
* 6	* -1	* 1931	* 1273.7	* 2	* 1953	* 1276.4	* 4.17	* *
* 6	* -1	* 1932	* 1273.7	* 3	* 1965	* 1276.4	* 6.25	* *
* 6	* -1	* 1933	* 1273.7	* 4	* 1966	* 1276.4	* 8.33	* *
* 5	* -1	* 1934	* 1272.1	* 5	* 1969	* 1276.4	* 10.42	* *
* 8	* -1	* 1935	* 1273.7	* 6	* 1975	* 1276.4	* 12.50	* *
* 6	* -1	* 1936	* 1273.7	* 7	* 1948	* 1276.3	* 14.58	* *
* 6	* -1	* 1937	* 1273.7	* 8	* 1971	* 1276.3	* 16.67	* *
* 5	* -1	* 1938	* 1276.2	* 9	* 1938	* 1276.2	* 18.75	* *
* 9	* -1	* 1939	* 1273.6	* 10	* 1972	* 1276.0	* 20.83	* *
* 6	* -1	* 1940	* 1273.7	* 11	* 1954	* 1275.9	* 22.92	* *
* 5	* -1	* 1941	* 1273.7	* 12	* 1943	* 1275.5	* 25.00	* *
* 6	* -1	* 1942	* 1273.7	* 13	* 1944	* 1275.4	* 27.08	* *
* 6	* -1	* 1943	* 1275.5	* 14	* 1952	* 1275.3	* 29.17	* *
* 6	* -1	* 1944	* 1275.4	* 15	* 1974	* 1274.5	* 31.25	* *
* 5	* -1	* 1945	* 1273.7	* 16	* 1945	* 1273.7	* 33.33	* *
* 6	* -1	* 1946	* 1273.7	* 17	* 1946	* 1273.7	* 35.42	* *
* 6	* -1	* 1947	* 1273.7	* 18	* 1947	* 1273.7	* 37.50	* *
* 5	* -1	* 1948	* 1276.3	* 19	* 1936	* 1273.7	* 39.58	* *
* 7	* -1	* 1949	* 1273.7	* 20	* 1949	* 1273.7	* 41.67	* *
* 5	* -1	* 1950	* 1276.4	* 21	* 1930	* 1273.7	* 43.75	* *
* 6	* -1	* 1951	* 1273.7	* 22	* 1951	* 1273.7	* 45.83	* *
* 5	* -1	* 1952	* 1275.3	* 23	* 1941	* 1273.7	* 47.92	* *
* 8	* -1	* 1953	* 1276.4	* 24	* 1931	* 1273.7	* 50.00	* *
* 5	* -1	* 1954	* 1275.9	* 25	* 1940	* 1273.7	* 52.08	* *
* 6	* -1	* 1955	* 1273.7	* 26	* 1955	* 1273.7	* 54.17	* *
* 5	* -1	* 1956	* 1273.7	* 27	* 1956	* 1273.7	* 56.25	* *
* 6	* -1	* 1957	* 1273.7	* 28	* 1957	* 1273.7	* 58.33	* *
* 7	* -1	* 1958	* 1273.7	* 29	* 1958	* 1273.7	* 60.42	* *
* 6	* -1	* 1959	* 1273.7	* 30	* 1959	* 1273.7	* 62.50	* *
* 6	* -1	* 1960	* 1273.7	* 31	* 1960	* 1273.7	* 64.58	* *
* 6	* -1	* 1961	* 1273.7	* 32	* 1961	* 1273.7	* 66.67	* *
* 6	* -1	* 1962	* 1273.7	* 33	* 1962	* 1273.7	* 68.75	* *
* 6	* -1	* 1963	* 1273.7	* 34	* 1963	* 1273.7	* 70.83	* *
* 5	* -1	* 1964	* 1273.7	* 35	* 1964	* 1273.7	* 72.92	* *
* 6	* -1	* 1965	* 1276.4	* 36	* 1932	* 1273.7	* 75.00	* *
* 5	* -1	* 1966	* 1276.4	* 37	* 1933	* 1273.7	* 77.08	* *
* 5	* -1	* 1967	* 1273.7	* 38	* 1967	* 1273.7	* 79.17	* *
* 6	* -1	* 1968	* 1273.7	* 39	* 1968	* 1273.7	* 81.25	* *
* 5	* -1	* 1969	* 1276.4	* 40	* 1970	* 1273.7	* 83.33	* *
* 5	* -1	* 1970	* 1273.7	* 41	* 1937	* 1273.7	* 85.42	* *
* 5	* -1	* 1971	* 1276.3	* 42	* 1973	* 1273.7	* 87.50	* *
* 5	* -1	* 1972	* 1276.0	* 43	* 1942	* 1273.7	* 89.58	* *
* 7	* -1	* 1973	* 1273.7	* 44	* 1935	* 1273.7	* 91.67	* *

* 5	* -1	* 1974	* 1274.5	* 45	* 1976	* 1273.7	* 93.75	* *
* 5	* -1	* 1975	* 1276.4	* 46	* 1939	* 1273.6	* 95.83	* *
* 7	* -1	* 1976	* 1273.7	* 47	* 1934	* 1272.1	* 97.92	* *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 8	* -1	* 1930	* 1271.7	* 1	* 1934	* 1268.4	* 2.08	*
* 5	* -1	* 1931	* 1272.5	* 2	* 1936	* 1268.6	* 4.17	*
* 9	* -1	* 1932	* 1272.5	* 3	* 1933	* 1270.8	* 6.25	*
* 8	* -1	* 1933	* 1270.8	* 4	* 1976	* 1271.6	* 8.33	*
* 9	* -1	* 1934	* 1268.4	* 5	* 1930	* 1271.7	* 10.42	*
* 5	* -1	* 1935	* 1272.2	* 6	* 1938	* 1272.1	* 12.50	*
* 8	* -1	* 1936	* 1268.6	* 7	* 1940	* 1272.1	* 14.58	*
* 5	* -1	* 1937	* 1272.8	* 8	* 1939	* 1272.1	* 16.67	*
* 8	* -1	* 1938	* 1272.1	* 9	* 1935	* 1272.2	* 18.75	*
* 5	* -1	* 1939	* 1272.1	* 10	* 1958	* 1272.2	* 20.83	*
* 9	* -1	* 1940	* 1272.1	* 11	* 1965	* 1272.4	* 22.92	*
* 8	* -1	* 1941	* 1273.3	* 12	* 1931	* 1272.5	* 25.00	*
* 5	* -1	* 1942	* 1272.8	* 13	* 1932	* 1272.5	* 27.08	*
* 5	* -1	* 1943	* 1272.8	* 14	* 1959	* 1272.5	* 29.17	*
* 5	* -1	* 1944	* 1272.8	* 15	* 1973	* 1272.5	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1970	* 1272.6	* 33.33	*
* 5	* -1	* 1946	* 1272.8	* 17	* 1961	* 1272.7	* 35.42	*
* 5	* -1	* 1947	* 1272.8	* 18	* 1949	* 1272.7	* 37.50	*
* 6	* -1	* 1948	* 1273.7	* 19	* 1947	* 1272.8	* 39.58	*
* 5	* -1	* 1949	* 1272.7	* 20	* 1951	* 1272.8	* 41.67	*
* 7	* -1	* 1950	* 1273.7	* 21	* 1953	* 1272.8	* 43.75	*

* 5	* -1	* 1951	* 1272.8	* 22	* 1955	* 1272.8	* 45.83	*
* 6	* -1	* 1952	* 1273.7	* 23	* 1957	* 1272.8	* 47.92	*
* 5	* -1	* 1953	* 1272.8	* 24	* 1937	* 1272.8	* 50.00	*
* 6	* -1	* 1954	* 1273.7	* 25	* 1943	* 1272.8	* 52.08	*
* 5	* -1	* 1955	* 1272.8	* 26	* 1960	* 1272.8	* 54.17	*
* 5	* -1	* 1956	* 1273.7	* 27	* 1946	* 1272.8	* 56.25	*
* 5	* -1	* 1957	* 1272.8	* 28	* 1962	* 1272.8	* 58.33	*
* 5	* -1	* 1958	* 1272.2	* 29	* 1963	* 1272.8	* 60.42	*
* 5	* -1	* 1959	* 1272.5	* 30	* 1964	* 1272.8	* 62.50	*
* 5	* -1	* 1960	* 1272.8	* 31	* 1968	* 1272.8	* 64.58	*
* 9	* -1	* 1961	* 1272.7	* 32	* 1944	* 1272.8	* 66.67	*
* 5	* -1	* 1962	* 1272.8	* 33	* 1942	* 1272.8	* 68.75	*
* 5	* -1	* 1963	* 1272.8	* 34	* 1967	* 1273.2	* 70.83	*
* 5	* -1	* 1964	* 1272.8	* 35	* 1941	* 1273.3	* 72.92	*
* 7	* -1	* 1965	* 1272.4	* 36	* 1971	* 1273.5	* 75.00	*
* 7	* -1	* 1966	* 1273.7	* 37	* 1972	* 1273.6	* 77.08	*
* 8	* -1	* 1967	* 1273.2	* 38	* 1950	* 1273.7	* 79.17	*
* 5	* -1	* 1968	* 1272.8	* 39	* 1948	* 1273.7	* 81.25	*
* 6	* -1	* 1969	* 1273.7	* 40	* 1969	* 1273.7	* 83.33	*
* 9	* -1	* 1970	* 1272.6	* 41	* 1945	* 1273.7	* 85.42	*
* 9	* -1	* 1971	* 1273.5	* 42	* 1954	* 1273.7	* 87.50	*
* 9	* -1	* 1972	* 1273.6	* 43	* 1966	* 1273.7	* 89.58	*
* 5	* -1	* 1973	* 1272.5	* 44	* 1956	* 1273.7	* 91.67	*
* 7	* -1	* 1974	* 1273.7	* 45	* 1974	* 1273.7	* 93.75	*
* 6	* -1	* 1975	* 1273.7	* 46	* 1975	* 1273.7	* 95.83	*
* 9	* -1	* 1976	* 1271.6	* 47	* 1952	* 1273.7	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1216.6	* 1	* 1943	* 1218.3	* 2.08	*
* 7	* -1	* 1931	* 1216.6	* 2	* 1938	* 1218.3	* 4.17	*
* 6	* -1	* 1932	* 1216.6	* 3	* 1944	* 1218.3	* 6.25	*
* 6	* -1	* 1933	* 1216.5	* 4	* 1948	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1216.6	* 5	* 1950	* 1218.3	* 10.42	*
* 6	* -1	* 1935	* 1216.6	* 6	* 1952	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.6	* 7	* 1953	* 1218.3	* 14.58	*
* 6	* -1	* 1937	* 1216.6	* 8	* 1954	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1218.3	* 9	* 1956	* 1218.3	* 18.75	*
* 6	* -1	* 1939	* 1216.6	* 10	* 1965	* 1218.3	* 20.83	*
* 6	* -1	* 1940	* 1216.6	* 11	* 1966	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1218.1	* 12	* 1969	* 1218.3	* 25.00	*
* 6	* -1	* 1942	* 1216.6	* 13	* 1971	* 1218.3	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1972	* 1218.3	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1974	* 1218.3	* 31.25	*
* 5	* -1	* 1945	* 1216.7	* 16	* 1975	* 1218.3	* 33.33	*
* 6	* -1	* 1946	* 1216.6	* 17	* 1941	* 1218.1	* 35.42	*
* 6	* -1	* 1947	* 1216.6	* 18	* 1970	* 1217.6	* 37.50	*
* 5	* -1	* 1948	* 1218.3	* 19	* 1967	* 1217.5	* 39.58	*
* 6	* -1	* 1949	* 1216.6	* 20	* 1951	* 1216.8	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1945	* 1216.7	* 43.75	*
* 9	* -1	* 1951	* 1216.8	* 22	* 1949	* 1216.6	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1935	* 1216.6	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1936	* 1216.6	* 50.00	*
* 5	* -1	* 1954	* 1218.3	* 25	* 1937	* 1216.6	* 52.08	*
* 6	* -1	* 1955	* 1216.6	* 26	* 1955	* 1216.6	* 54.17	*
* 5	* -1	* 1956	* 1218.3	* 27	* 1931	* 1216.6	* 56.25	*
* 6	* -1	* 1957	* 1216.6	* 28	* 1957	* 1216.6	* 58.33	*
* 8	* -1	* 1958	* 1216.6	* 29	* 1958	* 1216.6	* 60.42	*
* 6	* -1	* 1959	* 1216.6	* 30	* 1959	* 1216.6	* 62.50	*
* 6	* -1	* 1960	* 1216.6	* 31	* 1960	* 1216.6	* 64.58	*
* 6	* -1	* 1961	* 1216.5	* 32	* 1962	* 1216.6	* 66.67	*
* 6	* -1	* 1962	* 1216.6	* 33	* 1963	* 1216.6	* 68.75	*
* 6	* -1	* 1963	* 1216.6	* 34	* 1964	* 1216.6	* 70.83	*
* 6	* -1	* 1964	* 1216.6	* 35	* 1939	* 1216.6	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1940	* 1216.6	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1968	* 1216.6	* 77.08	*
* 5	* -1	* 1967	* 1217.5	* 38	* 1946	* 1216.6	* 79.17	*
* 6	* -1	* 1968	* 1216.6	* 39	* 1947	* 1216.6	* 81.25	*
* 5	* -1	* 1969	* 1218.3	* 40	* 1942	* 1216.6	* 83.33	*
* 5	* -1	* 1970	* 1217.6	* 41	* 1930	* 1216.6	* 85.42	*
* 5	* -1	* 1971	* 1218.3	* 42	* 1973	* 1216.6	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1932	* 1216.6	* 89.58	*
* 6	* -1	* 1973	* 1216.6	* 44	* 1934	* 1216.6	* 91.67	*
* 5	* -1	* 1974	* 1218.3	* 45	* 1961	* 1216.5	* 93.75	*
* 5	* -1	* 1975	* 1218.3	* 46	* 1933	* 1216.5	* 95.83	*

* 7 -1 1976 1216.3 * 47 1976 1216.3 97.92 *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
*	9	-1	1930	*	1	1931	1214.9	2.08
*	5	-1	1931	*	2	1958	1215.0	4.17
*	9	-1	1932	*	3	1930	1215.4	6.25
*	5	-1	1933	*	4	1976	1215.5	8.33
*	9	-1	1934	*	5	1936	1215.6	10.42
*	5	-1	1935	*	6	1933	1215.6	12.50
*	9	-1	1936	*	7	1970	1215.7	14.58
*	9	-1	1937	*	8	1934	1215.7	16.67
*	9	-1	1938	*	9	1959	1215.8	18.75
*	5	-1	1939	*	10	1961	1215.9	20.83
*	9	-1	1940	*	11	1947	1216.1	22.92
*	6	-1	1941	*	12	1940	1216.1	25.00
*	5	-1	1942	*	13	1942	1216.2	27.08
*	5	-1	1943	*	14	1967	1216.2	29.17
*	5	-1	1944	*	15	1950	1216.2	31.25
*	6	-1	1945	*	16	1932	1216.2	33.33
*	5	-1	1946	*	17	1937	1216.3	35.42
*	9	-1	1947	*	18	1949	1216.3	37.50
*	9	-1	1948	*	19	1944	1216.3	39.58
*	5	-1	1949	*	20	1951	1216.3	41.67
*	9	-1	1950	*	21	1953	1216.3	43.75
*	5	-1	1951	*	22	1955	1216.3	45.83
*	6	-1	1952	*	23	1957	1216.3	47.92

*	5	-1	1953	*	24	1960	1216.3	50.00
*	6	-1	1954	*	25	1939	1216.3	52.08
*	5	-1	1955	*	26	1962	1216.3	54.17
*	9	-1	1956	*	27	1963	1216.3	56.25
*	5	-1	1957	*	28	1964	1216.3	58.33
*	5	-1	1958	*	29	1943	1216.3	60.42
*	5	-1	1959	*	30	1968	1216.3	62.50
*	5	-1	1960	*	31	1946	1216.3	64.58
*	9	-1	1961	*	32	1973	1216.3	66.67
*	5	-1	1962	*	33	1935	1216.3	68.75
*	5	-1	1963	*	34	1969	1216.4	70.83
*	5	-1	1964	*	35	1948	1216.4	72.92
*	8	-1	1965	*	36	1938	1216.4	75.00
*	7	-1	1966	*	37	1975	1216.4	77.08
*	9	-1	1967	*	38	1971	1216.5	79.17
*	5	-1	1968	*	39	1956	1216.5	81.25
*	9	-1	1969	*	40	1965	1216.6	83.33
*	9	-1	1970	*	41	1952	1216.6	85.42
*	9	-1	1971	*	42	1945	1216.6	87.50
*	7	-1	1972	*	43	1972	1216.6	89.58
*	5	-1	1973	*	44	1954	1216.6	91.67
*	7	-1	1974	*	45	1974	1216.6	93.75
*	9	-1	1975	*	46	1966	1216.6	95.83
*	9	-1	1976	*	47	1941	1216.6	97.92

- ANALYSIS OF MAXIMUMS -

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-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION
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*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
* MON DAY YEAR ELEV,FT. * RANK WATER YEAR ELEV,FT. WEIBULL *
* * * * * * * * * * * * * * * * * * * * * * * * * * * *
* 6 -1 1930 1229.6 * 1 1950 1230.4 2.08 *
* 7 -1 1931 1229.6 * 2 1965 1230.0 4.17 *
* 6 -1 1932 1229.2 * 3 1943 1229.9 6.25 *
* 6 -1 1933 1229.6 * 4 1944 1229.6 8.33 *
* 6 -1 1934 1228.3 * 5 1966 1229.6 10.42 *
* 7 -1 1935 1229.6 * 6 1938 1229.6 12.50 *
* 6 -1 1936 1229.6 * 7 1945 1229.6 14.58 *
* 7 -1 1937 1229.6 * 8 1937 1229.6 16.67 *
* 5 -1 1938 1229.6 * 9 1935 1229.6 18.75 *
* 7 -1 1939 1229.5 * 10 1941 1229.6 20.83 *
* 6 -1 1940 1229.5 * 11 1942 1229.6 22.92 *
* 5 -1 1941 1229.6 * 12 1933 1229.6 25.00 *
* 6 -1 1942 1229.6 * 13 1946 1229.6 27.08 *
* 6 -1 1943 1229.9 * 14 1947 1229.6 29.17 *
* 6 -1 1944 1229.6 * 15 1948 1229.6 31.25 *
* 5 -1 1945 1229.6 * 16 1949 1229.6 33.33 *
* 7 -1 1946 1229.6 * 17 1930 1229.6 35.42 *
* 6 -1 1947 1229.6 * 18 1951 1229.6 37.50 *
* 5 -1 1948 1229.6 * 19 1952 1229.6 39.58 *
* 7 -1 1949 1229.6 * 20 1953 1229.6 41.67 *
* 5 -1 1950 1230.4 * 21 1954 1229.6 43.75 *
* 6 -1 1951 1229.6 * 22 1955 1229.6 45.83 *
* 5 -1 1952 1229.6 * 23 1956 1229.6 47.92 *
* 6 -1 1953 1229.6 * 24 1957 1229.6 50.00 *
* 5 -1 1954 1229.6 * 25 1959 1229.6 52.08 *
* 7 -1 1955 1229.6 * 26 1960 1229.6 54.17 *
* 5 -1 1956 1229.6 * 27 1962 1229.6 56.25 *
* 7 -1 1957 1229.6 * 28 1963 1229.6 58.33 *
* 9 -1 1958 1228.9 * 29 1964 1229.6 60.42 *
* 7 -1 1959 1229.6 * 30 1931 1229.6 62.50 *
* 6 -1 1960 1229.6 * 31 1967 1229.6 64.58 *
* 8 -1 1961 1229.3 * 32 1968 1229.6 66.67 *
* 6 -1 1962 1229.6 * 33 1969 1229.6 68.75 *
* 7 -1 1963 1229.6 * 34 1970 1229.6 70.83 *
* 6 -1 1964 1229.6 * 35 1971 1229.6 72.92 *
* 6 -1 1965 1230.0 * 36 1972 1229.6 75.00 *
* 5 -1 1966 1229.6 * 37 1973 1229.6 77.08 *
* 5 -1 1967 1229.6 * 38 1974 1229.6 79.17 *
* 6 -1 1968 1229.6 * 39 1975 1229.6 81.25 *
* 5 -1 1969 1229.6 * 40 1936 1229.6 83.33 *
* 5 -1 1970 1229.6 * 41 1940 1229.5 85.42 *
* 5 -1 1971 1229.6 * 42 1939 1229.5 87.50 *
* 5 -1 1972 1229.6 * 43 1961 1229.3 89.58 *
* 7 -1 1973 1229.6 * 44 1932 1229.2 91.67 *
* 5 -1 1974 1229.6 * 45 1958 1228.9 93.75 *
* 5 -1 1975 1229.6 * 46 1976 1228.8 95.83 *
* 7 -1 1976 1228.8 * 47 1934 1228.3 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*	
*	5	-1	1930	*	1	1934	1227.6	2.08	*
*	5	-1	1931	*	2	1976	1227.9	4.17	*
*	5	-1	1932	*	3	1958	1228.0	6.25	*
*	5	-1	1933	*	4	1931	1228.1	8.33	*
*	9	-1	1934	*	5	1959	1228.6	10.42	*
*	5	-1	1935	*	6	1932	1228.6	12.50	*
*	9	-1	1936	*	7	1955	1228.6	14.58	*
*	5	-1	1937	*	8	1936	1228.7	16.67	*
*	8	-1	1938	*	9	1939	1228.7	18.75	*
*	5	-1	1939	*	10	1933	1228.7	20.83	*
*	5	-1	1940	*	11	1961	1228.7	22.92	*
*	5	-1	1941	*	12	1946	1228.8	25.00	*
*	5	-1	1942	*	13	1935	1228.8	27.08	*
*	5	-1	1943	*	14	1963	1228.8	29.17	*
*	5	-1	1944	*	15	1930	1228.9	31.25	*
*	5	-1	1945	*	16	1949	1228.9	33.33	*
*	6	-1	1946	*	17	1937	1228.9	35.42	*
*	5	-1	1947	*	18	1957	1228.9	37.50	*
*	5	-1	1948	*	19	1940	1228.9	39.58	*
*	5	-1	1949	*	20	1973	1228.9	41.67	*
*	7	-1	1950	*	21	1951	1228.9	43.75	*
*	5	-1	1951	*	22	1953	1228.9	45.83	*
*	5	-1	1952	*	23	1947	1228.9	47.92	*
*	5	-1	1953	*	24	1942	1228.9	50.00	*
*	5	-1	1954	*	25	1944	1228.9	52.08	*
*	5	-1	1955	*	26	1960	1228.9	54.17	*

*	9	-1	1956	*	27	1962	1228.9	56.25	*
*	5	-1	1957	*	28	1943	1228.9	58.33	*
*	5	-1	1958	*	29	1964	1228.9	60.42	*
*	5	-1	1959	*	30	1968	1228.9	62.50	*
*	5	-1	1960	*	31	1970	1229.0	64.58	*
*	5	-1	1961	*	32	1967	1229.4	66.67	*
*	5	-1	1962	*	33	1969	1229.5	68.75	*
*	5	-1	1963	*	34	1956	1229.5	70.83	*
*	5	-1	1964	*	35	1938	1229.5	72.92	*
*	5	-1	1965	*	36	1965	1229.6	75.00	*
*	6	-1	1966	*	37	1966	1229.6	77.08	*
*	9	-1	1967	*	38	1948	1229.6	79.17	*
*	5	-1	1968	*	39	1954	1229.6	81.25	*
*	8	-1	1969	*	40	1952	1229.6	83.33	*
*	9	-1	1970	*	41	1941	1229.6	85.42	*
*	5	-1	1971	*	42	1971	1229.6	87.50	*
*	5	-1	1972	*	43	1972	1229.6	89.58	*
*	5	-1	1973	*	44	1945	1229.6	91.67	*
*	5	-1	1974	*	45	1974	1229.6	93.75	*
*	5	-1	1975	*	46	1975	1229.6	95.83	*
*	9	-1	1976	*	47	1950	1229.6	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR ELEV,FT. * RANK WATER YEAR ELEV,FT. WEIBULL *
* 6 -1 1930 1194.0 * 1 1950 1194.8 2.08 *
* 7 -1 1931 1193.9 * 2 1938 1194.5 4.17 *
* 6 -1 1932 1193.5 * 3 1944 1194.4 6.25 *
* 6 -1 1933 1194.0 * 4 1975 1194.3 8.33 *
* 5 -1 1934 1193.0 * 5 1965 1194.2 10.42 *
* 7 -1 1935 1194.0 * 6 1943 1194.1 12.50 *
* 6 -1 1936 1193.9 * 7 1952 1194.1 14.58 *
* 6 -1 1937 1194.0 * 8 1937 1194.0 16.67 *
* 5 -1 1938 1194.5 * 9 1941 1194.0 18.75 *
* 7 -1 1939 1193.9 * 10 1942 1194.0 20.83 *
* 6 -1 1940 1193.8 * 11 1935 1194.0 22.92 *
* 5 -1 1941 1194.0 * 12 1945 1194.0 25.00 *
* 6 -1 1942 1194.0 * 13 1946 1194.0 27.08 *
* 6 -1 1943 1194.1 * 14 1947 1194.0 29.17 *
* 6 -1 1944 1194.4 * 15 1948 1194.0 31.25 *
* 5 -1 1945 1194.0 * 16 1949 1194.0 33.33 *
* 7 -1 1946 1194.0 * 17 1951 1194.0 35.42 *
* 6 -1 1947 1194.0 * 18 1953 1194.0 37.50 *
* 5 -1 1948 1194.0 * 19 1954 1194.0 39.58 *
* 6 -1 1949 1194.0 * 20 1955 1194.0 41.67 *
* 5 -1 1950 1194.8 * 21 1956 1194.0 43.75 *
* 6 -1 1951 1194.0 * 22 1957 1194.0 45.83 *
* 7 -1 1952 1194.1 * 23 1958 1194.0 47.92 *
* 6 -1 1953 1194.0 * 24 1959 1194.0 50.00 *
* 5 -1 1954 1194.0 * 25 1960 1194.0 52.08 *
* 8 -1 1955 1194.0 * 26 1962 1194.0 54.17 *
* 5 -1 1956 1194.0 * 27 1963 1194.0 56.25 *
* 7 -1 1957 1194.0 * 28 1964 1194.0 58.33 *
* 8 -1 1958 1194.0 * 29 1966 1194.0 60.42 *
* 6 -1 1959 1194.0 * 30 1967 1194.0 62.50 *
* 6 -1 1960 1194.0 * 31 1968 1194.0 64.58 *
* 8 -1 1961 1193.6 * 32 1969 1194.0 66.67 *
* 6 -1 1962 1194.0 * 33 1970 1194.0 68.75 *
* 9 -1 1963 1194.0 * 34 1971 1194.0 70.83 *
* 9 -1 1964 1194.0 * 35 1972 1194.0 72.92 *
* 6 -1 1965 1194.2 * 36 1973 1194.0 75.00 *
* 5 -1 1966 1194.0 * 37 1974 1194.0 77.08 *
* 5 -1 1967 1194.0 * 38 1933 1194.0 79.17 *
* 7 -1 1968 1194.0 * 39 1930 1194.0 81.25 *
* 5 -1 1969 1194.0 * 40 1939 1193.9 83.33 *
* 5 -1 1970 1194.0 * 41 1931 1193.9 85.42 *
* 5 -1 1971 1194.0 * 42 1936 1193.9 87.50 *
* 5 -1 1972 1194.0 * 43 1940 1193.8 89.58 *
* 6 -1 1973 1194.0 * 44 1961 1193.6 91.67 *
* 5 -1 1974 1194.0 * 45 1932 1193.5 93.75 *
* 5 -1 1975 1194.3 * 46 1976 1193.5 95.83 *
* 7 -1 1976 1193.5 * 47 1934 1193.0 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER YEAR	* ELEV, FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1193.0	* 1	* 1934	* 1192.5	* 2.08	*
* 5	* -1	* 1931	* 1193.0	* 2	* 1976	* 1192.6	* 4.17	*
* 9	* -1	* 1932	* 1192.6	* 3	* 1932	* 1192.6	* 6.25	*
* 9	* -1	* 1933	* 1193.1	* 4	* 1936	* 1192.9	* 8.33	*
* 9	* -1	* 1934	* 1192.5	* 5	* 1931	* 1193.0	* 10.42	*
* 5	* -1	* 1935	* 1193.5	* 6	* 1930	* 1193.0	* 12.50	*
* 9	* -1	* 1936	* 1192.9	* 7	* 1933	* 1193.1	* 14.58	*
* 5	* -1	* 1937	* 1193.6	* 8	* 1955	* 1193.4	* 16.67	*
* 8	* -1	* 1938	* 1193.9	* 9	* 1958	* 1193.4	* 18.75	*
* 5	* -1	* 1939	* 1193.4	* 10	* 1939	* 1193.4	* 20.83	*
* 5	* -1	* 1940	* 1193.6	* 11	* 1970	* 1193.5	* 22.92	*
* 7	* -1	* 1941	* 1193.9	* 12	* 1935	* 1193.5	* 25.00	*
* 5	* -1	* 1942	* 1193.6	* 13	* 1961	* 1193.5	* 27.08	*
* 5	* -1	* 1943	* 1193.6	* 14	* 1964	* 1193.5	* 29.17	*
* 5	* -1	* 1944	* 1193.6	* 15	* 1963	* 1193.5	* 31.25	*
* 6	* -1	* 1945	* 1194.0	* 16	* 1968	* 1193.5	* 33.33	*
* 5	* -1	* 1946	* 1193.6	* 17	* 1959	* 1193.6	* 35.42	*
* 5	* -1	* 1947	* 1193.9	* 18	* 1957	* 1193.6	* 37.50	*
* 6	* -1	* 1948	* 1193.9	* 19	* 1940	* 1193.6	* 39.58	*
* 5	* -1	* 1949	* 1193.6	* 20	* 1946	* 1193.6	* 41.67	*
* 9	* -1	* 1950	* 1193.7	* 21	* 1949	* 1193.6	* 43.75	*
* 5	* -1	* 1951	* 1193.6	* 22	* 1969	* 1193.6	* 45.83	*
* 9	* -1	* 1952	* 1194.0	* 23	* 1953	* 1193.6	* 47.92	*
* 5	* -1	* 1953	* 1193.6	* 24	* 1937	* 1193.6	* 50.00	*
* 5	* -1	* 1954	* 1194.0	* 25	* 1960	* 1193.6	* 52.08	*
* 5	* -1	* 1955	* 1193.4	* 26	* 1942	* 1193.6	* 54.17	*
* 9	* -1	* 1956	* 1193.9	* 27	* 1962	* 1193.6	* 56.25	*
* 5	* -1	* 1957	* 1193.6	* 28	* 1944	* 1193.6	* 58.33	*
* 5	* -1	* 1958	* 1193.4	* 29	* 1943	* 1193.6	* 60.42	*

* 5	* -1	* 1959	* 1193.6	* 30	* 1951	* 1193.6	* 62.50	*
* 5	* -1	* 1960	* 1193.6	* 31	* 1973	* 1193.6	* 64.58	*
* 5	* -1	* 1961	* 1193.5	* 32	* 1950	* 1193.7	* 66.67	*
* 5	* -1	* 1962	* 1193.6	* 33	* 1967	* 1193.8	* 68.75	*
* 5	* -1	* 1963	* 1193.5	* 34	* 1948	* 1193.9	* 70.83	*
* 5	* -1	* 1964	* 1193.5	* 35	* 1956	* 1193.9	* 72.92	*
* 8	* -1	* 1965	* 1194.0	* 36	* 1947	* 1193.9	* 75.00	*
* 9	* -1	* 1966	* 1193.9	* 37	* 1938	* 1193.9	* 77.08	*
* 9	* -1	* 1967	* 1193.8	* 38	* 1974	* 1193.9	* 79.17	*
* 5	* -1	* 1968	* 1193.5	* 39	* 1966	* 1193.9	* 81.25	*
* 9	* -1	* 1969	* 1193.6	* 40	* 1941	* 1193.9	* 83.33	*
* 9	* -1	* 1970	* 1193.5	* 41	* 1971	* 1194.0	* 85.42	*
* 9	* -1	* 1971	* 1194.0	* 42	* 1965	* 1194.0	* 87.50	*
* 5	* -1	* 1972	* 1194.0	* 43	* 1945	* 1194.0	* 89.58	*
* 5	* -1	* 1973	* 1193.6	* 44	* 1952	* 1194.0	* 91.67	*
* 9	* -1	* 1974	* 1193.9	* 45	* 1972	* 1194.0	* 93.75	*
* 6	* -1	* 1975	* 1194.0	* 46	* 1975	* 1194.0	* 95.83	*
* 9	* -1	* 1976	* 1192.6	* 47	* 1954	* 1194.0	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIRULL PLOT POS	*
* 5	-1	1930	3329.	* 1	1950	21595.	2.08	*
* 6	-1	1931	2474.	* 2	1975	20217.	4.17	*
* 5	-1	1932	2950.	* 3	1969	16309.	6.25	*
* 5	-1	1933	2757.	* 4	1948	14723.	8.33	*
* 4	-1	1934	1984.	* 5	1965	13688.	10.42	*
* 5	-1	1935	2987.	* 6	1966	13118.	12.50	*
* 5	-1	1936	4903.	* 7	1971	13048.	14.58	*
* 5	-1	1937	3931.	* 8	1953	12249.	16.67	*
* 5	-1	1938	11150.	* 9	1952	11428.	18.75	*
* 4	-1	1939	5648.	* 10	1956	11326.	20.83	*
* 5	-1	1940	3422.	* 11	1938	11150.	22.92	*
* 4	-1	1941	10543.	* 12	1972	11047.	25.00	*
* 5	-1	1942	4843.	* 13	1944	10881.	27.08	*
* 6	-1	1943	10641.	* 14	1954	10760.	29.17	*
* 6	-1	1944	10881.	* 15	1943	10641.	31.25	*
* 3	-1	1945	10531.	* 16	1974	10633.	33.33	*
* 6	-1	1946	5688.	* 17	1941	10543.	35.42	*
* 4	-1	1947	6589.	* 18	1945	10531.	37.50	*
* 5	-1	1948	14723.	* 19	1970	9777.	39.58	*
* 7	-1	1949	5590.	* 20	1967	9203.	41.67	*
* 5	-1	1950	21595.	* 21	1962	7793.	43.75	*
* 5	-1	1951	7442.	* 22	1973	7763.	45.83	*
* 7	-1	1952	11428.	* 23	1951	7442.	47.92	*
* 8	-1	1953	12249.	* 24	1947	6589.	50.00	*
* 5	-1	1954	10760.	* 25	1964	6208.	52.08	*
* 4	-1	1955	4693.	* 26	1946	5688.	54.17	*

* 4	-1	1956	11326.	* 27	1939	5648.	56.25	*
* 4	-1	1957	5296.	* 28	1949	5590.	58.33	*
* 2	-1	1958	2182.	* 29	1976	5325.	60.42	*
* 6	-1	1959	3794.	* 30	1957	5296.	62.50	*
* 5	-1	1960	5193.	* 31	1960	5193.	64.58	*
* 5	-1	1961	3246.	* 32	1968	5037.	66.67	*
* 5	-1	1962	7793.	* 33	1936	4903.	68.75	*
* 6	-1	1963	4693.	* 34	1942	4843.	70.83	*
* 5	-1	1964	6208.	* 35	1955	4693.	72.92	*
* 4	-1	1965	13688.	* 36	1963	4693.	75.00	*
* 5	-1	1966	13118.	* 37	1937	3931.	77.08	*
* 4	-1	1967	9203.	* 38	1959	3794.	79.17	*
* 6	-1	1968	5037.	* 39	1940	3422.	81.25	*
* 4	-1	1969	16309.	* 40	1930	3329.	83.33	*
* 5	-1	1970	9777.	* 41	1961	3246.	85.42	*
* 4	-1	1971	13048.	* 42	1935	2987.	87.50	*
* 4	-1	1972	11047.	* 43	1932	2950.	89.58	*
* 10	-1	1973	7763.	* 44	1933	2757.	91.67	*
* 6	-1	1974	10633.	* 45	1931	2474.	93.75	*
* 5	-1	1975	20217.	* 46	1958	2182.	95.83	*
* 4	-1	1976	5325.	* 47	1934	1984.	97.92	*

ANALYSIS OF MINIMUMS

FLUTTING POSITIONS

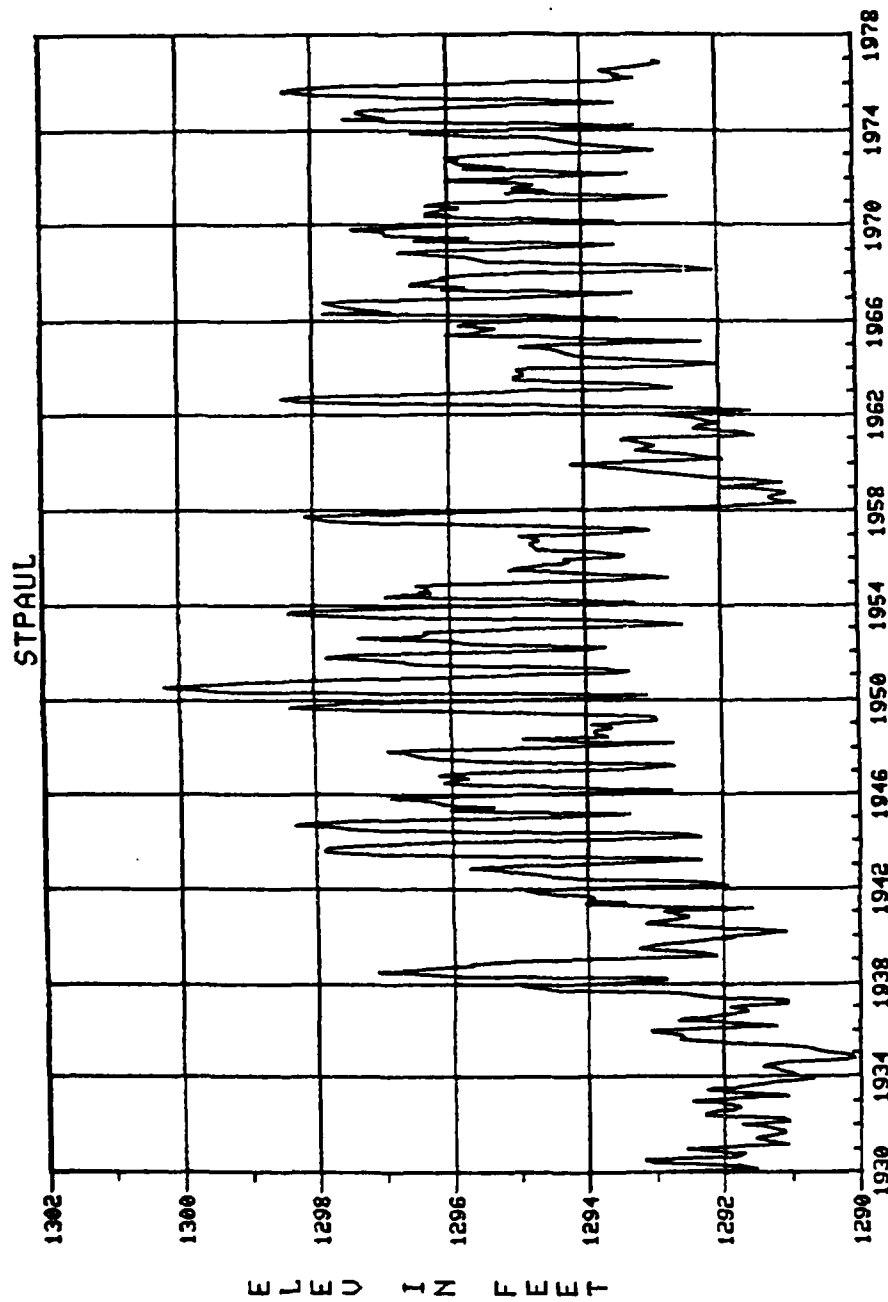
*****EVENTS ANALYZED*****

APPENDIX G

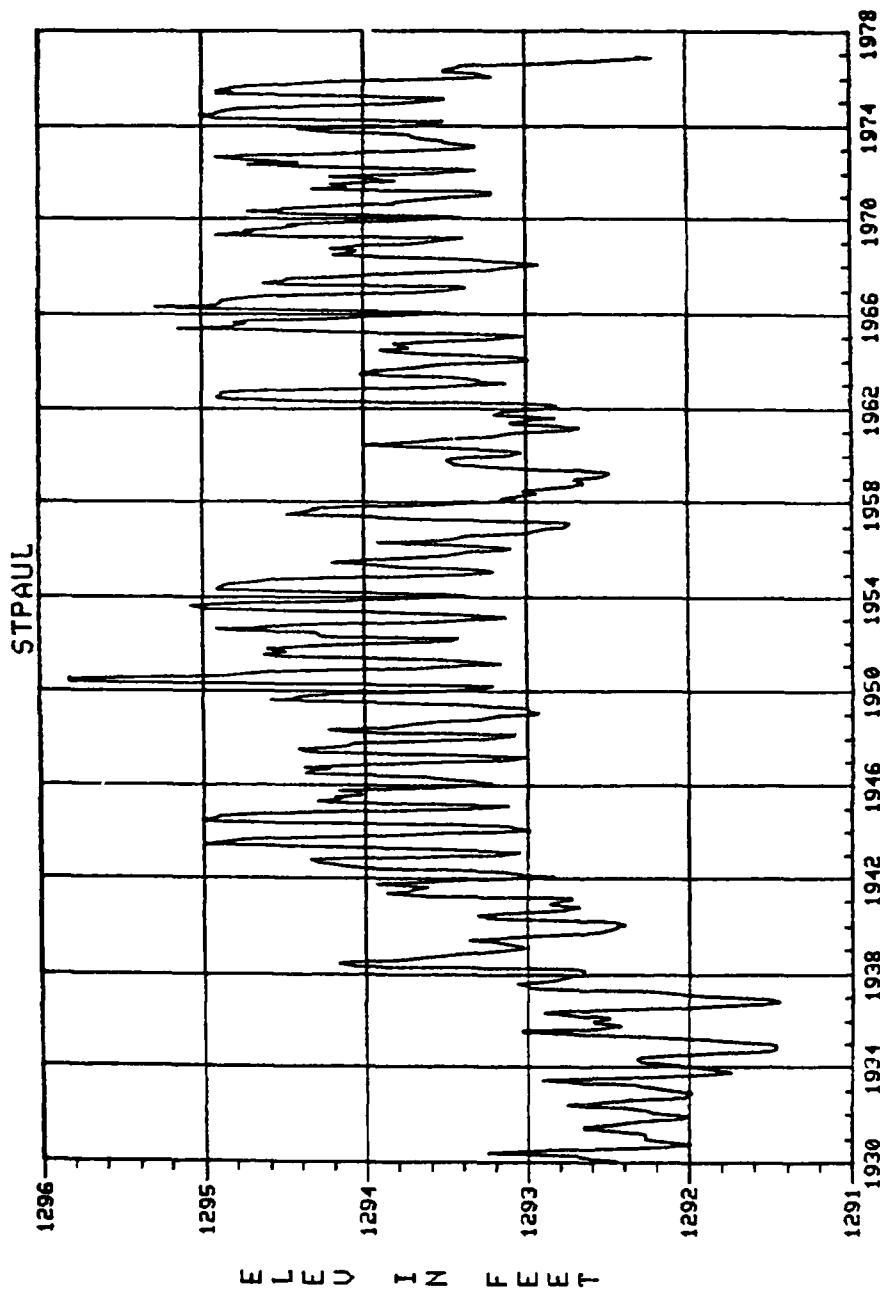
PLAN 3

TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

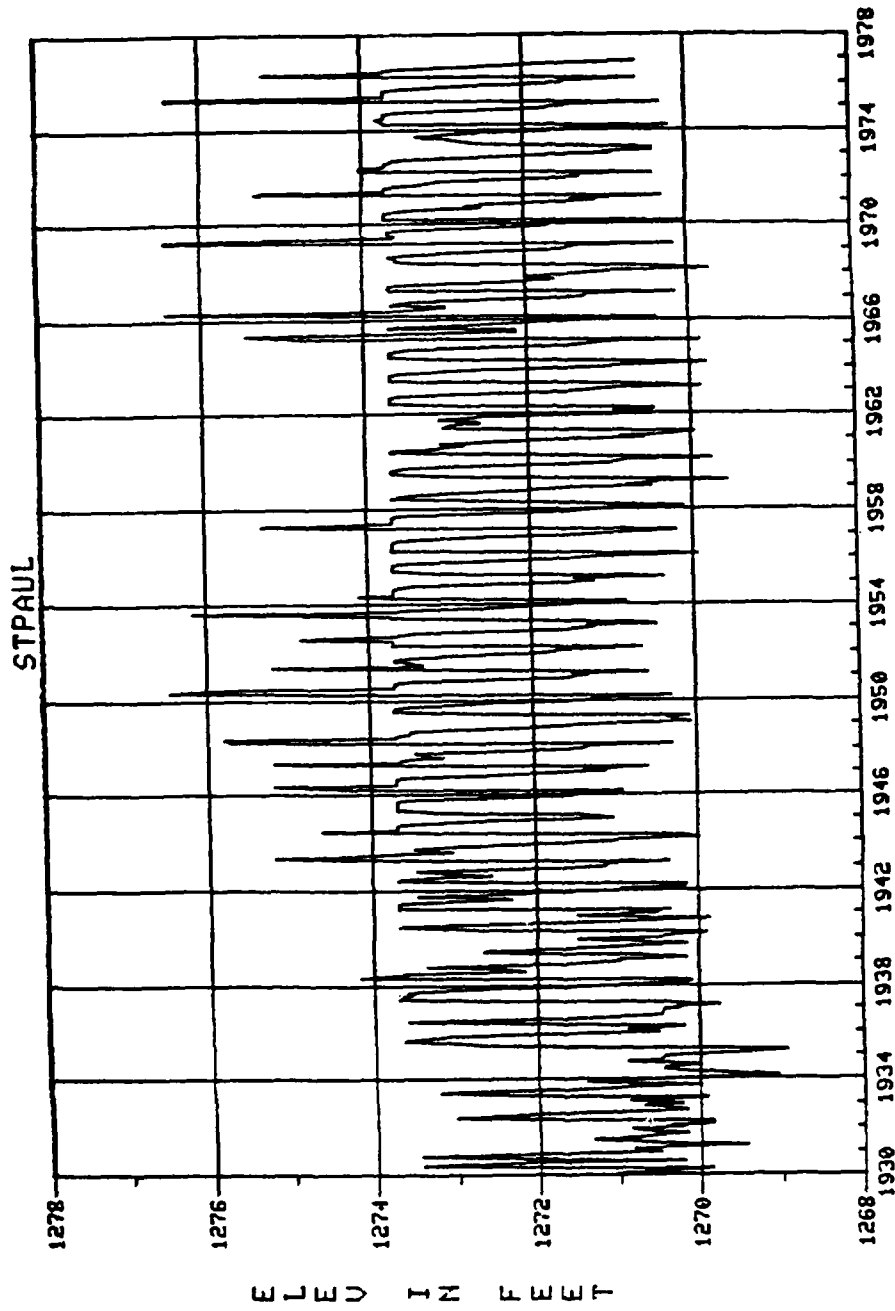
Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.



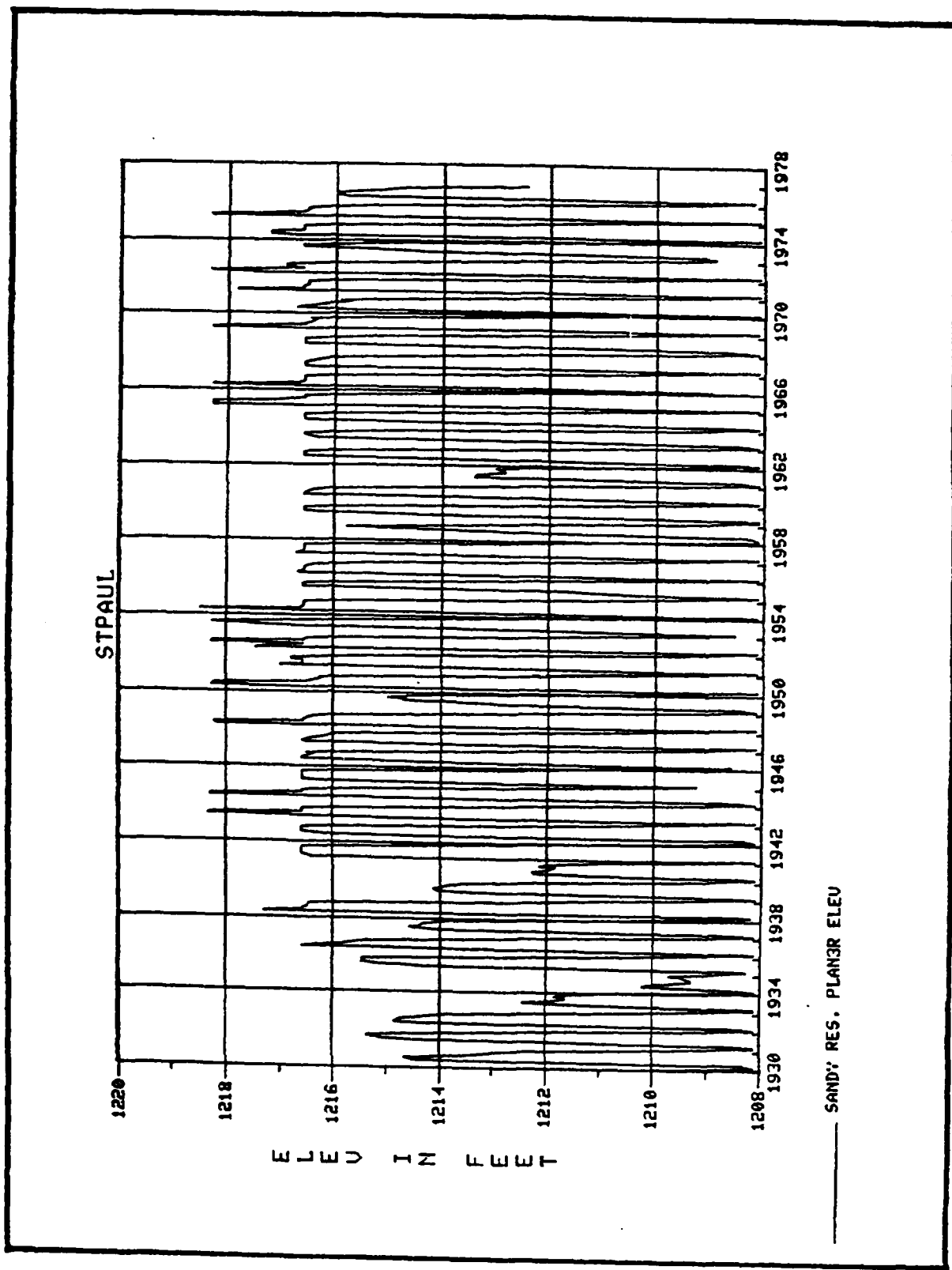
UINNI RES. PLANTER ELEV

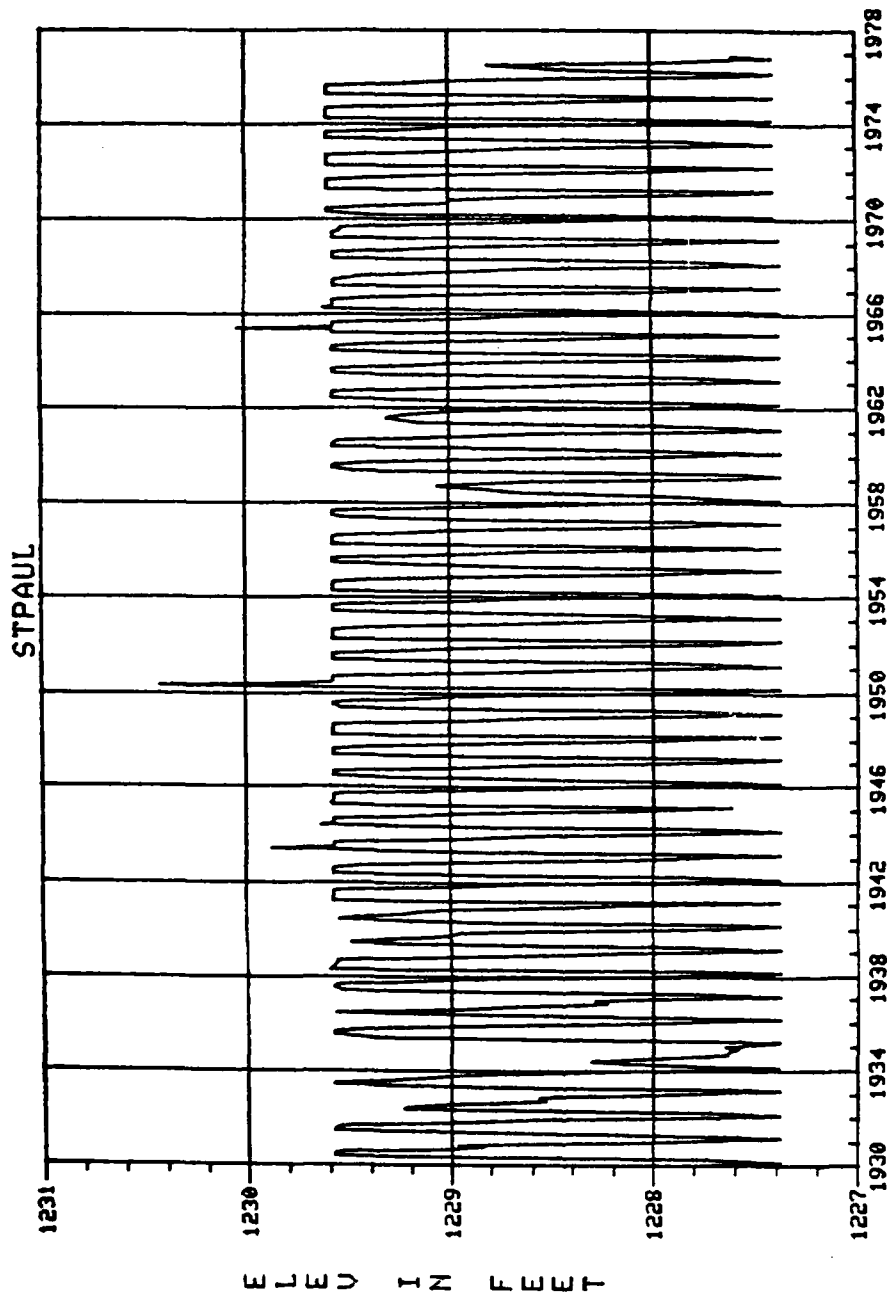


____ LEECH RES. PLANER ELEV

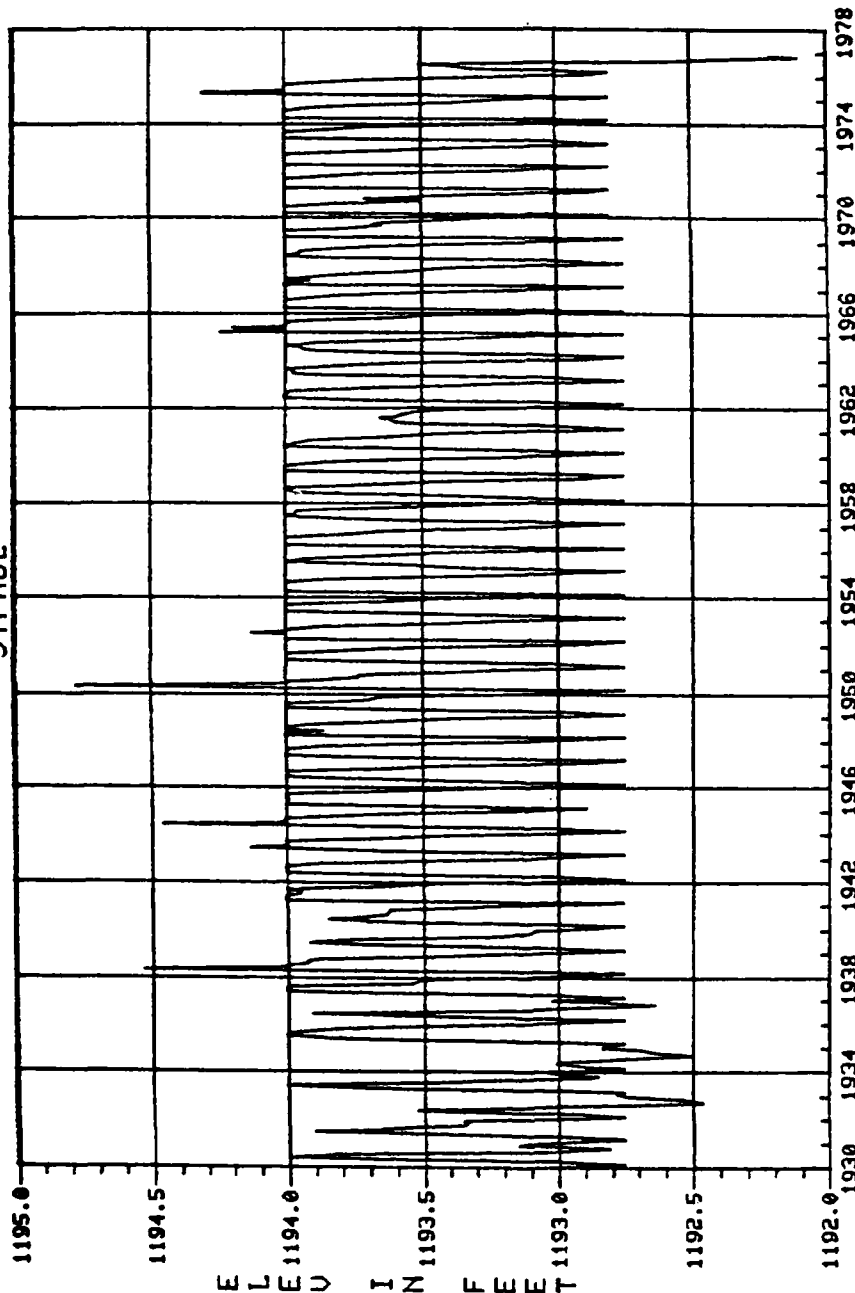


POKEGAMA RES. PLAN3R ELEV

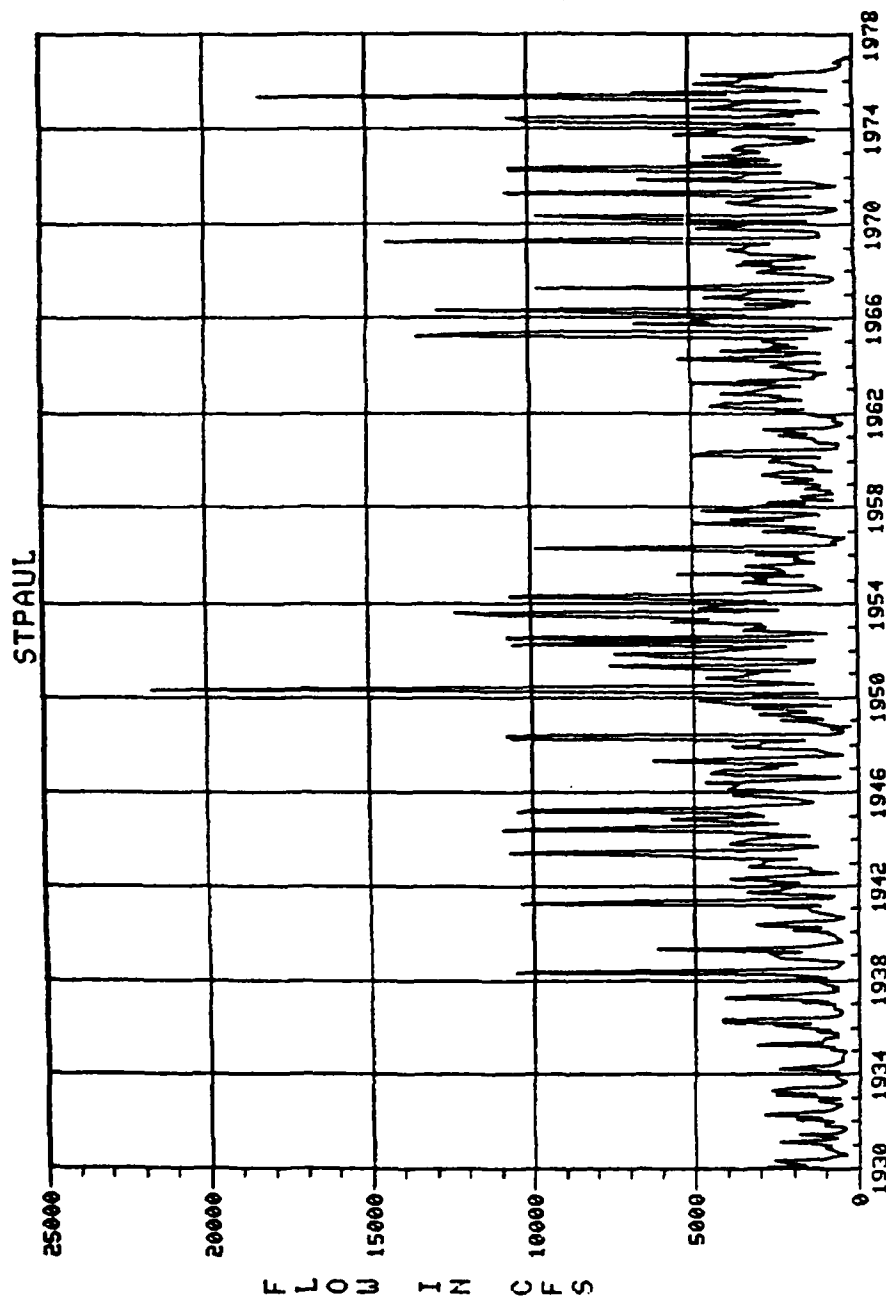




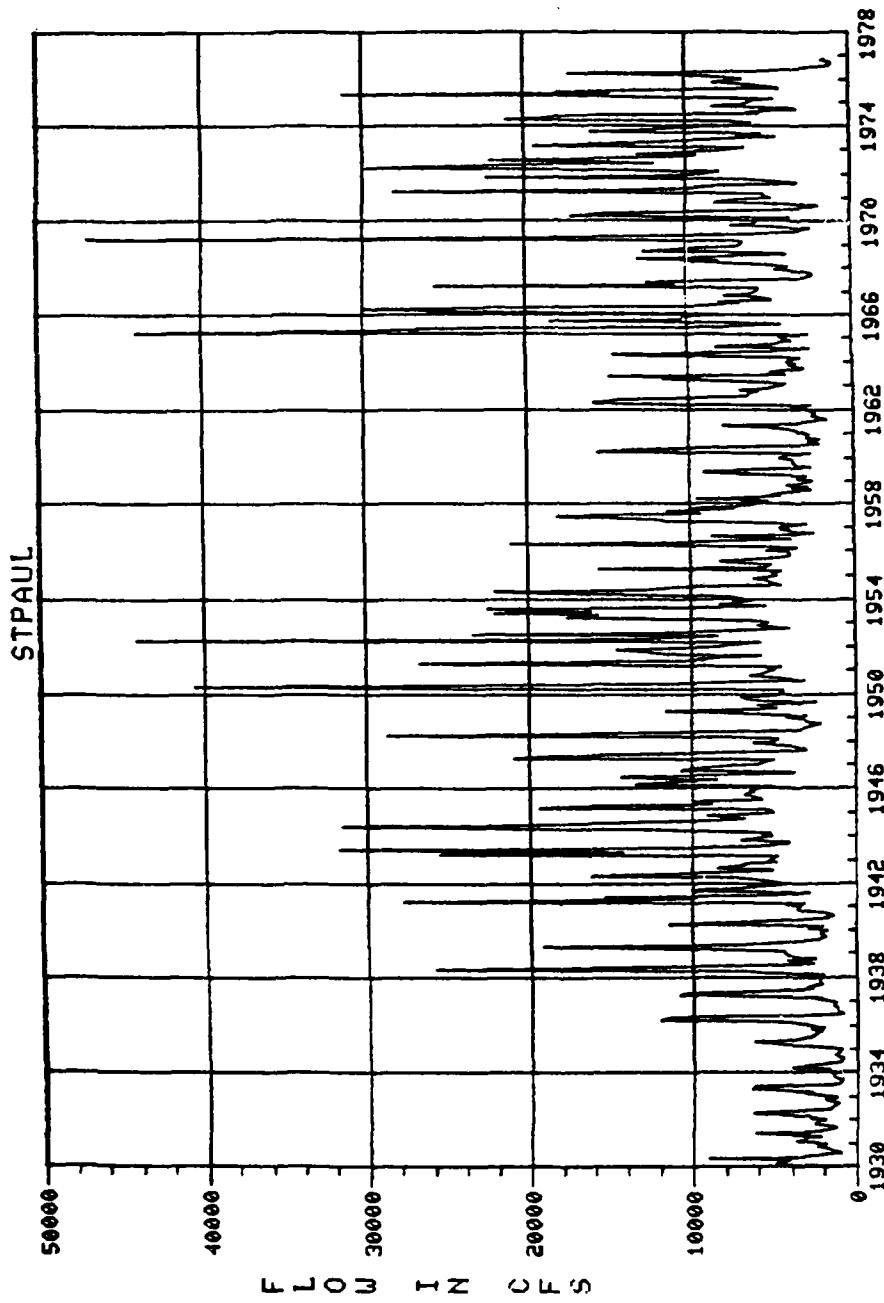
STPAUL



— GULL RES. PLANER ELEV



— AITKIN PLANTER FLOW-REG



— ANOKA PLANT FLOW-REG

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL	* PLOT POS	* *
* 7	* -1	* 1930	* 1293.2	* 1	* 1950	* 1300.2	* 2.08	* *	* *
* 6	* -1	* 1931	* 1291.5	* 2	* 1962	* 1298.4	* 4.17	* *	* *
* 7	* -1	* 1932	* 1292.3	* 3	* 1975	* 1298.4	* 6.25	* *	* *
* 6	* -1	* 1933	* 1292.2	* 4	* 1953	* 1298.4	* 8.33	* *	* *
* 6	* -1	* 1934	* 1291.4	* 5	* 1949	* 1298.3	* 10.42	* *	* *
* 8	* -1	* 1935	* 1292.6	* 6	* 1944	* 1298.3	* 12.50	* *	* *
* 6	* -1	* 1936	* 1292.6	* 7	* 1957	* 1298.0	* 14.58	* *	* *
* 9	* -1	* 1937	* 1293.4	* 8	* 1943	* 1297.9	* 16.67	* *	* *
* 7	* -1	* 1938	* 1297.1	* 9	* 1966	* 1297.8	* 18.75	* *	* *
* 7	* -1	* 1939	* 1293.2	* 10	* 1974	* 1297.5	* 20.83	* *	* *
* 7	* -1	* 1940	* 1293.1	* 11	* 1952	* 1297.3	* 22.92	* *	* *
* 5	* -1	* 1941	* 1294.0	* 12	* 1951	* 1297.3	* 25.00	* *	* *
* 9	* -1	* 1942	* 1295.0	* 13	* 1938	* 1297.1	* 27.08	* *	* *
* 8	* -1	* 1943	* 1297.9	* 14	* 1954	* 1296.9	* 29.17	* *	* *
* 9	* -1	* 1944	* 1298.3	* 15	* 1969	* 1296.9	* 31.25	* *	* *
* 9	* -1	* 1945	* 1296.3	* 16	* 1947	* 1296.5	* 33.33	* *	* *
* 7	* -1	* 1946	* 1296.1	* 17	* 1967	* 1296.5	* 35.42	* *	* *
* 9	* -1	* 1947	* 1296.5	* 18	* 1970	* 1296.3	* 37.50	* *	* *
* 5	* -1	* 1948	* 1294.9	* 19	* 1945	* 1296.3	* 39.58	* *	* *
* 9	* -1	* 1949	* 1298.3	* 20	* 1946	* 1296.1	* 41.67	* *	* *
* 7	* -1	* 1950	* 1300.2	* 21	* 1965	* 1296.0	* 43.75	* *	* *
* 9	* -1	* 1951	* 1297.3	* 22	* 1972	* 1295.9	* 45.83	* *	* *
* 8	* -1	* 1952	* 1297.3	* 23	* 1968	* 1295.7	* 47.92	* *	* *
* 9	* -1	* 1953	* 1298.4	* 24	* 1955	* 1295.1	* 50.00	* *	* *
* 6	* -1	* 1954	* 1296.9	* 25	* 1971	* 1295.0	* 52.08	* *	* *
* 7	* -1	* 1955	* 1295.1	* 26	* 1942	* 1295.0	* 54.17	* *	* *
* 8	* -1	* 1956	* 1294.8	* 27	* 1963	* 1295.0	* 56.25	* *	* *
* 9	* -1	* 1957	* 1298.0	* 28	* 1948	* 1294.9	* 58.33	* *	* *
* 8	* -1	* 1958	* 1291.3	* 29	* 1956	* 1294.8	* 60.42	* *	* *
* 9	* -1	* 1959	* 1293.1	* 30	* 1973	* 1294.7	* 62.50	* *	* *
* 7	* -1	* 1960	* 1293.2	* 31	* 1964	* 1294.2	* 64.58	* *	* *
* 6	* -1	* 1961	* 1292.3	* 32	* 1941	* 1294.0	* 66.67	* *	* *
* 9	* -1	* 1962	* 1298.4	* 33	* 1976	* 1293.7	* 68.75	* *	* *
* 7	* -1	* 1963	* 1295.0	* 34	* 1937	* 1293.4	* 70.83	* *	* *
* 9	* -1	* 1964	* 1294.2	* 35	* 1939	* 1293.2	* 72.92	* *	* *
* 6	* -1	* 1965	* 1296.0	* 36	* 1960	* 1293.2	* 75.00	* *	* *
* 5	* -1	* 1966	* 1297.8	* 37	* 1930	* 1293.2	* 77.08	* *	* *
* 7	* -1	* 1967	* 1296.5	* 38	* 1959	* 1293.1	* 79.17	* *	* *
* 9	* -1	* 1968	* 1295.7	* 39	* 1940	* 1293.1	* 81.25	* *	* *

* 9	* -1	* 1969	* 1296.9	* 40	* 1936	* 1292.6	* 83.33	* *	* *
* 7	* -1	* 1970	* 1296.3	* 41	* 1935	* 1292.6	* 85.42	* *	* *
* 5	* -1	* 1971	* 1295.0	* 42	* 1961	* 1292.3	* 87.50	* *	* *
* 9	* -1	* 1972	* 1295.9	* 43	* 1932	* 1292.3	* 89.58	* *	* *
* 9	* -1	* 1973	* 1294.7	* 44	* 1933	* 1292.2	* 91.67	* *	* *
* 6	* -1	* 1974	* 1297.5	* 45	* 1931	* 1291.5	* 93.75	* *	* *
* 8	* -1	* 1975	* 1298.4	* 46	* 1934	* 1291.4	* 95.83	* *	* *
* 7	* -1	* 1976	* 1293.7	* 47	* 1958	* 1291.3	* 97.92	* *	* *

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	9	-1	1930	*	1	1934	1290.5	2.08
*	9	-1	1931	*	2	1958	1290.9	4.17
*	5	-1	1932	*	3	1931	1291.1	6.25
*	9	-1	1933	*	4	1935	1291.2	8.33
*	9	-1	1934	*	5	1933	1291.4	10.42
*	5	-1	1935	*	6	1937	1291.4	12.50
*	9	-1	1936	*	7	1932	1291.6	14.58
*	5	-1	1937	*	8	1959	1291.6	16.67
*	5	-1	1938	*	9	1930	1291.8	18.75
*	5	-1	1939	*	10	1936	1292.0	20.83
*	5	-1	1940	*	11	1940	1292.0	22.92
*	6	-1	1941	*	12	1961	1292.0	25.00
*	5	-1	1942	*	13	1960	1292.5	27.08
*	5	-1	1943	*	14	1939	1292.6	29.17
*	5	-1	1944	*	15	1964	1292.9	31.25
*	6	-1	1945	*	16	1942	1293.1	33.33

*	5	-1	1946	*	17	1976	1293.2	35.42
*	5	-1	1947	*	18	1968	1293.3	37.50
*	6	-1	1948	*	19	1962	1293.3	39.58
*	5	-1	1949	*	20	1944	1293.3	41.67
*	9	-1	1950	*	21	1949	1293.4	43.75
*	5	-1	1951	*	22	1941	1293.4	45.83
*	5	-1	1952	*	23	1963	1293.5	47.92
*	5	-1	1953	*	24	1955	1293.6	50.00
*	5	-1	1954	*	25	1947	1293.6	52.08
*	5	-1	1955	*	26	1953	1293.7	54.17
*	5	-1	1956	*	27	1948	1293.7	56.25
*	5	-1	1957	*	28	1973	1293.7	58.33
*	5	-1	1958	*	29	1943	1293.9	60.42
*	5	-1	1959	*	30	1957	1294.3	62.50
*	5	-1	1960	*	31	1971	1294.5	64.58
*	9	-1	1961	*	32	1951	1294.6	66.67
*	5	-1	1962	*	33	1956	1294.7	68.75
*	5	-1	1963	*	34	1946	1294.8	70.83
*	5	-1	1964	*	35	1965	1294.9	72.92
*	5	-1	1965	*	36	1972	1295.0	75.00
*	6	-1	1966	*	37	1945	1295.4	77.08
*	6	-1	1967	*	38	1969	1295.6	79.17
*	5	-1	1968	*	39	1952	1295.7	81.25
*	6	-1	1969	*	40	1967	1295.7	83.33
*	9	-1	1970	*	41	1970	1295.8	85.42
*	6	-1	1971	*	42	1938	1295.9	87.50
*	6	-1	1972	*	43	1974	1296.1	89.58
*	5	-1	1973	*	44	1954	1296.1	91.67
*	5	-1	1974	*	45	1975	1296.7	93.75
*	5	-1	1975	*	46	1966	1296.8	95.83
*	9	-1	1976	*	47	1950	1299.0	97.92

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1293.2	* 1	* 1950	* 1295.8	* 2.08	*
* 6	* -1	* 1931	* 1292.6	* 2	* 1966	* 1295.3	* 4.17	*
* 6	* -1	* 1932	* 1292.8	* 3	* 1965	* 1295.1	* 6.25	*
* 6	* -1	* 1933	* 1292.9	* 4	* 1953	* 1295.1	* 8.33	*
* 5	* -1	* 1934	* 1292.3	* 5	* 1944	* 1295.0	* 10.42	*
* 7	* -1	* 1935	* 1293.0	* 6	* 1974	* 1295.0	* 12.50	*
* 5	* -1	* 1936	* 1292.9	* 7	* 1943	* 1295.0	* 14.58	*
* 8	* -1	* 1937	* 1293.1	* 8	* 1952	* 1294.9	* 16.67	*
* 6	* -1	* 1938	* 1294.2	* 9	* 1954	* 1294.9	* 18.75	*
* 6	* -1	* 1939	* 1293.3	* 10	* 1962	* 1294.9	* 20.83	*
* 6	* -1	* 1940	* 1293.3	* 11	* 1969	* 1294.9	* 22.92	*
* 5	* -1	* 1941	* 1293.9	* 12	* 1975	* 1294.9	* 25.00	*
* 9	* -1	* 1942	* 1294.3	* 13	* 1972	* 1294.9	* 27.08	*
* 6	* -1	* 1943	* 1295.0	* 14	* 1970	* 1294.7	* 29.17	*
* 7	* -1	* 1944	* 1295.0	* 15	* 1951	* 1294.6	* 31.25	*
* 5	* -1	* 1945	* 1294.3	* 16	* 1967	* 1294.6	* 33.33	*
* 7	* -1	* 1946	* 1294.4	* 17	* 1949	* 1294.6	* 35.42	*
* 7	* -1	* 1947	* 1294.4	* 18	* 1957	* 1294.5	* 37.50	*
* 5	* -1	* 1948	* 1294.2	* 19	* 1947	* 1294.4	* 39.58	*
* 8	* -1	* 1949	* 1294.6	* 20	* 1946	* 1294.4	* 41.67	*
* 6	* -1	* 1950	* 1295.8	* 21	* 1971	* 1294.3	* 43.75	*
* 7	* -1	* 1951	* 1294.6	* 22	* 1942	* 1294.3	* 45.83	*
* 8	* -1	* 1952	* 1294.9	* 23	* 1945	* 1294.3	* 47.92	*
* 8	* -1	* 1953	* 1295.1	* 24	* 1948	* 1294.2	* 50.00	*
* 5	* -1	* 1954	* 1294.9	* 25	* 1955	* 1294.2	* 52.08	*
* 7	* -1	* 1955	* 1294.2	* 26	* 1968	* 1294.2	* 54.17	*
* 5	* -1	* 1956	* 1293.9	* 27	* 1938	* 1294.2	* 56.25	*
* 7	* -1	* 1957	* 1294.5	* 28	* 1963	* 1294.0	* 58.33	*
* 7	* -1	* 1958	* 1293.0	* 29	* 1960	* 1294.0	* 60.42	*
* 9	* -1	* 1959	* 1293.5	* 30	* 1956	* 1293.9	* 62.50	*
* 6	* -1	* 1960	* 1294.0	* 31	* 1964	* 1293.9	* 64.58	*
* 6	* -1	* 1961	* 1293.1	* 32	* 1941	* 1293.9	* 66.67	*
* 7	* -1	* 1962	* 1294.9	* 33	* 1973	* 1293.8	* 68.75	*
* 7	* -1	* 1963	* 1294.0	* 34	* 1976	* 1293.5	* 70.83	*
* 7	* -1	* 1964	* 1293.9	* 35	* 1959	* 1293.5	* 72.92	*
* 6	* -1	* 1965	* 1295.1	* 36	* 1939	* 1293.3	* 75.00	*
* 5	* -1	* 1966	* 1295.3	* 37	* 1940	* 1293.3	* 77.08	*
* 5	* -1	* 1967	* 1294.6	* 38	* 1930	* 1293.2	* 79.17	*
* 7	* -1	* 1968	* 1294.2	* 39	* 1961	* 1293.1	* 81.25	*
* 5	* -1	* 1969	* 1294.9	* 40	* 1937	* 1293.1	* 83.33	*
* 5	* -1	* 1970	* 1294.7	* 41	* 1935	* 1293.0	* 85.42	*
* 5	* -1	* 1971	* 1294.3	* 42	* 1958	* 1293.0	* 87.50	*

* 9	* -1	* 1972	* 1294.9	* 43	* 1933	* 1292.9	* 89.58	*
* 9	* -1	* 1973	* 1293.8	* 44	* 1936	* 1292.9	* 91.67	*
* 6	* -1	* 1974	* 1295.0	* 45	* 1932	* 1292.8	* 93.75	*
* 5	* -1	* 1975	* 1294.9	* 46	* 1931	* 1292.6	* 95.83	*
* 5	* -1	* 1976	* 1293.5	* 47	* 1934	* 1292.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1292.1	* 1	* 1934	* 1291.5	* 2.08	*
* 9	* -1	* 1931	* 1292.3	* 2	* 1936	* 1291.7	* 4.17	*
* 9	* -1	* 1932	* 1292.1	* 3	* 1933	* 1291.8	* 6.25	*
* 9	* -1	* 1933	* 1291.8	* 4	* 1932	* 1292.1	* 8.33	*
* 9	* -1	* 1934	* 1291.5	* 5	* 1930	* 1292.1	* 10.42	*
* 5	* -1	* 1935	* 1292.3	* 6	* 1935	* 1292.3	* 12.50	*
* 9	* -1	* 1936	* 1291.7	* 7	* 1931	* 1292.3	* 14.58	*
* 5	* -1	* 1937	* 1292.7	* 8	* 1959	* 1292.6	* 16.67	*
* 9	* -1	* 1938	* 1293.6	* 9	* 1976	* 1292.6	* 18.75	*
* 9	* -1	* 1939	* 1292.7	* 10	* 1958	* 1292.7	* 20.83	*
* 9	* -1	* 1940	* 1292.8	* 11	* 1937	* 1292.7	* 22.92	*
* 8	* -1	* 1941	* 1293.6	* 12	* 1939	* 1292.7	* 25.00	*
* 5	* -1	* 1942	* 1293.4	* 13	* 1940	* 1292.8	* 27.08	*
* 5	* -1	* 1943	* 1293.9	* 14	* 1961	* 1292.8	* 29.17	*
* 5	* -1	* 1944	* 1293.6	* 15	* 1949	* 1293.1	* 31.25	*
* 8	* -1	* 1945	* 1294.0	* 16	* 1956	* 1293.2	* 33.33	*
* 5	* -1	* 1946	* 1293.6	* 17	* 1942	* 1293.4	* 35.42	*
* 5	* -1	* 1947	* 1293.9	* 18	* 1973	* 1293.5	* 37.50	*
* 9	* -1	* 1948	* 1293.6	* 19	* 1963	* 1293.5	* 39.58	*

* 5	* -1	* 1949	* 1293.1	* 20	* 1960	* 1293.5	* 41.67	*
* 9	* -1	* 1950	* 1294.7	* 21	* 1944	* 1293.6	* 43.75	*
* 5	* -1	* 1951	* 1294.1	* 22	* 1948	* 1293.6	* 45.83	*
* 5	* -1	* 1952	* 1294.3	* 23	* 1964	* 1293.6	* 47.92	*
* 5	* -1	* 1953	* 1293.9	* 24	* 1968	* 1293.6	* 50.00	*
* 9	* -1	* 1954	* 1294.7	* 25	* 1941	* 1293.6	* 52.08	*
* 5	* -1	* 1955	* 1293.7	* 26	* 1938	* 1293.6	* 54.17	*
* 9	* -1	* 1956	* 1293.2	* 27	* 1946	* 1293.6	* 56.25	*
* 5	* -1	* 1957	* 1293.6	* 28	* 1957	* 1293.6	* 58.33	*
* 9	* -1	* 1958	* 1292.7	* 29	* 1955	* 1293.7	* 60.42	*
* 5	* -1	* 1959	* 1292.6	* 30	* 1970	* 1293.8	* 62.50	*
* 9	* -1	* 1960	* 1293.5	* 31	* 1967	* 1293.8	* 64.58	*
* 8	* -1	* 1961	* 1292.8	* 32	* 1971	* 1293.8	* 66.67	*
* 5	* -1	* 1962	* 1294.1	* 33	* 1953	* 1293.9	* 68.75	*
* 5	* -1	* 1963	* 1293.5	* 34	* 1947	* 1293.9	* 70.83	*
* 5	* -1	* 1964	* 1293.6	* 35	* 1943	* 1293.9	* 72.92	*
* 5	* -1	* 1965	* 1294.6	* 36	* 1945	* 1294.0	* 75.00	*
* 9	* -1	* 1966	* 1294.8	* 37	* 1951	* 1294.1	* 77.08	*
* 9	* -1	* 1967	* 1293.8	* 38	* 1962	* 1294.1	* 79.17	*
* 5	* -1	* 1968	* 1293.6	* 39	* 1952	* 1294.3	* 81.25	*
* 9	* -1	* 1969	* 1294.4	* 40	* 1972	* 1294.4	* 83.33	*
* 9	* -1	* 1970	* 1293.8	* 41	* 1969	* 1294.4	* 85.42	*
* 9	* -1	* 1971	* 1293.8	* 42	* 1965	* 1294.6	* 87.50	*
* 6	* -1	* 1972	* 1294.4	* 43	* 1950	* 1294.7	* 89.58	*
* 5	* -1	* 1973	* 1293.5	* 44	* 1975	* 1294.7	* 91.67	*
* 9	* -1	* 1974	* 1294.8	* 45	* 1954	* 1294.7	* 93.75	*
* 9	* -1	* 1975	* 1294.7	* 46	* 1974	* 1294.8	* 95.83	*
* 9	* -1	* 1976	* 1292.6	* 47	* 1966	* 1294.8	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON DAY YEAR ELEV,FT. * RANK YEAR ELEV,FT. WEIRULL *
* FLOT POS *

* 6	-1	1930	1273.4	* 1	1950	1276.4	2.08	*
* 7	-1	1931	1271.3	* 2	1966	1276.4	4.17	*
* 6	-1	1932	1273.0	* 3	1969	1276.4	6.25	*
* 6	-1	1933	1273.2	* 4	1975	1276.4	8.33	*
* 6	-1	1934	1270.4	* 5	1953	1276.1	10.42	*
* 8	-1	1935	1273.6	* 6	1948	1275.8	12.50	*
* 6	-1	1936	1273.6	* 7	1965	1275.4	14.58	*
* 6	-1	1937	1273.7	* 8	1957	1275.3	16.67	*
* 5	-1	1938	1274.1	* 9	1971	1275.2	18.75	*
* 6	-1	1939	1272.6	* 10	1943	1275.2	20.83	*
* 6	-1	1940	1273.7	* 11	1946	1275.2	22.92	*
* 5	-1	1941	1273.7	* 12	1947	1275.2	25.00	*
* 6	-1	1942	1273.7	* 13	1951	1275.2	27.08	*
* 5	-1	1943	1275.2	* 14	1976	1275.2	29.17	*
* 6	-1	1944	1274.6	* 15	1952	1274.8	31.25	*
* 5	-1	1945	1273.7	* 16	1944	1274.6	33.33	*
* 5	-1	1946	1275.2	* 17	1938	1274.1	35.42	*
* 5	-1	1947	1275.2	* 18	1954	1274.1	37.50	*
* 5	-1	1948	1275.8	* 19	1972	1274.0	39.58	*
* 7	-1	1949	1273.7	* 20	1974	1273.8	41.67	*
* 5	-1	1950	1276.4	* 21	1942	1273.7	43.75	*
* 5	-1	1951	1275.2	* 22	1945	1273.7	45.83	*
* 7	-1	1952	1274.8	* 23	1941	1273.7	47.92	*
* 8	-1	1953	1276.1	* 24	1955	1273.7	50.00	*
* 5	-1	1954	1274.1	* 25	1956	1273.7	52.08	*
* 6	-1	1955	1273.7	* 26	1937	1273.7	54.17	*
* 5	-1	1956	1273.7	* 27	1958	1273.7	56.25	*
* 5	-1	1957	1275.3	* 28	1959	1273.7	58.33	*
* 7	-1	1958	1273.7	* 29	1960	1273.7	60.42	*
* 8	-1	1959	1273.7	* 30	1962	1273.7	62.50	*
* 6	-1	1960	1273.7	* 31	1963	1273.7	64.58	*
* 6	-1	1961	1273.0	* 32	1964	1273.7	66.67	*
* 6	-1	1962	1273.7	* 33	1967	1273.7	68.75	*
* 6	-1	1963	1273.7	* 34	1968	1273.7	70.83	*
* 6	-1	1964	1273.7	* 35	1970	1273.7	72.92	*
* 5	-1	1965	1275.4	* 36	1940	1273.7	75.00	*
* 5	-1	1966	1276.4	* 37	1949	1273.7	77.08	*
* 5	-1	1967	1273.7	* 38	1935	1273.6	79.17	*
* 9	-1	1968	1273.7	* 39	1936	1273.6	81.25	*
* 5	-1	1969	1276.4	* 40	1930	1273.4	83.33	*
* 5	-1	1970	1273.7	* 41	1933	1273.2	85.42	*
* 5	-1	1971	1275.2	* 42	1973	1273.2	87.50	*
* 5	-1	1972	1274.0	* 43	1932	1273.0	89.58	*
* 9	-1	1973	1273.2	* 44	1961	1273.0	91.67	*

* 6	-1	1974	1273.8	* 45	1939	1272.6	93.75	*
* 5	-1	1975	1276.4	* 46	1931	1271.3	95.83	*
* 5	-1	1976	1275.2	* 47	1934	1270.4	97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 8	* -1	* 1930	* 1270.2	* 1	* 1934	* 1270.0	* 2.08	*
* 5	* -1	* 1931	* 1270.2	* 2	* 1949	* 1270.1	* 4.17	*
* 9	* -1	* 1932	* 1270.8	* 3	* 1931	* 1270.2	* 6.25	*
* 9	* -1	* 1933	* 1270.6	* 4	* 1930	* 1270.2	* 8.33	*
* 8	* -1	* 1934	* 1270.0	* 5	* 1936	* 1270.6	* 10.42	*
* 5	* -1	* 1935	* 1271.5	* 6	* 1933	* 1270.6	* 12.50	*
* 9	* -1	* 1936	* 1270.6	* 7	* 1939	* 1270.6	* 14.58	*
* 5	* -1	* 1937	* 1272.8	* 8	* 1932	* 1270.8	* 16.67	*
* 8	* -1	* 1938	* 1272.1	* 9	* 1940	* 1271.0	* 18.75	*
* 9	* -1	* 1939	* 1270.6	* 10	* 1959	* 1271.2	* 20.83	*
* 9	* -1	* 1940	* 1271.0	* 11	* 1935	* 1271.5	* 22.92	*
* 8	* -1	* 1941	* 1272.3	* 12	* 1967	* 1271.6	* 25.00	*
* 5	* -1	* 1942	* 1272.3	* 13	* 1973	* 1271.7	* 27.08	*
* 5	* -1	* 1943	* 1273.0	* 14	* 1961	* 1272.0	* 29.17	*
* 5	* -1	* 1944	* 1272.4	* 15	* 1938	* 1272.1	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1965	* 1272.1	* 33.33	*
* 6	* -1	* 1946	* 1273.7	* 17	* 1958	* 1272.3	* 35.42	*
* 8	* -1	* 1947	* 1273.1	* 18	* 1941	* 1272.3	* 37.50	*
* 8	* -1	* 1948	* 1273.5	* 19	* 1942	* 1272.3	* 39.58	*
* 5	* -1	* 1949	* 1270.1	* 20	* 1944	* 1272.4	* 41.67	*
* 7	* -1	* 1950	* 1273.7	* 21	* 1968	* 1272.5	* 43.75	*

* 6	* -1	* 1951	* 1273.3	* 22	* 1970	* 1272.5	* 45.83	*
* 5	* -1	* 1952	* 1273.7	* 23	* 1976	* 1272.7	* 47.92	*
* 5	* -1	* 1953	* 1272.7	* 24	* 1953	* 1272.7	* 50.00	*
* 6	* -1	* 1954	* 1273.7	* 25	* 1962	* 1272.8	* 52.08	*
* 5	* -1	* 1955	* 1273.1	* 26	* 1960	* 1272.8	* 54.17	*
* 9	* -1	* 1956	* 1273.7	* 27	* 1937	* 1272.8	* 56.25	*
* 6	* -1	* 1957	* 1273.7	* 28	* 1964	* 1272.9	* 58.33	*
* 5	* -1	* 1958	* 1272.3	* 29	* 1966	* 1273.0	* 60.42	*
* 5	* -1	* 1959	* 1271.2	* 30	* 1943	* 1273.0	* 62.50	*
* 9	* -1	* 1960	* 1272.8	* 31	* 1955	* 1273.1	* 64.58	*
* 5	* -1	* 1961	* 1272.0	* 32	* 1947	* 1273.1	* 66.67	*
* 5	* -1	* 1962	* 1272.8	* 33	* 1963	* 1273.2	* 68.75	*
* 5	* -1	* 1963	* 1273.2	* 34	* 1971	* 1273.3	* 70.83	*
* 5	* -1	* 1964	* 1272.9	* 35	* 1951	* 1273.3	* 72.92	*
* 7	* -1	* 1965	* 1272.1	* 36	* 1948	* 1273.5	* 75.00	*
* 7	* -1	* 1966	* 1273.0	* 37	* 1972	* 1273.6	* 77.08	*
* 9	* -1	* 1967	* 1271.6	* 38	* 1969	* 1273.6	* 79.17	*
* 5	* -1	* 1968	* 1272.5	* 39	* 1956	* 1273.7	* 81.25	*
* 6	* -1	* 1969	* 1273.6	* 40	* 1950	* 1273.7	* 83.33	*
* 9	* -1	* 1970	* 1272.5	* 41	* 1957	* 1273.7	* 85.42	*
* 9	* -1	* 1971	* 1273.3	* 42	* 1954	* 1273.7	* 87.50	*
* 9	* -1	* 1972	* 1273.6	* 43	* 1946	* 1273.7	* 89.58	*
* 5	* -1	* 1973	* 1271.7	* 44	* 1945	* 1273.7	* 91.67	*
* 5	* -1	* 1974	* 1273.7	* 45	* 1974	* 1273.7	* 93.75	*
* 6	* -1	* 1975	* 1273.7	* 46	* 1975	* 1273.7	* 95.83	*
* 9	* -1	* 1976	* 1272.7	* 47	* 1952	* 1273.7	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED.....*.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 7	* -1	* 1930	* 1214.6	* 1	* 1954	* 1218.5	* 2.08	*
* 9	* -1	* 1931	* 1215.3	* 2	* 1943	* 1218.3	* 4.17	*
* 7	* -1	* 1932	* 1214.8	* 3	* 1944	* 1218.3	* 6.25	*
* 7	* -1	* 1933	* 1212.4	* 4	* 1950	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1210.2	* 5	* 1952	* 1218.3	* 10.42	*
* 8	* -1	* 1935	* 1215.4	* 6	* 1953	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.6	* 7	* 1965	* 1218.3	* 14.58	*
* 7	* -1	* 1937	* 1214.5	* 8	* 1966	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1217.3	* 9	* 1969	* 1218.3	* 18.75	*
* 8	* -1	* 1939	* 1214.1	* 10	* 1972	* 1218.3	* 20.83	*
* 7	* -1	* 1940	* 1212.3	* 11	* 1975	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1216.6	* 12	* 1948	* 1218.2	* 25.00	*
* 7	* -1	* 1942	* 1216.6	* 13	* 1971	* 1217.8	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1938	* 1217.3	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1974	* 1217.2	* 31.25	*
* 5	* -1	* 1945	* 1216.6	* 16	* 1951	* 1217.0	* 33.33	*
* 6	* -1	* 1946	* 1216.6	* 17	* 1957	* 1216.7	* 35.42	*
* 6	* -1	* 1947	* 1216.6	* 18	* 1956	* 1216.7	* 37.50	*
* 5	* -1	* 1948	* 1218.2	* 19	* 1970	* 1216.6	* 39.58	*
* 8	* -1	* 1949	* 1214.7	* 20	* 1945	* 1216.6	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1955	* 1216.6	* 43.75	*
* 5	* -1	* 1951	* 1217.0	* 22	* 1947	* 1216.6	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1946	* 1216.6	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1959	* 1216.6	* 50.00	*
* 5	* -1	* 1954	* 1218.5	* 25	* 1960	* 1216.6	* 52.08	*
* 8	* -1	* 1955	* 1216.6	* 26	* 1962	* 1216.6	* 54.17	*
* 5	* -1	* 1956	* 1216.7	* 27	* 1963	* 1216.6	* 56.25	*
* 5	* -1	* 1957	* 1216.7	* 28	* 1964	* 1216.6	* 58.33	*
* 9	* -1	* 1958	* 1214.8	* 29	* 1936	* 1216.6	* 60.42	*
* 8	* -1	* 1959	* 1216.6	* 30	* 1967	* 1216.6	* 62.50	*
* 6	* -1	* 1960	* 1216.6	* 31	* 1968	* 1216.6	* 64.58	*
* 6	* -1	* 1961	* 1213.4	* 32	* 1941	* 1216.6	* 66.67	*
* 7	* -1	* 1962	* 1216.6	* 33	* 1942	* 1216.6	* 68.75	*
* 9	* -1	* 1963	* 1216.6	* 34	* 1973	* 1216.6	* 70.83	*
* 7	* -1	* 1964	* 1216.6	* 35	* 1976	* 1216.0	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1935	* 1215.4	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1931	* 1215.3	* 77.08	*
* 5	* -1	* 1967	* 1216.6	* 38	* 1932	* 1214.8	* 79.17	*
* 7	* -1	* 1968	* 1216.6	* 39	* 1958	* 1214.8	* 81.25	*
* 5	* -1	* 1969	* 1216.6	* 40	* 1949	* 1214.7	* 83.33	*
* 5	* -1	* 1970	* 1216.6	* 41	* 1930	* 1214.6	* 85.42	*
* 5	* -1	* 1971	* 1217.8	* 42	* 1937	* 1214.5	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1939	* 1214.1	* 89.58	*
* 9	* -1	* 1973	* 1216.6	* 44	* 1961	* 1213.4	* 91.67	*
* 6	* -1	* 1974	* 1217.2	* 45	* 1933	* 1212.4	* 93.75	*
* 5	* -1	* 1975	* 1218.3	* 46	* 1940	* 1212.3	* 95.83	*

* 7 -1 1976 1216.6 * 47 1934 1210.2 97.92 *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*		
*	5	-1	1930	1211.5	*	1	1958	1208.2	2.08	*
*	5	-1	1931	1208.7	*	2	1931	1208.7	4.17	*
*	5	-1	1932	1212.1	*	3	1934	1209.3	6.25	*
*	5	-1	1933	1209.7	*	4	1933	1209.7	8.33	*
*	9	-1	1934	1209.3	*	5	1959	1209.9	10.42	*
*	5	-1	1935	1211.4	*	6	1940	1210.5	12.50	*
*	5	-1	1936	1213.8	*	7	1955	1210.6	14.58	*
*	5	-1	1937	1211.5	*	8	1949	1210.7	16.67	*
*	9	-1	1938	1216.4	*	9	1973	1211.2	18.75	*
*	5	-1	1939	1211.6	*	10	1961	1211.2	20.83	*
*	5	-1	1940	1210.5	*	11	1963	1211.4	22.92	*
*	5	-1	1941	1216.6	*	12	1935	1211.4	25.00	*
*	5	-1	1942	1212.5	*	13	1930	1211.5	27.08	*
*	5	-1	1943	1215.5	*	14	1937	1211.5	29.17	*
*	5	-1	1944	1213.5	*	15	1939	1211.6	31.25	*
*	5	-1	1945	1216.6	*	16	1968	1211.9	33.33	*
*	5	-1	1946	1215.3	*	17	1932	1212.1	35.42	*
*	9	-1	1947	1216.1	*	18	1962	1212.4	37.50	*
*	9	-1	1948	1216.4	*	19	1942	1212.5	39.58	*
*	5	-1	1949	1210.7	*	20	1964	1213.4	41.67	*
*	9	-1	1950	1216.2	*	21	1944	1213.5	43.75	*
*	6	-1	1951	1216.6	*	22	1960	1213.7	45.83	*
*	6	-1	1952	1216.6	*	23	1953	1213.8	47.92	*

*	5	-1	1953	1213.8	*	24	1936	1213.8	50.00	*
*	7	-1	1954	1216.6	*	25	1976	1215.2	52.08	*
*	5	-1	1955	1210.6	*	26	1946	1215.3	54.17	*
*	9	-1	1956	1216.5	*	27	1943	1215.5	56.25	*
*	6	-1	1957	1216.6	*	28	1970	1215.7	58.33	*
*	5	-1	1958	1208.2	*	29	1947	1216.1	60.42	*
*	5	-1	1959	1209.9	*	30	1967	1216.2	62.50	*
*	5	-1	1960	1213.7	*	31	1950	1216.2	64.58	*
*	5	-1	1961	1211.2	*	32	1969	1216.4	66.67	*
*	5	-1	1962	1212.4	*	33	1948	1216.4	68.75	*
*	5	-1	1963	1211.4	*	34	1938	1216.4	70.83	*
*	5	-1	1964	1213.4	*	35	1975	1216.4	72.92	*
*	8	-1	1965	1216.6	*	36	1971	1216.5	75.00	*
*	7	-1	1966	1216.6	*	37	1956	1216.5	77.08	*
*	9	-1	1967	1216.2	*	38	1952	1216.6	79.17	*
*	5	-1	1968	1211.9	*	39	1945	1216.6	81.25	*
*	9	-1	1969	1216.4	*	40	1951	1216.6	83.33	*
*	9	-1	1970	1215.7	*	41	1957	1216.6	85.42	*
*	9	-1	1971	1216.5	*	42	1965	1216.6	87.50	*
*	7	-1	1972	1216.6	*	43	1972	1216.6	89.58	*
*	5	-1	1973	1211.2	*	44	1941	1216.6	91.67	*
*	7	-1	1974	1216.6	*	45	1974	1216.6	93.75	*
*	9	-1	1975	1216.4	*	46	1966	1216.6	95.83	*
*	9	-1	1976	1215.2	*	47	1954	1216.6	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1229.6	* 1	* 1950	* 1230.4	* 2.08	*
* 7	* -1	* 1931	* 1229.6	* 2	* 1965	* 1230.0	* 4.17	*
* 6	* -1	* 1932	* 1229.2	* 3	* 1943	* 1229.9	* 6.25	*
* 6	* -1	* 1933	* 1229.6	* 4	* 1944	* 1229.6	* 8.33	*
* 6	* -1	* 1934	* 1228.3	* 5	* 1966	* 1229.6	* 10.42	*
* 7	* -1	* 1935	* 1229.6	* 6	* 1938	* 1229.6	* 12.50	*
* 6	* -1	* 1936	* 1229.6	* 7	* 1945	* 1229.6	* 14.58	*
* 7	* -1	* 1937	* 1229.6	* 8	* 1937	* 1229.6	* 16.67	*
* 5	* -1	* 1938	* 1229.6	* 9	* 1935	* 1229.6	* 18.75	*
* 7	* -1	* 1939	* 1229.5	* 10	* 1941	* 1229.6	* 20.83	*
* 6	* -1	* 1940	* 1229.5	* 11	* 1942	* 1229.6	* 22.92	*
* 5	* -1	* 1941	* 1229.6	* 12	* 1933	* 1229.6	* 25.00	*
* 6	* -1	* 1942	* 1229.6	* 13	* 1946	* 1229.6	* 27.08	*
* 6	* -1	* 1943	* 1229.9	* 14	* 1947	* 1229.6	* 29.17	*
* 6	* -1	* 1944	* 1229.6	* 15	* 1948	* 1229.6	* 31.25	*
* 5	* -1	* 1945	* 1229.6	* 16	* 1949	* 1229.6	* 33.33	*
* 7	* -1	* 1946	* 1229.6	* 17	* 1930	* 1229.6	* 35.42	*
* 6	* -1	* 1947	* 1229.6	* 18	* 1951	* 1229.6	* 37.50	*
* 5	* -1	* 1948	* 1229.6	* 19	* 1952	* 1229.6	* 39.58	*
* 7	* -1	* 1949	* 1229.6	* 20	* 1953	* 1229.6	* 41.67	*
* 5	* -1	* 1950	* 1230.4	* 21	* 1954	* 1229.6	* 43.75	*
* 6	* -1	* 1951	* 1229.6	* 22	* 1955	* 1229.6	* 45.83	*
* 5	* -1	* 1952	* 1229.6	* 23	* 1956	* 1229.6	* 47.92	*
* 6	* -1	* 1953	* 1229.6	* 24	* 1957	* 1229.6	* 50.00	*
* 5	* -1	* 1954	* 1229.6	* 25	* 1959	* 1229.6	* 52.08	*
* 7	* -1	* 1955	* 1229.6	* 26	* 1960	* 1229.6	* 54.17	*
* 5	* -1	* 1956	* 1229.6	* 27	* 1962	* 1229.6	* 56.25	*
* 7	* -1	* 1957	* 1229.6	* 28	* 1963	* 1229.6	* 58.33	*
* 9	* -1	* 1958	* 1228.9	* 29	* 1964	* 1229.6	* 60.42	*
* 7	* -1	* 1959	* 1229.6	* 30	* 1931	* 1229.6	* 62.50	*
* 6	* -1	* 1960	* 1229.6	* 31	* 1967	* 1229.6	* 64.58	*
* 8	* -1	* 1961	* 1229.3	* 32	* 1968	* 1229.6	* 66.67	*
* 6	* -1	* 1962	* 1229.6	* 33	* 1969	* 1229.6	* 68.75	*
* 7	* -1	* 1963	* 1229.6	* 34	* 1970	* 1229.6	* 70.83	*
* 6	* -1	* 1964	* 1229.6	* 35	* 1971	* 1229.6	* 72.92	*
* 6	* -1	* 1965	* 1230.0	* 36	* 1972	* 1229.6	* 75.00	*
* 5	* -1	* 1966	* 1229.6	* 37	* 1973	* 1229.6	* 77.08	*
* 5	* -1	* 1967	* 1229.6	* 38	* 1974	* 1229.6	* 79.17	*
* 6	* -1	* 1968	* 1229.6	* 39	* 1975	* 1229.6	* 81.25	*
* 5	* -1	* 1969	* 1229.6	* 40	* 1936	* 1229.6	* 83.33	*
* 5	* -1	* 1970	* 1229.6	* 41	* 1940	* 1229.5	* 85.42	*
* 5	* -1	* 1971	* 1229.6	* 42	* 1939	* 1229.5	* 87.50	*
* 5	* -1	* 1972	* 1229.6	* 43	* 1961	* 1229.3	* 89.58	*
* 7	* -1	* 1973	* 1229.6	* 44	* 1932	* 1229.2	* 91.67	*
* 5	* -1	* 1974	* 1229.6	* 45	* 1958	* 1228.9	* 93.75	*
* 5	* -1	* 1975	* 1229.6	* 46	* 1976	* 1228.8	* 95.83	*
* 7	* -1	* 1976	* 1228.8	* 47	* 1934	* 1228.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- FINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 5	* -1	* 1930	* 1228.9	* 1	* 1934	* 1227.6	* 2.08	*
* 5	* -1	* 1931	* 1228.1	* 2	* 1976	* 1227.9	* 4.17	*
* 5	* -1	* 1932	* 1228.6	* 3	* 1958	* 1228.0	* 6.25	*
* 5	* -1	* 1933	* 1228.7	* 4	* 1931	* 1228.1	* 8.33	*
* 9	* -1	* 1934	* 1227.6	* 5	* 1959	* 1228.6	* 10.42	*
* 5	* -1	* 1935	* 1228.8	* 6	* 1932	* 1228.6	* 12.50	*
* 9	* -1	* 1936	* 1228.7	* 7	* 1955	* 1228.6	* 14.58	*
* 5	* -1	* 1937	* 1228.9	* 8	* 1936	* 1228.7	* 16.67	*
* 8	* -1	* 1938	* 1229.5	* 9	* 1939	* 1228.7	* 18.75	*
* 5	* -1	* 1939	* 1228.7	* 10	* 1933	* 1228.7	* 20.83	*
* 5	* -1	* 1940	* 1228.9	* 11	* 1961	* 1228.7	* 22.92	*
* 5	* -1	* 1941	* 1229.6	* 12	* 1946	* 1228.8	* 25.00	*
* 5	* -1	* 1942	* 1228.9	* 13	* 1935	* 1228.8	* 27.08	*
* 5	* -1	* 1943	* 1228.9	* 14	* 1963	* 1228.8	* 29.17	*
* 5	* -1	* 1944	* 1228.9	* 15	* 1930	* 1228.9	* 31.25	*
* 6	* -1	* 1945	* 1229.6	* 16	* 1949	* 1228.9	* 33.33	*
* 5	* -1	* 1946	* 1228.8	* 17	* 1937	* 1228.9	* 35.42	*
* 5	* -1	* 1947	* 1228.9	* 18	* 1957	* 1228.9	* 37.50	*
* 5	* -1	* 1948	* 1229.6	* 19	* 1940	* 1228.9	* 39.58	*
* 5	* -1	* 1949	* 1228.9	* 20	* 1973	* 1228.9	* 41.67	*
* 7	* -1	* 1950	* 1229.6	* 21	* 1951	* 1228.9	* 43.75	*
* 5	* -1	* 1951	* 1228.9	* 22	* 1953	* 1228.9	* 45.83	*
* 5	* -1	* 1952	* 1229.6	* 23	* 1947	* 1228.9	* 47.92	*
* 5	* -1	* 1953	* 1228.9	* 24	* 1942	* 1228.9	* 50.00	*
* 5	* -1	* 1954	* 1229.6	* 25	* 1944	* 1228.9	* 52.08	*
* 5	* -1	* 1955	* 1228.6	* 26	* 1960	* 1228.9	* 54.17	*

* 9	* -1	* 1956	* 1229.5	* 27	* 1962	* 1228.9	* 56.25	*
* 5	* -1	* 1957	* 1228.9	* 28	* 1943	* 1228.9	* 58.33	*
* 5	* -1	* 1958	* 1228.0	* 29	* 1964	* 1228.9	* 60.42	*
* 5	* -1	* 1959	* 1228.6	* 30	* 1968	* 1228.9	* 62.50	*
* 5	* -1	* 1960	* 1228.9	* 31	* 1970	* 1229.0	* 64.58	*
* 5	* -1	* 1961	* 1228.7	* 32	* 1967	* 1229.4	* 66.67	*
* 5	* -1	* 1962	* 1228.9	* 33	* 1969	* 1229.5	* 68.75	*
* 5	* -1	* 1963	* 1228.8	* 34	* 1956	* 1229.5	* 70.83	*
* 5	* -1	* 1964	* 1228.9	* 35	* 1938	* 1229.5	* 72.92	*
* 5	* -1	* 1965	* 1229.6	* 36	* 1965	* 1229.6	* 75.00	*
* 6	* -1	* 1966	* 1229.6	* 37	* 1966	* 1229.6	* 77.08	*
* 9	* -1	* 1967	* 1229.4	* 38	* 1948	* 1229.6	* 79.17	*
* 5	* -1	* 1968	* 1228.9	* 39	* 1954	* 1229.6	* 81.25	*
* 8	* -1	* 1969	* 1229.5	* 40	* 1952	* 1229.6	* 83.33	*
* 9	* -1	* 1970	* 1229.0	* 41	* 1941	* 1229.6	* 85.42	*
* 5	* -1	* 1971	* 1229.6	* 42	* 1971	* 1229.6	* 87.50	*
* 5	* -1	* 1972	* 1229.6	* 43	* 1972	* 1229.6	* 89.58	*
* 5	* -1	* 1973	* 1228.9	* 44	* 1945	* 1229.6	* 91.67	*
* 5	* -1	* 1974	* 1229.6	* 45	* 1974	* 1229.6	* 93.75	*
* 5	* -1	* 1975	* 1229.6	* 46	* 1975	* 1229.6	* 95.83	*
* 9	* -1	* 1976	* 1227.9	* 47	* 1950	* 1229.6	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR ELEV,FT. * RANK YEAR ELEV,FT. WEIRULL *
* 6 -1 1930 1194.0 * 1 1950 1194.8 2.08 *
* 7 -1 1931 1193.9 * 2 1938 1194.5 4.17 *
* 6 -1 1932 1193.5 * 3 1944 1194.4 6.25 *
* 6 -1 1933 1194.0 * 4 1975 1194.3 8.33 *
* 5 -1 1934 1193.0 * 5 1965 1194.2 10.42 *
* 7 -1 1935 1194.0 * 6 1943 1194.1 12.50 *
* 6 -1 1936 1193.9 * 7 1952 1194.1 14.58 *
* 6 -1 1937 1194.0 * 8 1937 1194.0 16.67 *
* 5 -1 1938 1194.5 * 9 1941 1194.0 18.75 *
* 7 -1 1939 1193.9 * 10 1942 1194.0 20.83 *
* 6 -1 1940 1193.8 * 11 1935 1194.0 22.92 *
* 5 -1 1941 1194.0 * 12 1945 1194.0 25.00 *
* 6 -1 1942 1194.0 * 13 1946 1194.0 27.08 *
* 6 -1 1943 1194.1 * 14 1947 1194.0 29.17 *
* 6 -1 1944 1194.4 * 15 1948 1194.0 31.25 *
* 5 -1 1945 1194.0 * 16 1949 1194.0 33.33 *
* 7 -1 1946 1194.0 * 17 1951 1194.0 35.42 *
* 6 -1 1947 1194.0 * 18 1953 1194.0 37.50 *
* 5 -1 1948 1194.0 * 19 1954 1194.0 39.58 *
* 6 -1 1949 1194.0 * 20 1955 1194.0 41.67 *
* 5 -1 1950 1194.8 * 21 1956 1194.0 43.75 *
* 6 -1 1951 1194.0 * 22 1957 1194.0 45.83 *
* 7 -1 1952 1194.1 * 23 1958 1194.0 47.92 *
* 6 -1 1953 1194.0 * 24 1959 1194.0 50.00 *
* 5 -1 1954 1194.0 * 25 1960 1194.0 52.08 *
* 8 -1 1955 1194.0 * 26 1962 1194.0 54.17 *
* 7 -1 1956 1194.0 * 27 1963 1194.0 56.25 *
* 7 -1 1957 1194.0 * 28 1964 1194.0 58.33 *
* 8 -1 1958 1194.0 * 29 1966 1194.0 60.42 *
* 6 -1 1959 1194.0 * 30 1967 1194.0 62.50 *
* 6 -1 1960 1194.0 * 31 1968 1194.0 64.58 *
* 8 -1 1961 1193.6 * 32 1969 1194.0 66.67 *
* 6 -1 1962 1194.0 * 33 1970 1194.0 68.75 *
* 9 -1 1963 1194.0 * 34 1971 1194.0 70.83 *
* 9 -1 1964 1194.0 * 35 1972 1194.0 72.92 *
* 6 -1 1965 1194.2 * 36 1973 1194.0 75.00 *
* 5 -1 1966 1194.0 * 37 1974 1194.0 77.08 *
* 5 -1 1967 1194.0 * 38 1933 1194.0 79.17 *
* 7 -1 1968 1194.0 * 39 1930 1194.0 81.25 *
* 5 -1 1969 1194.0 * 40 1939 1193.9 83.33 *
* 5 -1 1970 1194.0 * 41 1931 1193.9 85.42 *
* 5 -1 1971 1194.0 * 42 1936 1193.9 87.50 *
* 5 -1 1972 1194.0 * 43 1940 1193.8 89.58 *
* 6 -1 1973 1194.0 * 44 1961 1193.6 91.67 *
* 5 -1 1974 1194.0 * 45 1932 1193.5 93.75 *
* 5 -1 1975 1194.3 * 46 1976 1193.5 95.83 *
* 7 -1 1976 1193.5 * 47 1934 1193.0 97.92 *
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- ANALYSIS OF MINIMUMS -

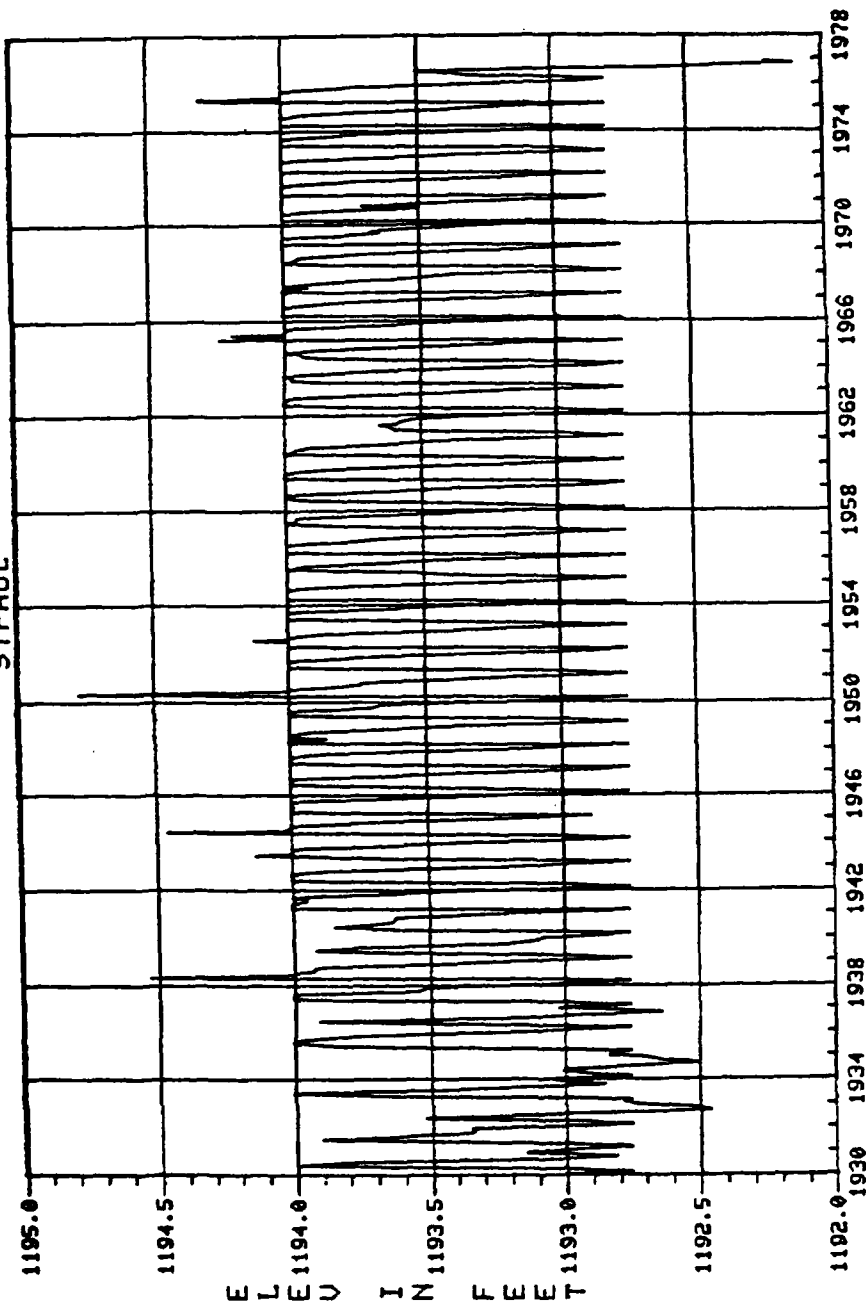
-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1193.0	* 1	* 1934	* 1192.5	* 2.08	*
* 5	* -1	* 1931	* 1193.0	* 2	* 1976	* 1192.6	* 4.17	*
* 9	* -1	* 1932	* 1192.6	* 3	* 1932	* 1192.6	* 6.25	*
* 9	* -1	* 1933	* 1193.1	* 4	* 1936	* 1192.9	* 8.33	*
* 9	* -1	* 1934	* 1192.5	* 5	* 1931	* 1193.0	* 10.42	*
* 5	* -1	* 1935	* 1193.5	* 6	* 1930	* 1193.0	* 12.50	*
* 5	* -1	* 1936	* 1192.9	* 7	* 1933	* 1193.1	* 14.58	*
* 5	* -1	* 1937	* 1193.6	* 8	* 1955	* 1193.4	* 16.67	*
* 8	* -1	* 1938	* 1193.9	* 9	* 1958	* 1193.4	* 18.75	*
* 5	* -1	* 1939	* 1193.4	* 10	* 1939	* 1193.4	* 20.83	*
* 5	* -1	* 1940	* 1193.6	* 11	* 1970	* 1193.5	* 22.92	*
* 7	* -1	* 1941	* 1193.9	* 12	* 1935	* 1193.5	* 25.00	*
* 5	* -1	* 1942	* 1193.6	* 13	* 1961	* 1193.5	* 27.08	*
* 5	* -1	* 1943	* 1193.6	* 14	* 1964	* 1193.5	* 29.17	*
* 5	* -1	* 1944	* 1193.6	* 15	* 1963	* 1193.5	* 31.25	*
* 6	* -1	* 1945	* 1194.0	* 16	* 1968	* 1193.5	* 33.33	*
* 5	* -1	* 1946	* 1193.6	* 17	* 1959	* 1193.6	* 35.42	*
* 5	* -1	* 1947	* 1193.9	* 18	* 1957	* 1193.6	* 37.50	*
* 6	* -1	* 1948	* 1193.9	* 19	* 1940	* 1193.6	* 39.58	*
* 5	* -1	* 1949	* 1193.6	* 20	* 1946	* 1193.6	* 41.67	*
* 9	* -1	* 1950	* 1193.7	* 21	* 1949	* 1193.6	* 43.75	*
* 5	* -1	* 1951	* 1193.6	* 22	* 1969	* 1193.6	* 45.83	*
* 9	* -1	* 1952	* 1194.0	* 23	* 1953	* 1193.6	* 47.92	*
* 5	* -1	* 1953	* 1193.6	* 24	* 1937	* 1193.6	* 50.00	*
* 5	* -1	* 1954	* 1194.0	* 25	* 1960	* 1193.6	* 52.08	*
* 5	* -1	* 1955	* 1193.4	* 26	* 1942	* 1193.6	* 54.17	*
* 9	* -1	* 1956	* 1193.9	* 27	* 1962	* 1193.6	* 56.25	*
* 5	* -1	* 1957	* 1193.6	* 28	* 1944	* 1193.6	* 58.33	*
* 5	* -1	* 1958	* 1193.4	* 29	* 1943	* 1193.6	* 60.42	*

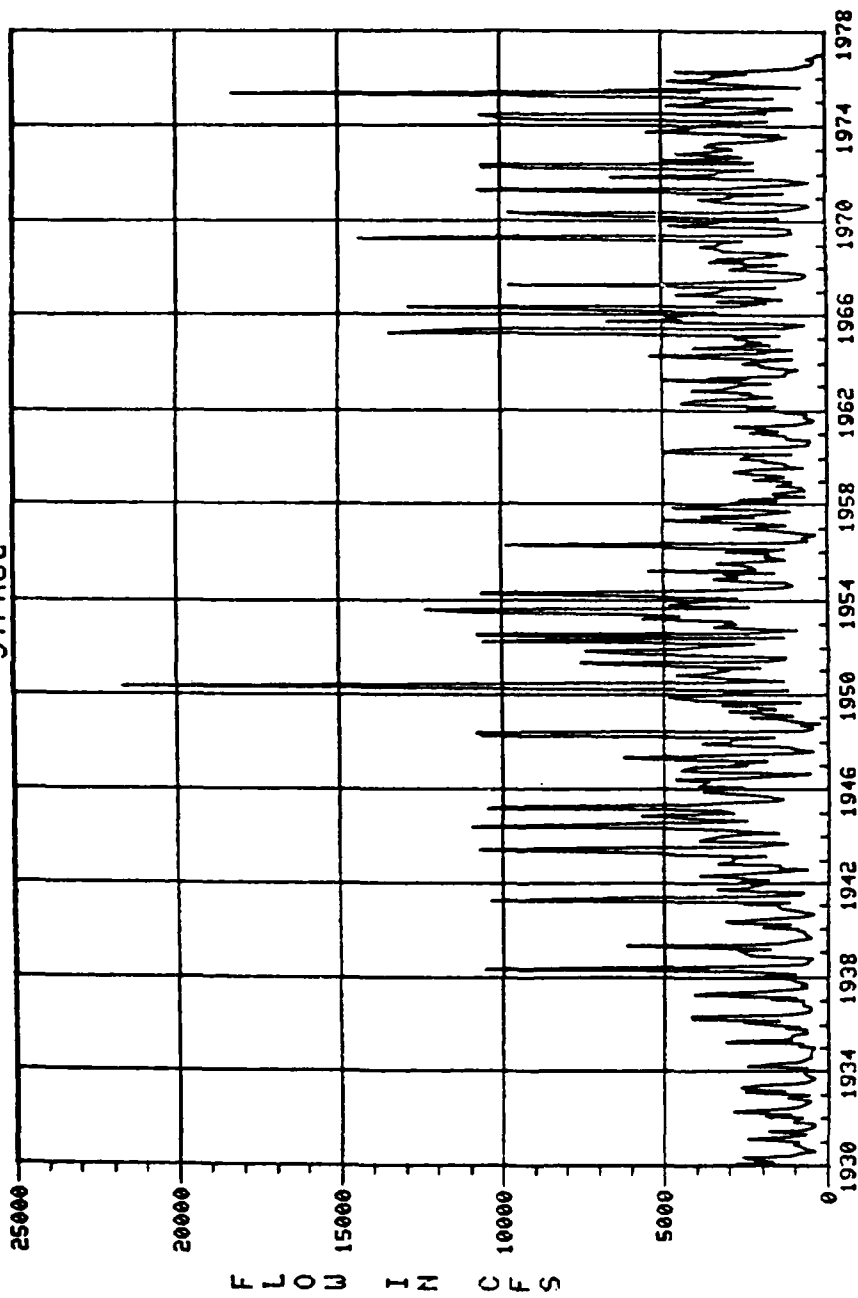
* 5	* -1	* 1959	* 1193.6	* 30	* 1951	* 1193.6	* 62.50	*
* 5	* -1	* 1960	* 1193.6	* 31	* 1973	* 1193.6	* 64.58	*
* 5	* -1	* 1961	* 1193.5	* 32	* 1950	* 1193.7	* 66.67	*
* 5	* -1	* 1962	* 1193.6	* 33	* 1967	* 1193.8	* 68.75	*
* 5	* -1	* 1963	* 1193.5	* 34	* 1948	* 1193.9	* 70.83	*
* 5	* -1	* 1964	* 1193.5	* 35	* 1956	* 1193.9	* 72.92	*
* 8	* -1	* 1965	* 1194.0	* 36	* 1947	* 1193.9	* 75.00	*
* 9	* -1	* 1966	* 1193.9	* 37	* 1938	* 1193.9	* 77.08	*
* 9	* -1	* 1967	* 1193.8	* 38	* 1974	* 1193.9	* 79.17	*
* 5	* -1	* 1968	* 1193.5	* 39	* 1966	* 1193.9	* 81.25	*
* 9	* -1	* 1969	* 1193.6	* 40	* 1941	* 1193.9	* 83.33	*
* 9	* -1	* 1970	* 1193.5	* 41	* 1971	* 1194.0	* 85.42	*
* 9	* -1	* 1971	* 1194.0	* 42	* 1965	* 1194.0	* 87.50	*
* 5	* -1	* 1972	* 1194.0	* 43	* 1945	* 1194.0	* 89.58	*
* 5	* -1	* 1973	* 1193.6	* 44	* 1952	* 1194.0	* 91.67	*
* 9	* -1	* 1974	* 1193.9	* 45	* 1972	* 1194.0	* 93.75	*
* 6	* -1	* 1975	* 1194.0	* 46	* 1975	* 1194.0	* 95.83	*
* 9	* -1	* 1976	* 1192.6	* 47	* 1954	* 1194.0	* 97.92	*

STPAUL



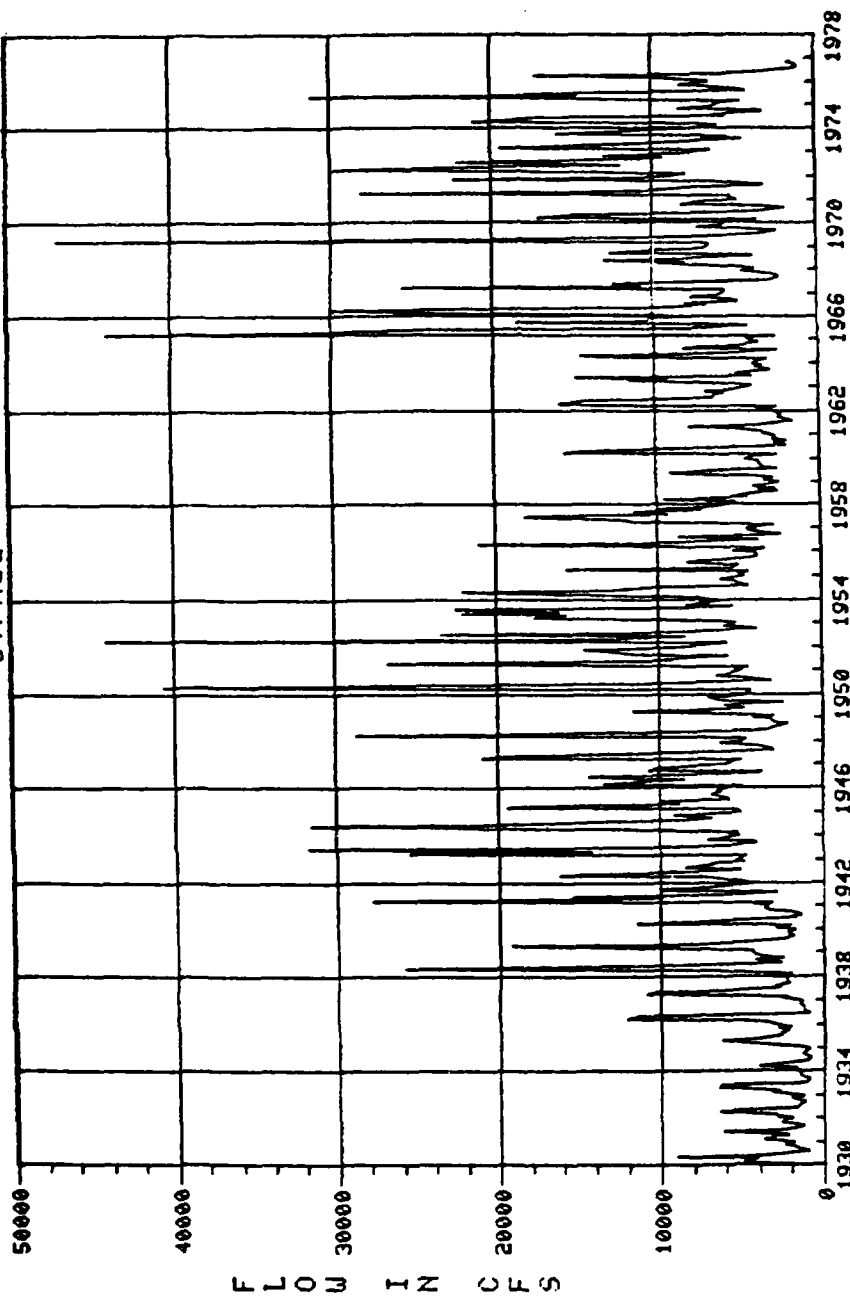
— GULL RES. PLANER ELEV

STPAUL



—— AITKIN PLANNER FLOW-REG

STPAUL



— ANOKA PLAIN3 FLOW-REG

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 7	* -1	* 1930	* 1293.2	* 1	* 1950	* 1300.2	* 2.08	*
* 6	* -1	* 1931	* 1291.5	* 2	* 1962	* 1298.4	* 4.17	*
* 7	* -1	* 1932	* 1292.3	* 3	* 1975	* 1298.4	* 6.25	*
* 6	* -1	* 1933	* 1292.2	* 4	* 1953	* 1298.4	* 8.33	*
* 6	* -1	* 1934	* 1291.4	* 5	* 1949	* 1298.3	* 10.42	*
* 8	* -1	* 1935	* 1292.6	* 6	* 1944	* 1298.3	* 12.50	*
* 6	* -1	* 1936	* 1292.6	* 7	* 1957	* 1298.0	* 14.58	*
* 9	* -1	* 1937	* 1293.4	* 8	* 1943	* 1297.9	* 16.67	*
* 7	* -1	* 1938	* 1297.1	* 9	* 1966	* 1297.8	* 18.75	*
* 7	* -1	* 1939	* 1293.2	* 10	* 1974	* 1297.5	* 20.83	*
* 7	* -1	* 1940	* 1293.1	* 11	* 1952	* 1297.3	* 22.92	*
* 5	* -1	* 1941	* 1294.0	* 12	* 1951	* 1297.3	* 25.00	*
* 9	* -1	* 1942	* 1295.0	* 13	* 1938	* 1297.1	* 27.08	*
* 8	* -1	* 1943	* 1297.9	* 14	* 1954	* 1296.9	* 29.17	*
* 9	* -1	* 1944	* 1298.3	* 15	* 1969	* 1296.9	* 31.25	*
* 9	* -1	* 1945	* 1296.3	* 16	* 1947	* 1296.5	* 33.33	*
* 7	* -1	* 1946	* 1296.1	* 17	* 1967	* 1296.5	* 35.42	*
* 9	* -1	* 1947	* 1296.5	* 18	* 1970	* 1296.3	* 37.50	*
* 5	* -1	* 1948	* 1294.9	* 19	* 1945	* 1296.0	* 39.58	*
* 9	* -1	* 1949	* 1298.3	* 20	* 1946	* 1296.0	* 41.67	*
* 7	* -1	* 1950	* 1300.2	* 21	* 1965	* 1296.0	* 43.75	*
* 9	* -1	* 1951	* 1297.3	* 22	* 1972	* 1295.9	* 45.83	*
* 8	* -1	* 1952	* 1297.3	* 23	* 1968	* 1295.7	* 47.92	*
* 9	* -1	* 1953	* 1298.4	* 24	* 1955	* 1295.1	* 50.00	*
* 6	* -1	* 1954	* 1296.9	* 25	* 1971	* 1295.0	* 52.08	*
* 7	* -1	* 1955	* 1295.1	* 26	* 1942	* 1295.0	* 54.17	*
* 8	* -1	* 1956	* 1294.8	* 27	* 1963	* 1295.0	* 56.25	*
* 9	* -1	* 1957	* 1298.0	* 28	* 1948	* 1294.9	* 58.33	*
* 8	* -1	* 1958	* 1291.3	* 29	* 1956	* 1294.8	* 60.42	*
* 9	* -1	* 1959	* 1293.1	* 30	* 1973	* 1294.7	* 62.50	*
* 7	* -1	* 1960	* 1293.2	* 31	* 1964	* 1294.2	* 64.58	*
* 6	* -1	* 1961	* 1292.3	* 32	* 1941	* 1294.0	* 66.67	*
* 9	* -1	* 1962	* 1298.4	* 33	* 1976	* 1293.7	* 68.75	*
* 7	* -1	* 1963	* 1295.0	* 34	* 1937	* 1293.4	* 70.83	*
* 9	* -1	* 1964	* 1294.2	* 35	* 1939	* 1293.2	* 72.92	*
* 6	* -1	* 1965	* 1296.0	* 36	* 1960	* 1293.2	* 75.00	*
* 5	* -1	* 1966	* 1297.8	* 37	* 1930	* 1293.2	* 77.08	*
* 7	* -1	* 1967	* 1296.5	* 38	* 1959	* 1293.1	* 79.17	*
* 9	* -1	* 1968	* 1295.7	* 39	* 1940	* 1293.1	* 81.25	*

* 9	* -1	* 1969	* 1296.9	* 40	* 1936	* 1292.6	* 83.33	*
* 7	* -1	* 1970	* 1296.3	* 41	* 1935	* 1292.6	* 85.42	*
* 5	* -1	* 1971	* 1295.0	* 42	* 1961	* 1292.3	* 87.50	*
* 9	* -1	* 1972	* 1295.9	* 43	* 1932	* 1292.3	* 89.58	*
* 9	* -1	* 1973	* 1294.7	* 44	* 1933	* 1292.2	* 91.67	*
* 6	* -1	* 1974	* 1297.5	* 45	* 1931	* 1291.5	* 93.75	*
* 8	* -1	* 1975	* 1298.4	* 46	* 1934	* 1291.4	* 95.83	*
* 7	* -1	* 1976	* 1293.7	* 47	* 1958	* 1291.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIBULL	* PLOT POS
* 9	* -1	* 1930	* 1291.8	* 1	* 1934	* 1290.5	* 2.08	* 1
* 9	* -1	* 1931	* 1291.1	* 2	* 1958	* 1290.9	* 4.17	* 2
* 5	* -1	* 1932	* 1291.6	* 3	* 1931	* 1291.1	* 6.25	* 3
* 9	* -1	* 1933	* 1291.4	* 4	* 1935	* 1291.2	* 8.33	* 4
* 9	* -1	* 1934	* 1290.5	* 5	* 1933	* 1291.4	* 10.42	* 5
* 5	* -1	* 1935	* 1291.2	* 6	* 1937	* 1291.4	* 12.50	* 6
* 9	* -1	* 1936	* 1292.0	* 7	* 1932	* 1291.6	* 14.58	* 7
* 5	* -1	* 1937	* 1291.4	* 8	* 1959	* 1291.6	* 16.67	* 8
* 5	* -1	* 1938	* 1295.9	* 9	* 1930	* 1291.8	* 18.75	* 9
* 5	* -1	* 1939	* 1292.6	* 10	* 1936	* 1292.0	* 20.83	* 10
* 5	* -1	* 1940	* 1292.0	* 11	* 1940	* 1292.0	* 22.92	* 11
* 6	* -1	* 1941	* 1293.4	* 12	* 1961	* 1292.0	* 25.00	* 12
* 5	* -1	* 1942	* 1293.1	* 13	* 1960	* 1292.5	* 27.08	* 13
* 5	* -1	* 1943	* 1293.9	* 14	* 1939	* 1292.6	* 29.17	* 14
* 5	* -1	* 1944	* 1293.3	* 15	* 1964	* 1292.9	* 31.25	* 15
* 6	* -1	* 1945	* 1295.4	* 16	* 1942	* 1293.1	* 33.33	* 16

* 5	* -1	* 1946	* 1294.8	* 17	* 1976	* 1293.2	* 35.42	* 17
* 5	* -1	* 1947	* 1293.6	* 18	* 1968	* 1293.3	* 37.50	* 18
* 6	* -1	* 1948	* 1293.7	* 19	* 1962	* 1293.3	* 39.58	* 19
* 5	* -1	* 1949	* 1293.4	* 20	* 1944	* 1293.3	* 41.67	* 20
* 9	* -1	* 1950	* 1299.0	* 21	* 1949	* 1293.4	* 43.75	* 21
* 5	* -1	* 1951	* 1294.6	* 22	* 1941	* 1293.4	* 45.83	* 22
* 5	* -1	* 1952	* 1295.7	* 23	* 1963	* 1293.5	* 47.92	* 23
* 5	* -1	* 1953	* 1293.7	* 24	* 1955	* 1293.6	* 50.00	* 24
* 5	* -1	* 1954	* 1296.1	* 25	* 1947	* 1293.6	* 52.08	* 25
* 5	* -1	* 1955	* 1293.6	* 26	* 1953	* 1293.7	* 54.17	* 26
* 5	* -1	* 1956	* 1294.7	* 27	* 1948	* 1293.7	* 56.25	* 27
* 5	* -1	* 1957	* 1294.3	* 28	* 1973	* 1293.7	* 58.33	* 28
* 5	* -1	* 1958	* 1290.9	* 29	* 1943	* 1293.9	* 60.42	* 29
* 5	* -1	* 1959	* 1291.6	* 30	* 1957	* 1294.3	* 62.50	* 30
* 5	* -1	* 1960	* 1292.5	* 31	* 1971	* 1294.5	* 64.58	* 31
* 9	* -1	* 1961	* 1292.0	* 32	* 1951	* 1294.6	* 66.67	* 32
* 5	* -1	* 1962	* 1293.3	* 33	* 1956	* 1294.7	* 68.75	* 33
* 5	* -1	* 1963	* 1293.5	* 34	* 1946	* 1294.8	* 70.83	* 34
* 5	* -1	* 1964	* 1292.9	* 35	* 1965	* 1294.9	* 72.92	* 35
* 5	* -1	* 1965	* 1294.9	* 36	* 1972	* 1295.0	* 75.00	* 36
* 6	* -1	* 1966	* 1296.8	* 37	* 1945	* 1295.4	* 77.08	* 37
* 6	* -1	* 1967	* 1295.7	* 38	* 1969	* 1295.6	* 79.17	* 38
* 5	* -1	* 1968	* 1293.3	* 39	* 1952	* 1295.7	* 81.25	* 39
* 6	* -1	* 1969	* 1295.6	* 40	* 1967	* 1295.7	* 83.33	* 40
* 9	* -1	* 1970	* 1295.8	* 41	* 1970	* 1295.8	* 85.42	* 41
* 6	* -1	* 1971	* 1294.5	* 42	* 1938	* 1295.9	* 87.50	* 42
* 6	* -1	* 1972	* 1295.0	* 43	* 1974	* 1296.1	* 89.58	* 43
* 5	* -1	* 1973	* 1293.7	* 44	* 1954	* 1296.1	* 91.67	* 44
* 5	* -1	* 1974	* 1296.1	* 45	* 1975	* 1296.7	* 93.75	* 45
* 5	* -1	* 1975	* 1296.7	* 46	* 1966	* 1296.8	* 95.83	* 46
* 9	* -1	* 1976	* 1293.2	* 47	* 1950	* 1299.0	* 97.92	* 47

- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	* *
* 6	* -1	* 1930	* 1293.2	* 1	* 1950	* 1295.8	* 2.08	* *
* 6	* -1	* 1931	* 1292.6	* 2	* 1966	* 1295.3	* 4.17	* *
* 6	* -1	* 1932	* 1292.8	* 3	* 1965	* 1295.1	* 6.25	* *
* 6	* -1	* 1933	* 1292.9	* 4	* 1953	* 1295.1	* 8.33	* *
* 5	* -1	* 1934	* 1292.3	* 5	* 1944	* 1295.0	* 10.42	* *
* 7	* -1	* 1935	* 1293.0	* 6	* 1974	* 1295.0	* 12.50	* *
* 5	* -1	* 1936	* 1292.9	* 7	* 1943	* 1295.0	* 14.58	* *
* 8	* -1	* 1937	* 1293.1	* 8	* 1952	* 1294.9	* 16.67	* *
* 6	* -1	* 1938	* 1294.2	* 9	* 1954	* 1294.9	* 18.75	* *
* 6	* -1	* 1939	* 1293.3	* 10	* 1962	* 1294.9	* 20.83	* *
* 6	* -1	* 1940	* 1293.3	* 11	* 1969	* 1294.9	* 22.92	* *
* 5	* -1	* 1941	* 1293.9	* 12	* 1975	* 1294.9	* 25.00	* *
* 9	* -1	* 1942	* 1294.3	* 13	* 1972	* 1294.9	* 27.08	* *
* 6	* -1	* 1943	* 1295.0	* 14	* 1970	* 1294.7	* 29.17	* *
* 7	* -1	* 1944	* 1295.0	* 15	* 1951	* 1294.6	* 31.25	* *
* 5	* -1	* 1945	* 1294.3	* 16	* 1967	* 1294.6	* 33.33	* *
* 7	* -1	* 1946	* 1294.4	* 17	* 1949	* 1294.6	* 35.42	* *
* 7	* -1	* 1947	* 1294.4	* 18	* 1957	* 1294.5	* 37.50	* *
* 5	* -1	* 1948	* 1294.2	* 19	* 1947	* 1294.4	* 39.58	* *
* 8	* -1	* 1949	* 1294.6	* 20	* 1946	* 1294.4	* 41.67	* *
* 6	* -1	* 1950	* 1295.8	* 21	* 1971	* 1294.3	* 43.75	* *
* 7	* -1	* 1951	* 1294.6	* 22	* 1942	* 1294.3	* 45.83	* *
* 8	* -1	* 1952	* 1294.9	* 23	* 1945	* 1294.3	* 47.92	* *
* 8	* -1	* 1953	* 1295.1	* 24	* 1948	* 1294.2	* 50.00	* *
* 5	* -1	* 1954	* 1294.9	* 25	* 1955	* 1294.2	* 52.08	* *
* 7	* -1	* 1955	* 1294.2	* 26	* 1968	* 1294.2	* 54.17	* *
* 5	* -1	* 1956	* 1293.9	* 27	* 1938	* 1294.2	* 56.25	* *
* 7	* -1	* 1957	* 1294.5	* 28	* 1963	* 1294.0	* 58.33	* *
* 7	* -1	* 1958	* 1293.0	* 29	* 1960	* 1294.0	* 60.42	* *
* 9	* -1	* 1959	* 1293.5	* 30	* 1956	* 1293.9	* 62.50	* *
* 6	* -1	* 1960	* 1294.0	* 31	* 1964	* 1293.9	* 64.58	* *
* 6	* -1	* 1961	* 1293.1	* 32	* 1941	* 1293.9	* 66.67	* *
* 7	* -1	* 1962	* 1294.9	* 33	* 1973	* 1293.8	* 68.75	* *
* 7	* -1	* 1963	* 1294.0	* 34	* 1976	* 1293.5	* 70.83	* *
* 7	* -1	* 1964	* 1293.9	* 35	* 1959	* 1293.5	* 72.92	* *
* 6	* -1	* 1965	* 1295.1	* 36	* 1939	* 1293.3	* 75.00	* *
* 5	* -1	* 1966	* 1295.3	* 37	* 1940	* 1293.3	* 77.08	* *
* 5	* -1	* 1967	* 1294.6	* 38	* 1930	* 1293.2	* 79.17	* *
* 7	* -1	* 1968	* 1294.2	* 39	* 1961	* 1293.1	* 81.25	* *
* 5	* -1	* 1969	* 1294.9	* 40	* 1937	* 1293.1	* 83.33	* *
* 5	* -1	* 1970	* 1294.7	* 41	* 1935	* 1293.0	* 85.42	* *
* 5	* -1	* 1971	* 1294.3	* 42	* 1958	* 1293.0	* 87.50	* *

* 9	* -1	* 1972	* 1294.9	* 43	* 1933	* 1292.9	* 89.58	* *
* 9	* -1	* 1973	* 1293.8	* 44	* 1936	* 1292.9	* 91.67	* *
* 6	* -1	* 1974	* 1295.0	* 45	* 1932	* 1292.8	* 93.75	* *
* 5	* -1	* 1975	* 1294.9	* 46	* 1931	* 1292.6	* 95.83	* *
* 5	* -1	* 1976	* 1293.5	* 47	* 1934	* 1292.3	* 97.92	* *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	* *	
*	9	-1	1930	*	1	1934	1291.5	2.08	*
*	9	-1	1931	*	2	1936	1291.7	4.17	*
*	9	-1	1932	*	3	1933	1291.8	6.25	*
*	9	-1	1933	*	4	1932	1292.1	8.33	*
*	9	-1	1934	*	5	1930	1292.1	10.42	*
*	5	-1	1935	*	6	1935	1292.3	12.50	*
*	9	-1	1936	*	7	1931	1292.3	14.58	*
*	5	-1	1937	*	8	1959	1292.6	16.67	*
*	9	-1	1938	*	9	1976	1292.6	18.75	*
*	9	-1	1939	*	10	1958	1292.7	20.83	*
*	9	-1	1940	*	11	1937	1292.7	22.92	*
*	8	-1	1941	*	12	1939	1292.7	25.00	*
*	5	-1	1942	*	13	1940	1292.8	27.08	*
*	5	-1	1943	*	14	1961	1292.8	29.17	*
*	5	-1	1944	*	15	1949	1293.1	31.25	*
*	5	-1	1945	*	16	1956	1293.2	33.33	*
*	5	-1	1946	*	17	1942	1293.4	35.42	*
*	5	-1	1947	*	18	1973	1293.5	37.50	*
*	9	-1	1948	*	19	1963	1293.5	39.58	*

*	5	-1	1949	*	20	1960	1293.5	41.67	*
*	9	-1	1950	*	21	1944	1293.6	43.75	*
*	5	-1	1951	*	22	1948	1293.6	45.83	*
*	5	-1	1952	*	23	1964	1293.6	47.92	*
*	5	-1	1953	*	24	1968	1293.6	50.00	*
*	9	-1	1954	*	25	1941	1293.6	52.08	*
*	5	-1	1955	*	26	1938	1293.6	54.17	*
*	9	-1	1956	*	27	1946	1293.6	56.25	*
*	5	-1	1957	*	28	1957	1293.6	58.33	*
*	9	-1	1958	*	29	1955	1293.7	60.42	*
*	5	-1	1959	*	30	1970	1293.8	62.50	*
*	9	-1	1960	*	31	1967	1293.8	64.58	*
*	8	-1	1961	*	32	1971	1293.8	66.67	*
*	5	-1	1962	*	33	1953	1293.9	68.75	*
*	5	-1	1963	*	34	1947	1293.9	70.83	*
*	5	-1	1964	*	35	1943	1293.9	72.92	*
*	5	-1	1965	*	36	1945	1294.0	75.00	*
*	9	-1	1966	*	37	1951	1294.1	77.08	*
*	9	-1	1967	*	38	1962	1294.1	79.17	*
*	5	-1	1968	*	39	1952	1294.3	81.25	*
*	9	-1	1969	*	40	1972	1294.4	83.33	*
*	9	-1	1970	*	41	1969	1294.4	85.42	*
*	9	-1	1971	*	42	1965	1294.6	87.50	*
*	6	-1	1972	*	43	1950	1294.7	89.58	*
*	5	-1	1973	*	44	1975	1294.7	91.67	*
*	9	-1	1974	*	45	1954	1294.7	93.75	*
*	9	-1	1975	*	46	1974	1294.8	95.83	*
*	9	-1	1976	*	47	1966	1294.8	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1273.4	* 1	* 1950	* 1276.4	* 2.08	*
* 7	* -1	* 1931	* 1271.3	* 2	* 1966	* 1276.4	* 4.17	*
* 6	* -1	* 1932	* 1273.0	* 3	* 1969	* 1276.4	* 6.25	*
* 6	* -1	* 1933	* 1273.2	* 4	* 1975	* 1276.4	* 8.33	*
* 6	* -1	* 1934	* 1270.4	* 5	* 1953	* 1276.1	* 10.42	*
* 6	* -1	* 1935	* 1273.6	* 6	* 1948	* 1275.8	* 12.50	*
* 6	* -1	* 1936	* 1273.6	* 7	* 1965	* 1275.4	* 14.58	*
* 6	* -1	* 1937	* 1273.7	* 8	* 1957	* 1275.3	* 16.67	*
* 5	* -1	* 1938	* 1274.1	* 9	* 1971	* 1275.2	* 18.75	*
* 6	* -1	* 1939	* 1272.6	* 10	* 1943	* 1275.2	* 20.83	*
* 6	* -1	* 1940	* 1273.7	* 11	* 1946	* 1275.2	* 22.92	*
* 5	* -1	* 1941	* 1273.7	* 12	* 1947	* 1275.2	* 25.00	*
* 6	* -1	* 1942	* 1273.7	* 13	* 1951	* 1275.2	* 27.08	*
* 5	* -1	* 1943	* 1275.2	* 14	* 1976	* 1275.2	* 29.17	*
* 6	* -1	* 1944	* 1274.6	* 15	* 1952	* 1274.8	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1944	* 1274.6	* 33.33	*
* 5	* -1	* 1946	* 1275.2	* 17	* 1938	* 1274.1	* 35.42	*
* 5	* -1	* 1947	* 1275.2	* 18	* 1954	* 1274.1	* 37.50	*
* 5	* -1	* 1948	* 1275.8	* 19	* 1972	* 1274.0	* 39.58	*
* 7	* -1	* 1949	* 1273.7	* 20	* 1974	* 1273.8	* 41.67	*
* 5	* -1	* 1950	* 1276.4	* 21	* 1942	* 1273.7	* 43.75	*
* 5	* -1	* 1951	* 1275.2	* 22	* 1945	* 1273.7	* 45.83	*
* 7	* -1	* 1952	* 1274.8	* 23	* 1941	* 1273.7	* 47.92	*
* 8	* -1	* 1953	* 1276.1	* 24	* 1955	* 1273.7	* 50.00	*
* 5	* -1	* 1954	* 1274.1	* 25	* 1956	* 1273.7	* 52.08	*
* 6	* -1	* 1955	* 1273.7	* 26	* 1937	* 1273.7	* 54.17	*
* 5	* -1	* 1956	* 1273.7	* 27	* 1958	* 1273.7	* 56.25	*
* 5	* -1	* 1957	* 1275.3	* 28	* 1959	* 1273.7	* 58.33	*
* 7	* -1	* 1958	* 1273.7	* 29	* 1960	* 1273.7	* 60.42	*
* 8	* -1	* 1959	* 1273.7	* 30	* 1962	* 1273.7	* 62.50	*
* 6	* -1	* 1960	* 1273.7	* 31	* 1963	* 1273.7	* 64.58	*
* 6	* -1	* 1961	* 1273.0	* 32	* 1964	* 1273.7	* 66.67	*
* 6	* -1	* 1962	* 1273.7	* 33	* 1967	* 1273.7	* 68.75	*
* 6	* -1	* 1963	* 1273.7	* 34	* 1968	* 1273.7	* 70.83	*
* 6	* -1	* 1964	* 1273.7	* 35	* 1970	* 1273.7	* 72.92	*
* 5	* -1	* 1965	* 1275.4	* 36	* 1940	* 1273.7	* 75.00	*
* 5	* -1	* 1966	* 1276.4	* 37	* 1949	* 1273.7	* 77.08	*
* 5	* -1	* 1967	* 1273.7	* 38	* 1935	* 1273.6	* 79.17	*
* 9	* -1	* 1968	* 1273.7	* 39	* 1936	* 1273.6	* 81.25	*
* 5	* -1	* 1969	* 1276.4	* 40	* 1930	* 1273.4	* 83.33	*
* 5	* -1	* 1970	* 1273.7	* 41	* 1933	* 1273.2	* 85.42	*
* 5	* -1	* 1971	* 1275.2	* 42	* 1973	* 1273.2	* 87.50	*
* 5	* -1	* 1972	* 1274.0	* 43	* 1932	* 1273.0	* 89.58	*
* 9	* -1	* 1973	* 1273.2	* 44	* 1961	* 1273.0	* 91.67	*

* 6	* -1	* 1974	* 1273.8	* 45	* 1939	* 1272.6	* 93.75	*
* 5	* -1	* 1975	* 1276.4	* 46	* 1931	* 1271.3	* 95.83	*
* 5	* -1	* 1976	* 1275.2	* 47	* 1934	* 1270.4	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 8	* -1	* 1930	* 1270.2	* 1	* 1934	* 1270.0	* 2.08	*
* 5	* -1	* 1931	* 1270.2	* 2	* 1949	* 1270.1	* 4.17	*
* 9	* -1	* 1932	* 1270.8	* 3	* 1931	* 1270.2	* 6.25	*
* 9	* -1	* 1933	* 1270.6	* 4	* 1930	* 1270.2	* 8.33	*
* 8	* -1	* 1934	* 1270.0	* 5	* 1936	* 1270.6	* 10.42	*
* 5	* -1	* 1935	* 1271.5	* 6	* 1933	* 1270.6	* 12.50	*
* 9	* -1	* 1936	* 1270.6	* 7	* 1939	* 1270.6	* 14.58	*
* 5	* -1	* 1937	* 1272.8	* 8	* 1932	* 1270.8	* 16.67	*
* 8	* -1	* 1938	* 1272.1	* 9	* 1940	* 1271.0	* 18.75	*
* 9	* -1	* 1939	* 1270.6	* 10	* 1959	* 1271.2	* 20.83	*
* 9	* -1	* 1940	* 1271.0	* 11	* 1935	* 1271.5	* 22.92	*
* 8	* -1	* 1941	* 1272.3	* 12	* 1967	* 1271.6	* 25.00	*
* 5	* -1	* 1942	* 1272.3	* 13	* 1973	* 1271.7	* 27.08	*
* 8	* -1	* 1943	* 1273.0	* 14	* 1961	* 1272.0	* 29.17	*
* 5	* -1	* 1944	* 1272.4	* 15	* 1938	* 1272.1	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1965	* 1272.1	* 33.33	*
* 6	* -1	* 1946	* 1273.7	* 17	* 1958	* 1272.3	* 35.42	*
* 8	* -1	* 1947	* 1273.1	* 18	* 1941	* 1272.3	* 37.50	*
* 8	* -1	* 1948	* 1273.5	* 19	* 1942	* 1272.3	* 39.58	*
* 5	* -1	* 1949	* 1270.1	* 20	* 1944	* 1272.4	* 41.67	*
* 7	* -1	* 1950	* 1273.7	* 21	* 1968	* 1272.5	* 43.75	*

* 6	* -1	* 1951	* 1273.3	* 22	* 1970	* 1272.5	* 45.83	*
* 5	* -1	* 1952	* 1273.7	* 23	* 1976	* 1272.7	* 47.92	*
* 5	* -1	* 1953	* 1272.7	* 24	* 1953	* 1272.7	* 50.00	*
* 6	* -1	* 1954	* 1273.7	* 25	* 1962	* 1272.8	* 52.08	*
* 5	* -1	* 1955	* 1273.1	* 26	* 1960	* 1272.8	* 54.17	*
* 9	* -1	* 1956	* 1273.7	* 27	* 1937	* 1272.8	* 56.25	*
* 6	* -1	* 1957	* 1273.7	* 28	* 1964	* 1272.9	* 58.33	*
* 5	* -1	* 1958	* 1272.3	* 29	* 1966	* 1273.0	* 60.42	*
* 5	* -1	* 1959	* 1271.2	* 30	* 1943	* 1273.0	* 62.50	*
* 9	* -1	* 1960	* 1272.8	* 31	* 1955	* 1273.1	* 64.58	*
* 5	* -1	* 1961	* 1272.0	* 32	* 1947	* 1273.1	* 66.67	*
* 5	* -1	* 1962	* 1272.8	* 33	* 1963	* 1273.2	* 68.75	*
* 5	* -1	* 1963	* 1273.2	* 34	* 1971	* 1273.3	* 70.83	*
* 5	* -1	* 1964	* 1272.9	* 35	* 1951	* 1273.3	* 72.92	*
* 7	* -1	* 1965	* 1272.1	* 36	* 1948	* 1273.5	* 75.00	*
* 7	* -1	* 1966	* 1273.0	* 37	* 1972	* 1273.6	* 77.08	*
* 9	* -1	* 1967	* 1271.6	* 38	* 1969	* 1273.6	* 79.17	*
* 5	* -1	* 1968	* 1272.5	* 39	* 1956	* 1273.7	* 81.25	*
* 6	* -1	* 1969	* 1273.6	* 40	* 1950	* 1273.7	* 83.33	*
* 9	* -1	* 1970	* 1272.5	* 41	* 1957	* 1273.7	* 85.42	*
* 9	* -1	* 1971	* 1273.3	* 42	* 1954	* 1273.7	* 87.50	*
* 9	* -1	* 1972	* 1273.6	* 43	* 1946	* 1273.7	* 89.58	*
* 5	* -1	* 1973	* 1271.7	* 44	* 1945	* 1273.7	* 91.67	*
* 5	* -1	* 1974	* 1273.7	* 45	* 1974	* 1273.7	* 93.75	*
* 6	* -1	* 1975	* 1273.7	* 46	* 1975	* 1273.7	* 95.83	*
* 9	* -1	* 1976	* 1272.7	* 47	* 1952	* 1273.7	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED.....*.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 7	* -1	* 1930	* 1214.6	* 1	* 1954	* 1218.5	* 2.08	*
* 9	* -1	* 1931	* 1215.3	* 2	* 1943	* 1218.3	* 4.17	*
* 7	* -1	* 1932	* 1214.8	* 3	* 1944	* 1218.3	* 6.25	*
* 7	* -1	* 1933	* 1212.4	* 4	* 1950	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1210.2	* 5	* 1952	* 1218.3	* 10.42	*
* 8	* -1	* 1935	* 1215.4	* 6	* 1953	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.6	* 7	* 1965	* 1218.3	* 14.58	*
* 7	* -1	* 1937	* 1214.5	* 8	* 1966	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1217.3	* 9	* 1969	* 1218.3	* 18.75	*
* 8	* -1	* 1939	* 1214.1	* 10	* 1972	* 1218.3	* 20.83	*
* 7	* -1	* 1940	* 1212.3	* 11	* 1975	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1216.6	* 12	* 1948	* 1218.2	* 25.00	*
* 7	* -1	* 1942	* 1216.6	* 13	* 1971	* 1217.8	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1938	* 1217.3	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1974	* 1217.2	* 31.25	*
* 5	* -1	* 1945	* 1216.6	* 16	* 1951	* 1217.0	* 33.33	*
* 6	* -1	* 1946	* 1216.6	* 17	* 1957	* 1216.7	* 35.42	*
* 6	* -1	* 1947	* 1216.6	* 18	* 1956	* 1216.7	* 37.50	*
* 5	* -1	* 1948	* 1218.2	* 19	* 1970	* 1216.6	* 39.58	*
* 8	* -1	* 1949	* 1214.7	* 20	* 1945	* 1216.6	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1955	* 1216.6	* 43.75	*
* 5	* -1	* 1951	* 1217.0	* 22	* 1947	* 1216.6	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1946	* 1216.6	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1959	* 1216.6	* 50.00	*
* 5	* -1	* 1954	* 1218.5	* 25	* 1960	* 1216.6	* 52.08	*
* 8	* -1	* 1955	* 1216.6	* 26	* 1962	* 1216.6	* 54.17	*
* 5	* -1	* 1956	* 1216.7	* 27	* 1963	* 1216.6	* 56.25	*
* 5	* -1	* 1957	* 1216.7	* 28	* 1964	* 1216.6	* 58.33	*
* 9	* -1	* 1958	* 1214.8	* 29	* 1936	* 1216.6	* 60.42	*
* 8	* -1	* 1959	* 1216.6	* 30	* 1967	* 1216.6	* 62.50	*
* 6	* -1	* 1960	* 1216.6	* 31	* 1968	* 1216.6	* 64.58	*
* 6	* -1	* 1961	* 1213.4	* 32	* 1941	* 1216.6	* 66.67	*
* 7	* -1	* 1962	* 1216.6	* 33	* 1942	* 1216.6	* 68.75	*
* 9	* -1	* 1963	* 1216.6	* 34	* 1973	* 1216.6	* 70.83	*
* 7	* -1	* 1964	* 1216.6	* 35	* 1976	* 1216.0	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1935	* 1215.4	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1931	* 1215.3	* 77.08	*
* 5	* -1	* 1967	* 1216.6	* 38	* 1932	* 1214.8	* 79.17	*
* 7	* -1	* 1968	* 1216.6	* 39	* 1958	* 1214.8	* 81.25	*
* 5	* -1	* 1969	* 1218.3	* 40	* 1949	* 1214.7	* 83.33	*
* 5	* -1	* 1970	* 1216.6	* 41	* 1930	* 1214.6	* 85.42	*
* 5	* -1	* 1971	* 1217.8	* 42	* 1937	* 1214.5	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1939	* 1214.1	* 89.58	*
* 9	* -1	* 1973	* 1216.6	* 44	* 1961	* 1213.4	* 91.67	*
* 6	* -1	* 1974	* 1217.2	* 45	* 1933	* 1212.4	* 93.75	*
* 5	* -1	* 1975	* 1218.3	* 46	* 1940	* 1212.3	* 95.83	*

* 7 -1 1976 1216.6 * 47 1934 1210.2 97.92 *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*	
*	5	-1	1930	*	1	1958	1208.2	2.08	*
*	5	-1	1931	*	2	1931	1208.7	4.17	*
*	5	-1	1932	*	3	1934	1209.3	6.25	*
*	5	-1	1933	*	4	1933	1209.7	8.33	*
*	9	-1	1934	*	5	1959	1209.9	10.42	*
*	5	-1	1935	*	6	1940	1210.5	12.50	*
*	5	-1	1936	*	7	1955	1210.6	14.58	*
*	5	-1	1937	*	8	1949	1210.7	16.67	*
*	9	-1	1938	*	9	1973	1211.2	18.75	*
*	5	-1	1939	*	10	1961	1211.2	20.83	*
*	5	-1	1940	*	11	1963	1211.4	22.92	*
*	5	-1	1941	*	12	1935	1211.4	25.00	*
*	5	-1	1942	*	13	1930	1211.5	27.08	*
*	5	-1	1943	*	14	1937	1211.5	29.17	*
*	5	-1	1944	*	15	1939	1211.6	31.25	*
*	5	-1	1945	*	16	1968	1211.9	33.33	*
*	5	-1	1946	*	17	1932	1212.1	35.42	*
*	9	-1	1947	*	18	1962	1212.4	37.50	*
*	9	-1	1948	*	19	1942	1212.5	39.58	*
*	5	-1	1949	*	20	1964	1213.4	41.67	*
*	9	-1	1950	*	21	1944	1213.5	43.75	*
*	6	-1	1951	*	22	1960	1213.7	45.83	*
*	6	-1	1952	*	23	1953	1213.8	47.92	*

*	5	-1	1953	*	24	1936	1213.8	50.00	*
*	7	-1	1954	*	25	1976	1215.2	52.08	*
*	5	-1	1955	*	26	1946	1215.3	54.17	*
*	9	-1	1956	*	27	1943	1215.5	56.25	*
*	6	-1	1957	*	28	1970	1215.7	58.33	*
*	5	-1	1958	*	29	1947	1216.1	60.42	*
*	5	-1	1959	*	30	1967	1216.2	62.50	*
*	5	-1	1960	*	31	1950	1216.2	64.58	*
*	5	-1	1961	*	32	1969	1216.4	66.67	*
*	5	-1	1962	*	33	1948	1216.4	68.75	*
*	5	-1	1963	*	34	1938	1216.4	70.83	*
*	5	-1	1964	*	35	1975	1216.4	72.92	*
*	8	-1	1965	*	36	1971	1216.5	75.00	*
*	7	-1	1966	*	37	1956	1216.5	77.08	*
*	9	-1	1967	*	38	1952	1216.6	79.17	*
*	5	-1	1968	*	39	1945	1216.6	81.25	*
*	9	-1	1969	*	40	1951	1216.6	83.33	*
*	9	-1	1970	*	41	1957	1216.6	85.42	*
*	9	-1	1971	*	42	1965	1216.6	87.50	*
*	7	-1	1972	*	43	1972	1216.6	89.58	*
*	5	-1	1973	*	44	1941	1216.6	91.67	*
*	7	-1	1974	*	45	1974	1216.6	93.75	*
*	9	-1	1975	*	46	1966	1216.6	95.83	*
*	9	-1	1976	*	47	1954	1216.6	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- FINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1229.6	* 1	* 1950	* 1230.4	* 2.08	*
* 7	* -1	* 1931	* 1229.6	* 2	* 1965	* 1230.0	* 4.17	*
* 6	* -1	* 1932	* 1229.2	* 3	* 1943	* 1229.9	* 6.25	*
* 6	* -1	* 1933	* 1229.6	* 4	* 1944	* 1229.6	* 8.33	*
* 6	* -1	* 1934	* 1228.3	* 5	* 1966	* 1229.6	* 10.42	*
* 7	* -1	* 1935	* 1229.6	* 6	* 1938	* 1229.6	* 12.50	*
* 6	* -1	* 1936	* 1229.6	* 7	* 1945	* 1229.6	* 14.58	*
* 7	* -1	* 1937	* 1229.6	* 8	* 1937	* 1229.6	* 16.67	*
* 5	* -1	* 1938	* 1229.6	* 9	* 1935	* 1229.6	* 18.75	*
* 7	* -1	* 1939	* 1229.5	* 10	* 1941	* 1229.6	* 20.83	*
* 6	* -1	* 1940	* 1229.5	* 11	* 1942	* 1229.6	* 22.92	*
* 5	* -1	* 1941	* 1229.6	* 12	* 1933	* 1229.6	* 25.00	*
* 6	* -1	* 1942	* 1229.6	* 13	* 1946	* 1229.6	* 27.08	*
* 6	* -1	* 1943	* 1229.9	* 14	* 1947	* 1229.6	* 29.17	*
* 6	* -1	* 1944	* 1229.6	* 15	* 1948	* 1229.6	* 31.25	*
* 5	* -1	* 1945	* 1229.6	* 16	* 1949	* 1229.6	* 33.33	*
* 7	* -1	* 1946	* 1229.6	* 17	* 1930	* 1229.6	* 35.42	*
* 6	* -1	* 1947	* 1229.6	* 18	* 1951	* 1229.6	* 37.50	*
* 5	* -1	* 1948	* 1229.6	* 19	* 1952	* 1229.6	* 39.58	*
* 7	* -1	* 1949	* 1229.6	* 20	* 1953	* 1229.6	* 41.67	*
* 5	* -1	* 1950	* 1230.4	* 21	* 1954	* 1229.6	* 43.75	*
* 6	* -1	* 1951	* 1229.6	* 22	* 1955	* 1229.6	* 45.83	*
* 5	* -1	* 1952	* 1229.6	* 23	* 1956	* 1229.6	* 47.92	*
* 6	* -1	* 1953	* 1229.6	* 24	* 1957	* 1229.6	* 50.00	*
* 5	* -1	* 1954	* 1229.6	* 25	* 1959	* 1229.6	* 52.08	*
* 7	* -1	* 1955	* 1229.6	* 26	* 1960	* 1229.6	* 54.17	*
* 5	* -1	* 1956	* 1229.6	* 27	* 1962	* 1229.6	* 56.25	*
* 7	* -1	* 1957	* 1229.6	* 28	* 1963	* 1229.6	* 58.33	*
* 9	* -1	* 1958	* 1228.9	* 29	* 1964	* 1229.6	* 60.42	*
* 7	* -1	* 1959	* 1229.6	* 30	* 1931	* 1229.6	* 62.50	*
* 6	* -1	* 1960	* 1229.6	* 31	* 1967	* 1229.6	* 64.58	*
* 8	* -1	* 1961	* 1229.3	* 32	* 1968	* 1229.6	* 66.67	*
* 6	* -1	* 1962	* 1229.6	* 33	* 1969	* 1229.6	* 68.75	*
* 7	* -1	* 1963	* 1229.6	* 34	* 1970	* 1229.6	* 70.83	*
* 6	* -1	* 1964	* 1229.6	* 35	* 1971	* 1229.6	* 72.92	*
* 6	* -1	* 1965	* 1230.0	* 36	* 1972	* 1229.6	* 75.00	*
* 5	* -1	* 1966	* 1229.6	* 37	* 1973	* 1229.6	* 77.08	*
* 5	* -1	* 1967	* 1229.6	* 38	* 1974	* 1229.6	* 79.17	*
* 6	* -1	* 1968	* 1229.6	* 39	* 1975	* 1229.6	* 81.25	*
* 5	* -1	* 1969	* 1229.6	* 40	* 1936	* 1229.6	* 83.33	*
* 5	* -1	* 1970	* 1229.6	* 41	* 1940	* 1229.5	* 85.42	*
* 5	* -1	* 1971	* 1229.6	* 42	* 1939	* 1229.5	* 87.50	*
* 5	* -1	* 1972	* 1229.6	* 43	* 1961	* 1229.3	* 89.58	*
* 7	* -1	* 1973	* 1229.6	* 44	* 1932	* 1229.2	* 91.67	*
* 5	* -1	* 1974	* 1229.6	* 45	* 1958	* 1228.9	* 93.75	*
* 5	* -1	* 1975	* 1229.6	* 46	* 1976	* 1228.8	* 95.83	*
* 7	* -1	* 1976	* 1228.8	* 47	* 1934	* 1228.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	DAY	YEAR	ELEV, FT.	* RANK	WATER YEAR	ELEV, FT.	WEIRBULL FLOT POS	*		
*	5	-1	1930	1228.9	*	1	1934	1227.6	2.08	*
*	5	-1	1931	1228.1	*	2	1976	1227.9	4.17	*
*	5	-1	1932	1228.6	*	3	1958	1228.0	6.25	*
*	5	-1	1933	1228.7	*	4	1931	1228.1	8.33	*
*	5	-1	1934	1227.6	*	5	1959	1228.6	10.42	*
*	5	-1	1935	1228.8	*	6	1932	1228.6	12.50	*
*	5	-1	1936	1228.7	*	7	1955	1228.6	14.58	*
*	5	-1	1937	1228.9	*	8	1936	1228.7	16.67	*
*	5	-1	1938	1229.5	*	9	1939	1228.7	18.75	*
*	5	-1	1939	1228.7	*	10	1933	1228.7	20.83	*
*	5	-1	1940	1228.9	*	11	1961	1228.7	22.92	*
*	5	-1	1941	1229.6	*	12	1946	1228.8	25.00	*
*	5	-1	1942	1228.9	*	13	1935	1228.8	27.08	*
*	5	-1	1943	1228.9	*	14	1963	1228.8	29.17	*
*	5	-1	1944	1228.9	*	15	1930	1228.9	31.25	*
*	6	-1	1945	1229.6	*	16	1949	1228.9	33.33	*
*	5	-1	1946	1228.8	*	17	1937	1228.9	35.42	*
*	5	-1	1947	1228.9	*	18	1957	1228.9	37.50	*
*	5	-1	1948	1229.6	*	19	1940	1228.9	39.58	*
*	5	-1	1949	1228.9	*	20	1973	1228.9	41.67	*
*	7	-1	1950	1229.6	*	21	1951	1228.9	43.75	*
*	5	-1	1951	1228.9	*	22	1953	1228.9	45.83	*
*	5	-1	1952	1229.6	*	23	1947	1228.9	47.92	*
*	5	-1	1953	1228.9	*	24	1942	1228.9	50.00	*
*	5	-1	1954	1229.6	*	25	1944	1228.9	52.08	*
*	5	-1	1955	1228.6	*	26	1960	1228.9	54.17	*

*	9	-1	1956	1229.5	*	27	1962	1228.9	56.25	*
*	5	-1	1957	1228.9	*	28	1943	1228.9	58.33	*
*	5	-1	1958	1228.0	*	29	1964	1228.9	60.42	*
*	5	-1	1959	1228.6	*	30	1968	1228.9	62.50	*
*	5	-1	1960	1228.9	*	31	1970	1229.0	64.58	*
*	5	-1	1961	1228.7	*	32	1967	1229.4	66.67	*
*	5	-1	1962	1228.9	*	33	1969	1229.5	68.75	*
*	5	-1	1963	1228.8	*	34	1956	1229.5	70.83	*
*	5	-1	1964	1228.9	*	35	1938	1229.5	72.92	*
*	5	-1	1965	1229.6	*	36	1965	1229.6	75.00	*
*	6	-1	1966	1229.6	*	37	1966	1229.6	77.08	*
*	5	-1	1967	1229.4	*	38	1948	1229.6	79.17	*
*	5	-1	1968	1228.9	*	39	1954	1229.6	81.25	*
*	5	-1	1969	1229.5	*	40	1952	1229.6	83.33	*
*	5	-1	1970	1229.0	*	41	1941	1229.6	85.42	*
*	5	-1	1971	1229.6	*	42	1971	1229.6	87.50	*
*	5	-1	1972	1229.6	*	43	1972	1229.6	89.58	*
*	5	-1	1973	1228.9	*	44	1945	1229.6	91.67	*
*	5	-1	1974	1229.6	*	45	1974	1229.6	93.75	*
*	5	-1	1975	1229.6	*	46	1975	1229.6	95.83	*
*	9	-1	1976	1227.9	*	47	1950	1229.6	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR ELEV,FT. * RANK WATER YEAR ELEV,FT. WEIBULL *
*-----*-----*-----*-----*-----*-----*
* 6 -1 1930 1194.0 * 1 1950 1194.8 2.08 *
* 7 -1 1931 1193.9 * 2 1938 1194.5 4.17 *
* 6 -1 1932 1193.5 * 3 1944 1194.4 6.25 *
* 6 -1 1933 1194.0 * 4 1975 1194.3 8.33 *
* 5 -1 1934 1193.0 * 5 1965 1194.2 10.42 *
* 7 -1 1935 1194.0 * 6 1943 1194.1 12.50 *
* 6 -1 1936 1193.9 * 7 1952 1194.1 14.58 *
* 6 -1 1937 1194.0 * 8 1937 1194.0 16.67 *
* 5 -1 1938 1194.5 * 9 1941 1194.0 18.75 *
* 7 -1 1939 1193.9 * 10 1942 1194.0 20.83 *
* 6 -1 1940 1193.8 * 11 1935 1194.0 22.92 *
* 5 -1 1941 1194.0 * 12 1945 1194.0 25.00 *
* 6 -1 1942 1194.0 * 13 1946 1194.0 27.08 *
* 6 -1 1943 1194.1 * 14 1947 1194.0 29.17 *
* 6 -1 1944 1194.4 * 15 1948 1194.0 31.25 *
* 5 -1 1945 1194.0 * 16 1949 1194.0 33.33 *
* 7 -1 1946 1194.0 * 17 1951 1194.0 35.42 *
* 6 -1 1947 1194.0 * 18 1953 1194.0 37.50 *
* 5 -1 1948 1194.0 * 19 1954 1194.0 39.58 *
* 6 -1 1949 1194.0 * 20 1955 1194.0 41.67 *
* 5 -1 1950 1194.8 * 21 1956 1194.0 43.75 *
* 6 -1 1951 1194.0 * 22 1957 1194.0 45.83 *
* 7 -1 1952 1194.1 * 23 1958 1194.0 47.92 *
* 6 -1 1953 1194.0 * 24 1959 1194.0 50.00 *
* 5 -1 1954 1194.0 * 25 1960 1194.0 52.08 *
* 8 -1 1955 1194.0 * 26 1962 1194.0 54.17 *
* 5 -1 1956 1194.0 * 27 1963 1194.0 56.25 *
* 7 -1 1957 1194.0 * 28 1964 1194.0 58.33 *
* 8 -1 1958 1194.0 * 29 1966 1194.0 60.42 *
* 6 -1 1959 1194.0 * 30 1967 1194.0 62.50 *
* 6 -1 1960 1194.0 * 31 1968 1194.0 64.58 *
* 8 -1 1961 1193.6 * 32 1969 1194.0 66.67 *
* 6 -1 1962 1194.0 * 33 1970 1194.0 68.75 *
* 9 -1 1963 1194.0 * 34 1971 1194.0 70.83 *
* 9 -1 1964 1194.0 * 35 1972 1194.0 72.92 *
* 6 -1 1965 1194.2 * 36 1973 1194.0 75.00 *
* 5 -1 1966 1194.0 * 37 1974 1194.0 77.08 *
* 5 -1 1967 1194.0 * 38 1933 1194.0 79.17 *
* 7 -1 1968 1194.0 * 39 1930 1194.0 81.25 *
* 5 -1 1969 1194.0 * 40 1939 1193.9 83.33 *
* 5 -1 1970 1194.0 * 41 1931 1193.9 85.42 *
* 5 -1 1971 1194.0 * 42 1936 1193.9 87.50 *
* 5 -1 1972 1194.0 * 43 1940 1193.8 89.58 *
* 6 -1 1973 1194.0 * 44 1961 1193.6 91.67 *
* 5 -1 1974 1194.0 * 45 1932 1193.5 93.75 *
* 5 -1 1975 1194.3 * 46 1976 1193.5 95.83 *
* 7 -1 1976 1193.5 * 47 1934 1193.0 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

*****EVENTS ANALYZED.....*.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1193.0	* 1	* 1934	* 1192.5	* 2.08	*
* 5	* -1	* 1931	* 1193.0	* 2	* 1976	* 1192.6	* 4.17	*
* 9	* -1	* 1932	* 1192.6	* 3	* 1932	* 1192.6	* 6.25	*
* 9	* -1	* 1933	* 1193.1	* 4	* 1936	* 1192.9	* 8.33	*
* 9	* -1	* 1934	* 1192.5	* 5	* 1931	* 1193.0	* 10.42	*
* 5	* -1	* 1935	* 1193.5	* 6	* 1930	* 1193.0	* 12.50	*
* 9	* -1	* 1936	* 1192.9	* 7	* 1933	* 1193.1	* 14.58	*
* 5	* -1	* 1937	* 1193.6	* 8	* 1955	* 1193.4	* 16.67	*
* 8	* -1	* 1938	* 1193.9	* 9	* 1958	* 1193.4	* 18.75	*
* 5	* -1	* 1939	* 1193.4	* 10	* 1939	* 1193.4	* 20.83	*
* 5	* -1	* 1940	* 1193.6	* 11	* 1970	* 1193.5	* 22.92	*
* 7	* -1	* 1941	* 1193.9	* 12	* 1935	* 1193.5	* 25.00	*
* 5	* -1	* 1942	* 1193.6	* 13	* 1961	* 1193.5	* 27.08	*
* 5	* -1	* 1943	* 1193.6	* 14	* 1964	* 1193.5	* 29.17	*
* 5	* -1	* 1944	* 1193.6	* 15	* 1963	* 1193.5	* 31.25	*
* 6	* -1	* 1945	* 1194.0	* 16	* 1968	* 1193.5	* 33.33	*
* 5	* -1	* 1946	* 1193.6	* 17	* 1959	* 1193.6	* 35.42	*
* 5	* -1	* 1947	* 1193.9	* 18	* 1957	* 1193.6	* 37.50	*
* 6	* -1	* 1948	* 1193.9	* 19	* 1940	* 1193.6	* 39.58	*
* 5	* -1	* 1949	* 1193.6	* 20	* 1946	* 1193.6	* 41.67	*
* 9	* -1	* 1950	* 1193.7	* 21	* 1949	* 1193.6	* 43.75	*
* 5	* -1	* 1951	* 1193.6	* 22	* 1969	* 1193.6	* 45.83	*
* 9	* -1	* 1952	* 1194.0	* 23	* 1953	* 1193.6	* 47.92	*
* 5	* -1	* 1953	* 1193.6	* 24	* 1937	* 1193.6	* 50.00	*
* 5	* -1	* 1954	* 1194.0	* 25	* 1960	* 1193.6	* 52.08	*
* 5	* -1	* 1955	* 1193.4	* 26	* 1942	* 1193.6	* 54.17	*
* 9	* -1	* 1956	* 1193.9	* 27	* 1962	* 1193.6	* 56.25	*
* 5	* -1	* 1957	* 1193.6	* 28	* 1944	* 1193.6	* 58.33	*
* 5	* -1	* 1958	* 1193.4	* 29	* 1943	* 1193.6	* 60.42	*

* 5	* -1	* 1959	* 1193.6	* 30	* 1951	* 1193.6	* 62.50	*
* 5	* -1	* 1960	* 1193.6	* 31	* 1973	* 1193.6	* 64.58	*
* 5	* -1	* 1961	* 1193.5	* 32	* 1950	* 1193.7	* 66.67	*
* 5	* -1	* 1962	* 1193.6	* 33	* 1967	* 1193.8	* 68.75	*
* 5	* -1	* 1963	* 1193.5	* 34	* 1948	* 1193.9	* 70.83	*
* 5	* -1	* 1964	* 1193.5	* 35	* 1956	* 1193.9	* 72.92	*
* 8	* -1	* 1965	* 1194.0	* 36	* 1947	* 1193.9	* 75.00	*
* 9	* -1	* 1966	* 1193.9	* 37	* 1938	* 1193.9	* 77.08	*
* 9	* -1	* 1967	* 1193.8	* 38	* 1974	* 1193.9	* 79.17	*
* 5	* -1	* 1968	* 1193.5	* 39	* 1966	* 1193.9	* 81.25	*
* 9	* -1	* 1969	* 1193.6	* 40	* 1941	* 1193.9	* 83.33	*
* 9	* -1	* 1970	* 1193.5	* 41	* 1971	* 1194.0	* 85.42	*
* 9	* -1	* 1971	* 1194.0	* 42	* 1965	* 1194.0	* 87.50	*
* 5	* -1	* 1972	* 1194.0	* 43	* 1945	* 1194.0	* 89.58	*
* 5	* -1	* 1973	* 1193.6	* 44	* 1952	* 1194.0	* 91.67	*
* 9	* -1	* 1974	* 1193.9	* 45	* 1972	* 1194.0	* 93.75	*
* 6	* -1	* 1975	* 1194.0	* 46	* 1975	* 1194.0	* 95.83	*
* 9	* -1	* 1976	* 1192.6	* 47	* 1954	* 1194.0	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIRULL FLOT POS	*
* 2	* -1	* 1930	* 2784.	* 1	* 1950	* 21595.	* 2.08	*
* 2	* -1	* 1931	* 2390.	* 2	* 1975	* 18246.	* 4.17	*
* 4	* -1	* 1932	* 2848.	* 3	* 1969	* 14325.	* 6.25	*
* 5	* -1	* 1933	* 2610.	* 4	* 1965	* 13398.	* 8.33	*
* 4	* -1	* 1934	* 2442.	* 5	* 1966	* 12791.	* 10.42	*
* 4	* -1	* 1935	* 3057.	* 6	* 1953	* 12249.	* 12.50	*
* 5	* -1	* 1936	* 4123.	* 7	* 1944	* 10881.	* 14.58	*
* 4	* -1	* 1937	* 4004.	* 8	* 1948	* 10732.	* 16.67	*
* 5	* -1	* 1938	* 10513.	* 9	* 1952	* 10684.	* 18.75	*
* 4	* -1	* 1939	* 6117.	* 10	* 1971	* 10666.	* 20.83	*
* 5	* -1	* 1940	* 3066.	* 11	* 1943	* 10624.	* 22.92	*
* 4	* -1	* 1941	* 10318.	* 12	* 1974	* 10578.	* 25.00	*
* 5	* -1	* 1942	* 3885.	* 13	* 1954	* 10555.	* 27.08	*
* 6	* -1	* 1943	* 10624.	* 14	* 1972	* 10524.	* 29.17	*
* 6	* -1	* 1944	* 10881.	* 15	* 1938	* 10513.	* 31.25	*
* 3	* -1	* 1945	* 10391.	* 16	* 1945	* 10391.	* 33.33	*
* 6	* -1	* 1946	* 4601.	* 17	* 1941	* 10318.	* 35.42	*
* 5	* -1	* 1947	* 6201.	* 18	* 1956	* 9803.	* 37.50	*
* 5	* -1	* 1948	* 10732.	* 19	* 1967	* 9716.	* 39.58	*
* 11	* -1	* 1949	* 4811.	* 20	* 1970	* 9695.	* 41.67	*
* 5	* -1	* 1950	* 21595.	* 21	* 1951	* 7510.	* 43.75	*
* 5	* -1	* 1951	* 7510.	* 22	* 1947	* 6201.	* 45.83	*
* 8	* -1	* 1952	* 10684.	* 23	* 1939	* 6117.	* 47.92	*
* 8	* -1	* 1953	* 12249.	* 24	* 1973	* 5426.	* 50.00	*
* 4	* -1	* 1954	* 10555.	* 25	* 1955	* 5423.	* 52.08	*
* 4	* -1	* 1955	* 5423.	* 26	* 1964	* 5317.	* 54.17	*

* 4	* -1	* 1956	* 9803.	* 27	* 1960	* 4927.	* 56.25	*
* 5	* -1	* 1957	* 4913.	* 28	* 1963	* 4914.	* 58.33	*
* 1	* -1	* 1958	* 2944.	* 29	* 1957	* 4913.	* 60.42	*
* 6	* -1	* 1959	* 2817.	* 30	* 1949	* 4811.	* 62.50	*
* 4	* -1	* 1960	* 4927.	* 31	* 1946	* 4601.	* 64.58	*
* 5	* -1	* 1961	* 2731.	* 32	* 1976	* 4512.	* 66.67	*
* 5	* -1	* 1962	* 4404.	* 33	* 1962	* 4404.	* 68.75	*
* 4	* -1	* 1963	* 4914.	* 34	* 1936	* 4123.	* 70.83	*
* 5	* -1	* 1964	* 5317.	* 35	* 1937	* 4004.	* 72.92	*
* 4	* -1	* 1965	* 13398.	* 36	* 1942	* 3885.	* 75.00	*
* 5	* -1	* 1966	* 12791.	* 37	* 1968	* 3784.	* 77.08	*
* 4	* -1	* 1967	* 9716.	* 38	* 1940	* 3066.	* 79.17	*
* 12	* -1	* 1968	* 3784.	* 39	* 1935	* 3057.	* 81.25	*
* 4	* -1	* 1969	* 14325.	* 40	* 1958	* 2944.	* 83.33	*
* 5	* -1	* 1970	* 9695.	* 41	* 1932	* 2848.	* 85.42	*
* 5	* -1	* 1971	* 10666.	* 42	* 1959	* 2817.	* 87.50	*
* 5	* -1	* 1972	* 10524.	* 43	* 1930	* 2784.	* 89.58	*
* 10	* -1	* 1973	* 5426.	* 44	* 1961	* 2731.	* 91.67	*
* 6	* -1	* 1974	* 10578.	* 45	* 1933	* 2610.	* 93.75	*
* 5	* -1	* 1975	* 18246.	* 46	* 1934	* 2442.	* 95.83	*
* 4	* -1	* 1976	* 4512.	* 47	* 1931	* 2390.	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANOKA FLOW

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*****
*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
* MON DAY YEAR FLOW,CFS * RANK WATER YEAR FLOW,CFS WEIBULL *
* * * * * * * * * * * * * * * * * * * * * * * * * * * *
* 8 -1 1930 942. * 1 1934 700. 2.08 *
* 9 -1 1931 1247. * 2 1936 827. 4.17 *
* 10 -1 1932 1162. * 3 1933 862. 6.25 *
* 9 -1 1933 862. * 4 1935 870. 8.33 *
* 8 -1 1934 700. * 5 1930 942. 10.42 *
* 1 -1 1935 870. * 6 1976 1048. 12.50 *
* 7 -1 1936 827. * 7 1932 1162. 14.58 *
* 1 -1 1937 1414. * 8 1931 1247. 16.67 *
* 2 -1 1938 1952. * 9 1940 1323. 18.75 *
* 10 -1 1939 1775. * 10 1937 1414. 20.83 *
* 9 -1 1940 1323. * 11 1961 1632. 22.92 *
* 8 -1 1941 2827. * 12 1939 1775. 25.00 *
* 1 -1 1942 4424. * 13 1970 1858. 27.08 *
* 9 -1 1943 4007. * 14 1938 1952. 29.17 *
* 1 -1 1944 5141. * 15 1960 1977. 31.25 *
* 1 -1 1945 5047. * 16 1948 2058. 33.33 *
* 9 -1 1946 3625. * 17 1956 2303. 35.42 *
* 8 -1 1947 2923. * 18 1967 2346. 37.50 *
* 10 -1 1948 2058. * 19 1949 2356. 39.58 *
* 9 -1 1949 2356. * 20 1959 2406. 41.67 *
* 8 -1 1950 3061. * 21 1969 2464. 43.75 *
* 3 -1 1951 4495. * 22 1958 2483. 45.83 *
* 10 -1 1952 3943. * 23 1964 2521. 47.92 *
* 1 -1 1953 5235. * 24 1962 2565. 50.00 *
* 8 -1 1954 4430. * 25 1965 2638. 52.08 *
* 11 -1 1955 3856. * 26 1941 2827. 54.17 *
* 10 -1 1956 2303. * 27 1957 2843. 56.25 *
* 2 -1 1957 2843. * 28 1963 2904. 58.33 *
* 8 -1 1958 2483. * 29 1947 2923. 60.42 *
* 1 -1 1959 2406. * 30 1950 3061. 62.50 *
* 8 -1 1960 1977. * 31 1971 3126. 64.58 *
* 8 -1 1961 1632. * 32 1974 3196. 66.67 *
* 3 -1 1962 2565. * 33 1946 3625. 68.75 *
* 10 -1 1963 2904. * 34 1968 3813. 70.83 *
* 8 -1 1964 2521. * 35 1955 3856. 72.92 *
* 3 -1 1965 2638. * 36 1952 3943. 75.00 *
* 9 -1 1966 4891. * 37 1943 4007. 77.08 *
* 10 -1 1967 2346. * 38 1975 4228. 79.17 *
* 2 -1 1968 3813. * 39 1942 4424. 81.25 *
* 9 -1 1969 2464. * 40 1954 4430. 83.33 *
* 9 -1 1970 1858. * 41 1973 4442. 85.42 *
* 9 -1 1971 3126. * 42 1951 4495. 87.50 *
* 12 -1 1972 7771. * 43 1966 4891. 89.58 *
* 7 -1 1973 4442. * 44 1945 5047. 91.67 *
* 9 -1 1974 3196. * 45 1944 5141. 93.75 *
* 8 -1 1975 4228. * 46 1953 5235. 95.83 *
* 9 -1 1976 1048. * 47 1972 7771. 97.92 *
*****

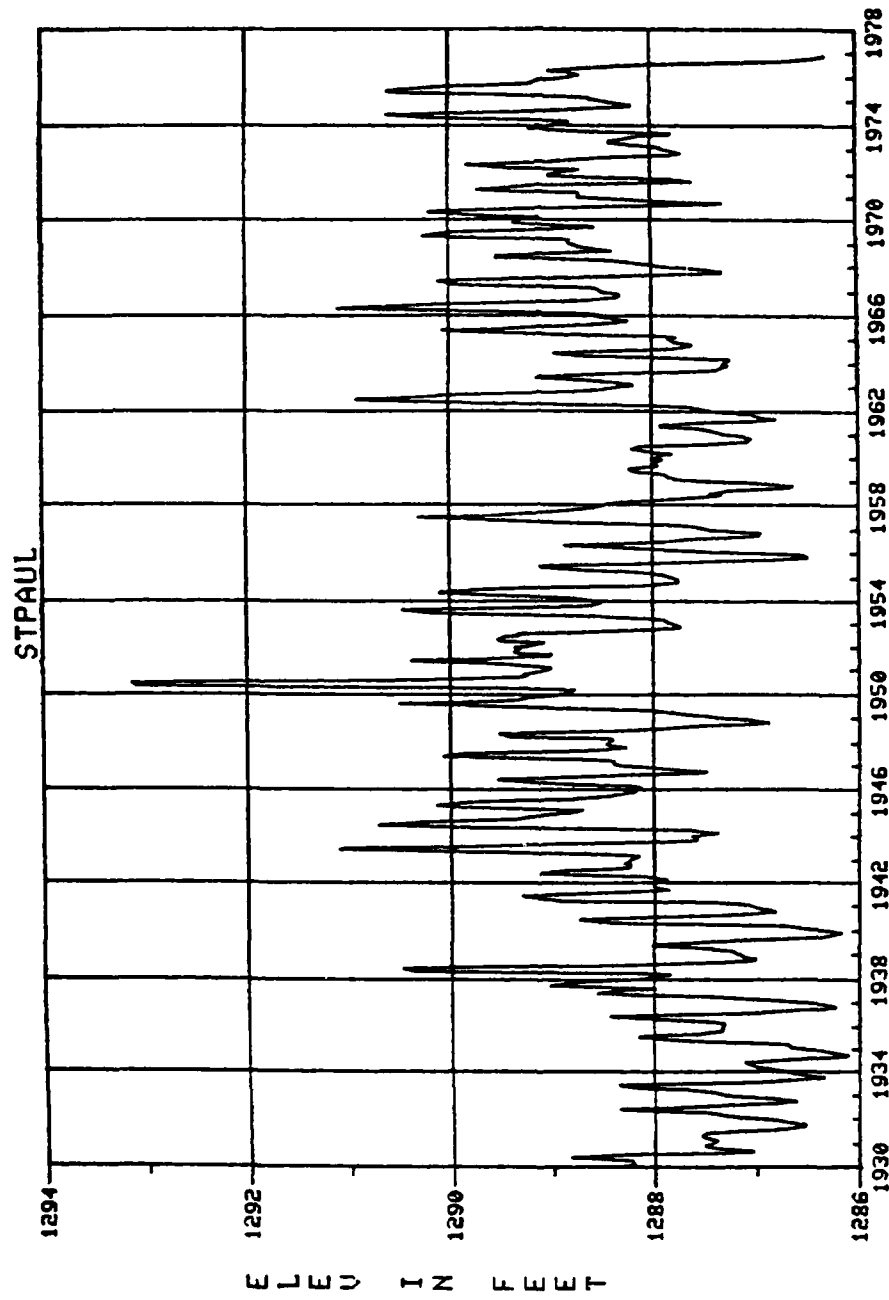
```

APPENDIX H

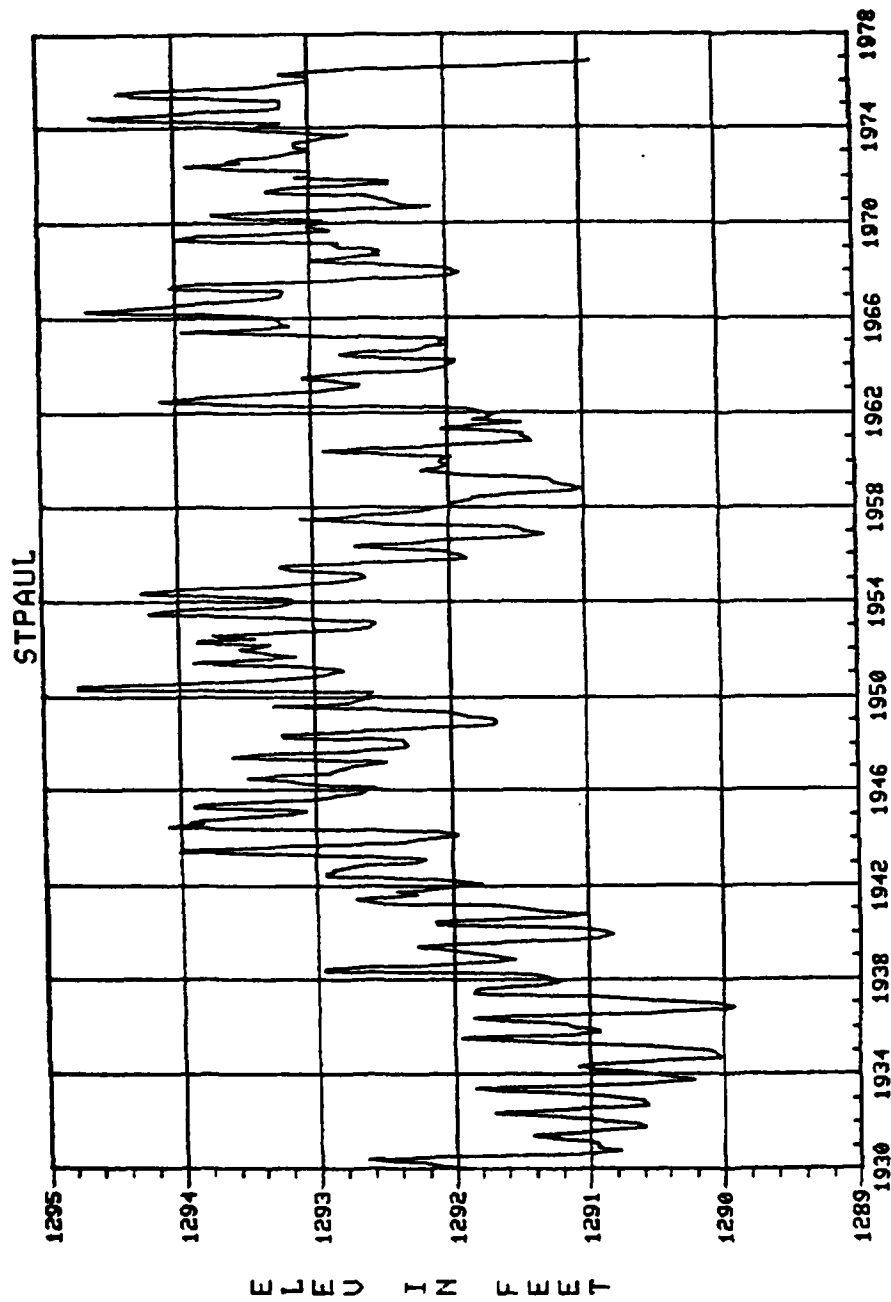
PLAN 4

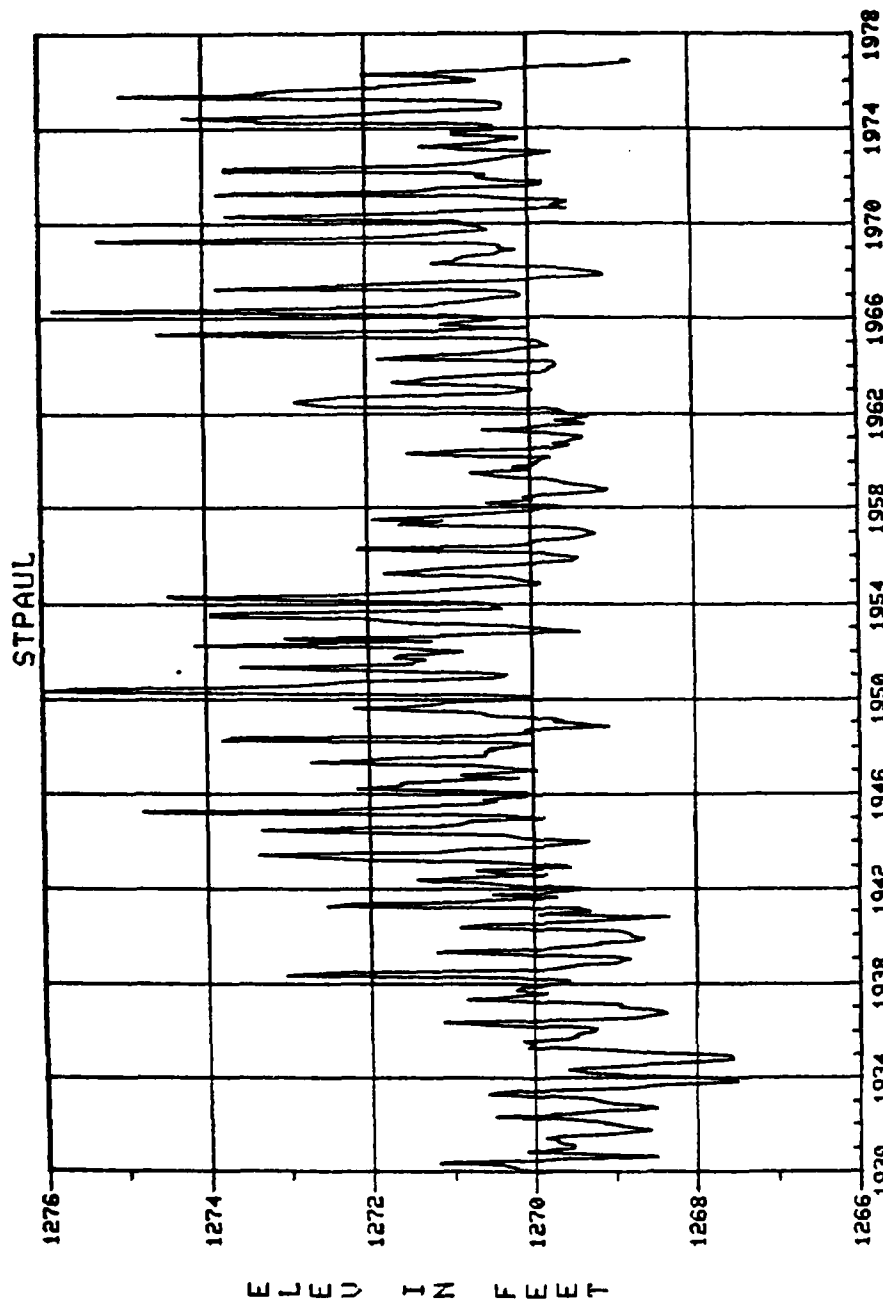
TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.

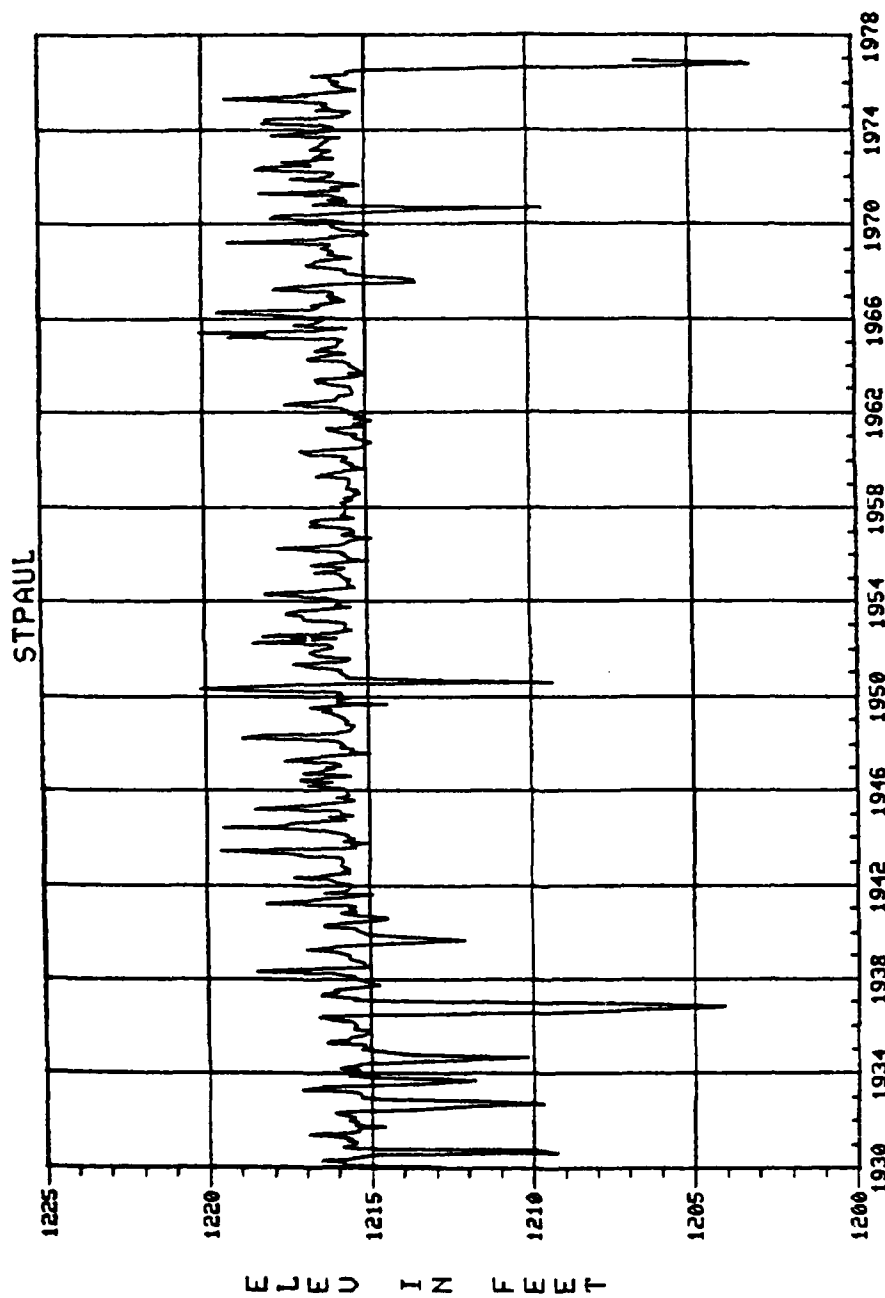


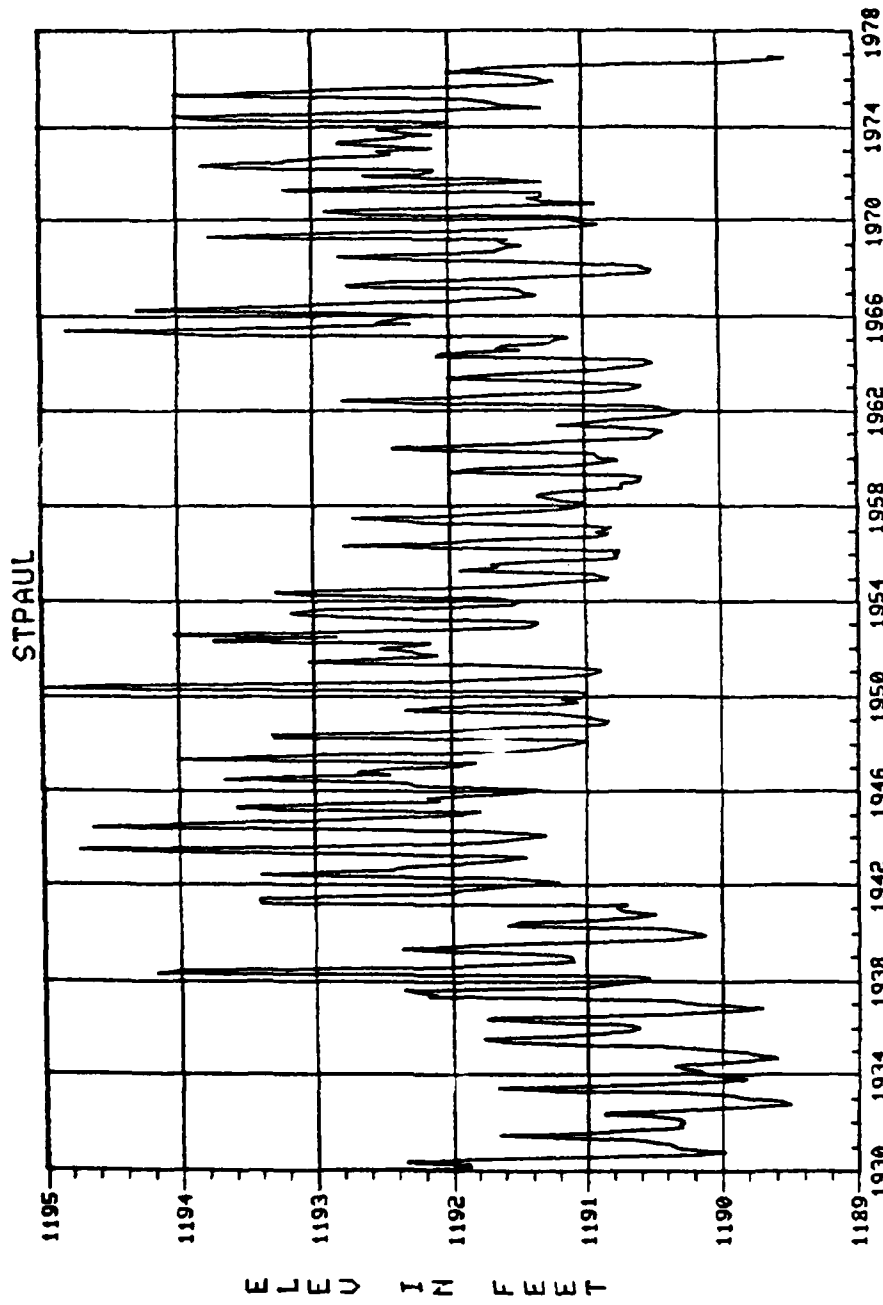
— VINNI RES. PLANAR ELEV



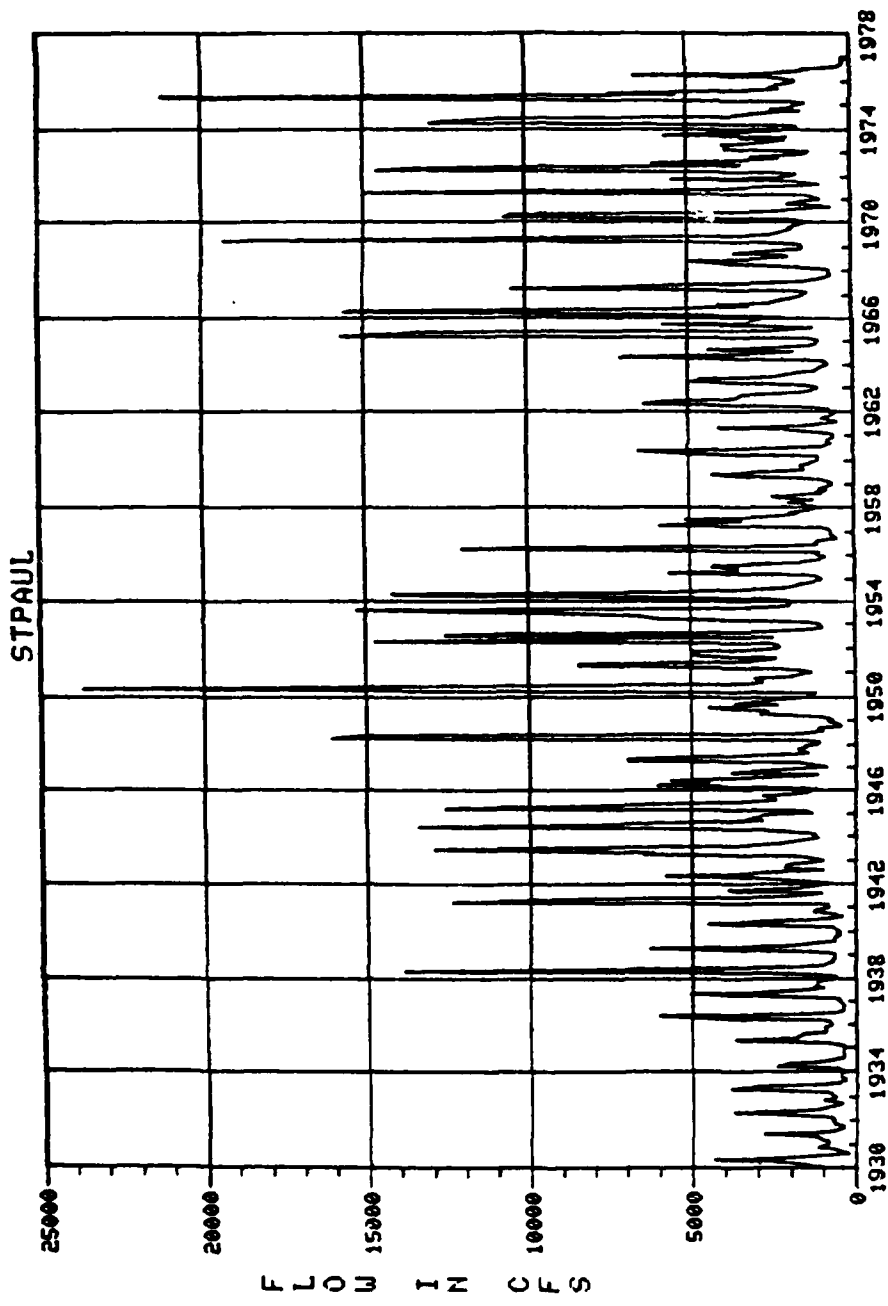


POKEGAMA RES. PLANAR ELEV

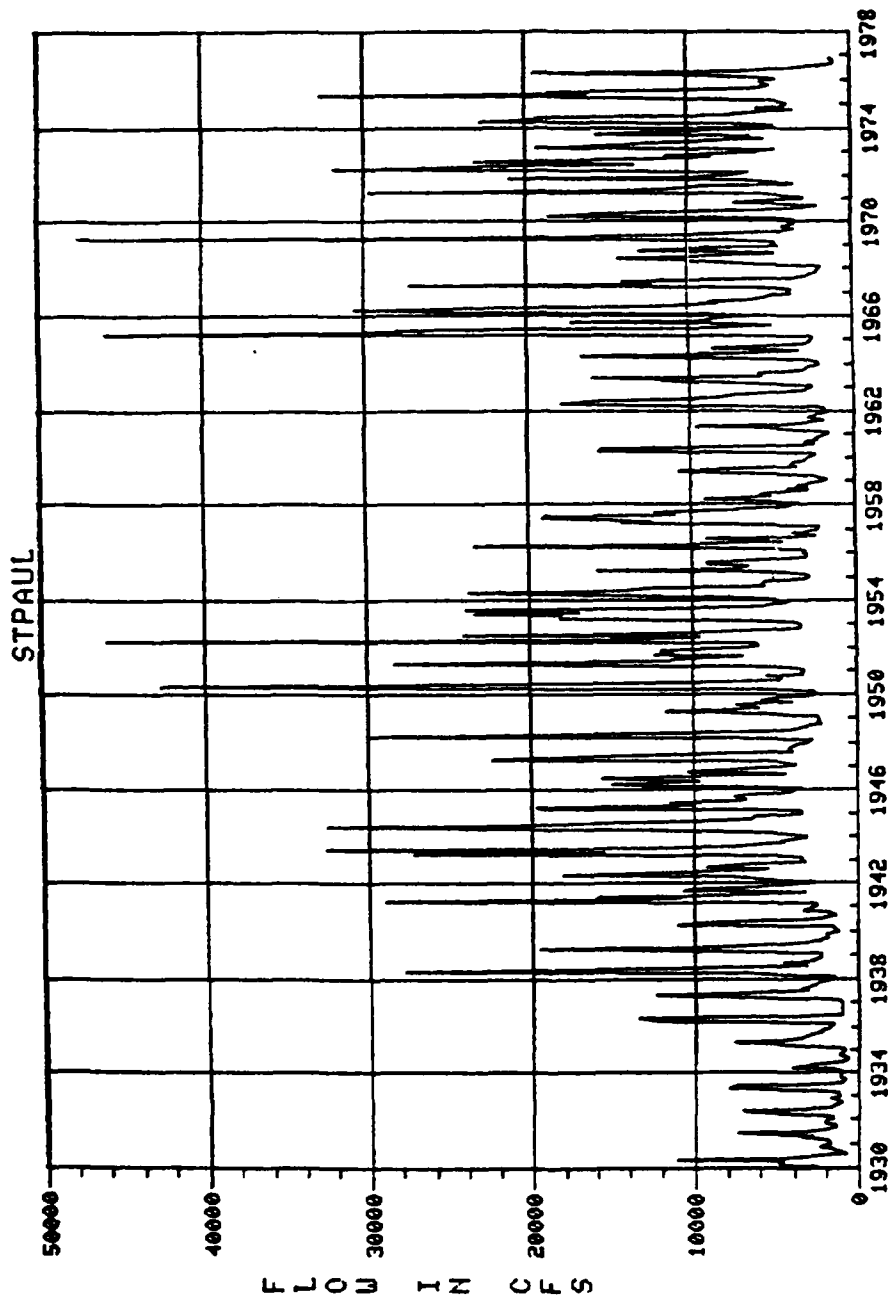




____ GULL RES. PLAN4R ELEV



— AITKIN PLANAR FLOW-REG



— ANOKA PLAN4 FLOW-REG

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	* *
* 6	* -1	* 1930	* 1288.8	* 1	* 1950	* 1293.1	* 2.08	* *
* 5	* -1	* 1931	* 1287.5	* 2	* 1943	* 1291.1	* 4.17	* *
* 6	* -1	* 1932	* 1288.3	* 3	* 1966	* 1291.1	* 6.25	* *
* 6	* -1	* 1933	* 1288.3	* 4	* 1962	* 1290.9	* 8.33	* *
* 6	* -1	* 1934	* 1287.1	* 5	* 1944	* 1290.7	* 10.42	* *
* 7	* -1	* 1935	* 1288.1	* 6	* 1974	* 1290.6	* 12.50	* *
* 6	* -1	* 1936	* 1288.4	* 7	* 1975	* 1290.6	* 14.58	* *
* 6	* -1	* 1937	* 1288.5	* 8	* 1949	* 1290.5	* 16.67	* *
* 6	* -1	* 1938	* 1290.5	* 9	* 1938	* 1290.5	* 18.75	* *
* 6	* -1	* 1939	* 1288.0	* 10	* 1953	* 1290.5	* 20.83	* *
* 6	* -1	* 1940	* 1288.7	* 11	* 1951	* 1290.4	* 22.92	* *
* 6	* -1	* 1941	* 1289.3	* 12	* 1957	* 1290.3	* 25.00	* *
* 6	* -1	* 1942	* 1289.1	* 13	* 1969	* 1290.2	* 27.08	* *
* 6	* -1	* 1943	* 1291.1	* 14	* 1970	* 1290.2	* 29.17	* *
* 7	* -1	* 1944	* 1290.7	* 15	* 1945	* 1290.1	* 31.25	* *
* 5	* -1	* 1945	* 1290.1	* 16	* 1954	* 1290.1	* 33.33	* *
* 6	* -1	* 1946	* 1289.5	* 17	* 1967	* 1290.1	* 35.42	* *
* 6	* -1	* 1947	* 1290.1	* 18	* 1947	* 1290.1	* 37.50	* *
* 5	* -1	* 1948	* 1289.5	* 19	* 1965	* 1290.0	* 39.58	* *
* 8	* -1	* 1949	* 1290.5	* 20	* 1972	* 1289.8	* 41.67	* *
* 6	* -1	* 1950	* 1293.1	* 21	* 1971	* 1289.7	* 43.75	* *
* 6	* -1	* 1951	* 1290.4	* 22	* 1952	* 1289.5	* 45.83	* *
* 5	* -1	* 1952	* 1289.5	* 23	* 1946	* 1289.5	* 47.92	* *
* 8	* -1	* 1953	* 1290.5	* 24	* 1968	* 1289.5	* 50.00	* *
* 6	* -1	* 1954	* 1290.1	* 25	* 1948	* 1289.5	* 52.08	* *
* 6	* -1	* 1955	* 1289.1	* 26	* 1941	* 1289.3	* 54.17	* *
* 5	* -1	* 1956	* 1288.8	* 27	* 1963	* 1289.1	* 56.25	* *
* 7	* -1	* 1957	* 1290.3	* 28	* 1942	* 1289.1	* 58.33	* *
* 5	* -1	* 1958	* 1287.5	* 29	* 1955	* 1289.1	* 60.42	* *
* 7	* -1	* 1959	* 1288.2	* 30	* 1964	* 1288.9	* 62.50	* *
* 5	* -1	* 1960	* 1288.2	* 31	* 1956	* 1288.8	* 64.58	* *
* 6	* -1	* 1961	* 1287.9	* 32	* 1930	* 1288.8	* 66.67	* *
* 7	* -1	* 1962	* 1290.9	* 33	* 1976	* 1288.8	* 68.75	* *
* 6	* -1	* 1963	* 1289.1	* 34	* 1940	* 1288.7	* 70.83	* *
* 6	* -1	* 1964	* 1288.9	* 35	* 1937	* 1288.5	* 72.92	* *
* 6	* -1	* 1965	* 1290.0	* 36	* 1936	* 1288.4	* 75.00	* *
* 5	* -1	* 1966	* 1291.1	* 37	* 1973	* 1288.4	* 77.08	* *
* 6	* -1	* 1967	* 1290.1	* 38	* 1932	* 1288.3	* 79.17	* *
* 6	* -1	* 1968	* 1289.5	* 39	* 1933	* 1288.3	* 81.25	* *

* 5	* -1	* 1969	* 1290.2	* 40	* 1959	* 1288.2	* 83.33	* *
* 5	* -1	* 1970	* 1290.2	* 41	* 1960	* 1288.2	* 85.42	* *
* 5	* -1	* 1971	* 1289.7	* 42	* 1935	* 1288.1	* 87.50	* *
* 5	* -1	* 1972	* 1289.8	* 43	* 1939	* 1288.0	* 89.58	* *
* 5	* -1	* 1973	* 1288.4	* 44	* 1961	* 1287.9	* 91.67	* *
* 6	* -1	* 1974	* 1290.6	* 45	* 1931	* 1287.5	* 93.75	* *
* 6	* -1	* 1975	* 1290.6	* 46	* 1958	* 1287.5	* 95.83	* *
* 5	* -1	* 1976	* 1288.8	* 47	* 1934	* 1287.1	* 97.92	* *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1287.0	* 1	* 1934	* 1286.1	* 2.08	*
* 9	* -1	* 1931	* 1286.5	* 2	* 1933	* 1286.5	* 4.17	*
* 9	* -1	* 1932	* 1286.8	* 3	* 1931	* 1286.5	* 6.25	*
* 9	* -1	* 1933	* 1286.5	* 4	* 1936	* 1286.6	* 8.33	*
* 9	* -1	* 1934	* 1286.1	* 5	* 1976	* 1286.7	* 10.42	*
* 5	* -1	* 1935	* 1287.4	* 6	* 1939	* 1286.8	* 12.50	*
* 9	* -1	* 1936	* 1286.6	* 7	* 1932	* 1286.8	* 14.58	*
* 8	* -1	* 1937	* 1288.0	* 8	* 1961	* 1286.8	* 16.67	*
* 9	* -1	* 1938	* 1287.4	* 9	* 1958	* 1286.9	* 18.75	*
* 9	* -1	* 1939	* 1286.8	* 10	* 1930	* 1287.0	* 20.83	*
* 9	* -1	* 1940	* 1287.2	* 11	* 1960	* 1287.1	* 22.92	*
* 9	* -1	* 1941	* 1287.8	* 12	* 1940	* 1287.2	* 25.00	*
* 9	* -1	* 1942	* 1288.2	* 13	* 1956	* 1287.3	* 27.08	*
* 9	* -1	* 1943	* 1288.9	* 14	* 1955	* 1287.3	* 29.17	*
* 5	* -1	* 1944	* 1288.5	* 15	* 1938	* 1287.4	* 31.25	*
* 9	* -1	* 1945	* 1288.4	* 16	* 1935	* 1287.4	* 33.33	*

* 9	* -1	* 1946	* 1287.6	* 17	* 1970	* 1287.5	* 35.42	*
* 9	* -1	* 1947	* 1288.6	* 18	* 1948	* 1287.6	* 37.50	*
* 9	* -1	* 1948	* 1287.6	* 19	* 1946	* 1287.6	* 39.58	*
* 5	* -1	* 1949	* 1288.1	* 20	* 1971	* 1287.6	* 41.67	*
* 9	* -1	* 1950	* 1289.3	* 21	* 1963	* 1287.7	* 43.75	*
* 9	* -1	* 1951	* 1289.0	* 22	* 1964	* 1287.8	* 45.83	*
* 9	* -1	* 1952	* 1288.7	* 23	* 1973	* 1287.8	* 47.92	*
* 5	* -1	* 1953	* 1288.6	* 24	* 1941	* 1287.8	* 50.00	*
* 9	* -1	* 1954	* 1288.1	* 25	* 1967	* 1287.8	* 52.08	*
* 9	* -1	* 1955	* 1287.3	* 26	* 1959	* 1287.9	* 54.17	*
* 9	* -1	* 1956	* 1287.3	* 27	* 1937	* 1288.0	* 56.25	*
* 5	* -1	* 1957	* 1289.1	* 28	* 1949	* 1288.1	* 58.33	*
* 9	* -1	* 1958	* 1286.9	* 29	* 1954	* 1288.1	* 60.42	*
* 9	* -1	* 1959	* 1287.9	* 30	* 1942	* 1288.2	* 62.50	*
* 9	* -1	* 1960	* 1287.1	* 31	* 1972	* 1288.3	* 64.58	*
* 9	* -1	* 1961	* 1286.8	* 32	* 1968	* 1288.4	* 66.67	*
* 5	* -1	* 1962	* 1289.4	* 33	* 1945	* 1288.4	* 68.75	*
* 9	* -1	* 1963	* 1287.7	* 34	* 1944	* 1288.5	* 70.83	*
* 9	* -1	* 1964	* 1287.8	* 35	* 1965	* 1288.5	* 72.92	*
* 9	* -1	* 1965	* 1288.5	* 36	* 1969	* 1288.5	* 75.00	*
* 9	* -1	* 1966	* 1288.6	* 37	* 1947	* 1288.6	* 77.08	*
* 9	* -1	* 1967	* 1287.8	* 38	* 1953	* 1288.6	* 79.17	*
* 9	* -1	* 1968	* 1288.4	* 39	* 1974	* 1288.6	* 81.25	*
* 9	* -1	* 1969	* 1288.5	* 40	* 1966	* 1288.6	* 83.33	*
* 9	* -1	* 1970	* 1287.5	* 41	* 1952	* 1288.7	* 85.42	*
* 9	* -1	* 1971	* 1287.6	* 42	* 1943	* 1288.9	* 87.50	*
* 9	* -1	* 1972	* 1288.3	* 43	* 1951	* 1289.0	* 89.58	*
* 8	* -1	* 1973	* 1287.8	* 44	* 1957	* 1289.1	* 91.67	*
* 9	* -1	* 1974	* 1288.6	* 45	* 1950	* 1289.3	* 93.75	*
* 9	* -1	* 1975	* 1289.4	* 46	* 1975	* 1289.4	* 95.83	*
* 9	* -1	* 1976	* 1286.7	* 47	* 1962	* 1289.4	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
*	6	-1	1930	*	1	1950	1294.7	2.08
*	6	-1	1931	*	2	1966	1294.6	4.17
*	6	-1	1932	*	3	1974	1294.6	6.25
*	6	-1	1933	*	4	1975	1294.4	8.33
*	5	-1	1934	*	5	1954	1294.3	10.42
*	7	-1	1935	*	6	1953	1294.2	12.50
*	5	-1	1936	*	7	1962	1294.1	14.58
*	6	-1	1937	*	8	1944	1294.1	16.67
*	5	-1	1938	*	9	1967	1294.0	18.75
*	6	-1	1939	*	10	1943	1294.0	20.83
*	6	-1	1940	*	11	1969	1294.0	22.92
*	6	-1	1941	*	12	1965	1293.9	25.00
*	7	-1	1942	*	13	1945	1293.9	27.08
*	6	-1	1943	*	14	1972	1293.9	29.17
*	7	-1	1944	*	15	1951	1293.9	31.25
*	5	-1	1945	*	16	1952	1293.8	33.33
*	7	-1	1946	*	17	1970	1293.7	35.42
*	6	-1	1947	*	18	1947	1293.6	37.50
*	5	-1	1948	*	19	1946	1293.5	39.58
*	8	-1	1949	*	20	1971	1293.3	41.67
*	5	-1	1950	*	21	1949	1293.3	43.75
*	6	-1	1951	*	22	1955	1293.2	45.83
*	5	-1	1952	*	23	1948	1293.2	47.92
*	7	-1	1953	*	24	1976	1293.2	50.00
*	5	-1	1954	*	25	1973	1293.1	52.08
*	6	-1	1955	*	26	1957	1293.1	54.17
*	5	-1	1956	*	27	1963	1293.1	56.25
*	7	-1	1957	*	28	1968	1293.0	58.33
*	5	-1	1958	*	29	1938	1292.9	60.42
*	8	-1	1959	*	30	1942	1292.9	62.50
*	6	-1	1960	*	31	1960	1292.9	64.58
*	5	-1	1961	*	32	1964	1292.8	66.67
*	7	-1	1962	*	33	1941	1292.7	68.75
*	6	-1	1963	*	34	1956	1292.7	70.83
*	6	-1	1964	*	35	1930	1292.6	72.92
*	6	-1	1965	*	36	1939	1292.3	75.00
*	5	-1	1966	*	37	1959	1292.2	77.08
*	5	-1	1967	*	38	1940	1292.1	79.17
*	7	-1	1968	*	39	1961	1292.0	81.25
*	5	-1	1969	*	40	1935	1291.9	83.33
*	5	-1	1970	*	41	1936	1291.8	85.42
*	5	-1	1971	*	42	1937	1291.8	87.50

*	5	-1	1972	*	43	1933	1291.8	89.58
*	5	-1	1973	*	44	1958	1291.8	91.67
*	6	-1	1974	*	45	1932	1291.7	93.75
*	7	-1	1975	*	46	1931	1291.4	95.83
*	5	-1	1976	*	47	1934	1291.1	97.92

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	9	-1	1930	*	1	1934	1290.0	2.08 *
*	9	-1	1931	*	2	1936	1290.1	4.17 *
*	9	-1	1932	*	3	1933	1290.3	6.25 *
*	9	-1	1933	*	4	1932	1290.7	8.33 *
*	9	-1	1934	*	5	1931	1290.8	10.42 *
*	9	-1	1935	*	6	1930	1291.0	12.50 *
*	9	-1	1936	*	7	1935	1291.2	14.58 *
*	9	-1	1937	*	8	1940	1291.2	16.67 *
*	9	-1	1938	*	9	1958	1291.2	18.75 *
*	9	-1	1939	*	10	1939	1291.2	20.83 *
*	9	-1	1940	*	11	1961	1291.4	22.92 *
*	8	-1	1941	*	12	1937	1291.6	25.00 *
*	5	-1	1942	*	13	1959	1291.6	27.08 *
*	5	-1	1943	*	14	1976	1291.6	29.17 *
*	5	-1	1944	*	15	1956	1291.8	31.25 *
*	9	-1	1945	*	16	1938	1291.9	33.33 *
*	9	-1	1946	*	17	1960	1291.9	35.42 *
*	9	-1	1947	*	18	1949	1292.0	37.50 *
*	9	-1	1948	*	19	1970	1292.2	39.58 *

*	5	-1	1949	*	20	1948	1292.2	41.67 *
*	9	-1	1950	*	21	1964	1292.2	43.75 *
*	9	-1	1951	*	22	1941	1292.3	45.83 *
*	6	-1	1952	*	23	1955	1292.3	47.92 *
*	5	-1	1953	*	24	1971	1292.4	50.00 *
*	9	-1	1954	*	25	1942	1292.5	52.08 *
*	9	-1	1955	*	26	1968	1292.5	54.17 *
*	9	-1	1956	*	27	1963	1292.5	56.25 *
*	5	-1	1957	*	28	1967	1292.5	58.33 *
*	9	-1	1958	*	29	1957	1292.5	60.42 *
*	5	-1	1959	*	30	1944	1292.6	62.50 *
*	9	-1	1960	*	31	1947	1292.7	64.58 *
*	8	-1	1961	*	32	1973	1292.7	66.67 *
*	5	-1	1962	*	33	1969	1292.8	68.75 *
*	9	-1	1963	*	34	1945	1292.9	70.83 *
*	9	-1	1964	*	35	1946	1292.9	72.92 *
*	9	-1	1965	*	36	1943	1293.1	75.00 *
*	9	-1	1966	*	37	1951	1293.1	77.08 *
*	9	-1	1967	*	38	1965	1293.1	79.17 *
*	9	-1	1968	*	39	1954	1293.2	81.25 *
*	9	-1	1969	*	40	1962	1293.2	83.33 *
*	9	-1	1970	*	41	1953	1293.3	85.42 *
*	9	-1	1971	*	42	1950	1293.3	87.50 *
*	7	-1	1972	*	43	1952	1293.4	89.58 *
*	9	-1	1973	*	44	1972	1293.5	91.67 *
*	9	-1	1974	*	45	1974	1293.7	93.75 *
*	9	-1	1975	*	46	1975	1293.7	95.83 *
*	9	-1	1976	*	47	1966	1293.8	97.92 *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*		
*	5	-1	1930	1271.2	*	1	1950	1275.9	2.08	*
*	6	-1	1931	1269.8	*	2	1966	1275.8	4.17	*
*	5	-1	1932	1270.5	*	3	1969	1275.3	6.25	*
*	5	-1	1933	1270.6	*	4	1975	1275.0	8.33	*
*	5	-1	1934	1269.6	*	5	1965	1274.5	10.42	*
*	8	-1	1935	1270.1	*	6	1954	1274.4	12.50	*
*	5	-1	1936	1271.1	*	7	1974	1274.2	14.58	*
*	5	-1	1937	1270.8	*	8	1953	1273.9	16.67	*
*	5	-1	1938	1273.0	*	9	1972	1273.7	18.75	*
*	5	-1	1939	1270.7	*	10	1948	1273.7	20.83	*
*	5	-1	1940	1270.9	*	11	1970	1273.7	22.92	*
*	5	-1	1941	1272.2	*	12	1971	1273.6	25.00	*
*	6	-1	1942	1271.4	*	13	1951	1273.6	27.08	*
*	6	-1	1943	1273.4	*	14	1943	1273.4	29.17	*
*	7	-1	1944	1273.3	*	15	1944	1273.3	31.25	*
*	5	-1	1945	1272.5	*	16	1952	1273.3	33.33	*
*	5	-1	1946	1271.6	*	17	1938	1273.0	35.42	*
*	5	-1	1947	1272.7	*	18	1967	1273.0	37.50	*
*	5	-1	1948	1273.7	*	19	1962	1272.9	39.58	*
*	8	-1	1949	1272.2	*	20	1947	1272.7	41.67	*
*	5	-1	1950	1275.9	*	21	1945	1272.5	43.75	*
*	5	-1	1951	1273.6	*	22	1949	1272.2	45.83	*
*	5	-1	1952	1273.3	*	23	1941	1272.2	47.92	*
*	7	-1	1953	1273.9	*	24	1956	1272.1	50.00	*
*	5	-1	1954	1274.4	*	25	1957	1271.9	52.08	*
*	5	-1	1955	1271.8	*	26	1964	1271.8	54.17	*
*	5	-1	1956	1272.1	*	27	1955	1271.8	56.25	*
*	7	-1	1957	1271.9	*	28	1963	1271.7	58.33	*
*	7	-1	1958	1270.1	*	29	1946	1271.6	60.42	*
*	7	-1	1959	1270.7	*	30	1960	1271.5	62.50	*
*	5	-1	1960	1271.5	*	31	1942	1271.4	64.58	*
*	5	-1	1961	1270.5	*	32	1976	1271.3	66.67	*
*	7	-1	1962	1272.9	*	33	1930	1271.2	68.75	*
*	5	-1	1963	1271.7	*	34	1968	1271.2	70.83	*
*	5	-1	1964	1271.8	*	35	1936	1271.1	72.92	*
*	5	-1	1965	1274.5	*	36	1940	1270.9	75.00	*
*	5	-1	1966	1275.8	*	37	1937	1270.8	77.08	*
*	5	-1	1967	1273.0	*	38	1973	1270.8	79.17	*
*	5	-1	1968	1271.2	*	39	1959	1270.7	81.25	*
*	5	-1	1969	1275.3	*	40	1939	1270.7	83.33	*
*	5	-1	1970	1273.7	*	41	1933	1270.6	85.42	*
*	5	-1	1971	1273.6	*	42	1961	1270.5	87.50	*
*	5	-1	1972	1273.7	*	43	1932	1270.5	89.58	*
*	5	-1	1973	1270.8	*	44	1935	1270.1	91.67	*

*	6	-1	1974	1274.2	*	45	1958	1270.1	93.75	*
*	5	-1	1975	1275.0	*	46	1931	1269.8	95.83	*
*	5	-1	1976	1271.3	*	47	1934	1269.6	97.92	*

- ANALYSIS OF FLOODING -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEICULL PLOT POS	* *
* 8	* -1	* 1930	* 1268.5	* 1	* 1934	* 1268.0	* 2.08	* *
* 9	* -1	* 1931	* 1268.8	* 2	* 1933	* 1268.5	* 4.17	* *
* 9	* -1	* 1932	* 1268.8	* 3	* 1936	* 1268.5	* 6.25	* *
* 9	* -1	* 1933	* 1268.5	* 4	* 1930	* 1268.5	* 8.33	* *
* 9	* -1	* 1934	* 1268.0	* 5	* 1932	* 1268.8	* 10.42	* *
* 9	* -1	* 1935	* 1269.6	* 6	* 1931	* 1268.8	* 12.50	* *
* 9	* -1	* 1936	* 1268.5	* 7	* 1940	* 1269.1	* 14.58	* *
* 8	* -1	* 1937	* 1269.8	* 8	* 1976	* 1269.1	* 16.67	* *
* 9	* -1	* 1938	* 1269.5	* 9	* 1939	* 1269.2	* 18.75	* *
* 8	* -1	* 1939	* 1269.2	* 10	* 1958	* 1269.2	* 20.83	* *
* 7	* -1	* 1940	* 1269.1	* 11	* 1961	* 1269.3	* 22.92	* *
* 8	* -1	* 1941	* 1269.7	* 12	* 1970	* 1269.5	* 25.00	* *
* 8	* -1	* 1942	* 1269.8	* 13	* 1960	* 1269.5	* 27.08	* *
* 9	* -1	* 1943	* 1270.8	* 14	* 1938	* 1269.5	* 29.17	* *
* 9	* -1	* 1944	* 1271.1	* 15	* 1935	* 1269.6	* 31.25	* *
* 9	* -1	* 1945	* 1270.4	* 16	* 1941	* 1269.7	* 33.33	* *
* 9	* -1	* 1946	* 1270.2	* 17	* 1956	* 1269.8	* 35.42	* *
* 9	* -1	* 1947	* 1270.5	* 18	* 1967	* 1269.8	* 37.50	* *
* 8	* -1	* 1948	* 1270.0	* 19	* 1971	* 1269.8	* 39.58	* *
* 5	* -1	* 1949	* 1270.6	* 20	* 1942	* 1269.8	* 41.67	* *
* 9	* -1	* 1950	* 1272.4	* 21	* 1937	* 1269.8	* 43.75	* *

* 9	* -1	* 1951	* 1271.3	* 22	* 1959	* 1270.0	* 45.83	* *
* 6	* -1	* 1952	* 1271.2	* 23	* 1948	* 1270.0	* 47.92	* *
* 5	* -1	* 1953	* 1271.9	* 24	* 1955	* 1270.0	* 50.00	* *
* 9	* -1	* 1954	* 1270.8	* 25	* 1965	* 1270.0	* 52.08	* *
* 9	* -1	* 1955	* 1270.0	* 26	* 1973	* 1270.1	* 54.17	* *
* 9	* -1	* 1956	* 1269.8	* 27	* 1946	* 1270.2	* 56.25	* *
* 9	* -1	* 1957	* 1270.8	* 28	* 1964	* 1270.3	* 58.33	* *
* 9	* -1	* 1958	* 1269.2	* 29	* 1963	* 1270.3	* 60.42	* *
* 9	* -1	* 1959	* 1270.0	* 30	* 1945	* 1270.4	* 62.50	* *
* 9	* -1	* 1960	* 1269.5	* 31	* 1972	* 1270.5	* 64.58	* *
* 8	* -1	* 1961	* 1269.3	* 32	* 1947	* 1270.5	* 66.67	* *
* 9	* -1	* 1962	* 1272.3	* 33	* 1949	* 1270.6	* 68.75	* *
* 9	* -1	* 1963	* 1270.3	* 34	* 1968	* 1270.6	* 70.83	* *
* 9	* -1	* 1964	* 1270.3	* 35	* 1969	* 1270.7	* 72.92	* *
* 8	* -1	* 1965	* 1270.0	* 36	* 1943	* 1270.8	* 75.00	* *
* 9	* -1	* 1966	* 1270.8	* 37	* 1954	* 1270.8	* 77.08	* *
* 9	* -1	* 1967	* 1269.8	* 38	* 1957	* 1270.8	* 79.17	* *
* 9	* -1	* 1968	* 1270.6	* 39	* 1966	* 1270.8	* 81.25	* *
* 9	* -1	* 1969	* 1270.7	* 40	* 1944	* 1271.1	* 83.33	* *
* 9	* -1	* 1970	* 1269.5	* 41	* 1952	* 1271.2	* 85.42	* *
* 9	* -1	* 1971	* 1269.8	* 42	* 1951	* 1271.3	* 87.50	* *
* 9	* -1	* 1972	* 1270.5	* 43	* 1974	* 1271.5	* 89.58	* *
* 9	* -1	* 1973	* 1270.1	* 44	* 1975	* 1271.8	* 91.67	* *
* 9	* -1	* 1974	* 1271.5	* 45	* 1953	* 1271.9	* 93.75	* *
* 9	* -1	* 1975	* 1271.8	* 46	* 1962	* 1272.3	* 95.83	* *
* 9	* -1	* 1976	* 1269.1	* 47	* 1950	* 1272.4	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 5	* -1	* 1930	* 1216.5	* 1	* 1950	* 1220.1	* 2.08	*
* 6	* -1	* 1931	* 1216.9	* 2	* 1965	* 1220.0	* 4.17	*
* 5	* -1	* 1932	* 1216.1	* 3	* 1943	* 1219.6	* 6.25	*
* 5	* -1	* 1933	* 1217.1	* 4	* 1944	* 1219.4	* 8.33	*
* 5	* -1	* 1934	* 1215.4	* 5	* 1966	* 1219.4	* 10.42	*
* 5	* -1	* 1935	* 1216.3	* 6	* 1975	* 1218.6	* 12.50	*
* 5	* -1	* 1936	* 1216.5	* 7	* 1938	* 1218.5	* 14.58	*
* 5	* -1	* 1937	* 1216.5	* 8	* 1948	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1218.5	* 9	* 1952	* 1218.1	* 18.75	*

* 5	* -1	* 1939	* 1216.1	* 10	* 1954	* 1218.1	* 20.83	*
* 5	* -1	* 1940	* 1216.4	* 11	* 1972	* 1218.1	* 22.92	*
* 5	* -1	* 1941	* 1216.9	* 12	* 1974	* 1218.0	* 25.00	*
* 5	* -1	* 1942	* 1217.3	* 13	* 1970	* 1217.7	* 27.08	*
* 6	* -1	* 1943	* 1219.6	* 14	* 1969	* 1217.7	* 29.17	*
* 6	* -1	* 1944	* 1219.4	* 15	* 1967	* 1217.7	* 31.25	*
* 5	* -1	* 1945	* 1217.2	* 16	* 1962	* 1217.5	* 33.33	*
* 6	* -1	* 1946	* 1217.1	* 17	* 1953	* 1217.4	* 35.42	*
* 5	* -1	* 1947	* 1217.3	* 18	* 1942	* 1217.3	* 37.50	*
* 5	* -1	* 1948	* 1218.3	* 19	* 1947	* 1217.3	* 39.58	*
* 7	* -1	* 1949	* 1216.8	* 20	* 1951	* 1217.3	* 41.67	*
* 5	* -1	* 1950	* 1220.1	* 21	* 1945	* 1217.2	* 43.75	*
* 5	* -1	* 1951	* 1217.3	* 22	* 1933	* 1217.1	* 45.83	*
* 7	* -1	* 1952	* 1218.1	* 23	* 1971	* 1217.1	* 47.92	*
* 6	* -1	* 1953	* 1217.4	* 24	* 1946	* 1217.1	* 50.00	*
* 5	* -1	* 1954	* 1218.1	* 25	* 1960	* 1217.0	* 52.08	*
* 8	* -1	* 1955	* 1216.7	* 26	* 1956	* 1216.9	* 54.17	*
* 5	* -1	* 1956	* 1216.9	* 27	* 1931	* 1216.9	* 56.25	*
* 6	* -1	* 1957	* 1216.7	* 28	* 1941	* 1216.9	* 58.33	*
* 6	* -1	* 1958	* 1215.7	* 29	* 1964	* 1216.8	* 60.42	*
* 5	* -1	* 1959	* 1216.5	* 30	* 1949	* 1216.8	* 62.50	*
* 5	* -1	* 1960	* 1217.0	* 31	* 1957	* 1216.7	* 64.58	*
* 5	* -1	* 1961	* 1216.1	* 32	* 1955	* 1216.7	* 66.67	*
* 5	* -1	* 1962	* 1217.5	* 33	* 1936	* 1216.5	* 68.75	*
* 6	* -1	* 1963	* 1216.5	* 34	* 1963	* 1216.5	* 70.83	*
* 5	* -1	* 1964	* 1216.8	* 35	* 1968	* 1216.5	* 72.92	*
* 5	* -1	* 1965	* 1220.0	* 36	* 1930	* 1216.5	* 75.00	*
* 5	* -1	* 1966	* 1219.4	* 37	* 1959	* 1216.5	* 77.08	*
* 5	* -1	* 1967	* 1217.7	* 38	* 1937	* 1216.5	* 79.17	*
* 6	* -1	* 1968	* 1216.5	* 39	* 1940	* 1216.4	* 81.25	*
* 5	* -1	* 1969	* 1217.7	* 40	* 1973	* 1216.3	* 83.33	*
* 5	* -1	* 1970	* 1217.7	* 41	* 1935	* 1216.3	* 85.42	*
* 5	* -1	* 1971	* 1217.1	* 42	* 1961	* 1216.1	* 87.50	*
* 5	* -1	* 1972	* 1218.1	* 43	* 1939	* 1216.1	* 89.58	*
* 5	* -1	* 1973	* 1216.3	* 44	* 1932	* 1216.1	* 91.67	*
* 6	* -1	* 1974	* 1218.0	* 45	* 1958	* 1215.7	* 93.75	*
* 5	* -1	* 1975	* 1218.6	* 46	* 1976	* 1215.5	* 95.83	*
* 5	* -1	* 1976	* 1215.5	* 47	* 1934	* 1215.4	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	9	-1	1930	*	1	1976	1206.1	2.08
*	8	-1	1931	*	2	1936	1206.4	4.17
*	9	-1	1932	*	3	1930	1209.2	6.25
*	9	-1	1933	*	4	1950	1209.3	8.33
*	9	-1	1934	*	5	1970	1209.5	10.42
*	9	-1	1935	*	6	1934	1210.1	12.50
*	9	-1	1936	*	7	1932	1210.6	14.58
*	9	-1	1937	*	8	1933	1211.8	16.67
*	7	-1	1938	*	9	1939	1212.1	18.75
*	9	-1	1939	*	10	1967	1213.4	20.83
*	8	-1	1940	*	11	1949	1214.4	22.92
*	8	-1	1941	*	12	1940	1214.5	25.00
*	9	-1	1942	*	13	1961	1214.8	27.08
*	8	-1	1943	*	14	1969	1214.8	29.17
*	9	-1	1944	*	15	1941	1214.9	31.25
*	8	-1	1945	*	16	1947	1214.9	33.33
*	8	-1	1946	*	17	1963	1215.0	35.42
*	8	-1	1947	*	18	1960	1215.0	37.50
*	9	-1	1948	*	19	1959	1215.0	39.58
*	9	-1	1949	*	20	1938	1215.0	41.67
*	8	-1	1950	*	21	1937	1215.1	43.75
*	8	-1	1951	*	22	1935	1215.1	45.83
*	6	-1	1952	*	23	1971	1215.1	47.92
*	9	-1	1953	*	24	1958	1215.1	50.00
*	8	-1	1954	*	25	1975	1215.2	52.08
*	9	-1	1955	*	26	1956	1215.3	54.17
*	9	-1	1956	*	27	1931	1215.3	56.25
*	8	-1	1957	*	28	1954	1215.3	58.33
*	8	-1	1958	*	29	1968	1215.3	60.42
*	9	-1	1959	*	30	1957	1215.4	62.50
*	9	-1	1960	*	31	1943	1215.4	64.58
*	9	-1	1961	*	32	1945	1215.4	66.67
*	9	-1	1962	*	33	1948	1215.5	68.75
*	8	-1	1963	*	34	1965	1215.5	70.83
*	7	-1	1964	*	35	1951	1215.5	72.92
*	8	-1	1965	*	36	1946	1215.5	75.00
*	9	-1	1966	*	37	1942	1215.6	77.08
*	8	-1	1967	*	38	1964	1215.6	79.17
*	8	-1	1968	*	39	1974	1215.6	81.25
*	8	-1	1969	*	40	1955	1215.7	83.33
*	9	-1	1970	*	41	1973	1215.7	85.42
*	8	-1	1971	*	42	1962	1215.8	87.50
*	9	-1	1972	*	43	1952	1215.9	89.58
*	9	-1	1973	*	44	1966	1216.1	91.67
*	8	-1	1974	*	45	1953	1216.2	93.75
*	9	-1	1975	*	46	1972	1216.4	95.83

* 9 -1 1976 1206.1 * 47 1944 1216.7 97.92 *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER YEAR	* ELEV, FT.	* WEIBULL PLOT POS	*
*	5	-1	1930	*	1	1950	1195.0	2.08
*	7	-1	1931	*	2	1965	1194.8	4.17
*	5	-1	1932	*	3	1943	1194.7	6.25
*	6	-1	1933	*	4	1944	1194.6	8.33
*	5	-1	1934	*	5	1966	1194.3	10.42
*	7	-1	1935	*	6	1938	1194.2	12.50
*	5	-1	1936	*	7	1952	1194.0	14.58
*	8	-1	1937	*	8	1947	1194.0	16.67
*	5	-1	1938	*	9	1975	1194.0	18.75
*	5	-1	1939	*	10	1974	1194.0	20.83
*	5	-1	1940	*	11	1972	1193.8	22.92

*	5	-1	1941	*	12	1969	1193.8	25.00
*	6	-1	1942	*	13	1946	1193.6	27.08
*	6	-1	1943	*	14	1945	1193.6	29.17
*	6	-1	1944	*	15	1941	1193.4	31.25
*	5	-1	1945	*	16	1942	1193.4	33.33
*	7	-1	1946	*	17	1948	1193.3	35.42
*	5	-1	1947	*	18	1954	1193.3	37.50
*	5	-1	1948	*	19	1971	1193.2	39.58
*	6	-1	1949	*	20	1953	1193.2	41.67
*	5	-1	1950	*	21	1951	1193.0	43.75
*	6	-1	1951	*	22	1970	1192.9	45.83
*	8	-1	1952	*	23	1968	1192.8	47.92
*	7	-1	1953	*	24	1973	1192.8	50.00
*	6	-1	1954	*	25	1962	1192.8	52.08
*	5	-1	1955	*	26	1956	1192.8	54.17
*	5	-1	1956	*	27	1967	1192.7	56.25
*	7	-1	1957	*	28	1957	1192.7	58.33
*	6	-1	1958	*	29	1960	1192.4	60.42
*	6	-1	1959	*	30	1939	1192.3	62.50
*	5	-1	1960	*	31	1937	1192.3	64.58
*	5	-1	1961	*	32	1930	1192.3	66.67
*	6	-1	1962	*	33	1949	1192.3	68.75
*	6	-1	1963	*	34	1964	1192.1	70.83
*	5	-1	1964	*	35	1963	1192.0	72.92
*	6	-1	1965	*	36	1959	1192.0	75.00
*	5	-1	1966	*	37	1955	1191.9	77.08
*	5	-1	1967	*	38	1976	1191.9	79.17
*	7	-1	1968	*	39	1935	1191.8	81.25
*	5	-1	1969	*	40	1936	1191.7	83.33
*	5	-1	1970	*	41	1933	1191.6	85.42
*	5	-1	1971	*	42	1931	1191.6	87.50
*	5	-1	1972	*	43	1940	1191.6	89.58
*	5	-1	1973	*	44	1958	1191.3	91.67
*	6	-1	1974	*	45	1961	1191.2	93.75
*	5	-1	1975	*	46	1932	1190.9	95.83
*	5	-1	1976	*	47	1934	1190.3	97.92

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

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*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
*                               *
* MON DAY  YEAR  ELEV,FT.  *  RANK  WATER  YEAR  ELEV,FT.  WEIBULL  *
*                               *
* 9  -1  1930  1190.2  *    1  1934  1189.6  2.08  *
* 9  -1  1931  1190.7  *    2  1932  1189.7  4.17  *
* 9  -1  1932  1189.7  *    3  1976  1190.0  6.25  *
* 9  -1  1933  1190.1  *    4  1936  1190.1  8.33  *
* 9  -1  1934  1189.6  *    5  1933  1190.1  10.42  *
* 9  -1  1935  1191.2  *    6  1930  1190.2  12.50  *
* 9  -1  1936  1190.1  *    7  1961  1190.5  14.58  *
* 9  -1  1937  1191.6  *    8  1940  1190.6  16.67  *
* 9  -1  1938  1191.6  *    9  1931  1190.7  18.75  *
* 9  -1  1939  1190.8  *   10  1939  1190.8  20.83  *
* 9  -1  1940  1190.6  *   11  1970  1190.9  22.92  *
* 9  -1  1941  1192.0  *   12  1958  1190.9  25.00  *
* 9  -1  1942  1192.4  *   13  1960  1191.1  27.08  *
* 9  -1  1943  1192.3  *   14  1959  1191.1  29.17  *
* 5  -1  1944  1192.7  *   15  1967  1191.1  31.25  *
* 8  -1  1945  1192.1  *   16  1969  1191.1  33.33  *
* 5  -1  1946  1192.3  *   17  1949  1191.2  35.42  *
* 9  -1  1947  1191.6  *   18  1963  1191.2  37.50  *
* 9  -1  1948  1191.5  *   19  1935  1191.2  39.58  *
* 9  -1  1949  1191.2  *   20  1971  1191.3  41.67  *
* 9  -1  1950  1191.5  *   21  1956  1191.3  43.75  *
* 9  -1  1951  1192.1  *   22  1955  1191.4  45.83  *
* 6  -1  1952  1192.8  *   23  1964  1191.5  47.92  *
* 9  -1  1953  1192.4  *   24  1954  1191.5  50.00  *
* 9  -1  1954  1191.5  *   25  1950  1191.5  52.08  *
* 9  -1  1955  1191.4  *   26  1962  1191.5  54.17  *
* 9  -1  1956  1191.3  *   27  1948  1191.5  56.25  *
* 9  -1  1957  1191.6  *   28  1947  1191.6  58.33  *
* 9  -1  1958  1190.9  *   29  1938  1191.6  60.42  *
* 9  -1  1959  1191.1  *   30  1968  1191.6  62.50  *
* 9  -1  1960  1191.1  *   31  1957  1191.6  64.58  *
* 9  -1  1961  1190.5  *   32  1937  1191.6  66.67  *
* 9  -1  1962  1191.5  *   33  1975  1191.9  68.75  *
* 9  -1  1963  1191.2  *   34  1966  1191.9  70.83  *
* 8  -1  1964  1191.5  *   35  1974  1191.9  72.92  *
* 9  -1  1965  1192.3  *   36  1941  1192.0  75.00  *
* 9  -1  1966  1191.9  *   37  1945  1192.1  77.08  *
* 9  -1  1967  1191.1  *   38  1951  1192.1  79.17  *
* 9  -1  1968  1191.6  *   39  1973  1192.1  81.25  *
* 9  -1  1969  1191.1  *   40  1965  1192.3  83.33  *
* 9  -1  1970  1190.9  *   41  1943  1192.3  85.42  *
* 9  -1  1971  1191.3  *   42  1946  1192.3  87.50  *
* 9  -1  1972  1192.9  *   43  1953  1192.4  89.58  *
* 9  -1  1973  1192.1  *   44  1942  1192.4  91.67  *
* 9  -1  1974  1191.9  *   45  1944  1192.7  93.75  *
* 9  -1  1975  1191.9  *   46  1952  1192.8  95.83  *
* 9  -1  1976  1190.0  *   47  1972  1192.9  97.92  *
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- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

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*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
* MON DAY YEAR FLOW,CFS * RANK YEAR FLOW,CFS WEIRULL *
* * * * * * * * * * * * * * * * * * * * * * * * * * * *
* 5 -1 1930 4275. * 1 1950 23595. 2.08 *
* 6 -1 1931 2810. * 2 1975 21177. 4.17 *
* 5 -1 1932 3688. * 3 1969 19236. 6.25 *
* 5 -1 1933 3787. * 4 1948 16001. 8.33 *
* 4 -1 1934 2367. * 5 1965 15605. 10.42 *
* 5 -1 1935 3638. * 6 1966 15554. 12.50 *
* 5 -1 1936 5955. * 7 1953 15215. 14.58 *
* 5 -1 1937 5034. * 8 1971 14841. 16.67 *
* 5 -1 1938 13814. * 9 1952 14628. 18.75 *
* 4 -1 1939 6245. * 10 1972 14529. 20.83 *
* 5 -1 1940 4466. * 11 1954 14140. 22.92 *
* 4 -1 1941 12336. * 12 1938 13814. 25.00 *
* 5 -1 1942 5783. * 13 1944 13345. 27.08 *
* 6 -1 1943 12893. * 14 1943 12893. 29.17 *
* 6 -1 1944 13345. * 15 1974 12868. 31.25 *
* 3 -1 1945 12519. * 16 1945 12519. 33.33 *
* 4 -1 1946 6023. * 17 1941 12336. 35.42 *
* 4 -1 1947 6890. * 18 1956 12002. 37.50 *
* 4 -1 1948 16001. * 19 1970 10566. 39.58 *
* 7 -1 1949 4446. * 20 1967 10335. 41.67 *
* 5 -1 1950 23595. * 21 1951 8377. 43.75 *
* 4 -1 1951 8377. * 22 1964 7025. 45.83 *
* 4 -1 1952 14628. * 23 1947 6890. 47.92 *
* 8 -1 1953 15215. * 24 1976 6569. 50.00 *
* 5 -1 1954 14140. * 25 1960 6471. 52.08 *
* 4 -1 1955 5605. * 26 1962 6366. 54.17 *
* 4 -1 1956 12002. * 27 1939 6245. 56.25 *
* 4 -1 1957 5860. * 28 1946 6023. 58.33 *
* 7 -1 1958 2419. * 29 1936 5955. 60.42 *
* 6 -1 1959 4255. * 30 1957 5860. 62.50 *
* 5 -1 1960 6471. * 31 1942 5783. 64.58 *
* 5 -1 1961 4080. * 32 1973 5644. 66.67 *
* 5 -1 1962 6366. * 33 1955 5605. 68.75 *
* 4 -1 1963 4870. * 34 1937 5034. 70.83 *
* 5 -1 1964 7025. * 35 1963 4870. 72.92 *
* 4 -1 1965 15605. * 36 1968 4869. 75.00 *
* 4 -1 1966 15554. * 37 1940 4466. 77.08 *
* 4 -1 1967 10335. * 38 1949 4446. 79.17 *
* 6 -1 1968 4869. * 39 1930 4275. 81.25 *
* 4 -1 1969 19236. * 40 1959 4255. 83.33 *
* 4 -1 1970 10566. * 41 1961 4080. 85.42 *
* 4 -1 1971 14841. * 42 1933 3787. 87.50 *
* 4 -1 1972 14529. * 43 1932 3688. 89.58 *
* 10 -1 1973 5644. * 44 1935 3638. 91.67 *
* 4 -1 1974 12868. * 45 1931 2810. 93.75 *

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* 5 -1 1975 21177. * 46 1958 2419. 95.83 *
* 4 -1 1976 6569. * 47 1934 2367. 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANOKA FLOW

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIBULL FLOT POS	* *
* 8	* -1	* 1930	* 783.	* 1	* 1934	* 547.	* 2.08	* *
* 9	* -1	* 1931	* 1319.	* 2	* 1933	* 743.	* 4.17	* *
* 10	* -1	* 1932	* 1043.	* 3	* 1930	* 793.	* 6.25	* *
* 9	* -1	* 1933	* 743.	* 4	* 1935	* 792.	* 8.33	* *
* 8	* -1	* 1934	* 547.	* 5	* 1936	* 888.	* 10.42	* *
* 1	* -1	* 1935	* 792.	* 6	* 1976	* 1004.	* 12.50	* *
* 7	* -1	* 1936	* 888.	* 7	* 1937	* 1004.	* 14.58	* *
* 2	* -1	* 1937	* 1004.	* 8	* 1932	* 1043.	* 16.67	* *
* 2	* -1	* 1938	* 1355.	* 9	* 1940	* 1123.	* 18.75	* *
* 12	* -1	* 1939	* 1614.	* 10	* 1931	* 1319.	* 20.83	* *

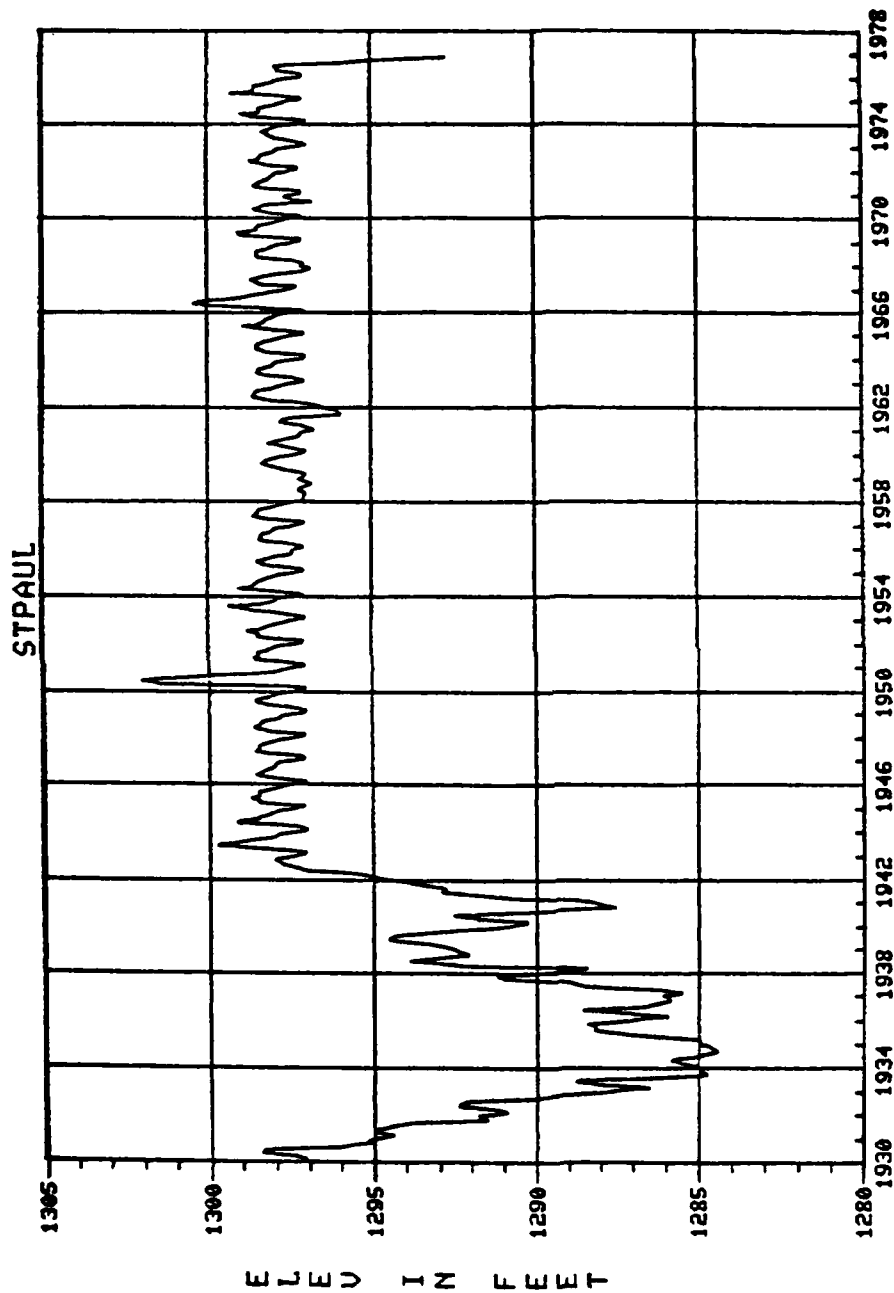
* 1	* -1	* 1940	* 1123.	* 11	* 1938	* 1355.	* 22.92	* *
* 2	* -1	* 1941	* 2406.	* 12	* 1961	* 1499.	* 25.00	* *
* 1	* -1	* 1942	* 2557.	* 13	* 1939	* 1614.	* 27.08	* *
* 12	* -1	* 1943	* 3205.	* 14	* 1959	* 1674.	* 29.17	* *
* 1	* -1	* 1944	* 3044.	* 15	* 1962	* 1744.	* 31.25	* *
* 1	* -1	* 1945	* 3380.	* 16	* 1960	* 1748.	* 33.33	* *
* 2	* -1	* 1946	* 3312.	* 17	* 1968	* 1937.	* 35.42	* *
* 12	* -1	* 1947	* 3717.	* 18	* 1970	* 2017.	* 37.50	* *
* 10	* -1	* 1948	* 2189.	* 19	* 1964	* 2022.	* 39.58	* *
* 1	* -1	* 1949	* 2291.	* 20	* 1957	* 2135.	* 41.67	* *
* 2	* -1	* 1950	* 2560.	* 21	* 1967	* 2144.	* 43.75	* *
* 1	* -1	* 1951	* 3054.	* 22	* 1948	* 2189.	* 45.83	* *
* 12	* -1	* 1952	* 3306.	* 23	* 1963	* 2263.	* 47.92	* *
* 1	* -1	* 1953	* 3347.	* 24	* 1958	* 2266.	* 50.00	* *
* 12	* -1	* 1954	* 3068.	* 25	* 1949	* 2291.	* 52.08	* *
* 1	* -1	* 1955	* 2765.	* 26	* 1956	* 2335.	* 54.17	* *
* 10	* -1	* 1956	* 2335.	* 27	* 1941	* 2406.	* 56.25	* *
* 2	* -1	* 1957	* 2135.	* 28	* 1965	* 2411.	* 58.33	* *
* 12	* -1	* 1958	* 2266.	* 29	* 1942	* 2557.	* 60.42	* *
* 2	* -1	* 1959	* 1674.	* 30	* 1950	* 2560.	* 62.50	* *
* 12	* -1	* 1960	* 1748.	* 31	* 1955	* 2765.	* 64.58	* *
* 1	* -1	* 1961	* 1499.	* 32	* 1971	* 2892.	* 66.67	* *
* 2	* -1	* 1962	* 1744.	* 33	* 1944	* 3044.	* 68.75	* *
* 12	* -1	* 1963	* 2263.	* 34	* 1951	* 3054.	* 70.83	* *
* 2	* -1	* 1964	* 2022.	* 35	* 1954	* 3068.	* 72.92	* *
* 2	* -1	* 1965	* 2411.	* 36	* 1943	* 3205.	* 75.00	* *
* 12	* -1	* 1966	* 3698.	* 37	* 1952	* 3306.	* 77.08	* *
* 12	* -1	* 1967	* 2144.	* 38	* 1946	* 3312.	* 79.17	* *
* 1	* -1	* 1968	* 1937.	* 39	* 1953	* 3347.	* 81.25	* *
* 9	* -1	* 1969	* 3413.	* 40	* 1945	* 3380.	* 83.33	* *
* 9	* -1	* 1970	* 2017.	* 41	* 1969	* 3413.	* 85.42	* *
* 1	* -1	* 1971	* 2892.	* 42	* 1974	* 3502.	* 87.50	* *
* 12	* -1	* 1972	* 5741.	* 43	* 1966	* 3698.	* 89.58	* *
* 2	* -1	* 1973	* 4689.	* 44	* 1947	* 3717.	* 91.67	* *
* 10	* -1	* 1974	* 3502.	* 45	* 1975	* 3871.	* 93.75	* *
* 1	* -1	* 1975	* 3871.	* 46	* 1973	* 4689.	* 95.83	* *
* 10	* -1	* 1976	* 1004.	* 47	* 1972	* 5741.	* 97.92	* *

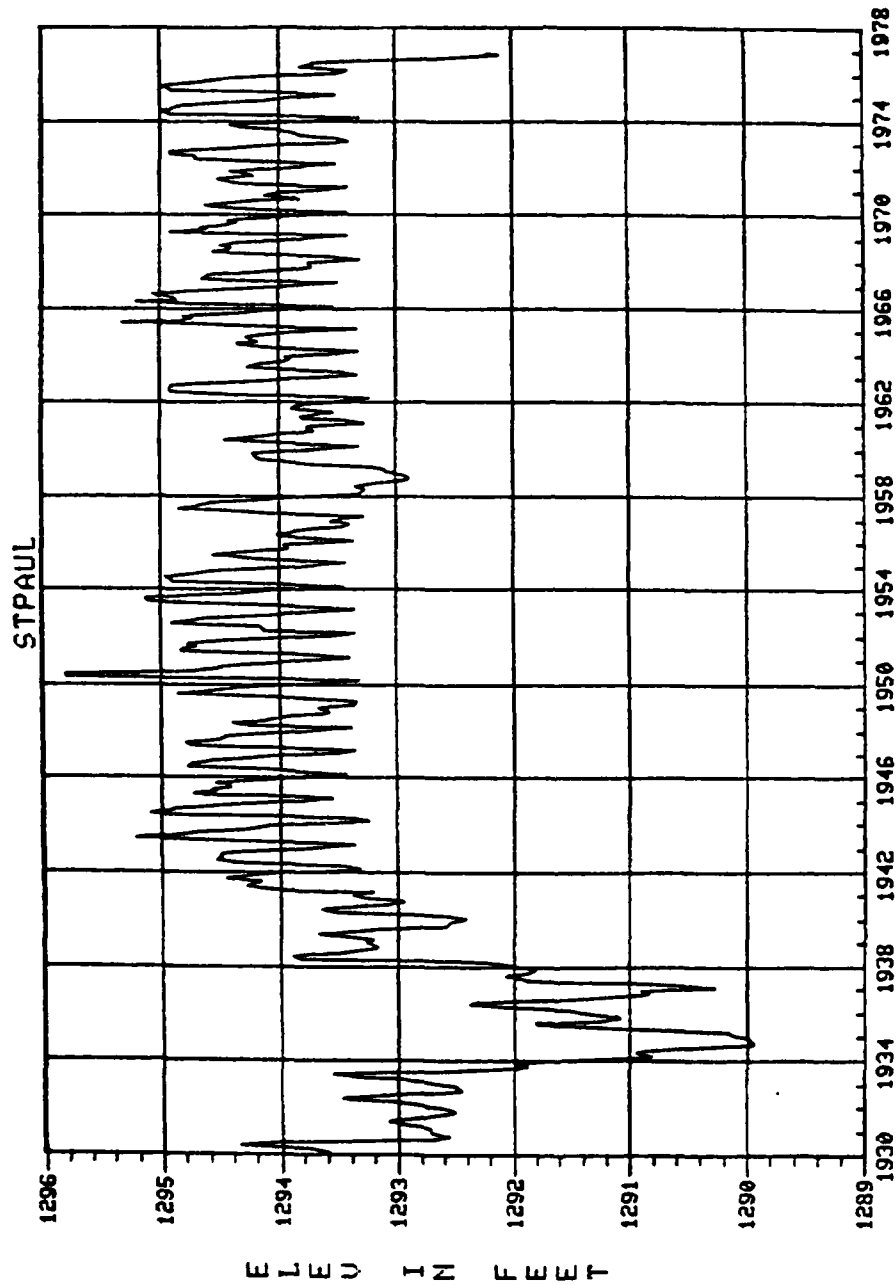
APPENDIX I

PLAN 5

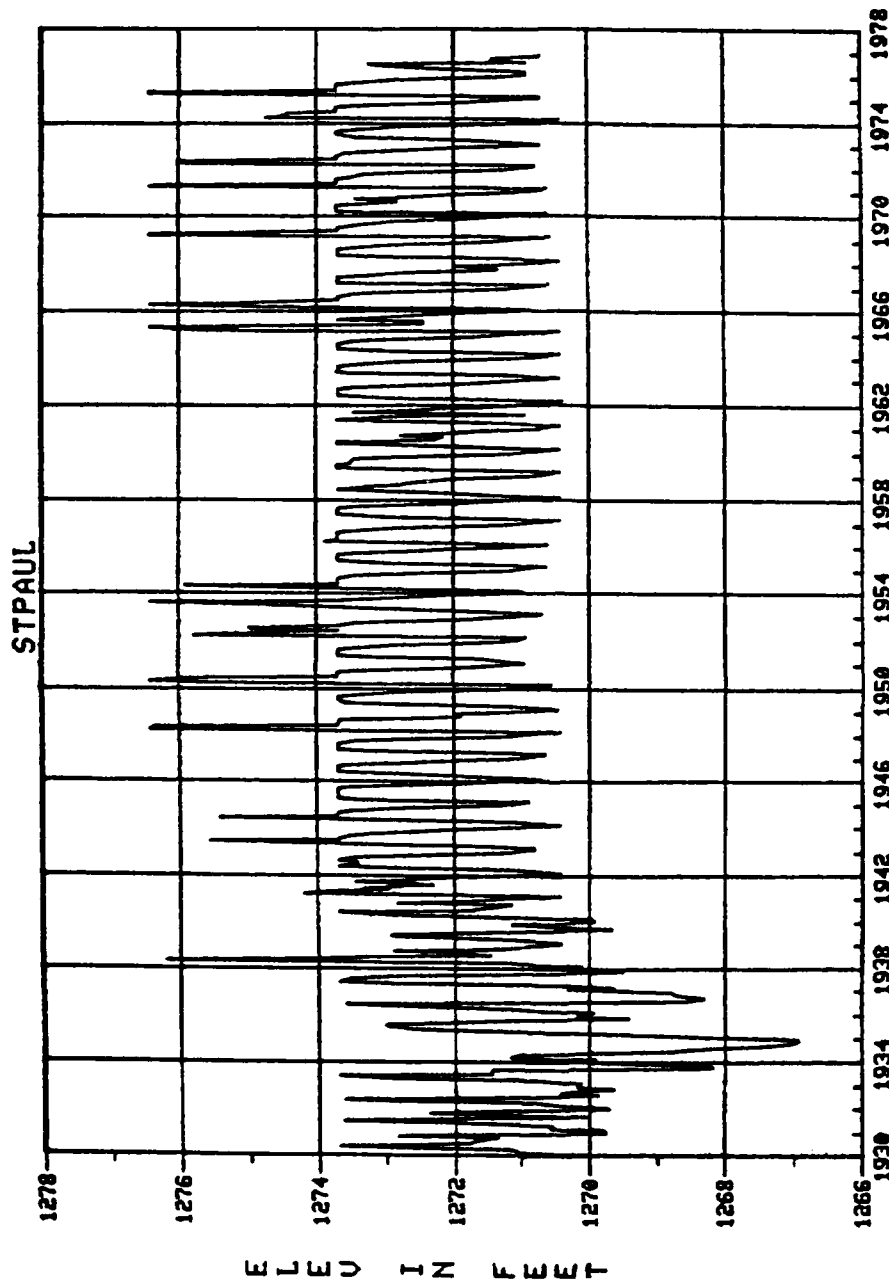
TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.

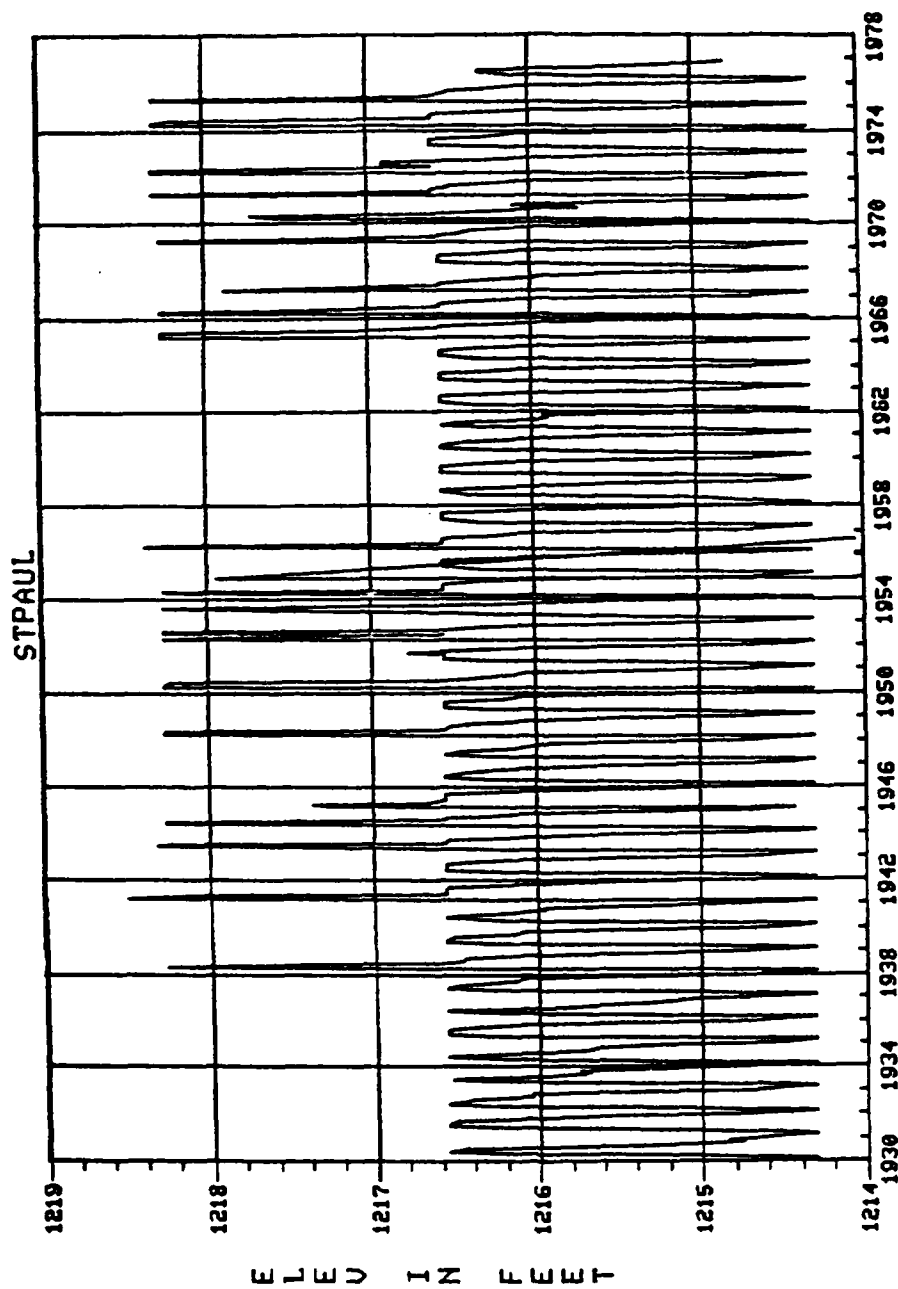




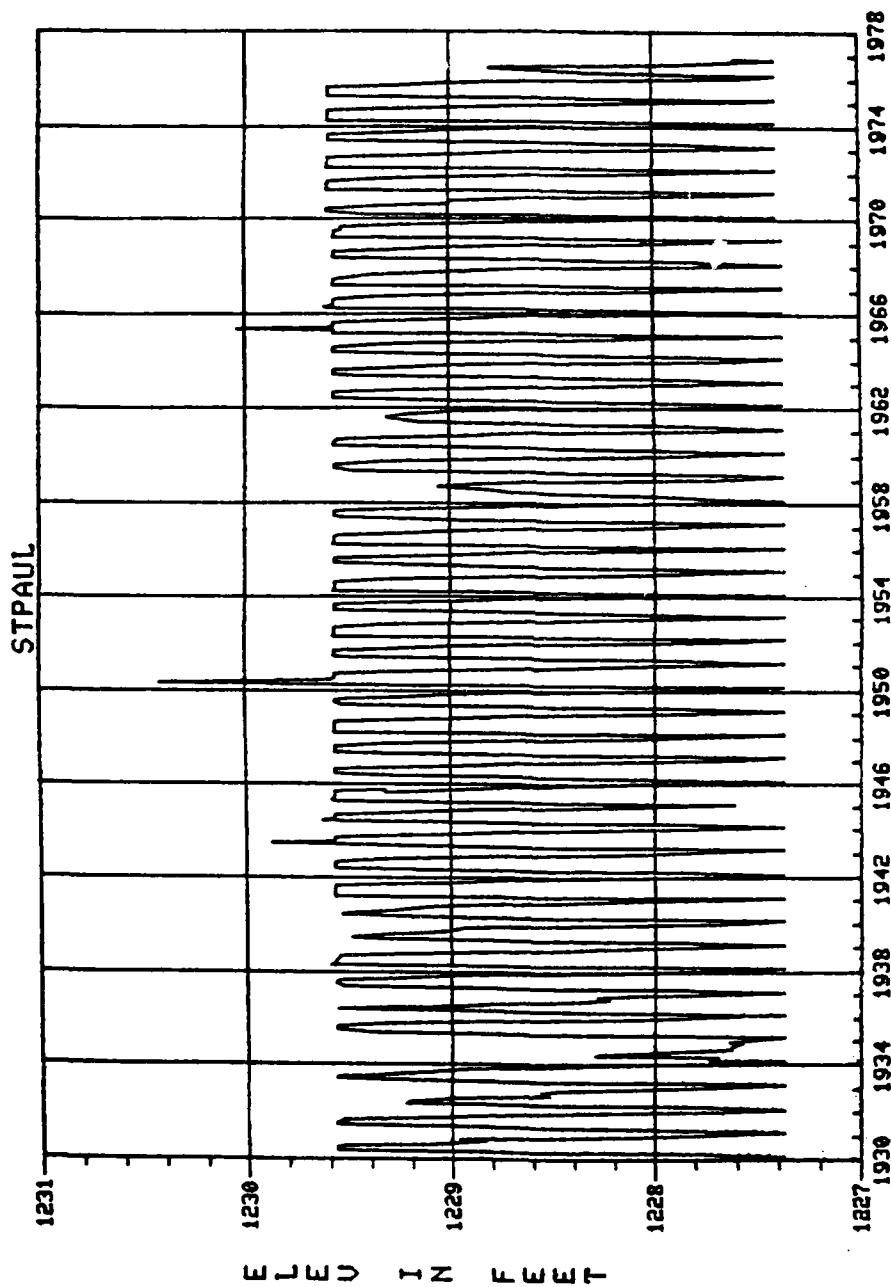
— LEECH RES. PLANSR ELEV



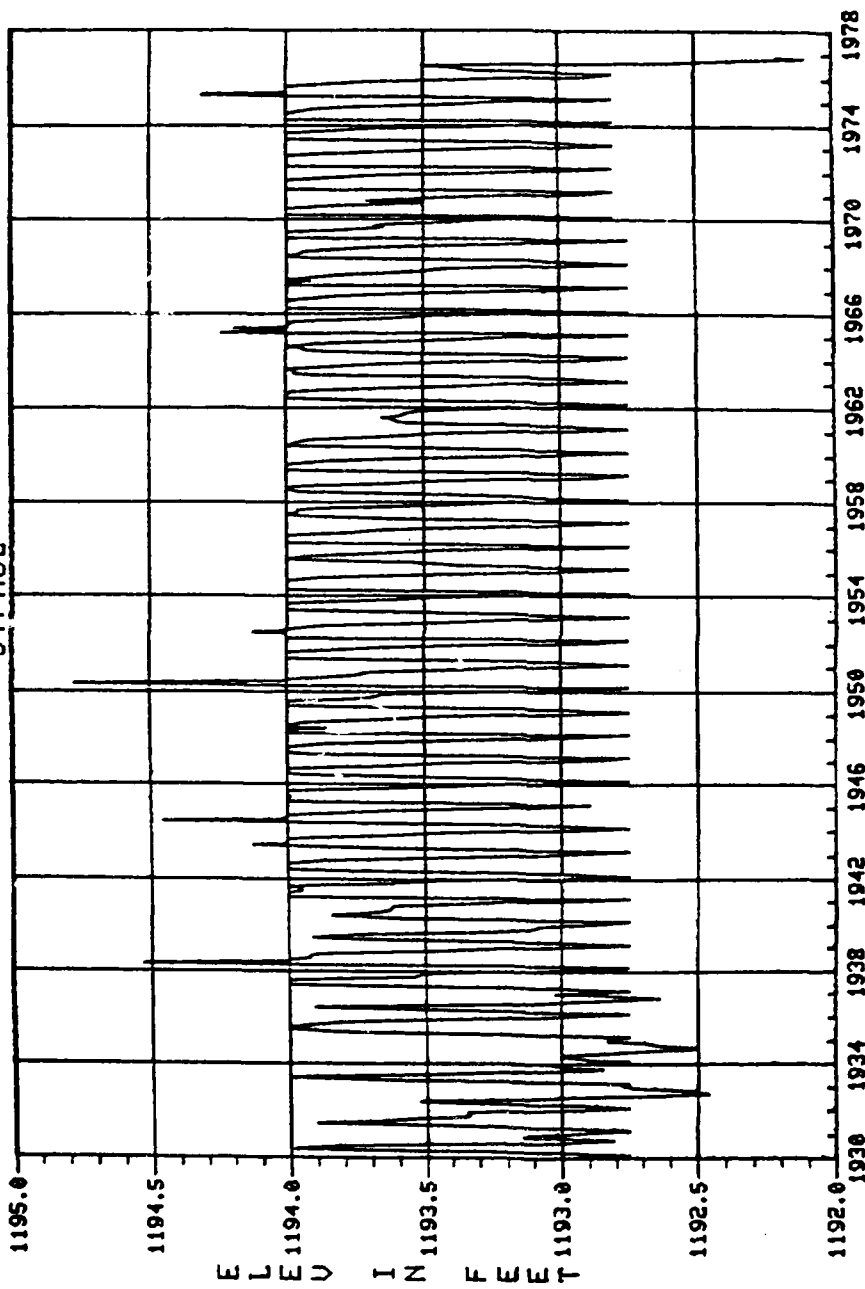
POKEGAMA RES. PLANSR ELEV



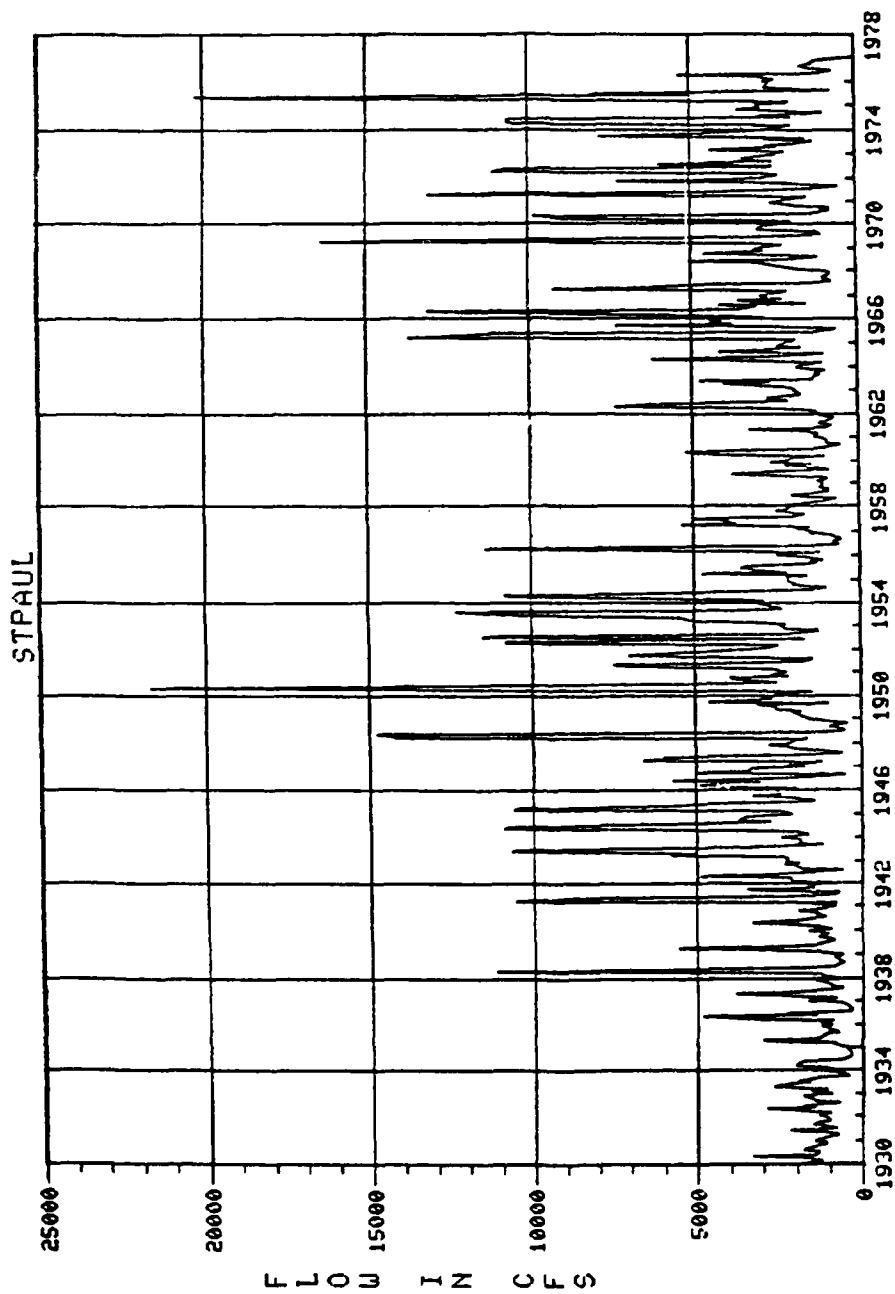
____ SANDY RES. PLANSR ELEV



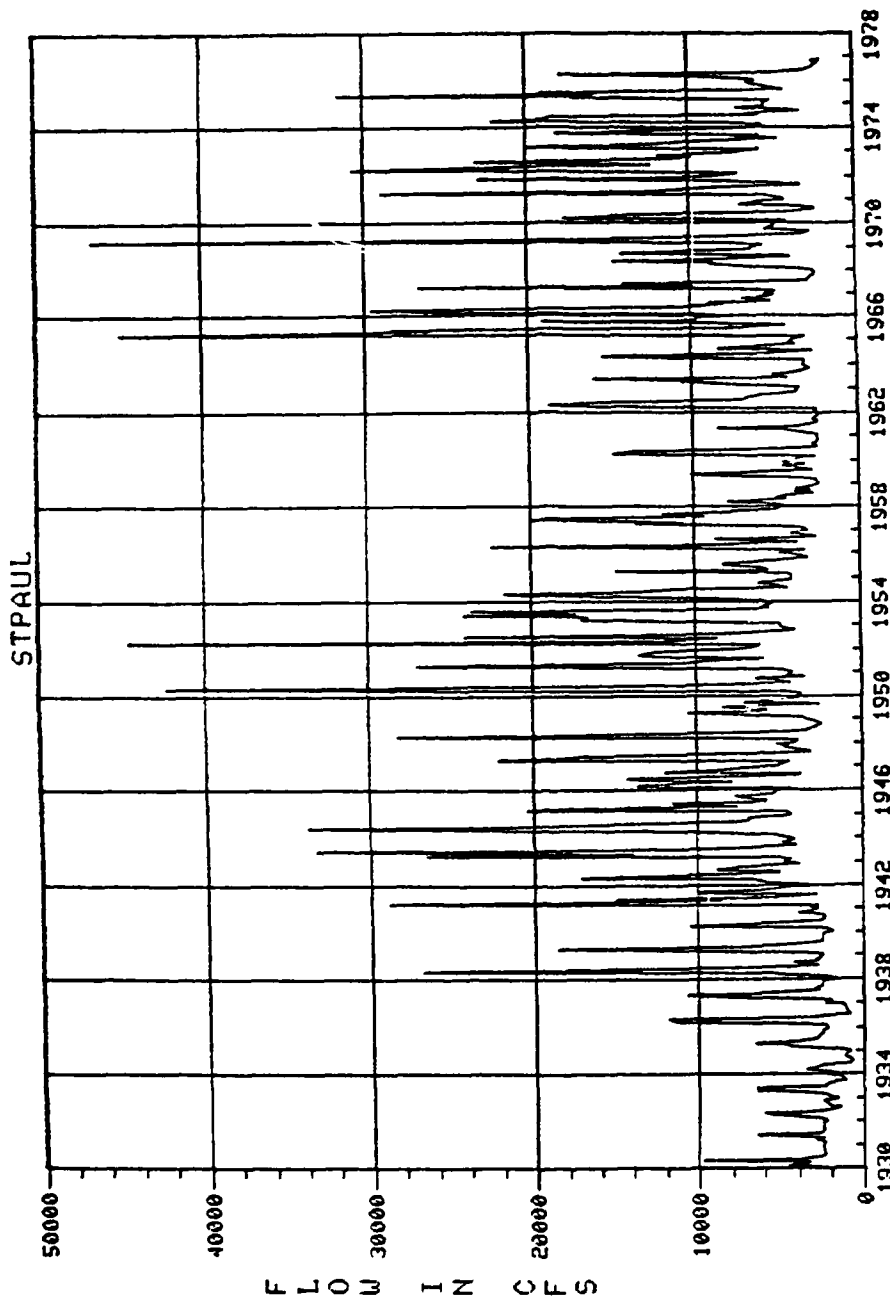
STPAUL



— GULL RES. PLANSR ELEV



— AITKIN PLANSR FLOW-REG



- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	* *
* 6	* -1	* 1930	* 1298.4	* 1	* 1950	* 1302.0	* 2.08	* *
* 5	* -1	* 1931	* 1294.9	* 2	* 1966	* 1300.4	* 4.17	* *
* 7	* -1	* 1932	* 1292.4	* 3	* 1943	* 1299.7	* 6.25	* *
* 6	* -1	* 1933	* 1288.7	* 4	* 1953	* 1299.3	* 8.33	* *
* 5	* -1	* 1934	* 1285.8	* 5	* 1975	* 1299.2	* 10.42	* *
* 8	* -1	* 1935	* 1288.2	* 6	* 1944	* 1299.1	* 12.50	* *
* 6	* -1	* 1936	* 1288.5	* 7	* 1954	* 1299.0	* 14.58	* *
* 9	* -1	* 1937	* 1289.8	* 8	* 1969	* 1299.0	* 16.67	* *
* 7	* -1	* 1938	* 1293.8	* 9	* 1974	* 1298.9	* 18.75	* *
* 7	* -1	* 1939	* 1294.5	* 10	* 1965	* 1298.9	* 20.83	* *
* 7	* -1	* 1940	* 1292.5	* 11	* 1952	* 1298.7	* 22.92	* *
* 9	* -1	* 1941	* 1292.9	* 12	* 1945	* 1298.7	* 25.00	* *
* 9	* -1	* 1942	* 1297.7	* 13	* 1967	* 1298.6	* 27.08	* *
* 6	* -1	* 1943	* 1299.7	* 14	* 1948	* 1298.6	* 29.17	* *
* 6	* -1	* 1944	* 1299.1	* 15	* 1951	* 1298.6	* 31.25	* *
* 6	* -1	* 1945	* 1298.7	* 16	* 1962	* 1298.6	* 33.33	* *
* 6	* -1	* 1946	* 1298.5	* 17	* 1972	* 1298.6	* 35.42	* *
* 6	* -1	* 1947	* 1298.5	* 18	* 1949	* 1298.5	* 37.50	* *
* 6	* -1	* 1948	* 1298.6	* 19	* 1957	* 1298.5	* 39.58	* *
* 8	* -1	* 1949	* 1298.5	* 20	* 1971	* 1298.5	* 41.67	* *
* 6	* -1	* 1950	* 1302.0	* 21	* 1970	* 1298.5	* 43.75	* *
* 6	* -1	* 1951	* 1298.6	* 22	* 1946	* 1298.5	* 45.83	* *
* 8	* -1	* 1952	* 1298.7	* 23	* 1947	* 1298.5	* 47.92	* *
* 8	* -1	* 1953	* 1299.3	* 24	* 1955	* 1298.4	* 50.00	* *
* 5	* -1	* 1954	* 1299.0	* 25	* 1963	* 1298.4	* 52.08	* *
* 6	* -1	* 1955	* 1298.4	* 26	* 1964	* 1298.4	* 54.17	* *
* 6	* -1	* 1956	* 1298.4	* 27	* 1968	* 1298.4	* 56.25	* *
* 6	* -1	* 1957	* 1298.5	* 28	* 1930	* 1298.4	* 58.33	* *
* 7	* -1	* 1958	* 1297.2	* 29	* 1956	* 1298.4	* 60.42	* *
* 9	* -1	* 1959	* 1298.3	* 30	* 1959	* 1298.3	* 62.50	* *
* 7	* -1	* 1960	* 1298.1	* 31	* 1973	* 1298.3	* 64.58	* *
* 6	* -1	* 1961	* 1297.7	* 32	* 1960	* 1298.1	* 66.67	* *
* 7	* -1	* 1962	* 1298.6	* 33	* 1976	* 1297.8	* 68.75	* *
* 7	* -1	* 1963	* 1298.4	* 34	* 1961	* 1297.7	* 70.83	* *
* 6	* -1	* 1964	* 1298.4	* 35	* 1942	* 1297.7	* 72.92	* *
* 6	* -1	* 1965	* 1298.9	* 36	* 1958	* 1297.2	* 75.00	* *
* 6	* -1	* 1966	* 1300.4	* 37	* 1931	* 1294.9	* 77.08	* *
* 6	* -1	* 1967	* 1298.6	* 38	* 1939	* 1294.5	* 79.17	* *
* 6	* -1	* 1968	* 1298.4	* 39	* 1938	* 1293.8	* 81.25	* *

* 6	* -1	* 1969	* 1299.0	* 40	* 1941	* 1292.9	* 83.33	* *
* 6	* -1	* 1970	* 1298.5	* 41	* 1940	* 1292.5	* 85.42	* *
* 6	* -1	* 1971	* 1298.5	* 42	* 1932	* 1292.4	* 87.50	* *
* 6	* -1	* 1972	* 1298.6	* 43	* 1937	* 1289.8	* 89.58	* *
* 9	* -1	* 1973	* 1298.3	* 44	* 1933	* 1288.7	* 91.67	* *
* 6	* -1	* 1974	* 1298.9	* 45	* 1936	* 1288.5	* 93.75	* *
* 5	* -1	* 1975	* 1299.2	* 46	* 1935	* 1288.2	* 95.83	* *
* 5	* -1	* 1976	* 1297.8	* 47	* 1934	* 1285.8	* 97.92	* *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1296.0	* 1	* 1934	* 1284.5	* 2.08	*
* 9	* -1	* 1931	* 1293.8	* 2	* 1933	* 1284.8	* 4.17	*
* 9	* -1	* 1932	* 1291.3	* 3	* 1935	* 1286.2	* 6.25	*
* 9	* -1	* 1933	* 1284.8	* 4	* 1936	* 1286.3	* 8.33	*
* 9	* -1	* 1934	* 1284.5	* 5	* 1937	* 1287.5	* 10.42	*
* 5	* -1	* 1935	* 1286.2	* 6	* 1940	* 1290.1	* 12.50	*
* 9	* -1	* 1936	* 1286.3	* 7	* 1932	* 1291.3	* 14.58	*
* 5	* -1	* 1937	* 1287.5	* 8	* 1941	* 1291.7	* 16.67	*
* 5	* -1	* 1938	* 1292.3	* 9	* 1938	* 1292.3	* 18.75	*
* 5	* -1	* 1939	* 1293.9	* 10	* 1931	* 1293.8	* 20.83	*
* 9	* -1	* 1940	* 1290.1	* 11	* 1939	* 1293.9	* 22.92	*
* 5	* -1	* 1941	* 1291.7	* 12	* 1930	* 1296.0	* 25.00	*
* 5	* -1	* 1942	* 1296.2	* 13	* 1976	* 1296.1	* 27.08	*
* 5	* -1	* 1943	* 1298.1	* 14	* 1942	* 1296.2	* 29.17	*
* 5	* -1	* 1944	* 1297.9	* 15	* 1961	* 1296.4	* 31.25	*
* 5	* -1	* 1945	* 1298.4	* 16	* 1958	* 1297.0	* 33.33	*

* 9	* -1	* 1946	* 1298.0	* 17	* 1959	* 1297.3	* 35.42	*
* 5	* -1	* 1947	* 1298.3	* 18	* 1970	* 1297.3	* 37.50	*
* 9	* -1	* 1948	* 1298.3	* 19	* 1960	* 1297.5	* 39.58	*
* 5	* -1	* 1949	* 1297.6	* 20	* 1949	* 1297.6	* 41.67	*
* 9	* -1	* 1950	* 1299.6	* 21	* 1973	* 1297.6	* 43.75	*
* 7	* -1	* 1951	* 1298.4	* 22	* 1967	* 1297.8	* 45.83	*
* 9	* -1	* 1952	* 1298.4	* 23	* 1955	* 1297.9	* 47.92	*
* 5	* -1	* 1953	* 1297.9	* 24	* 1953	* 1297.9	* 50.00	*
* 9	* -1	* 1954	* 1298.4	* 25	* 1944	* 1297.9	* 52.08	*
* 9	* -1	* 1955	* 1297.9	* 26	* 1963	* 1298.0	* 54.17	*
* 5	* -1	* 1956	* 1298.2	* 27	* 1962	* 1298.0	* 56.25	*
* 5	* -1	* 1957	* 1298.2	* 28	* 1968	* 1298.0	* 58.33	*
* 5	* -1	* 1958	* 1297.0	* 29	* 1946	* 1298.0	* 60.42	*
* 5	* -1	* 1959	* 1297.3	* 30	* 1971	* 1298.1	* 62.50	*
* 9	* -1	* 1960	* 1297.5	* 31	* 1964	* 1298.1	* 64.58	*
* 9	* -1	* 1961	* 1296.4	* 32	* 1943	* 1298.1	* 66.67	*
* 5	* -1	* 1962	* 1298.0	* 33	* 1965	* 1298.2	* 68.75	*
* 5	* -1	* 1963	* 1298.0	* 34	* 1957	* 1298.2	* 70.83	*
* 5	* -1	* 1964	* 1298.1	* 35	* 1956	* 1298.2	* 72.92	*
* 9	* -1	* 1965	* 1298.2	* 36	* 1947	* 1298.3	* 75.00	*
* 9	* -1	* 1966	* 1299.0	* 37	* 1948	* 1298.3	* 77.08	*
* 9	* -1	* 1967	* 1297.8	* 38	* 1972	* 1298.3	* 79.17	*
* 5	* -1	* 1968	* 1298.0	* 39	* 1954	* 1298.4	* 81.25	*
* 8	* -1	* 1969	* 1298.4	* 40	* 1952	* 1298.4	* 83.33	*
* 9	* -1	* 1970	* 1297.3	* 41	* 1969	* 1298.4	* 85.42	*
* 9	* -1	* 1971	* 1298.1	* 42	* 1945	* 1298.4	* 87.50	*
* 9	* -1	* 1972	* 1298.3	* 43	* 1951	* 1298.4	* 89.58	*
* 5	* -1	* 1973	* 1297.6	* 44	* 1974	* 1298.4	* 91.67	*
* 7	* -1	* 1974	* 1298.4	* 45	* 1975	* 1298.5	* 93.75	*
* 9	* -1	* 1975	* 1298.5	* 46	* 1966	* 1299.0	* 95.83	*
* 9	* -1	* 1976	* 1296.1	* 47	* 1950	* 1299.6	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	6	-1	1930	*	1	1950	1295.8	2.08
*	6	-1	1931	*	2	1965	1295.3	4.17
*	6	-1	1932	*	3	1943	1295.2	6.25
*	6	-1	1933	*	4	1966	1295.2	8.33
*	5	-1	1934	*	5	1953	1295.1	10.42
*	8	-1	1935	*	6	1944	1295.1	12.50
*	5	-1	1936	*	7	1974	1295.0	14.58
*	8	-1	1937	*	8	1975	1295.0	16.67
*	6	-1	1938	*	9	1954	1294.9	18.75
*	6	-1	1939	*	10	1962	1294.9	20.83
*	6	-1	1940	*	11	1952	1294.9	22.92
*	9	-1	1941	*	12	1969	1294.9	25.00
*	7	-1	1942	*	13	1972	1294.9	27.08
*	6	-1	1943	*	14	1949	1294.9	29.17
*	7	-1	1944	*	15	1957	1294.8	31.25
*	5	-1	1945	*	16	1951	1294.8	33.33
*	7	-1	1946	*	17	1947	1294.8	35.42
*	7	-1	1947	*	18	1946	1294.8	37.50
*	5	-1	1948	*	19	1945	1294.7	39.58
*	8	-1	1949	*	20	1967	1294.6	41.67
*	6	-1	1950	*	21	1970	1294.6	43.75
*	6	-1	1951	*	22	1955	1294.6	45.83
*	8	-1	1952	*	23	1968	1294.5	47.92
*	8	-1	1953	*	24	1942	1294.5	50.00
*	7	-1	1954	*	25	1971	1294.5	52.08
*	7	-1	1955	*	26	1960	1294.4	54.17
*	6	-1	1956	*	27	1948	1294.4	56.25
*	7	-1	1957	*	28	1930	1294.3	58.33
*	7	-1	1958	*	29	1964	1294.3	60.42
*	9	-1	1959	*	30	1941	1294.3	62.50
*	6	-1	1960	*	31	1963	1294.3	64.58
*	6	-1	1961	*	32	1959	1294.2	66.67
*	7	-1	1962	*	33	1956	1294.0	68.75
*	7	-1	1963	*	34	1973	1294.0	70.83
*	7	-1	1964	*	35	1938	1293.9	72.92
*	6	-1	1965	*	36	1961	1293.8	75.00
*	5	-1	1966	*	37	1976	1293.8	77.08
*	5	-1	1967	*	38	1939	1293.7	79.17
*	7	-1	1968	*	39	1940	1293.6	81.25
*	5	-1	1969	*	40	1933	1293.5	83.33
*	6	-1	1970	*	41	1932	1293.5	85.42
*	7	-1	1971	*	42	1958	1293.3	87.50

*	9	-1	1972	*	43	1931	1293.1	89.58
*	9	-1	1973	*	44	1936	1292.4	91.67
*	6	-1	1974	*	45	1937	1292.0	93.75
*	7	-1	1975	*	46	1935	1291.8	95.83
*	5	-1	1976	*	47	1934	1290.9	97.92

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	* *
* 9	* -1	* 1930	* 1292.7	* 1	* 1934	* 1289.9	* 2.08	* *
* 9	* -1	* 1931	* 1292.7	* 2	* 1935	* 1290.9	* 4.17	* *
* 9	* -1	* 1932	* 1292.6	* 3	* 1936	* 1291.1	* 6.25	* *
* 9	* -1	* 1933	* 1292.0	* 4	* 1937	* 1291.6	* 8.33	* *
* 9	* -1	* 1934	* 1289.9	* 5	* 1933	* 1292.0	* 10.42	* *
* 5	* -1	* 1935	* 1290.9	* 6	* 1932	* 1292.6	* 12.50	* *
* 9	* -1	* 1936	* 1291.1	* 7	* 1931	* 1292.7	* 14.58	* *
* 5	* -1	* 1937	* 1291.6	* 8	* 1930	* 1292.7	* 16.67	* *
* 9	* -1	* 1938	* 1293.3	* 9	* 1976	* 1292.7	* 18.75	* *
* 9	* -1	* 1939	* 1292.9	* 10	* 1939	* 1292.9	* 20.83	* *
* 9	* -1	* 1940	* 1293.1	* 11	* 1958	* 1293.0	* 22.92	* *
* 8	* -1	* 1941	* 1294.1	* 12	* 1940	* 1293.1	* 25.00	* *
* 5	* -1	* 1942	* 1293.8	* 13	* 1938	* 1293.3	* 27.08	* *
* 5	* -1	* 1943	* 1294.2	* 14	* 1959	* 1293.4	* 29.17	* *
* 5	* -1	* 1944	* 1293.9	* 15	* 1949	* 1293.5	* 31.25	* *
* 8	* -1	* 1945	* 1294.4	* 16	* 1961	* 1293.5	* 33.33	* *
* 5	* -1	* 1946	* 1294.1	* 17	* 1956	* 1293.7	* 35.42	* *
* 5	* -1	* 1947	* 1294.4	* 18	* 1973	* 1293.7	* 37.50	* *
* 9	* -1	* 1948	* 1293.9	* 19	* 1963	* 1293.7	* 39.58	* *

* 5	* -1	* 1949	* 1293.5	* 20	* 1970	* 1293.8	* 41.67	* *
* 9	* -1	* 1950	* 1294.5	* 21	* 1942	* 1293.8	* 43.75	* *
* 5	* -1	* 1951	* 1294.4	* 22	* 1948	* 1293.9	* 45.83	* *
* 5	* -1	* 1952	* 1294.1	* 23	* 1944	* 1293.9	* 47.92	* *
* 5	* -1	* 1953	* 1294.2	* 24	* 1967	* 1293.9	* 50.00	* *
* 9	* -1	* 1954	* 1294.7	* 25	* 1968	* 1294.0	* 52.08	* *
* 5	* -1	* 1955	* 1294.1	* 26	* 1960	* 1294.0	* 54.17	* *
* 9	* -1	* 1956	* 1293.7	* 27	* 1964	* 1294.0	* 56.25	* *
* 5	* -1	* 1957	* 1294.1	* 28	* 1946	* 1294.1	* 58.33	* *
* 9	* -1	* 1958	* 1293.0	* 29	* 1957	* 1294.1	* 60.42	* *
* 5	* -1	* 1959	* 1293.4	* 30	* 1955	* 1294.1	* 62.50	* *
* 9	* -1	* 1960	* 1294.0	* 31	* 1952	* 1294.1	* 64.58	* *
* 8	* -1	* 1961	* 1293.5	* 32	* 1941	* 1294.1	* 66.67	* *
* 5	* -1	* 1962	* 1294.4	* 33	* 1971	* 1294.2	* 68.75	* *
* 5	* -1	* 1963	* 1293.7	* 34	* 1953	* 1294.2	* 70.83	* *
* 5	* -1	* 1964	* 1294.0	* 35	* 1943	* 1294.2	* 72.92	* *
* 5	* -1	* 1965	* 1294.6	* 36	* 1969	* 1294.3	* 75.00	* *
* 6	* -1	* 1966	* 1294.9	* 37	* 1962	* 1294.4	* 77.08	* *
* 9	* -1	* 1967	* 1293.9	* 38	* 1947	* 1294.4	* 79.17	* *
* 5	* -1	* 1968	* 1294.0	* 39	* 1945	* 1294.4	* 81.25	* *
* 9	* -1	* 1969	* 1294.3	* 40	* 1951	* 1294.4	* 83.33	* *
* 9	* -1	* 1970	* 1293.8	* 41	* 1950	* 1294.5	* 85.42	* *
* 9	* -1	* 1971	* 1294.2	* 42	* 1965	* 1294.6	* 87.50	* *
* 6	* -1	* 1972	* 1294.7	* 43	* 1972	* 1294.7	* 89.58	* *
* 5	* -1	* 1973	* 1293.7	* 44	* 1954	* 1294.7	* 91.67	* *
* 9	* -1	* 1974	* 1294.8	* 45	* 1975	* 1294.7	* 93.75	* *
* 9	* -1	* 1975	* 1294.7	* 46	* 1974	* 1294.8	* 95.83	* *
* 9	* -1	* 1976	* 1292.7	* 47	* 1966	* 1294.9	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1273.7	* 1	* 1950	* 1276.4	* 2.08	*
* 7	* -1	* 1931	* 1273.6	* 2	* 1953	* 1276.4	* 4.17	*
* 6	* -1	* 1932	* 1273.6	* 3	* 1965	* 1276.4	* 6.25	*
* 6	* -1	* 1933	* 1273.7	* 4	* 1966	* 1276.4	* 8.33	*
* 5	* -1	* 1934	* 1271.0	* 5	* 1969	* 1276.4	* 10.42	*
* 8	* -1	* 1935	* 1273.0	* 6	* 1975	* 1276.4	* 12.50	*
* 6	* -1	* 1936	* 1273.6	* 7	* 1948	* 1276.3	* 14.58	*
* 6	* -1	* 1937	* 1273.7	* 8	* 1971	* 1276.3	* 16.67	*
* 5	* -1	* 1938	* 1276.2	* 9	* 1938	* 1276.2	* 18.75	*
* 7	* -1	* 1939	* 1272.9	* 10	* 1972	* 1276.0	* 20.83	*
* 6	* -1	* 1940	* 1273.7	* 11	* 1954	* 1275.9	* 22.92	*
* 5	* -1	* 1941	* 1273.7	* 12	* 1943	* 1275.5	* 25.00	*
* 6	* -1	* 1942	* 1273.7	* 13	* 1944	* 1275.4	* 27.08	*
* 6	* -1	* 1943	* 1275.5	* 14	* 1952	* 1275.3	* 29.17	*
* 6	* -1	* 1944	* 1275.4	* 15	* 1974	* 1274.5	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1945	* 1273.7	* 33.33	*
* 6	* -1	* 1946	* 1273.7	* 17	* 1946	* 1273.7	* 35.42	*
* 6	* -1	* 1947	* 1273.7	* 18	* 1947	* 1273.7	* 37.50	*
* 5	* -1	* 1948	* 1276.3	* 19	* 1949	* 1273.7	* 39.58	*
* 7	* -1	* 1949	* 1273.7	* 20	* 1930	* 1273.7	* 41.67	*
* 5	* -1	* 1950	* 1276.4	* 21	* 1951	* 1273.7	* 43.75	*
* 6	* -1	* 1951	* 1273.7	* 22	* 1941	* 1273.7	* 45.83	*
* 5	* -1	* 1952	* 1275.3	* 23	* 1940	* 1273.7	* 47.92	*
* 5	* -1	* 1953	* 1276.4	* 24	* 1955	* 1273.7	* 50.00	*
* 5	* -1	* 1954	* 1275.9	* 25	* 1956	* 1273.7	* 52.08	*
* 6	* -1	* 1955	* 1273.7	* 26	* 1957	* 1273.7	* 54.17	*
* 5	* -1	* 1956	* 1273.7	* 27	* 1958	* 1273.7	* 56.25	*
* 6	* -1	* 1957	* 1273.7	* 28	* 1959	* 1273.7	* 58.33	*
* 7	* -1	* 1958	* 1273.7	* 29	* 1960	* 1273.7	* 60.42	*
* 6	* -1	* 1959	* 1273.7	* 30	* 1961	* 1273.7	* 62.50	*
* 6	* -1	* 1960	* 1273.7	* 31	* 1962	* 1273.7	* 64.58	*
* 6	* -1	* 1961	* 1273.7	* 32	* 1963	* 1273.7	* 66.67	*
* 6	* -1	* 1962	* 1273.7	* 33	* 1964	* 1273.7	* 68.75	*
* 6	* -1	* 1963	* 1273.7	* 34	* 1933	* 1273.7	* 70.83	*
* 6	* -1	* 1964	* 1273.7	* 35	* 1967	* 1273.7	* 72.92	*
* 5	* -1	* 1965	* 1276.4	* 36	* 1968	* 1273.7	* 75.00	*
* 5	* -1	* 1966	* 1276.4	* 37	* 1970	* 1273.7	* 77.08	*
* 5	* -1	* 1967	* 1273.7	* 38	* 1937	* 1273.7	* 79.17	*
* 6	* -1	* 1968	* 1273.7	* 39	* 1973	* 1273.7	* 81.25	*
* 5	* -1	* 1969	* 1276.4	* 40	* 1942	* 1273.7	* 83.33	*
* 5	* -1	* 1970	* 1273.7	* 41	* 1931	* 1273.6	* 85.42	*
* 5	* -1	* 1971	* 1276.3	* 42	* 1932	* 1273.6	* 87.50	*
* 5	* -1	* 1972	* 1276.0	* 43	* 1936	* 1273.6	* 89.58	*

* 7	* -1	* 1973	* 1273.7	* 44	* 1976	* 1273.2	* 91.67	*
* 5	* -1	* 1974	* 1274.5	* 45	* 1935	* 1273.0	* 93.75	*
* 5	* -1	* 1975	* 1276.4	* 46	* 1939	* 1272.9	* 95.83	*
* 7	* -1	* 1976	* 1273.2	* 47	* 1934	* 1271.0	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER YEAR	* ELEV, FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1271.6	* 1	* 1934	* 1267.6	* 2.08	* *
* 9	* -1	* 1931	* 1270.1	* 2	* 1936	* 1268.3	* 4.17	* *
* 8	* -1	* 1932	* 1269.8	* 3	* 1932	* 1269.8	* 6.25	* *
* 7	* -1	* 1933	* 1271.4	* 4	* 1931	* 1270.1	* 8.33	* *
* 9	* -1	* 1934	* 1267.6	* 5	* 1939	* 1270.4	* 10.42	* *
* 5	* -1	* 1935	* 1271.7	* 6	* 1976	* 1270.9	* 12.50	* *
* 9	* -1	* 1936	* 1268.3	* 7	* 1961	* 1270.9	* 14.58	* *
* 9	* -1	* 1937	* 1272.8	* 8	* 1938	* 1271.4	* 16.67	* *
* 8	* -1	* 1938	* 1271.4	* 9	* 1940	* 1271.4	* 18.75	* *
* 9	* -1	* 1939	* 1270.4	* 10	* 1933	* 1271.4	* 20.83	* *
* 9	* -1	* 1940	* 1271.4	* 11	* 1930	* 1271.6	* 22.92	* *
* 8	* -1	* 1941	* 1272.3	* 12	* 1935	* 1271.7	* 25.00	* *
* 5	* -1	* 1942	* 1272.8	* 13	* 1960	* 1272.1	* 27.08	* *
* 5	* -1	* 1943	* 1272.8	* 14	* 1958	* 1272.2	* 29.17	* *
* 5	* -1	* 1944	* 1272.8	* 15	* 1941	* 1272.3	* 31.25	* *
* 5	* -1	* 1945	* 1273.7	* 16	* 1965	* 1272.4	* 33.33	* *
* 5	* -1	* 1946	* 1272.8	* 17	* 1959	* 1272.5	* 35.42	* *
* 5	* -1	* 1947	* 1272.8	* 18	* 1973	* 1272.5	* 37.50	* *
* 9	* -1	* 1948	* 1273.6	* 19	* 1967	* 1272.7	* 39.58	* *
* 5	* -1	* 1949	* 1272.7	* 20	* 1949	* 1272.7	* 41.67	* *

* 7	* -1	* 1950	* 1273.7	* 21	* 1937	* 1272.8	* 43.75	* *
* 5	* -1	* 1951	* 1272.8	* 22	* 1970	* 1272.8	* 45.83	* *
* 6	* -1	* 1952	* 1273.7	* 23	* 1953	* 1272.8	* 47.92	* *
* 5	* -1	* 1953	* 1272.8	* 24	* 1955	* 1272.8	* 50.00	* *
* 6	* -1	* 1954	* 1273.7	* 25	* 1957	* 1272.8	* 52.08	* *
* 5	* -1	* 1955	* 1272.8	* 26	* 1943	* 1272.8	* 54.17	* *
* 5	* -1	* 1956	* 1273.7	* 27	* 1946	* 1272.8	* 56.25	* *
* 5	* -1	* 1957	* 1272.8	* 28	* 1942	* 1272.8	* 58.33	* *
* 5	* -1	* 1958	* 1272.2	* 29	* 1962	* 1272.8	* 60.42	* *
* 5	* -1	* 1959	* 1272.5	* 30	* 1963	* 1272.8	* 62.50	* *
* 9	* -1	* 1960	* 1272.1	* 31	* 1964	* 1272.8	* 64.58	* *
* 8	* -1	* 1961	* 1270.9	* 32	* 1968	* 1272.8	* 66.67	* *
* 5	* -1	* 1962	* 1272.8	* 33	* 1951	* 1272.8	* 68.75	* *
* 5	* -1	* 1963	* 1272.8	* 34	* 1947	* 1272.8	* 70.83	* *
* 5	* -1	* 1964	* 1272.8	* 35	* 1944	* 1272.8	* 72.92	* *
* 7	* -1	* 1965	* 1272.4	* 36	* 1969	* 1273.3	* 75.00	* *
* 7	* -1	* 1966	* 1273.7	* 37	* 1971	* 1273.5	* 77.08	* *
* 9	* -1	* 1967	* 1272.7	* 38	* 1972	* 1273.6	* 79.17	* *
* 5	* -1	* 1968	* 1272.8	* 39	* 1948	* 1273.6	* 81.25	* *
* 9	* -1	* 1969	* 1273.3	* 40	* 1945	* 1273.7	* 83.33	* *
* 8	* -1	* 1970	* 1272.8	* 41	* 1952	* 1273.7	* 85.42	* *
* 9	* -1	* 1971	* 1273.5	* 42	* 1966	* 1273.7	* 87.50	* *
* 9	* -1	* 1972	* 1273.6	* 43	* 1950	* 1273.7	* 89.58	* *
* 5	* -1	* 1973	* 1272.5	* 44	* 1956	* 1273.7	* 91.67	* *
* 7	* -1	* 1974	* 1273.7	* 45	* 1974	* 1273.7	* 93.75	* *
* 6	* -1	* 1975	* 1273.7	* 46	* 1975	* 1273.7	* 95.83	* *
* 8	* -1	* 1976	* 1270.9	* 47	* 1954	* 1273.7	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	6	-1	1930	*	1	1943	1218.3	2.08
*	7	-1	1931	*	2	1938	1218.3	4.17
*	6	-1	1932	*	3	1944	1218.3	6.25
*	6	-1	1933	*	4	1948	1218.3	8.33
*	6	-1	1934	*	5	1950	1218.3	10.42
*	6	-1	1935	*	6	1952	1218.3	12.50
*	6	-1	1936	*	7	1953	1218.3	14.58
*	6	-1	1937	*	8	1954	1218.3	16.67
*	5	-1	1938	*	9	1956	1218.3	18.75
*	6	-1	1939	*	10	1965	1218.3	20.83
*	6	-1	1940	*	11	1966	1218.3	22.92
*	5	-1	1941	*	12	1969	1218.3	25.00
*	6	-1	1942	*	13	1971	1218.3	27.08
*	6	-1	1943	*	14	1972	1218.3	29.17
*	6	-1	1944	*	15	1974	1218.3	31.25
*	5	-1	1945	*	16	1975	1218.3	33.33
*	6	-1	1946	*	17	1941	1218.1	35.42
*	6	-1	1947	*	18	1970	1217.6	37.50
*	5	-1	1948	*	19	1967	1217.5	39.58
*	6	-1	1949	*	20	1951	1216.8	41.67
*	5	-1	1950	*	21	1945	1216.7	43.75
*	9	-1	1951	*	22	1949	1216.6	45.83
*	7	-1	1952	*	23	1935	1216.6	47.92
*	8	-1	1953	*	24	1936	1216.6	50.00
*	5	-1	1954	*	25	1937	1216.6	52.08
*	6	-1	1955	*	26	1955	1216.6	54.17
*	5	-1	1956	*	27	1931	1216.6	56.25
*	6	-1	1957	*	28	1957	1216.6	58.33
*	8	-1	1958	*	29	1958	1216.6	60.42
*	6	-1	1959	*	30	1959	1216.6	62.50
*	6	-1	1960	*	31	1960	1216.6	64.58
*	6	-1	1961	*	32	1962	1216.6	66.67
*	6	-1	1962	*	33	1963	1216.6	68.75
*	6	-1	1963	*	34	1964	1216.6	70.83
*	6	-1	1964	*	35	1939	1216.6	72.92
*	5	-1	1965	*	36	1940	1216.6	75.00
*	5	-1	1966	*	37	1968	1216.6	77.08
*	5	-1	1967	*	38	1946	1216.6	79.17
*	6	-1	1968	*	39	1947	1216.6	81.25
*	5	-1	1969	*	40	1942	1216.6	83.33
*	5	-1	1970	*	41	1930	1216.6	85.42
*	5	-1	1971	*	42	1973	1216.6	87.50
*	5	-1	1972	*	43	1932	1216.6	89.58
*	6	-1	1973	*	44	1934	1216.6	91.67

*	5	-1	1974	*	45	1961	1216.5	93.75
*	5	-1	1975	*	46	1933	1216.5	95.83
*	7	-1	1976	*	47	1976	1216.3	97.92

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL FLOT POS	*
* 9	* -1	* 1930	* 1215.4	* 1	* 1931	* 1214.9	* 2.08	*
* 5	* -1	* 1931	* 1214.9	* 2	* 1958	* 1215.0	* 4.17	*
* 9	* -1	* 1932	* 1216.2	* 3	* 1930	* 1215.4	* 6.25	*
* 5	* -1	* 1933	* 1215.6	* 4	* 1976	* 1215.5	* 8.33	*
* 9	* -1	* 1934	* 1215.7	* 5	* 1936	* 1215.6	* 10.42	*
* 5	* -1	* 1935	* 1216.3	* 6	* 1933	* 1215.6	* 12.50	*
* 9	* -1	* 1936	* 1215.6	* 7	* 1970	* 1215.7	* 14.58	*
* 9	* -1	* 1937	* 1216.3	* 8	* 1934	* 1215.7	* 16.67	*
* 9	* -1	* 1938	* 1216.4	* 9	* 1959	* 1215.8	* 18.75	*
* 5	* -1	* 1939	* 1216.3	* 10	* 1961	* 1215.9	* 20.83	*
* 9	* -1	* 1940	* 1216.1	* 11	* 1947	* 1216.1	* 22.92	*
* 6	* -1	* 1941	* 1216.6	* 12	* 1940	* 1216.1	* 25.00	*
* 5	* -1	* 1942	* 1216.2	* 13	* 1942	* 1216.2	* 27.08	*
* 5	* -1	* 1943	* 1216.3	* 14	* 1967	* 1216.2	* 29.17	*
* 5	* -1	* 1944	* 1216.3	* 15	* 1950	* 1216.2	* 31.25	*
* 6	* -1	* 1945	* 1216.6	* 16	* 1932	* 1216.2	* 33.33	*
* 5	* -1	* 1946	* 1216.3	* 17	* 1937	* 1216.3	* 35.42	*
* 9	* -1	* 1947	* 1216.1	* 18	* 1949	* 1216.3	* 37.50	*
* 9	* -1	* 1948	* 1216.4	* 19	* 1944	* 1216.3	* 39.58	*
* 5	* -1	* 1949	* 1216.3	* 20	* 1951	* 1216.3	* 41.67	*
* 9	* -1	* 1950	* 1216.2	* 21	* 1953	* 1216.3	* 43.75	*

* 5	* -1	* 1951	* 1216.3	* 22	* 1955	* 1216.3	* 45.83	*
* 6	* -1	* 1952	* 1216.6	* 23	* 1957	* 1216.3	* 47.92	*
* 5	* -1	* 1953	* 1216.3	* 24	* 1960	* 1216.3	* 50.00	*
* 6	* -1	* 1954	* 1216.6	* 25	* 1939	* 1216.3	* 52.08	*
* 5	* -1	* 1955	* 1216.3	* 26	* 1962	* 1216.3	* 54.17	*
* 9	* -1	* 1956	* 1216.5	* 27	* 1963	* 1216.3	* 56.25	*
* 5	* -1	* 1957	* 1216.3	* 28	* 1964	* 1216.3	* 58.33	*
* 5	* -1	* 1958	* 1215.0	* 29	* 1943	* 1216.3	* 60.42	*
* 5	* -1	* 1959	* 1215.8	* 30	* 1968	* 1216.3	* 62.50	*
* 5	* -1	* 1960	* 1216.3	* 31	* 1946	* 1216.3	* 64.58	*
* 9	* -1	* 1961	* 1215.9	* 32	* 1973	* 1216.3	* 66.67	*
* 5	* -1	* 1962	* 1216.3	* 33	* 1935	* 1216.3	* 68.75	*
* 5	* -1	* 1963	* 1216.3	* 34	* 1969	* 1216.4	* 70.83	*
* 5	* -1	* 1964	* 1216.3	* 35	* 1948	* 1216.4	* 72.92	*
* 8	* -1	* 1965	* 1216.6	* 36	* 1938	* 1216.4	* 75.00	*
* 7	* -1	* 1966	* 1216.6	* 37	* 1975	* 1216.4	* 77.08	*
* 9	* -1	* 1967	* 1216.2	* 38	* 1971	* 1216.5	* 79.17	*
* 5	* -1	* 1968	* 1216.3	* 39	* 1956	* 1216.5	* 81.25	*
* 9	* -1	* 1969	* 1216.4	* 40	* 1965	* 1216.6	* 83.33	*
* 9	* -1	* 1970	* 1215.7	* 41	* 1952	* 1216.6	* 85.42	*
* 9	* -1	* 1971	* 1216.5	* 42	* 1945	* 1216.6	* 87.50	*
* 7	* -1	* 1972	* 1216.6	* 43	* 1972	* 1216.6	* 89.58	*
* 5	* -1	* 1973	* 1216.3	* 44	* 1954	* 1216.6	* 91.67	*
* 7	* -1	* 1974	* 1216.6	* 45	* 1974	* 1216.6	* 93.75	*
* 9	* -1	* 1975	* 1216.4	* 46	* 1966	* 1216.6	* 95.83	*
* 9	* -1	* 1976	* 1215.5	* 47	* 1941	* 1216.6	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1229.6	* 1	* 1950	* 1230.4	* 2.08	*
* 7	* -1	* 1931	* 1229.6	* 2	* 1965	* 1230.0	* 4.17	*
* 6	* -1	* 1932	* 1229.2	* 3	* 1943	* 1229.9	* 6.25	*
* 6	* -1	* 1933	* 1229.6	* 4	* 1944	* 1229.6	* 8.33	*
* 6	* -1	* 1934	* 1228.3	* 5	* 1966	* 1229.6	* 10.42	*
* 7	* -1	* 1935	* 1229.6	* 6	* 1938	* 1229.6	* 12.50	*
* 6	* -1	* 1936	* 1229.6	* 7	* 1945	* 1229.6	* 14.58	*
* 7	* -1	* 1937	* 1229.6	* 8	* 1937	* 1229.6	* 16.67	*
* 5	* -1	* 1938	* 1229.6	* 9	* 1935	* 1229.6	* 18.75	*
* 7	* -1	* 1939	* 1229.5	* 10	* 1941	* 1229.6	* 20.83	*
* 6	* -1	* 1940	* 1229.5	* 11	* 1942	* 1229.6	* 22.92	*
* 5	* -1	* 1941	* 1229.6	* 12	* 1933	* 1229.6	* 25.00	*
* 6	* -1	* 1942	* 1229.6	* 13	* 1946	* 1229.6	* 27.08	*
* 6	* -1	* 1943	* 1229.9	* 14	* 1947	* 1229.6	* 29.17	*
* 6	* -1	* 1944	* 1229.6	* 15	* 1948	* 1229.6	* 31.25	*
* 5	* -1	* 1945	* 1229.6	* 16	* 1949	* 1229.6	* 33.33	*
* 7	* -1	* 1946	* 1229.6	* 17	* 1930	* 1229.6	* 35.42	*
* 6	* -1	* 1947	* 1229.6	* 18	* 1951	* 1229.6	* 37.50	*
* 5	* -1	* 1948	* 1229.6	* 19	* 1952	* 1229.6	* 39.58	*
* 7	* -1	* 1949	* 1229.6	* 20	* 1953	* 1229.6	* 41.67	*
* 5	* -1	* 1950	* 1230.4	* 21	* 1954	* 1229.6	* 43.75	*
* 6	* -1	* 1951	* 1229.6	* 22	* 1955	* 1229.6	* 45.83	*
* 5	* -1	* 1952	* 1229.6	* 23	* 1956	* 1229.6	* 47.92	*
* 6	* -1	* 1953	* 1229.6	* 24	* 1957	* 1229.6	* 50.00	*
* 5	* -1	* 1954	* 1229.6	* 25	* 1959	* 1229.6	* 52.08	*
* 7	* -1	* 1955	* 1229.6	* 26	* 1960	* 1229.6	* 54.17	*
* 5	* -1	* 1956	* 1229.6	* 27	* 1962	* 1229.6	* 56.25	*
* 7	* -1	* 1957	* 1229.6	* 28	* 1963	* 1229.6	* 58.33	*
* 9	* -1	* 1958	* 1228.9	* 29	* 1964	* 1229.6	* 60.42	*
* 7	* -1	* 1959	* 1229.6	* 30	* 1931	* 1229.6	* 62.50	*
* 6	* -1	* 1960	* 1229.6	* 31	* 1967	* 1229.6	* 64.58	*
* 8	* -1	* 1961	* 1229.3	* 32	* 1968	* 1229.6	* 66.67	*
* 6	* -1	* 1962	* 1229.6	* 33	* 1969	* 1229.6	* 68.75	*
* 7	* -1	* 1963	* 1229.6	* 34	* 1970	* 1229.6	* 70.83	*
* 6	* -1	* 1964	* 1229.6	* 35	* 1971	* 1229.6	* 72.92	*
* 6	* -1	* 1965	* 1230.0	* 36	* 1972	* 1229.6	* 75.00	*
* 5	* -1	* 1966	* 1229.6	* 37	* 1973	* 1229.6	* 77.08	*
* 5	* -1	* 1967	* 1229.6	* 38	* 1974	* 1229.6	* 79.17	*
* 6	* -1	* 1968	* 1229.6	* 39	* 1975	* 1229.6	* 81.25	*
* 5	* -1	* 1969	* 1229.6	* 40	* 1936	* 1229.6	* 83.33	*
* 5	* -1	* 1970	* 1229.6	* 41	* 1940	* 1229.5	* 85.42	*
* 5	* -1	* 1971	* 1229.6	* 42	* 1939	* 1229.5	* 87.50	*
* 5	* -1	* 1972	* 1229.6	* 43	* 1961	* 1229.3	* 89.58	*
* 7	* -1	* 1973	* 1229.6	* 44	* 1932	* 1229.2	* 91.67	*
* 5	* -1	* 1974	* 1229.6	* 45	* 1958	* 1228.9	* 93.75	*
* 5	* -1	* 1975	* 1229.6	* 46	* 1976	* 1228.8	* 95.83	*
* 7	* -1	* 1976	* 1228.8	* 47	* 1934	* 1228.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL FLOT POS	*
*	5	-1	1930	*	1	1934	1227.6	2.08
*	5	-1	1931	*	2	1976	1227.9	4.17
*	5	-1	1932	*	3	1958	1228.0	6.25
*	5	-1	1933	*	4	1931	1228.1	8.33
*	9	-1	1934	*	5	1959	1228.6	10.42
*	5	-1	1935	*	6	1932	1228.6	12.50
*	9	-1	1936	*	7	1955	1228.6	14.58
*	5	-1	1937	*	8	1936	1228.7	16.67
*	8	-1	1938	*	9	1939	1228.7	18.75
*	5	-1	1939	*	10	1933	1228.7	20.83
*	5	-1	1940	*	11	1961	1228.7	22.92
*	5	-1	1941	*	12	1946	1228.8	25.00
*	5	-1	1942	*	13	1935	1228.8	27.08
*	5	-1	1943	*	14	1963	1228.8	29.17
*	5	-1	1944	*	15	1930	1228.9	31.25
*	6	-1	1945	*	16	1949	1228.9	33.33
*	5	-1	1946	*	17	1937	1228.9	35.42
*	5	-1	1947	*	18	1957	1228.9	37.50
*	5	-1	1948	*	19	1940	1228.9	39.58
*	5	-1	1949	*	20	1973	1228.9	41.67
*	5	-1	1950	*	21	1951	1228.9	43.75
*	5	-1	1951	*	22	1953	1228.9	45.83
*	5	-1	1952	*	23	1947	1228.9	47.92
*	5	-1	1953	*	24	1942	1228.9	50.00

*	5	-1	1954	*	25	1944	1228.9	52.08
*	5	-1	1955	*	26	1960	1228.9	54.17
*	9	-1	1956	*	27	1962	1228.9	56.25
*	5	-1	1957	*	28	1943	1228.9	58.33
*	5	-1	1958	*	29	1964	1228.9	60.42
*	5	-1	1959	*	30	1968	1228.9	62.50
*	5	-1	1960	*	31	1970	1229.0	64.58
*	5	-1	1961	*	32	1967	1229.4	66.67
*	5	-1	1962	*	33	1969	1229.5	68.75
*	5	-1	1963	*	34	1956	1229.5	70.83
*	5	-1	1964	*	35	1938	1229.5	72.92
*	5	-1	1965	*	36	1965	1229.6	75.00
*	6	-1	1966	*	37	1966	1229.6	77.08
*	9	-1	1967	*	38	1948	1229.6	79.17
*	5	-1	1968	*	39	1954	1229.6	81.25
*	8	-1	1969	*	40	1952	1229.6	83.33
*	9	-1	1970	*	41	1941	1229.6	85.42
*	5	-1	1971	*	42	1971	1229.6	87.50
*	5	-1	1972	*	43	1972	1229.6	89.58
*	5	-1	1973	*	44	1945	1229.6	91.67
*	5	-1	1974	*	45	1974	1229.6	93.75
*	5	-1	1975	*	46	1975	1229.6	95.83
*	9	-1	1976	*	47	1950	1229.6	97.92

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
*	6	-1	1930	*	1	1950	1194.8	2.08
*	7	-1	1931	*	2	1938	1194.5	4.17
*	6	-1	1932	*	3	1944	1194.4	6.25
*	6	-1	1933	*	4	1975	1194.3	8.33
*	5	-1	1934	*	5	1965	1194.2	10.42
*	7	-1	1935	*	6	1943	1194.1	12.50
*	6	-1	1936	*	7	1952	1194.1	14.58
*	6	-1	1937	*	8	1937	1194.0	16.67
*	5	-1	1938	*	9	1941	1194.0	18.75
*	7	-1	1939	*	10	1942	1194.0	20.83
*	6	-1	1940	*	11	1935	1194.0	22.92
*	5	-1	1941	*	12	1945	1194.0	25.00
*	6	-1	1942	*	13	1946	1194.0	27.08
*	6	-1	1943	*	14	1947	1194.0	29.17
*	6	-1	1944	*	15	1948	1194.0	31.25
*	5	-1	1945	*	16	1949	1194.0	33.33
*	7	-1	1946	*	17	1951	1194.0	35.42
*	6	-1	1947	*	18	1953	1194.0	37.50
*	5	-1	1948	*	19	1954	1194.0	39.58
*	6	-1	1949	*	20	1955	1194.0	41.67
*	5	-1	1950	*	21	1956	1194.0	43.75
*	6	-1	1951	*	22	1957	1194.0	45.83
*	7	-1	1952	*	23	1958	1194.0	47.92
*	6	-1	1953	*	24	1959	1194.0	50.00
*	5	-1	1954	*	25	1960	1194.0	52.08
*	8	-1	1955	*	26	1962	1194.0	54.17
*	5	-1	1956	*	27	1963	1194.0	56.25
*	7	-1	1957	*	28	1964	1194.0	58.33
*	8	-1	1958	*	29	1966	1194.0	60.42
*	6	-1	1959	*	30	1967	1194.0	62.50
*	6	-1	1960	*	31	1968	1194.0	64.58
*	8	-1	1961	*	32	1969	1194.0	66.67
*	6	-1	1962	*	33	1970	1194.0	68.75
*	9	-1	1963	*	34	1971	1194.0	70.83
*	9	-1	1964	*	35	1972	1194.0	72.92
*	6	-1	1965	*	36	1973	1194.0	75.00
*	5	-1	1966	*	37	1974	1194.0	77.08
*	5	-1	1967	*	38	1933	1194.0	79.17
*	7	-1	1968	*	39	1930	1194.0	81.25
*	5	-1	1969	*	40	1939	1193.9	83.33
*	5	-1	1970	*	41	1931	1193.9	85.42
*	5	-1	1971	*	42	1936	1193.9	87.50
*	5	-1	1972	*	43	1940	1193.8	89.58
*	6	-1	1973	*	44	1961	1193.6	91.67
*	5	-1	1974	*	45	1932	1193.5	93.75
*	5	-1	1975	*	46	1976	1193.5	95.83
*	7	-1	1976	*	47	1934	1193.0	97.92

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COMPUTER OPERATIONS STUDY OF RESERVOIR OPERATIONS FOR
SIX MISSISSIPPI RIVER HEADWATERS DAMS APPENDIX A(U)
ANDERSON-NICHOLS AND CO INC PALO ALTO CA JUN 82

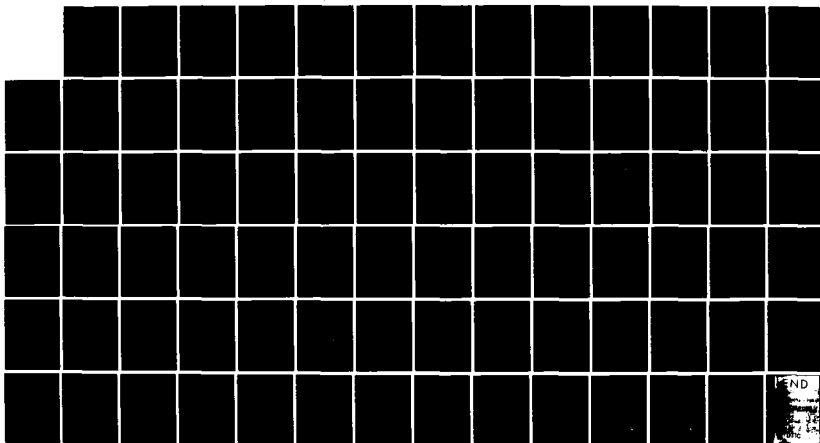
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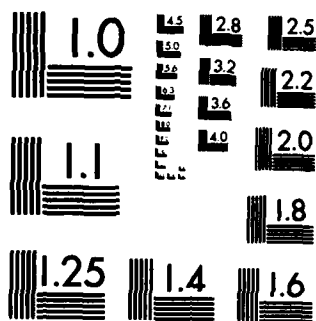
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*	
*	9	-1	1930	*	1	1934	1192.5	2.08	*
*	5	-1	1931	*	2	1976	1192.6	4.17	*
*	9	-1	1932	*	3	1932	1192.6	6.25	*
*	9	-1	1933	*	4	1936	1192.9	8.33	*
*	9	-1	1934	*	5	1931	1193.0	10.42	*
*	5	-1	1935	*	6	1930	1193.0	12.50	*
*	9	-1	1936	*	7	1933	1193.1	14.58	*
*	5	-1	1937	*	8	1955	1193.4	16.67	*
*	8	-1	1938	*	9	1958	1193.4	18.75	*
*	5	-1	1939	*	10	1939	1193.4	20.83	*
*	5	-1	1940	*	11	1970	1193.5	22.92	*
*	7	-1	1941	*	12	1935	1193.5	25.00	*
*	5	-1	1942	*	13	1961	1193.5	27.08	*
*	5	-1	1943	*	14	1964	1193.5	29.17	*
*	5	-1	1944	*	15	1963	1193.5	31.25	*
*	6	-1	1945	*	16	1968	1193.5	33.33	*
*	5	-1	1946	*	17	1959	1193.6	35.42	*
*	5	-1	1947	*	18	1957	1193.6	37.50	*
*	6	-1	1948	*	19	1940	1193.6	39.58	*
*	5	-1	1949	*	20	1946	1193.6	41.67	*
*	9	-1	1950	*	21	1949	1193.6	43.75	*
*	5	-1	1951	*	22	1969	1193.6	45.83	*
*	9	-1	1952	*	23	1953	1193.6	47.92	*
*	5	-1	1953	*	24	1937	1193.6	50.00	*
*	5	-1	1954	*	25	1960	1193.6	52.08	*
*	5	-1	1955	*	26	1942	1193.6	54.17	*
*	9	-1	1956	*	27	1962	1193.6	56.25	*

*	5	-1	1957	*	28	1944	1193.6	58.33	*
*	5	-1	1958	*	29	1943	1193.6	60.42	*
*	5	-1	1959	*	30	1951	1193.6	62.50	*
*	5	-1	1960	*	31	1973	1193.6	64.58	*
*	5	-1	1961	*	32	1950	1193.7	66.67	*
*	5	-1	1962	*	33	1967	1193.8	68.75	*
*	5	-1	1963	*	34	1948	1193.9	70.83	*
*	5	-1	1964	*	35	1956	1193.9	72.92	*
*	8	-1	1965	*	36	1947	1193.9	75.00	*
*	9	-1	1966	*	37	1938	1193.9	77.08	*
*	9	-1	1967	*	38	1974	1193.9	79.17	*
*	5	-1	1968	*	39	1966	1193.9	81.25	*
*	9	-1	1969	*	40	1941	1193.9	83.33	*
*	9	-1	1970	*	41	1971	1194.0	85.42	*
*	9	-1	1971	*	42	1965	1194.0	87.50	*
*	5	-1	1972	*	43	1945	1194.0	89.58	*
*	5	-1	1973	*	44	1952	1194.0	91.67	*
*	9	-1	1974	*	45	1972	1194.0	93.75	*
*	6	-1	1975	*	46	1975	1194.0	95.83	*
*	9	-1	1976	*	47	1954	1194.0	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

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*****
*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
* * * * *
* MON DAY YEAR FLOW,CFS * RANK YEAR FLOW,CFS WEIBULL *
* * * * *
* 5 -1 1930 3329. * 1 1950 21595. 2.08 *
* 6 -1 1931 2180. * 2 1975 20217. 4.17 *
* 5 -1 1932 2850. * 3 1969 16309. 6.25 *
* 5 -1 1933 2657. * 4 1948 14723. 8.33 *
* 4 -1 1934 1984. * 5 1965 13688. 10.42 *
* 5 -1 1935 2987. * 6 1966 13118. 12.50 *
* 5 -1 1936 4803. * 7 1971 13048. 14.58 *
* 5 -1 1937 3931. * 8 1953 12249. 16.67 *
* 5 -1 1938 11150. * 9 1952 11428. 18.75 *
* 4 -1 1939 5548. * 10 1956 11326. 20.83 *
* 5 -1 1940 3322. * 11 1938 11150. 22.92 *
* 4 -1 1941 10529. * 12 1972 11047. 25.00 *
* 5 -1 1942 4843. * 13 1944 10881. 27.08 *
* 6 -1 1943 10641. * 14 1954 10760. 29.17 *
* 6 -1 1944 10881. * 15 1943 10641. 31.25 *
* 3 -1 1945 10531. * 16 1974 10633. 33.33 *
* 6 -1 1946 5688. * 17 1945 10531. 35.42 *
* 4 -1 1947 6589. * 18 1941 10529. 37.50 *
* 5 -1 1948 14723. * 19 1970 9777. 39.58 *
* 7 -1 1949 5590. * 20 1967 9203. 41.67 *
* 5 -1 1950 21595. * 21 1973 7763. 43.75 *
* 5 -1 1951 7442. * 22 1951 7442. 45.83 *
* 7 -1 1952 11428. * 23 1962 7314. 47.92 *
* 8 -1 1953 12249. * 24 1947 6589. 50.00 *
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* 5 -1 1954 10760. * 25 1964 6208. 52.08 *
* 4 -1 1955 4693. * 26 1946 5688. 54.17 *
* 4 -1 1956 11326. * 27 1949 5590. 56.25 *
* 4 -1 1957 5296. * 28 1939 5548. 58.33 *
* 2 -1 1958 2182. * 29 1976 5325. 60.42 *
* 6 -1 1959 3794. * 30 1957 5296. 62.50 *
* 5 -1 1960 5193. * 31 1960 5193. 64.58 *
* 5 -1 1961 3246. * 32 1968 5037. 66.67 *
* 5 -1 1962 7314. * 33 1942 4843. 68.75 *
* 6 -1 1963 4693. * 34 1936 4803. 70.83 *
* 5 -1 1964 6208. * 35 1955 4693. 72.92 *
* 4 -1 1965 13688. * 36 1963 4693. 75.00 *
* 5 -1 1966 13118. * 37 1937 3831. 77.08 *
* 4 -1 1967 9203. * 38 1959 3794. 79.17 *
* 6 -1 1968 5037. * 39 1930 3329. 81.25 *
* 4 -1 1969 16309. * 40 1940 3322. 83.33 *
* 5 -1 1970 9777. * 41 1961 3246. 85.42 *
* 4 -1 1971 13048. * 42 1935 2987. 87.50 *
* 4 -1 1972 11047. * 43 1932 2850. 89.58 *
* 10 -1 1973 7763. * 44 1933 2657. 91.67 *
* 6 -1 1974 10633. * 45 1958 2182. 93.75 *
* 5 -1 1975 20217. * 46 1931 2180. 95.83 *
* 4 -1 1976 5325. * 47 1934 1984. 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANOKA FLOW

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*****
*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR FLOW,CFS * RANK WATER YEAR FLOW,CFS WEIBULL *
* * * * * * * * * * * * * * * * * * * * * * * * *
* 1 -1 1930 1959. * 1 1934 610. 2.08 *
* 2 -1 1931 2323. * 2 1935 801. 4.17 *
* 8 -1 1932 1398. * 3 1936 877. 6.25 *
* 10 -1 1933 1103. * 4 1933 1103. 8.33 *
* 8 -1 1934 610. * 5 1932 1398. 10.42 *
* 1 -1 1935 801. * 6 1938 1628. 12.50 *
* 8 -1 1936 877. * 7 1940 1847. 14.58 *
* 3 -1 1937 1986. * 8 1976 1945. 16.67 *
* 1 -1 1938 1628. * 9 1930 1959. 18.75 *
* 12 -1 1939 2418. * 10 1937 1986. 20.83 *
* 2 -1 1940 1847. * 11 1931 2323. 22.92 *
* 1 -1 1941 2678. * 12 1961 2381. 25.00 *
* 1 -1 1942 2738. * 13 1962 2397. 27.08 *
* 9 -1 1943 4007. * 14 1959 2398. 29.17 *
* 1 -1 1944 4349. * 15 1960 2399. 31.25 *
* 1 -1 1945 4275. * 16 1939 2418. 33.33 *
* 9 -1 1946 3625. * 17 1970 2434. 35.42 *
* 8 -1 1947 3074. * 18 1948 2436. 37.50 *
* 10 -1 1948 2436. * 19 1967 2445. 39.58 *
* 9 -1 1949 2560. * 20 1968 2498. 41.67 *
* 11 -1 1950 3466. * 21 1949 2560. 43.75 *
* 1 -1 1951 4115. * 22 1964 2571. 45.83 *
* 11 -1 1952 3945. * 23 1956 2584. 47.92 *
* 1 -1 1953 4831. * 24 1969 2678. 50.00 *
* 12 -1 1954 4178. * 25 1941 2678. 52.08 *
* 11 -1 1955 3120. * 26 1958 2696. 54.17 *
* 10 -1 1956 2584. * 27 1942 2738. 56.25 *
* 1 -1 1957 3060. * 28 1963 2822. 58.33 *
* 8 -1 1958 2696. * 29 1957 3060. 60.42 *
* 2 -1 1959 2398. * 30 1947 3074. 62.50 *
* 12 -1 1960 2399. * 31 1965 3090. 64.58 *
* 1 -1 1961 2381. * 32 1955 3120. 66.67 *
* 1 -1 1962 2397. * 33 1971 3126. 68.75 *
* 11 -1 1963 2822. * 34 1974 3204. 70.83 *
* 8 -1 1964 2571. * 35 1950 3466. 72.92 *
* 3 -1 1965 3090. * 36 1946 3625. 75.00 *
* 12 -1 1966 4976. * 37 1952 3945. 77.08 *
* 12 -1 1967 2445. * 38 1943 4007. 79.17 *
* 1 -1 1968 2498. * 39 1951 4115. 81.25 *
* 9 -1 1969 2678. * 40 1954 4178. 83.33 *
* 9 -1 1970 2434. * 41 1975 4235. 85.42 *
* 9 -1 1971 3126. * 42 1945 4275. 87.50 *
* 12 -1 1972 6905. * 43 1944 4349. 89.58 *
* 7 -1 1973 4609. * 44 1973 4609. 91.67 *
* 9 -1 1974 3204. * 45 1953 4831. 93.75 *
* 8 -1 1975 4235. * 46 1966 4976. 95.83 *
* 12 -1 1976 1945. * 47 1972 6905. 97.92 *
*****

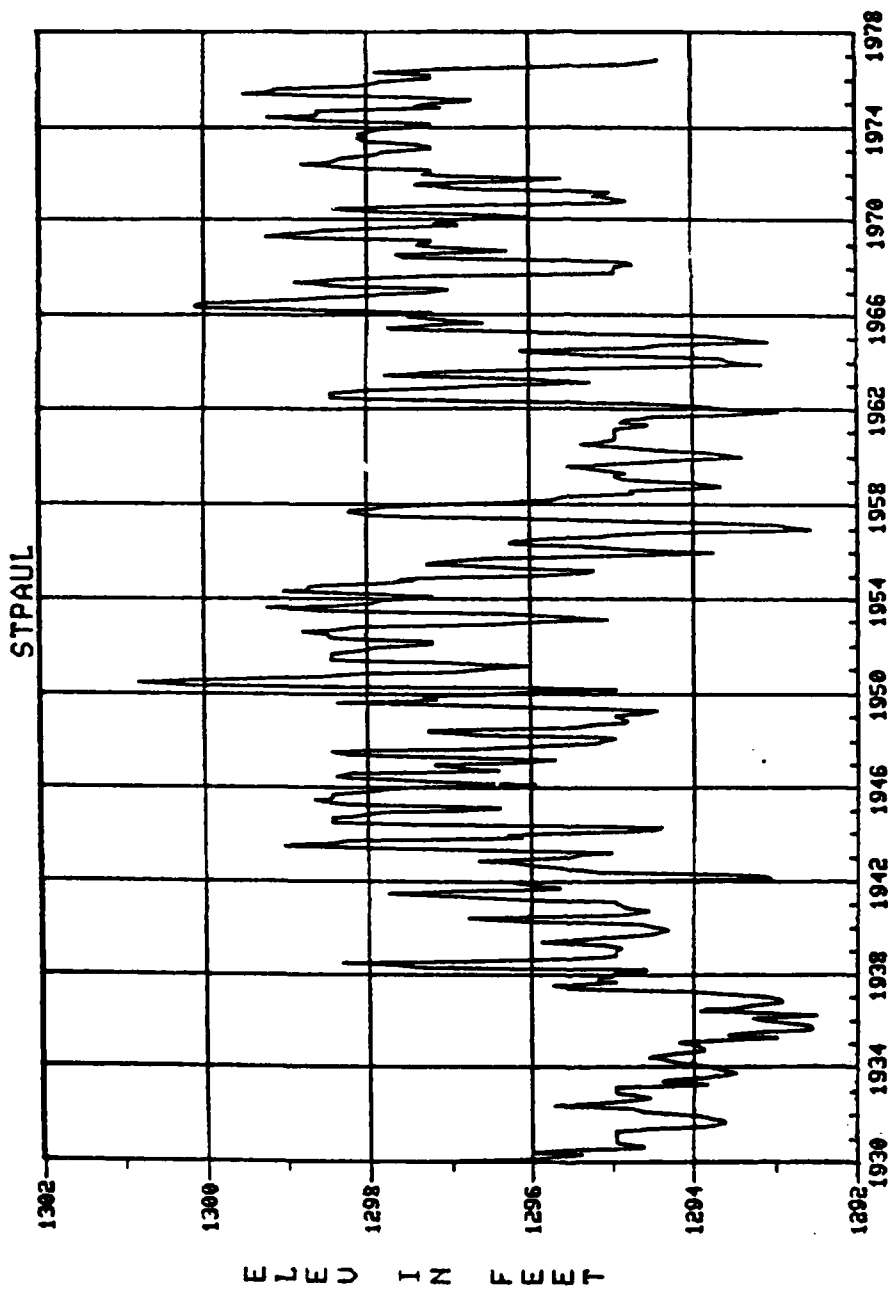
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APPENDIX J

PLAN 6

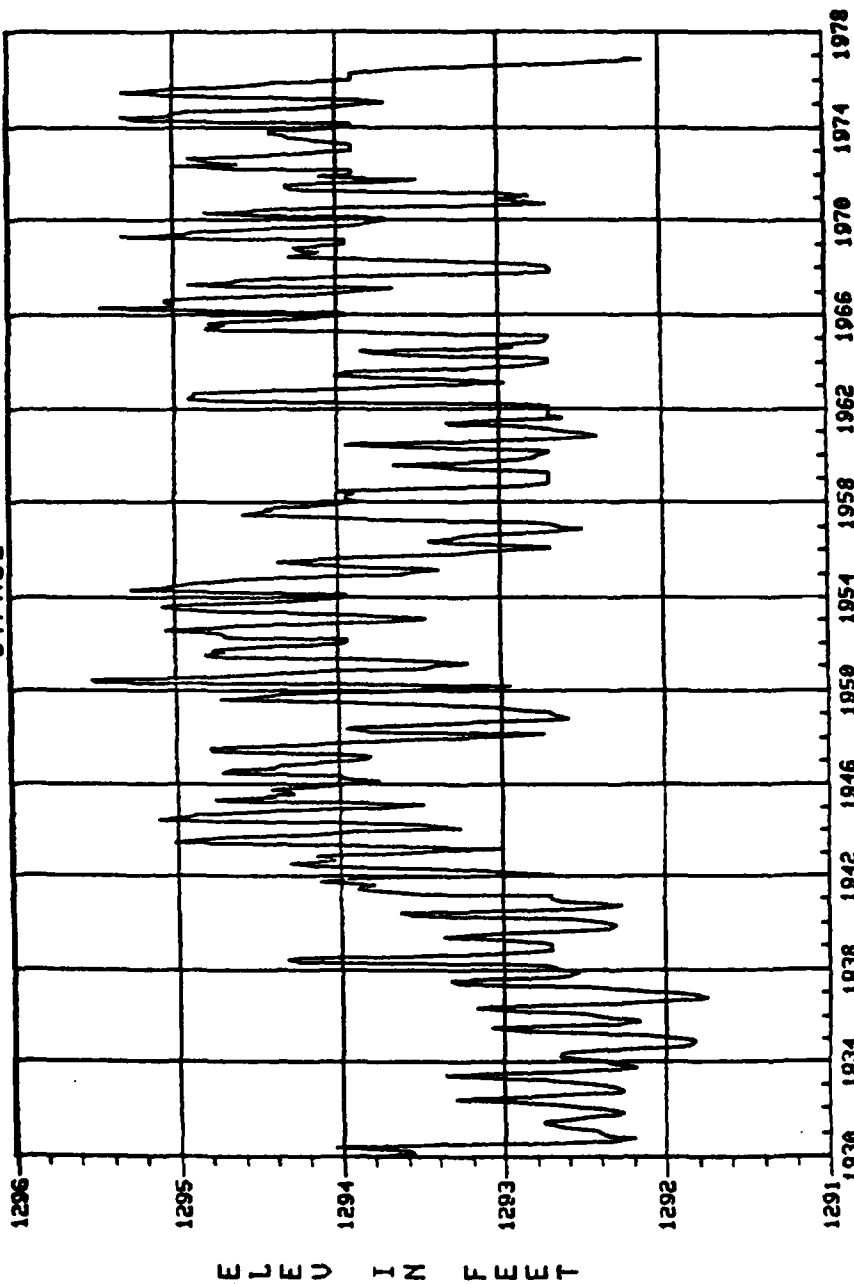
TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.



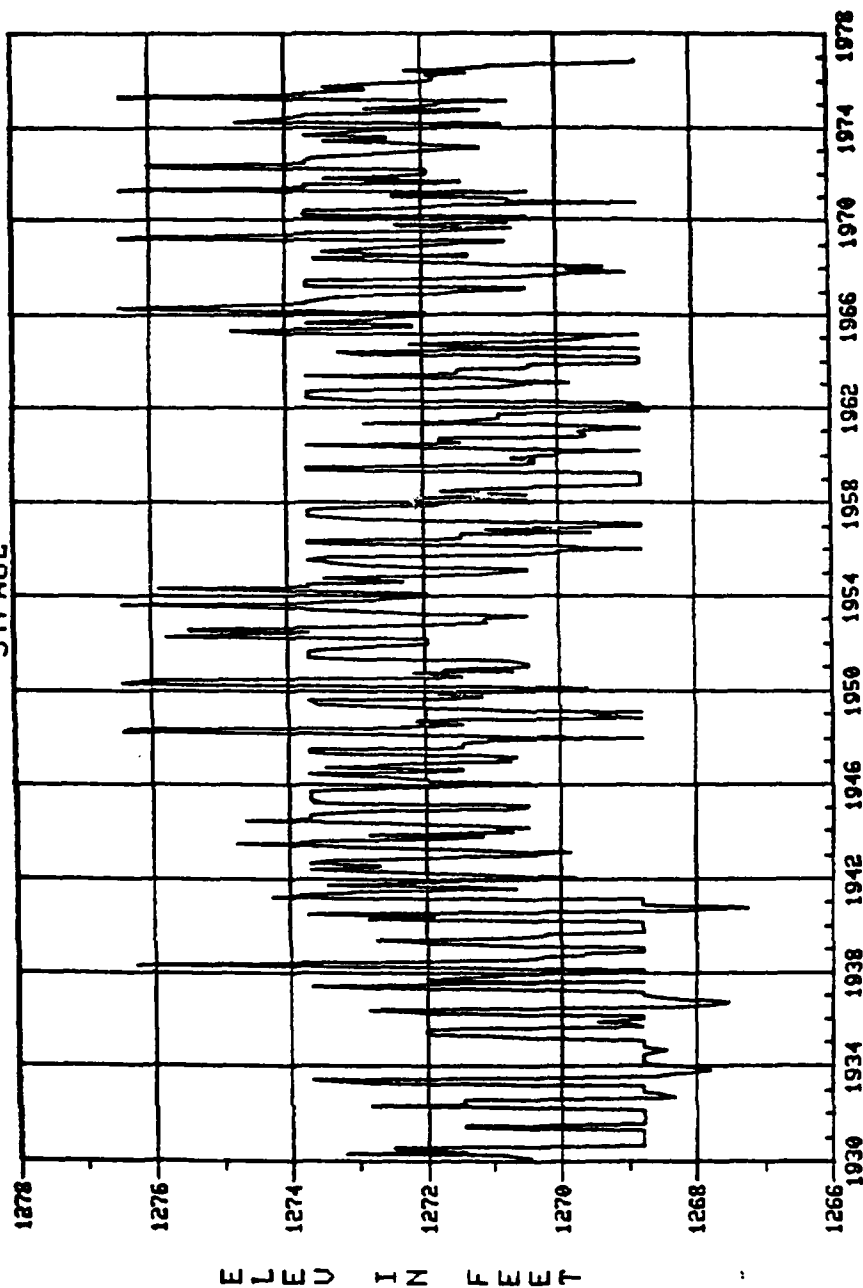
—— UTINI RES. PLANGR ELEV

STPAUL



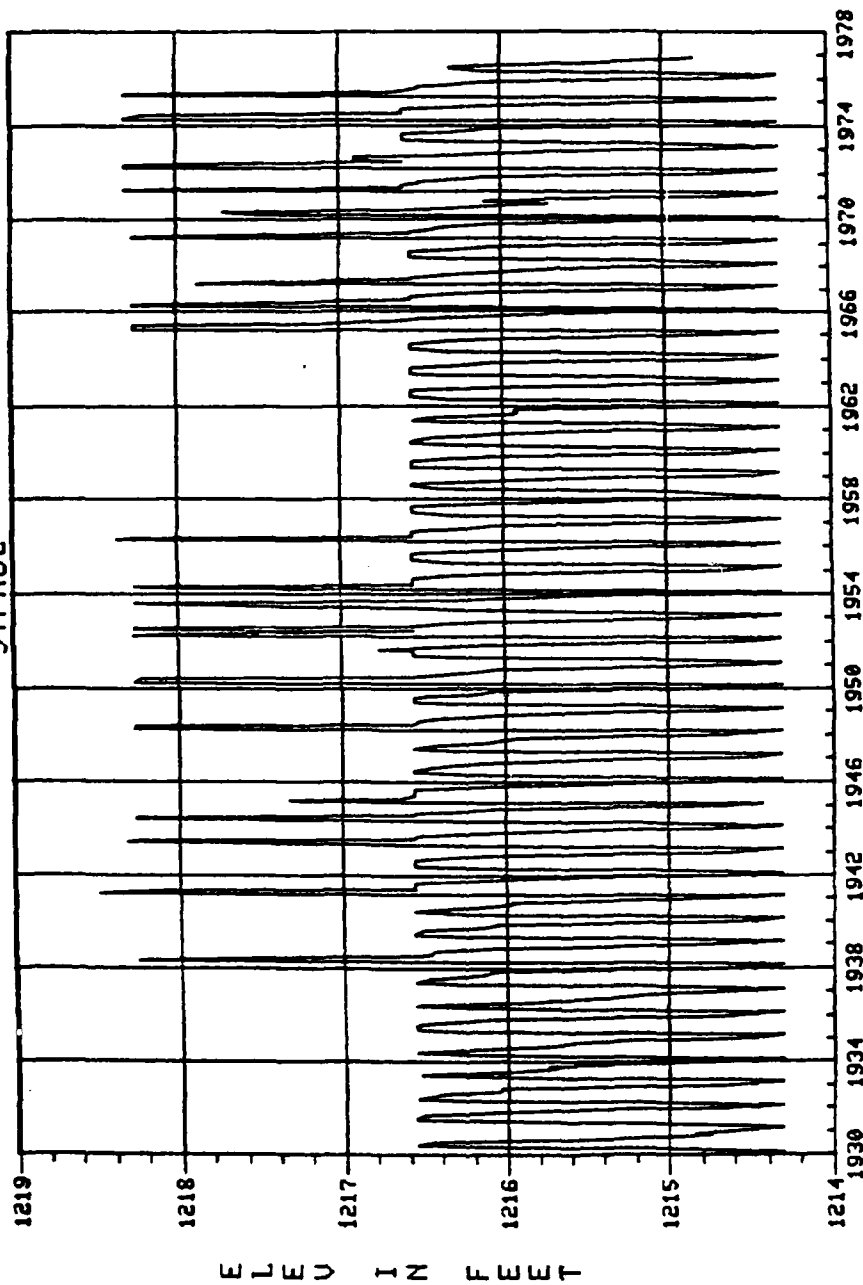
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STPAUL



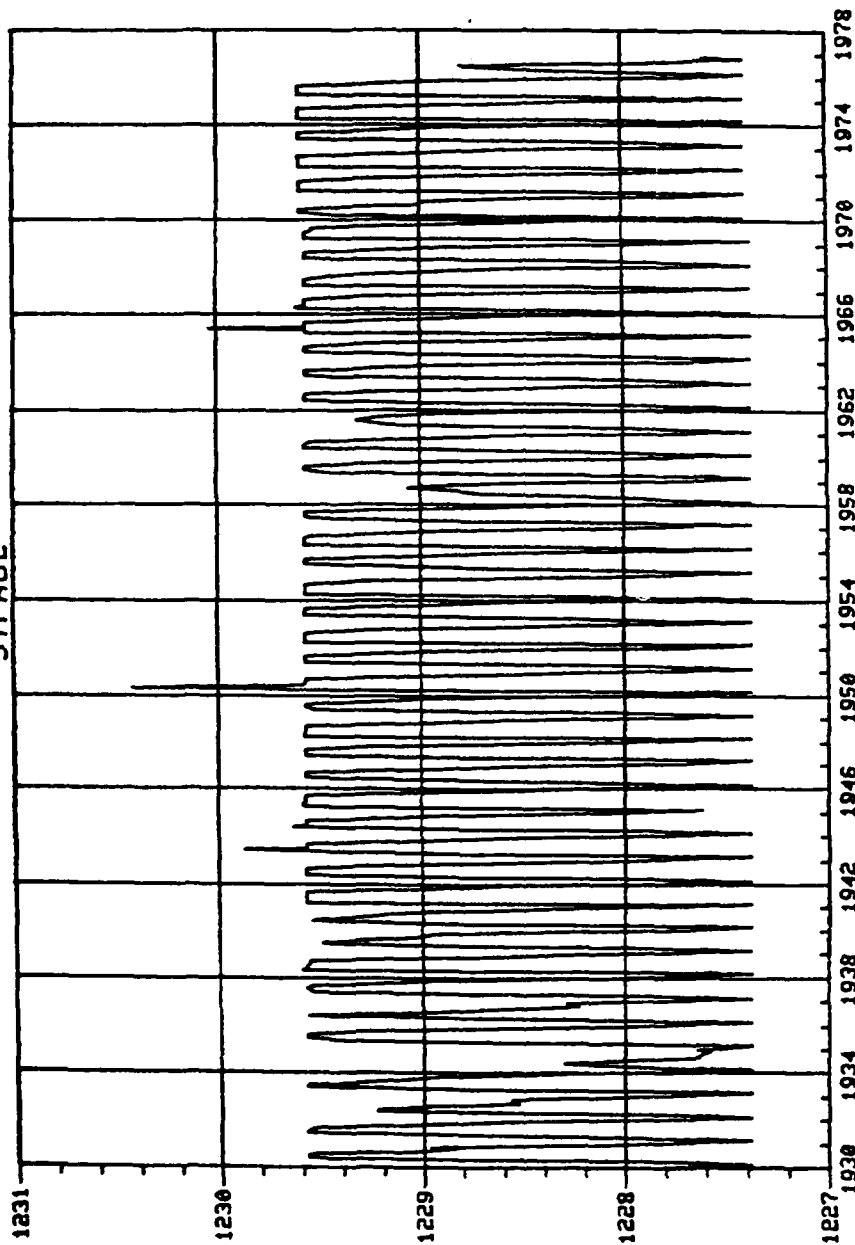
POKEGANIA RES. PLANGR ELEU

STPAUL



____ SANDY RES. PLANGR ELEV

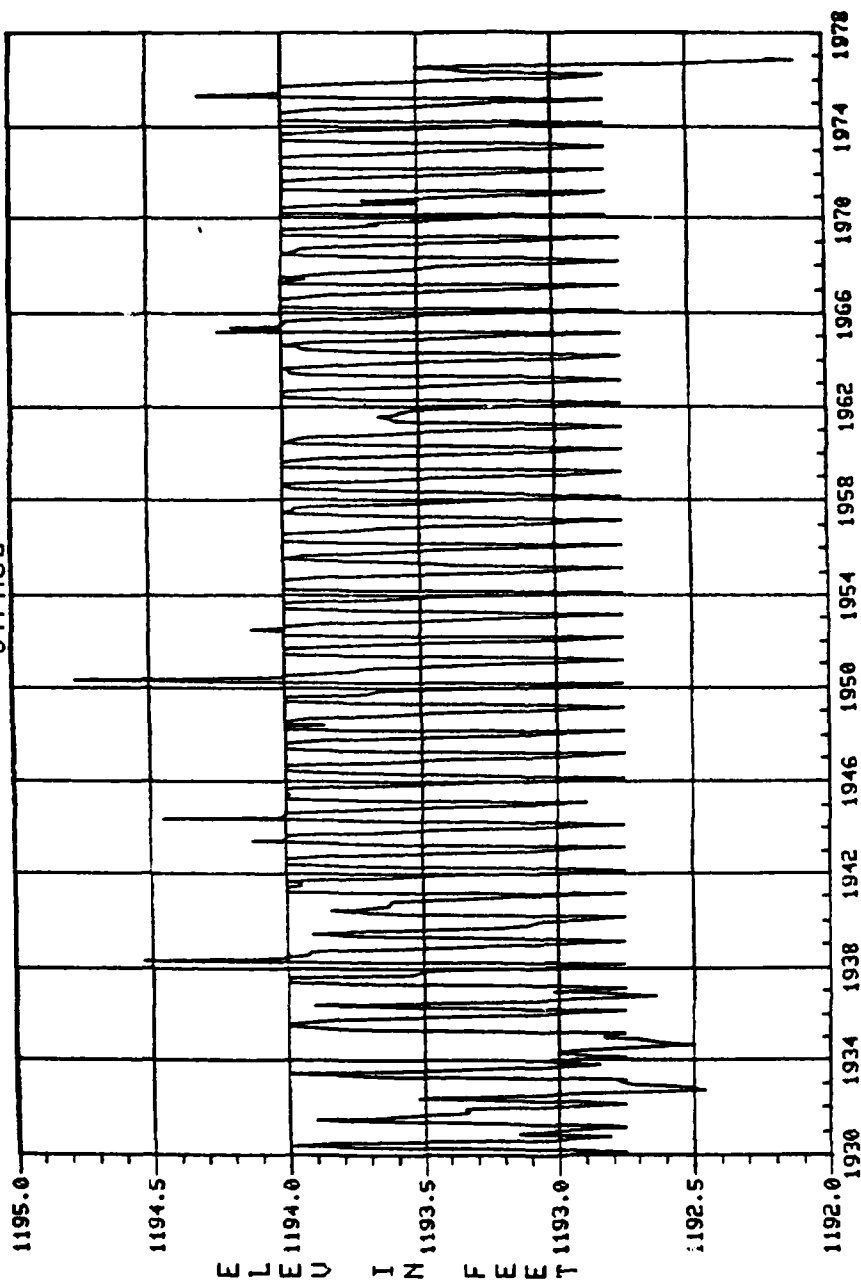
STPAUL



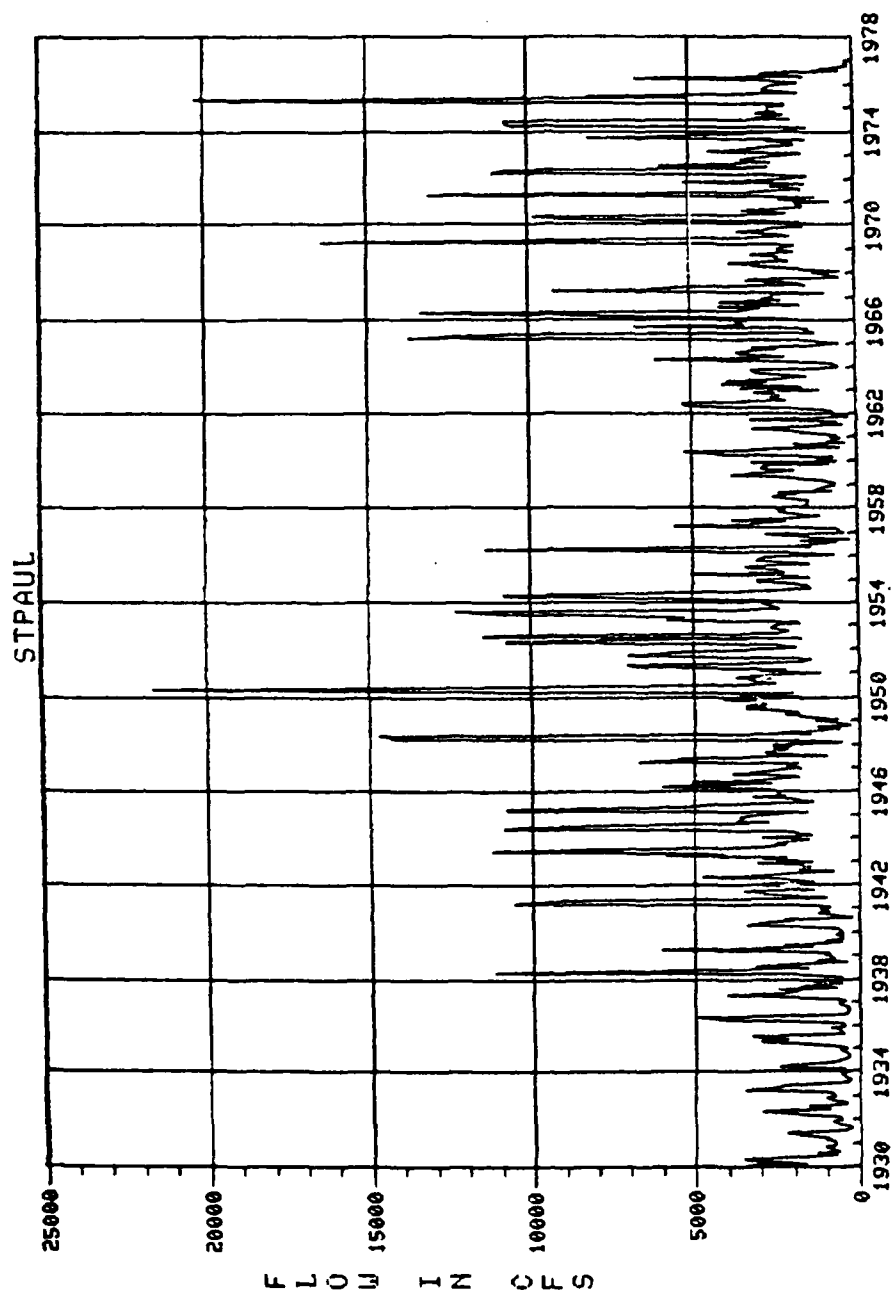
ELEV IN FEET

— PINE RES. PLANNER ELEV

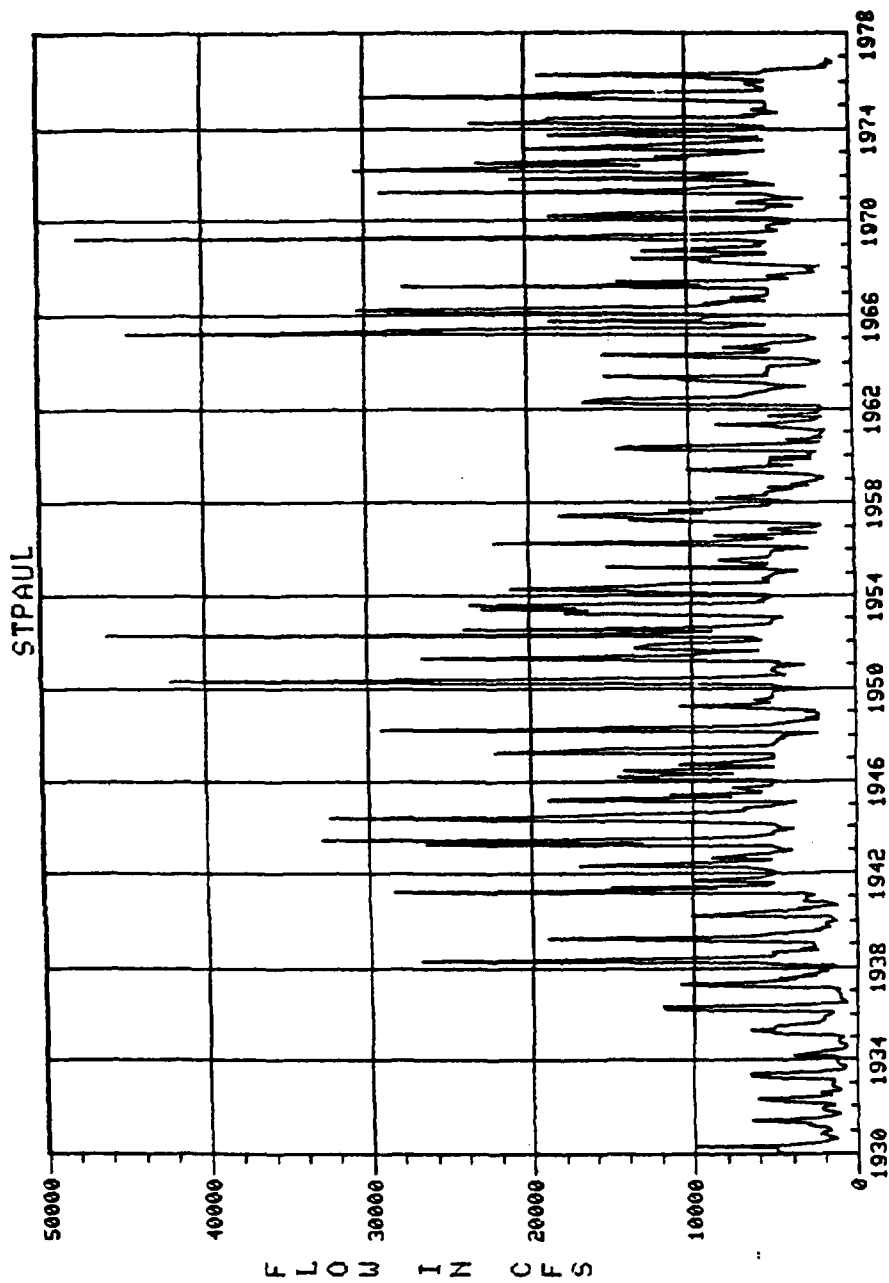
STPAUL



— GULL RES. PLANGER ELEV



— AITKIN PLANGR FLOW-REG



— ANOKA PLANS FLOW-REG

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1296.0	* 1	* 1950	* 1300.8	* 2.08	*
* 5	* -1	* 1931	* 1294.9	* 2	* 1966	* 1300.1	* 4.17	*
* 6	* -1	* 1932	* 1295.7	* 3	* 1975	* 1299.5	* 6.25	*
* 6	* -1	* 1933	* 1294.4	* 4	* 1953	* 1299.2	* 8.33	*
* 6	* -1	* 1934	* 1294.5	* 5	* 1969	* 1299.2	* 10.42	*
* 6	* -1	* 1935	* 1293.6	* 6	* 1974	* 1299.2	* 12.50	*
* 6	* -1	* 1936	* 1293.9	* 7	* 1943	* 1299.0	* 14.58	*
* 7	* -1	* 1937	* 1295.7	* 8	* 1954	* 1299.0	* 16.67	*
* 7	* -1	* 1938	* 1298.3	* 9	* 1967	* 1298.9	* 18.75	*
* 6	* -1	* 1939	* 1295.9	* 10	* 1952	* 1298.8	* 20.83	*
* 6	* -1	* 1940	* 1296.8	* 11	* 1972	* 1298.8	* 22.92	*
* 7	* -1	* 1941	* 1297.7	* 12	* 1945	* 1298.6	* 25.00	*
* 9	* -1	* 1942	* 1295.9	* 13	* 1947	* 1298.4	* 27.08	*
* 6	* -1	* 1943	* 1299.0	* 14	* 1951	* 1298.4	* 29.17	*
* 7	* -1	* 1944	* 1298.4	* 15	* 1962	* 1298.4	* 31.25	*
* 6	* -1	* 1945	* 1298.6	* 16	* 1944	* 1298.4	* 33.33	*
* 7	* -1	* 1946	* 1298.4	* 17	* 1946	* 1298.4	* 35.42	*
* 7	* -1	* 1947	* 1298.4	* 18	* 1949	* 1298.4	* 37.50	*
* 6	* -1	* 1948	* 1297.2	* 19	* 1970	* 1298.4	* 39.58	*
* 8	* -1	* 1949	* 1298.4	* 20	* 1938	* 1298.3	* 41.67	*
* 6	* -1	* 1950	* 1300.8	* 21	* 1957	* 1298.2	* 43.75	*
* 6	* -1	* 1951	* 1298.4	* 22	* 1973	* 1298.1	* 45.83	*
* 8	* -1	* 1952	* 1298.8	* 23	* 1976	* 1297.9	* 47.92	*
* 8	* -1	* 1953	* 1299.2	* 24	* 1963	* 1297.8	* 50.00	*
* 5	* -1	* 1954	* 1299.0	* 25	* 1941	* 1297.7	* 52.08	*
* 7	* -1	* 1955	* 1297.3	* 26	* 1965	* 1297.7	* 54.17	*
* 6	* -1	* 1956	* 1296.2	* 27	* 1968	* 1297.6	* 56.25	*
* 9	* -1	* 1957	* 1298.2	* 28	* 1971	* 1297.4	* 58.33	*
* 5	* -1	* 1958	* 1295.6	* 29	* 1955	* 1297.3	* 60.42	*
* 8	* -1	* 1959	* 1295.5	* 30	* 1948	* 1297.2	* 62.50	*
* 7	* -1	* 1960	* 1295.4	* 31	* 1940	* 1296.8	* 64.58	*
* 6	* -1	* 1961	* 1294.9	* 32	* 1956	* 1296.2	* 66.67	*
* 7	* -1	* 1962	* 1298.4	* 33	* 1964	* 1296.1	* 68.75	*
* 7	* -1	* 1963	* 1297.8	* 34	* 1930	* 1296.0	* 70.83	*
* 7	* -1	* 1964	* 1296.1	* 35	* 1942	* 1295.9	* 72.92	*
* 7	* -1	* 1965	* 1297.7	* 36	* 1939	* 1295.9	* 75.00	*
* 6	* -1	* 1966	* 1300.1	* 37	* 1937	* 1295.7	* 77.08	*
* 6	* -1	* 1967	* 1298.9	* 38	* 1932	* 1295.7	* 79.17	*
* 8	* -1	* 1968	* 1297.6	* 39	* 1958	* 1295.6	* 81.25	*

* 5	* -1	* 1969	* 1299.2	* 40	* 1959	* 1295.5	* 83.33	*
* 7	* -1	* 1970	* 1298.4	* 41	* 1960	* 1295.4	* 85.42	*
* 7	* -1	* 1971	* 1297.4	* 42	* 1931	* 1294.9	* 87.50	*
* 6	* -1	* 1972	* 1298.8	* 43	* 1961	* 1294.9	* 89.58	*
* 7	* -1	* 1973	* 1298.1	* 44	* 1934	* 1294.5	* 91.67	*
* 6	* -1	* 1974	* 1299.2	* 45	* 1933	* 1294.4	* 93.75	*
* 6	* -1	* 1975	* 1299.5	* 46	* 1936	* 1293.9	* 95.83	*
* 5	* -1	* 1976	* 1297.9	* 47	* 1935	* 1293.6	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

.....EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1294.6	* 1	* 1935	* 1292.5	* 2.08	*
* 9	* -1	* 1931	* 1293.6	* 2	* 1936	* 1293.3	* 4.17	*
* 9	* -1	* 1932	* 1294.6	* 3	* 1933	* 1293.6	* 6.25	*
* 9	* -1	* 1933	* 1293.6	* 4	* 1931	* 1293.6	* 8.33	*
* 9	* -1	* 1934	* 1293.9	* 5	* 1934	* 1293.9	* 10.42	*
* 9	* -1	* 1935	* 1292.5	* 6	* 1942	* 1294.2	* 12.50	*
* 9	* -1	* 1936	* 1293.3	* 7	* 1958	* 1294.2	* 14.58	*
* 5	* -1	* 1937	* 1294.9	* 8	* 1961	* 1294.5	* 16.67	*
* 9	* -1	* 1938	* 1295.6	* 9	* 1930	* 1294.6	* 18.75	*
* 9	* -1	* 1939	* 1294.8	* 10	* 1957	* 1294.6	* 20.83	*
* 9	* -1	* 1940	* 1294.8	* 11	* 1932	* 1294.6	* 22.92	*
* 9	* -1	* 1941	* 1295.7	* 12	* 1964	* 1294.6	* 25.00	*
* 5	* -1	* 1942	* 1294.2	* 13	* 1940	* 1294.8	* 27.08	*
* 5	* -1	* 1943	* 1296.7	* 14	* 1976	* 1294.8	* 29.17	*
* 5	* -1	* 1944	* 1295.3	* 15	* 1939	* 1294.8	* 31.25	*
* 8	* -1	* 1945	* 1298.4	* 16	* 1960	* 1294.8	* 33.33	*

* 9	* -1	* 1946	* 1297.2	* 17	* 1959	* 1294.8	* 35.42	*
* 9	* -1	* 1947	* 1296.7	* 18	* 1937	* 1294.9	* 37.50	*
* 9	* -1	* 1948	* 1295.2	* 19	* 1949	* 1294.9	* 39.58	*
* 5	* -1	* 1949	* 1294.9	* 20	* 1956	* 1295.2	* 41.67	*
* 9	* -1	* 1950	* 1298.6	* 21	* 1948	* 1295.2	* 43.75	*
* 5	* -1	* 1951	* 1298.0	* 22	* 1944	* 1295.3	* 45.83	*
* 9	* -1	* 1952	* 1298.4	* 23	* 1970	* 1295.5	* 47.92	*
* 5	* -1	* 1953	* 1296.3	* 24	* 1938	* 1295.6	* 50.00	*
* 9	* -1	* 1954	* 1297.9	* 25	* 1968	* 1295.7	* 52.08	*
* 5	* -1	* 1955	* 1295.9	* 26	* 1941	* 1295.7	* 54.17	*
* 9	* -1	* 1956	* 1295.2	* 27	* 1955	* 1295.9	* 56.25	*
* 5	* -1	* 1957	* 1294.6	* 28	* 1971	* 1296.2	* 58.33	*
* 9	* -1	* 1958	* 1294.2	* 29	* 1962	* 1296.3	* 60.42	*
* 5	* -1	* 1959	* 1294.8	* 30	* 1953	* 1296.3	* 62.50	*
* 5	* -1	* 1960	* 1294.8	* 31	* 1963	* 1296.3	* 64.58	*
* 5	* -1	* 1961	* 1294.5	* 32	* 1965	* 1296.6	* 66.67	*
* 5	* -1	* 1962	* 1296.3	* 33	* 1943	* 1296.7	* 68.75	*
* 9	* -1	* 1963	* 1296.3	* 34	* 1947	* 1296.7	* 70.83	*
* 9	* -1	* 1964	* 1294.6	* 35	* 1967	* 1297.2	* 72.92	*
* 9	* -1	* 1965	* 1296.6	* 36	* 1946	* 1297.2	* 75.00	*
* 9	* -1	* 1966	* 1299.0	* 37	* 1969	* 1297.7	* 77.08	*
* 9	* -1	* 1967	* 1297.2	* 38	* 1973	* 1297.7	* 79.17	*
* 5	* -1	* 1968	* 1295.7	* 39	* 1954	* 1297.9	* 81.25	*
* 9	* -1	* 1969	* 1297.7	* 40	* 1951	* 1298.0	* 83.33	*
* 9	* -1	* 1970	* 1295.5	* 41	* 1972	* 1298.3	* 85.42	*
* 9	* -1	* 1971	* 1296.2	* 42	* 1952	* 1298.4	* 87.50	*
* 9	* -1	* 1972	* 1298.3	* 43	* 1945	* 1298.4	* 89.58	*
* 5	* -1	* 1973	* 1297.7	* 44	* 1975	* 1298.6	* 91.67	*
* 9	* -1	* 1974	* 1298.6	* 45	* 1974	* 1298.6	* 93.75	*
* 5	* -1	* 1975	* 1298.6	* 46	* 1950	* 1298.6	* 95.83	*
* 9	* -1	* 1976	* 1294.8	* 47	* 1966	* 1299.0	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED:*****ORDERED EVENTS:*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1294.0	* 1	* 1950	* 1295.5	* 2.08	*
* 6	* -1	* 1931	* 1292.8	* 2	* 1966	* 1295.4	* 4.17	*
* 6	* -1	* 1932	* 1293.3	* 3	* 1969	* 1295.3	* 6.25	*
* 6	* -1	* 1933	* 1293.3	* 4	* 1974	* 1295.3	* 8.33	*
* 5	* -1	* 1934	* 1292.6	* 5	* 1954	* 1295.3	* 10.42	*
* 7	* -1	* 1935	* 1293.1	* 6	* 1975	* 1295.2	* 12.50	*
* 5	* -1	* 1936	* 1293.2	* 7	* 1944	* 1295.1	* 14.58	*
* 7	* -1	* 1937	* 1293.3	* 8	* 1953	* 1295.1	* 16.67	*
* 6	* -1	* 1938	* 1294.3	* 9	* 1952	* 1295.1	* 18.75	*
* 6	* -1	* 1939	* 1293.4	* 10	* 1943	* 1295.0	* 20.83	*
* 6	* -1	* 1940	* 1293.6	* 11	* 1972	* 1295.0	* 22.92	*
* 9	* -1	* 1941	* 1294.0	* 12	* 1962	* 1294.9	* 25.00	*
* 7	* -1	* 1942	* 1294.3	* 13	* 1967	* 1294.9	* 27.08	*
* 6	* -1	* 1943	* 1295.0	* 14	* 1970	* 1294.8	* 29.17	*
* 7	* -1	* 1944	* 1295.1	* 15	* 1951	* 1294.8	* 31.25	*
* 5	* -1	* 1945	* 1294.8	* 16	* 1965	* 1294.8	* 33.33	*
* 7	* -1	* 1946	* 1294.7	* 17	* 1947	* 1294.8	* 35.42	*
* 7	* -1	* 1947	* 1294.8	* 18	* 1945	* 1294.8	* 37.50	*
* 5	* -1	* 1948	* 1293.9	* 19	* 1949	* 1294.7	* 39.58	*
* 8	* -1	* 1949	* 1294.7	* 20	* 1946	* 1294.7	* 41.67	*
* 6	* -1	* 1950	* 1295.5	* 21	* 1957	* 1294.6	* 43.75	*
* 7	* -1	* 1951	* 1294.8	* 22	* 1955	* 1294.4	* 45.83	*
* 8	* -1	* 1952	* 1295.1	* 23	* 1938	* 1294.3	* 47.92	*
* 8	* -1	* 1953	* 1295.1	* 24	* 1971	* 1294.3	* 50.00	*
* 5	* -1	* 1954	* 1295.3	* 25	* 1942	* 1294.3	* 52.08	*
* 7	* -1	* 1955	* 1294.4	* 26	* 1973	* 1294.3	* 54.17	*
* 5	* -1	* 1956	* 1293.4	* 27	* 1968	* 1294.3	* 56.25	*
* 7	* -1	* 1957	* 1294.6	* 28	* 1930	* 1294.0	* 58.33	*
* 7	* -1	* 1958	* 1294.0	* 29	* 1963	* 1294.0	* 60.42	*
* 8	* -1	* 1959	* 1293.6	* 30	* 1958	* 1294.0	* 62.50	*
* 6	* -1	* 1960	* 1293.9	* 31	* 1941	* 1294.0	* 64.58	*
* 6	* -1	* 1961	* 1293.3	* 32	* 1948	* 1293.9	* 66.67	*
* 6	* -1	* 1962	* 1294.9	* 33	* 1960	* 1293.9	* 68.75	*
* 7	* -1	* 1963	* 1294.0	* 34	* 1964	* 1293.8	* 70.83	*
* 7	* -1	* 1964	* 1293.8	* 35	* 1976	* 1293.8	* 72.92	*
* 6	* -1	* 1965	* 1294.8	* 36	* 1959	* 1293.6	* 75.00	*
* 5	* -1	* 1966	* 1295.4	* 37	* 1940	* 1293.6	* 77.08	*
* 5	* -1	* 1967	* 1294.9	* 38	* 1956	* 1293.4	* 79.17	*
* 7	* -1	* 1968	* 1294.3	* 39	* 1939	* 1293.4	* 81.25	*
* 5	* -1	* 1969	* 1295.3	* 40	* 1933	* 1293.3	* 83.33	*
* 5	* -1	* 1970	* 1294.8	* 41	* 1937	* 1293.3	* 85.42	*
* 7	* -1	* 1971	* 1294.3	* 42	* 1961	* 1293.3	* 87.50	*

* 5	* -1	* 1972	* 1295.0	* 43	* 1932	* 1293.3	* 89.58	*
* 9	* -1	* 1973	* 1294.3	* 44	* 1936	* 1293.2	* 91.67	*
* 6	* -1	* 1974	* 1295.3	* 45	* 1935	* 1293.1	* 93.75	*
* 7	* -1	* 1975	* 1295.2	* 46	* 1931	* 1292.8	* 95.83	*
* 5	* -1	* 1976	* 1293.8	* 47	* 1934	* 1292.6	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	9	-1	1930	*	1	1934	1291.9	2.08
*	9	-1	1931	*	2	1936	1292.0	4.17
*	9	-1	1932	*	3	1933	1292.3	6.25
*	9	-1	1933	*	4	1935	1292.3	8.33
*	9	-1	1934	*	5	1930	1292.3	10.42
*	9	-1	1935	*	6	1932	1292.4	12.50
*	9	-1	1936	*	7	1940	1292.4	14.58
*	9	-1	1937	*	8	1931	1292.4	16.67
*	9	-1	1938	*	9	1939	1292.5	18.75
*	9	-1	1939	*	10	1976	1292.6	20.83
*	9	-1	1940	*	11	1961	1292.6	22.92
*	5	-1	1941	*	12	1960	1292.7	25.00
*	5	-1	1942	*	13	1937	1292.7	27.08
*	5	-1	1943	*	14	1959	1292.9	29.17
*	5	-1	1944	*	15	1958	1292.9	31.25
*	8	-1	1945	*	16	1970	1292.9	33.33
*	5	-1	1946	*	17	1964	1292.9	35.42
*	9	-1	1947	*	18	1938	1293.0	37.50
*	9	-1	1948	*	19	1948	1293.1	39.58

*	5	-1	1949	*	20	1956	1293.1	41.67
*	9	-1	1950	*	21	1949	1293.2	43.75
*	5	-1	1951	*	22	1963	1293.5	45.83
*	5	-1	1952	*	23	1942	1293.6	47.92
*	5	-1	1953	*	24	1967	1293.6	50.00
*	9	-1	1954	*	25	1971	1293.7	52.08
*	5	-1	1955	*	26	1968	1293.7	54.17
*	9	-1	1956	*	27	1941	1293.8	56.25
*	5	-1	1957	*	28	1957	1293.8	58.33
*	9	-1	1958	*	29	1955	1293.9	60.42
*	5	-1	1959	*	30	1943	1293.9	62.50
*	9	-1	1960	*	31	1946	1294.0	64.58
*	8	-1	1961	*	32	1973	1294.0	66.67
*	5	-1	1962	*	33	1944	1294.1	68.75
*	5	-1	1963	*	34	1965	1294.1	70.83
*	9	-1	1964	*	35	1962	1294.2	72.92
*	5	-1	1965	*	36	1969	1294.3	75.00
*	7	-1	1966	*	37	1947	1294.3	77.08
*	9	-1	1967	*	38	1951	1294.3	79.17
*	5	-1	1968	*	39	1945	1294.3	81.25
*	9	-1	1969	*	40	1953	1294.3	83.33
*	9	-1	1970	*	41	1950	1294.3	85.42
*	9	-1	1971	*	42	1972	1294.6	87.50
*	6	-1	1972	*	43	1952	1294.7	89.58
*	5	-1	1973	*	44	1954	1294.8	91.67
*	9	-1	1974	*	45	1975	1294.8	93.75
*	9	-1	1975	*	46	1974	1294.9	95.83
*	9	-1	1976	*	47	1966	1295.0	97.92

- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 5	* -1	* 1930	* 1273.2	* 1	* 1950	* 1276.4	* 2.08	*
* 6	* -1	* 1931	* 1271.4	* 2	* 1953	* 1276.4	* 4.17	*
* 5	* -1	* 1932	* 1272.8	* 3	* 1966	* 1276.4	* 6.25	*
* 6	* -1	* 1933	* 1273.7	* 4	* 1969	* 1276.4	* 8.33	*
* 5	* -1	* 1934	* 1268.8	* 5	* 1975	* 1276.4	* 10.42	*
* 6	* -1	* 1935	* 1272.0	* 6	* 1948	* 1276.3	* 12.50	*
* 5	* -1	* 1936	* 1272.8	* 7	* 1971	* 1276.3	* 14.58	*
* 6	* -1	* 1937	* 1273.7	* 8	* 1938	* 1276.2	* 16.67	*
* 5	* -1	* 1938	* 1276.2	* 9	* 1972	* 1276.0	* 18.75	*
* 6	* -1	* 1939	* 1272.7	* 10	* 1954	* 1275.9	* 20.83	*
* 7	* -1	* 1940	* 1273.7	* 11	* 1952	* 1275.4	* 22.92	*
* 5	* -1	* 1941	* 1273.7	* 12	* 1965	* 1274.8	* 25.00	*
* 6	* -1	* 1942	* 1273.7	* 13	* 1943	* 1274.8	* 27.08	*
* 6	* -1	* 1943	* 1274.8	* 14	* 1944	* 1274.6	* 29.17	*
* 6	* -1	* 1944	* 1274.6	* 15	* 1974	* 1274.5	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1940	* 1273.7	* 33.33	*
* 7	* -1	* 1946	* 1273.7	* 17	* 1946	* 1273.7	* 35.42	*
* 6	* -1	* 1947	* 1273.7	* 18	* 1947	* 1273.7	* 37.50	*
* 5	* -1	* 1948	* 1276.3	* 19	* 1949	* 1273.7	* 39.58	*
* 8	* -1	* 1949	* 1273.7	* 20	* 1951	* 1273.7	* 41.67	*
* 5	* -1	* 1950	* 1276.4	* 21	* 1945	* 1273.7	* 43.75	*
* 6	* -1	* 1951	* 1273.7	* 22	* 1955	* 1273.7	* 45.83	*
* 8	* -1	* 1952	* 1275.4	* 23	* 1956	* 1273.7	* 47.92	*
* 8	* -1	* 1953	* 1276.4	* 24	* 1957	* 1273.7	* 50.00	*
* 5	* -1	* 1954	* 1275.9	* 25	* 1959	* 1273.7	* 52.08	*
* 8	* -1	* 1955	* 1273.7	* 26	* 1960	* 1273.7	* 54.17	*
* 5	* -1	* 1956	* 1273.7	* 27	* 1962	* 1273.7	* 56.25	*
* 6	* -1	* 1957	* 1273.7	* 28	* 1963	* 1273.7	* 58.33	*
* 7	* -1	* 1958	* 1271.7	* 29	* 1941	* 1273.7	* 60.42	*
* 6	* -1	* 1959	* 1273.7	* 30	* 1967	* 1273.7	* 62.50	*
* 6	* -1	* 1960	* 1273.7	* 31	* 1933	* 1273.7	* 64.58	*
* 5	* -1	* 1961	* 1272.8	* 32	* 1970	* 1273.7	* 66.67	*
* 6	* -1	* 1962	* 1273.7	* 33	* 1937	* 1273.7	* 68.75	*
* 6	* -1	* 1963	* 1273.7	* 34	* 1973	* 1273.7	* 70.83	*
* 6	* -1	* 1964	* 1273.2	* 35	* 1942	* 1273.7	* 72.92	*
* 5	* -1	* 1965	* 1274.8	* 36	* 1968	* 1273.6	* 75.00	*
* 5	* -1	* 1966	* 1276.4	* 37	* 1964	* 1273.2	* 77.08	*
* 5	* -1	* 1967	* 1273.7	* 38	* 1930	* 1273.2	* 79.17	*
* 7	* -1	* 1968	* 1273.6	* 39	* 1961	* 1272.8	* 81.25	*
* 5	* -1	* 1969	* 1276.4	* 40	* 1936	* 1272.8	* 83.33	*
* 5	* -1	* 1970	* 1273.7	* 41	* 1932	* 1272.8	* 85.42	*
* 5	* -1	* 1971	* 1276.3	* 42	* 1939	* 1272.7	* 87.50	*
* 5	* -1	* 1972	* 1276.0	* 43	* 1976	* 1272.2	* 89.58	*
* 9	* -1	* 1973	* 1273.7	* 44	* 1935	* 1272.0	* 91.67	*

* 6	* -1	* 1974	* 1274.5	* 45	* 1958	* 1271.7	* 93.75	*
* 5	* -1	* 1975	* 1276.4	* 46	* 1931	* 1271.4	* 95.83	*
* 6	* -1	* 1976	* 1272.2	* 47	* 1934	* 1268.8	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1268.8	* 1	* 1936	* 1267.5	* 2.08	*
* 5	* -1	* 1931	* 1268.8	* 2	* 1933	* 1268.3	* 4.17	*
* 9	* -1	* 1932	* 1268.6	* 3	* 1934	* 1268.4	* 6.25	*
* 9	* -1	* 1933	* 1268.3	* 4	* 1940	* 1268.5	* 8.33	*
* 9	* -1	* 1934	* 1268.4	* 5	* 1932	* 1268.6	* 10.42	*
* 9	* -1	* 1935	* 1268.8	* 6	* 1930	* 1268.8	* 12.50	*
* 9	* -1	* 1936	* 1267.5	* 7	* 1937	* 1268.8	* 14.58	*
* 8	* -1	* 1937	* 1268.8	* 8	* 1931	* 1268.8	* 16.67	*
* 9	* -1	* 1938	* 1270.2	* 9	* 1964	* 1268.8	* 18.75	*
* 8	* -1	* 1939	* 1270.2	* 10	* 1935	* 1268.8	* 20.83	*
* 9	* -1	* 1940	* 1268.5	* 11	* 1967	* 1269.9	* 22.92	*
* 8	* -1	* 1941	* 1270.7	* 12	* 1958	* 1270.1	* 25.00	*
* 7	* -1	* 1942	* 1272.7	* 13	* 1938	* 1270.2	* 27.08	*
* 9	* -1	* 1943	* 1271.4	* 14	* 1939	* 1270.2	* 29.17	*
* 5	* -1	* 1944	* 1272.8	* 15	* 1959	* 1270.3	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1969	* 1270.6	* 33.33	*
* 8	* -1	* 1946	* 1271.4	* 17	* 1941	* 1270.7	* 35.42	*
* 8	* -1	* 1947	* 1271.4	* 18	* 1970	* 1270.7	* 37.50	*
* 8	* -1	* 1948	* 1271.4	* 19	* 1961	* 1270.8	* 39.58	*
* 9	* -1	* 1949	* 1271.4	* 20	* 1976	* 1270.9	* 41.67	*
* 8	* -1	* 1950	* 1271.4	* 21	* 1968	* 1271.3	* 43.75	*

* 5	* -1	* 1951	* 1273.1	* 22	* 1956	* 1271.4	* 45.83	*
* 6	* -1	* 1952	* 1273.7	* 23	* 1946	* 1271.4	* 47.92	*
* 5	* -1	* 1953	* 1272.8	* 24	* 1960	* 1271.4	* 50.00	*
* 8	* -1	* 1954	* 1272.3	* 25	* 1948	* 1271.4	* 52.08	*
* 5	* -1	* 1955	* 1272.7	* 26	* 1963	* 1271.4	* 54.17	*
* 7	* -1	* 1956	* 1271.4	* 27	* 1943	* 1271.4	* 56.25	*
* 5	* -1	* 1957	* 1272.8	* 28	* 1950	* 1271.4	* 58.33	*
* 9	* -1	* 1958	* 1270.1	* 29	* 1947	* 1271.4	* 60.42	*
* 9	* -1	* 1959	* 1270.3	* 30	* 1971	* 1271.4	* 62.50	*
* 7	* -1	* 1960	* 1271.4	* 31	* 1974	* 1271.4	* 64.58	*
* 9	* -1	* 1961	* 1270.8	* 32	* 1949	* 1271.4	* 66.67	*
* 5	* -1	* 1962	* 1272.8	* 33	* 1965	* 1272.1	* 68.75	*
* 9	* -1	* 1963	* 1271.4	* 34	* 1954	* 1272.3	* 70.83	*
* 8	* -1	* 1964	* 1268.8	* 35	* 1973	* 1272.5	* 72.92	*
* 7	* -1	* 1965	* 1272.1	* 36	* 1942	* 1272.7	* 75.00	*
* 9	* -1	* 1966	* 1273.5	* 37	* 1955	* 1272.7	* 77.08	*
* 9	* -1	* 1967	* 1269.9	* 38	* 1957	* 1272.8	* 79.17	*
* 8	* -1	* 1968	* 1271.3	* 39	* 1944	* 1272.8	* 81.25	*
* 9	* -1	* 1969	* 1270.6	* 40	* 1962	* 1272.8	* 83.33	*
* 9	* -1	* 1970	* 1270.7	* 41	* 1953	* 1272.8	* 85.42	*
* 8	* -1	* 1971	* 1271.4	* 42	* 1975	* 1272.8	* 87.50	*
* 9	* -1	* 1972	* 1273.6	* 43	* 1951	* 1273.1	* 89.58	*
* 7	* -1	* 1973	* 1272.5	* 44	* 1966	* 1273.5	* 91.67	*
* 9	* -1	* 1974	* 1271.4	* 45	* 1972	* 1273.6	* 93.75	*
* 8	* -1	* 1975	* 1272.8	* 46	* 1952	* 1273.7	* 95.83	*
* 8	* -1	* 1976	* 1270.9	* 47	* 1945	* 1273.7	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1216.6	* 1	* 1943	* 1218.3	* 2.08	*
* 7	* -1	* 1931	* 1216.6	* 2	* 1938	* 1218.3	* 4.17	*
* 6	* -1	* 1932	* 1216.6	* 3	* 1944	* 1218.3	* 6.25	*
* 6	* -1	* 1933	* 1216.5	* 4	* 1948	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1216.6	* 5	* 1950	* 1218.3	* 10.42	*
* 6	* -1	* 1935	* 1216.6	* 6	* 1952	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.6	* 7	* 1953	* 1218.3	* 14.58	*
* 6	* -1	* 1937	* 1216.6	* 8	* 1954	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1218.3	* 9	* 1956	* 1218.3	* 18.75	*
* 6	* -1	* 1939	* 1216.6	* 10	* 1965	* 1218.3	* 20.83	*
* 6	* -1	* 1940	* 1216.6	* 11	* 1966	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1218.1	* 12	* 1969	* 1218.3	* 25.00	*
* 6	* -1	* 1942	* 1216.6	* 13	* 1971	* 1218.3	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1972	* 1218.3	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1974	* 1218.3	* 31.25	*
* 5	* -1	* 1945	* 1216.6	* 16	* 1975	* 1218.3	* 33.33	*
* 6	* -1	* 1946	* 1216.6	* 17	* 1941	* 1218.1	* 35.42	*
* 6	* -1	* 1947	* 1216.6	* 18	* 1970	* 1217.6	* 37.50	*
* 5	* -1	* 1948	* 1218.3	* 19	* 1967	* 1217.5	* 39.58	*
* 6	* -1	* 1949	* 1216.6	* 20	* 1951	* 1216.8	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1945	* 1216.6	* 43.75	*
* 9	* -1	* 1951	* 1216.8	* 22	* 1949	* 1216.6	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1935	* 1216.6	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1936	* 1216.6	* 50.00	*
* 5	* -1	* 1954	* 1218.3	* 25	* 1937	* 1216.6	* 52.08	*
* 6	* -1	* 1955	* 1216.6	* 26	* 1955	* 1216.6	* 54.17	*
* 5	* -1	* 1956	* 1218.3	* 27	* 1931	* 1216.6	* 56.25	*
* 6	* -1	* 1957	* 1216.6	* 28	* 1957	* 1216.6	* 58.33	*
* 8	* -1	* 1958	* 1216.6	* 29	* 1958	* 1216.6	* 60.42	*
* 6	* -1	* 1959	* 1216.6	* 30	* 1959	* 1216.6	* 62.50	*
* 6	* -1	* 1960	* 1216.6	* 31	* 1960	* 1216.6	* 64.58	*
* 6	* -1	* 1961	* 1216.5	* 32	* 1962	* 1216.6	* 66.67	*
* 6	* -1	* 1962	* 1216.6	* 33	* 1963	* 1216.6	* 68.75	*
* 6	* -1	* 1963	* 1216.6	* 34	* 1964	* 1216.6	* 70.83	*
* 6	* -1	* 1964	* 1216.6	* 35	* 1939	* 1216.6	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1940	* 1216.6	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1968	* 1216.6	* 77.08	*
* 5	* -1	* 1967	* 1217.5	* 38	* 1946	* 1216.6	* 79.17	*
* 6	* -1	* 1968	* 1216.6	* 39	* 1947	* 1216.6	* 81.25	*
* 5	* -1	* 1969	* 1218.3	* 40	* 1942	* 1216.6	* 83.33	*
* 5	* -1	* 1970	* 1217.6	* 41	* 1930	* 1216.6	* 85.42	*
* 5	* -1	* 1971	* 1218.3	* 42	* 1973	* 1216.6	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1932	* 1216.6	* 89.58	*
* 6	* -1	* 1973	* 1216.6	* 44	* 1934	* 1216.6	* 91.67	*
* 5	* -1	* 1974	* 1218.3	* 45	* 1961	* 1216.5	* 93.75	*

* 5	* -1	* 1975	* 1218.3	* 46	* 1933	* 1216.5	* 95.83	*
* 7	* -1	* 1976	* 1216.3	* 47	* 1976	* 1216.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	* *
* 9	* -1	* 1930	* 1215.4	* 1	* 1931	* 1214.9	* 2.08	* *
* 5	* -1	* 1931	* 1214.9	* 2	* 1958	* 1215.0	* 4.17	* *
* 9	* -1	* 1932	* 1216.2	* 3	* 1930	* 1215.4	* 6.25	* *
* 5	* -1	* 1933	* 1215.6	* 4	* 1976	* 1215.5	* 8.33	* *
* 9	* -1	* 1934	* 1215.7	* 5	* 1936	* 1215.6	* 10.42	* *
* 5	* -1	* 1935	* 1216.3	* 6	* 1933	* 1215.6	* 12.50	* *
* 9	* -1	* 1936	* 1215.6	* 7	* 1970	* 1215.7	* 14.58	* *
* 9	* -1	* 1937	* 1216.3	* 8	* 1934	* 1215.7	* 16.67	* *
* 9	* -1	* 1938	* 1216.4	* 9	* 1959	* 1215.8	* 18.75	* *
* 5	* -1	* 1939	* 1216.3	* 10	* 1961	* 1215.9	* 20.83	* *
* 9	* -1	* 1940	* 1216.1	* 11	* 1947	* 1216.1	* 22.92	* *
* 6	* -1	* 1941	* 1216.6	* 12	* 1940	* 1216.1	* 25.00	* *
* 5	* -1	* 1942	* 1216.2	* 13	* 1942	* 1216.2	* 27.08	* *
* 5	* -1	* 1943	* 1216.3	* 14	* 1967	* 1216.2	* 29.17	* *
* 5	* -1	* 1944	* 1216.3	* 15	* 1950	* 1216.2	* 31.25	* *
* 6	* -1	* 1945	* 1216.6	* 16	* 1932	* 1216.2	* 33.33	* *
* 5	* -1	* 1946	* 1216.3	* 17	* 1937	* 1216.3	* 35.42	* *
* 9	* -1	* 1947	* 1216.1	* 18	* 1949	* 1216.3	* 37.50	* *
* 9	* -1	* 1948	* 1216.4	* 19	* 1944	* 1216.3	* 39.58	* *
* 5	* -1	* 1949	* 1216.3	* 20	* 1951	* 1216.3	* 41.67	* *
* 9	* -1	* 1950	* 1216.2	* 21	* 1953	* 1216.3	* 43.75	* *
* 5	* -1	* 1951	* 1216.3	* 22	* 1955	* 1216.3	* 45.83	* *

* 6	* -1	* 1952	* 1216.6	* 23	* 1957	* 1216.3	* 47.92	* *
* 5	* -1	* 1953	* 1216.3	* 24	* 1960	* 1216.3	* 50.00	* *
* 6	* -1	* 1954	* 1216.6	* 25	* 1939	* 1216.3	* 52.08	* *
* 5	* -1	* 1955	* 1216.3	* 26	* 1962	* 1216.3	* 54.17	* *
* 9	* -1	* 1956	* 1216.5	* 27	* 1963	* 1216.3	* 56.25	* *
* 5	* -1	* 1957	* 1216.3	* 28	* 1964	* 1216.3	* 58.33	* *
* 5	* -1	* 1958	* 1215.0	* 29	* 1943	* 1216.3	* 60.42	* *
* 5	* -1	* 1959	* 1215.8	* 30	* 1968	* 1216.3	* 62.50	* *
* 5	* -1	* 1960	* 1216.3	* 31	* 1946	* 1216.3	* 64.58	* *
* 9	* -1	* 1961	* 1215.9	* 32	* 1973	* 1216.3	* 66.67	* *
* 5	* -1	* 1962	* 1216.3	* 33	* 1935	* 1216.3	* 68.75	* *
* 5	* -1	* 1963	* 1216.3	* 34	* 1969	* 1216.4	* 70.83	* *
* 5	* -1	* 1964	* 1216.3	* 35	* 1948	* 1216.4	* 72.92	* *
* 8	* -1	* 1965	* 1216.6	* 36	* 1938	* 1216.4	* 75.00	* *
* 7	* -1	* 1966	* 1216.6	* 37	* 1975	* 1216.4	* 77.08	* *
* 9	* -1	* 1967	* 1216.2	* 38	* 1971	* 1216.5	* 79.17	* *
* 5	* -1	* 1968	* 1216.3	* 39	* 1956	* 1216.5	* 81.25	* *
* 9	* -1	* 1969	* 1216.4	* 40	* 1965	* 1216.6	* 83.33	* *
* 9	* -1	* 1970	* 1215.7	* 41	* 1952	* 1216.6	* 85.42	* *
* 9	* -1	* 1971	* 1216.5	* 42	* 1945	* 1216.6	* 87.50	* *
* 7	* -1	* 1972	* 1216.6	* 43	* 1972	* 1216.6	* 89.58	* *
* 5	* -1	* 1973	* 1216.3	* 44	* 1954	* 1216.6	* 91.67	* *
* 7	* -1	* 1974	* 1216.6	* 45	* 1974	* 1216.6	* 93.75	* *
* 9	* -1	* 1975	* 1216.4	* 46	* 1966	* 1216.6	* 95.83	* *
* 9	* -1	* 1976	* 1215.5	* 47	* 1941	* 1216.6	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS
* 6	* -1	* 1930	* 1229.6	* 1	* 1950	* 1230.4	* 2.08
* 7	* -1	* 1931	* 1229.6	* 2	* 1965	* 1230.0	* 4.17
* 6	* -1	* 1932	* 1229.2	* 3	* 1943	* 1229.9	* 6.25
* 6	* -1	* 1933	* 1229.6	* 4	* 1944	* 1229.6	* 8.33
* 6	* -1	* 1934	* 1228.3	* 5	* 1966	* 1229.6	* 10.42
* 7	* -1	* 1935	* 1229.6	* 6	* 1938	* 1229.6	* 12.50
* 6	* -1	* 1936	* 1229.6	* 7	* 1945	* 1229.6	* 14.58
* 7	* -1	* 1937	* 1229.6	* 8	* 1937	* 1229.6	* 16.67
* 5	* -1	* 1938	* 1229.6	* 9	* 1935	* 1229.6	* 18.75
* 7	* -1	* 1939	* 1229.5	* 10	* 1941	* 1229.6	* 20.83
* 6	* -1	* 1940	* 1229.5	* 11	* 1942	* 1229.6	* 22.92
* 5	* -1	* 1941	* 1229.6	* 12	* 1933	* 1229.6	* 25.00
* 6	* -1	* 1942	* 1229.6	* 13	* 1946	* 1229.6	* 27.08
* 6	* -1	* 1943	* 1229.9	* 14	* 1947	* 1229.6	* 29.17
* 6	* -1	* 1944	* 1229.6	* 15	* 1948	* 1229.6	* 31.25
* 5	* -1	* 1945	* 1229.6	* 16	* 1949	* 1229.6	* 33.33
* 7	* -1	* 1946	* 1229.6	* 17	* 1930	* 1229.6	* 35.42
* 6	* -1	* 1947	* 1229.6	* 18	* 1951	* 1229.6	* 37.50
* 5	* -1	* 1948	* 1229.6	* 19	* 1952	* 1229.6	* 39.58
* 7	* -1	* 1949	* 1229.6	* 20	* 1953	* 1229.6	* 41.67
* 5	* -1	* 1950	* 1230.4	* 21	* 1954	* 1229.6	* 43.75
* 6	* -1	* 1951	* 1229.6	* 22	* 1955	* 1229.6	* 45.83
* 5	* -1	* 1952	* 1229.6	* 23	* 1956	* 1229.6	* 47.92
* 6	* -1	* 1953	* 1229.6	* 24	* 1957	* 1229.6	* 50.00
* 5	* -1	* 1954	* 1229.6	* 25	* 1959	* 1229.6	* 52.08
* 7	* -1	* 1955	* 1229.6	* 26	* 1960	* 1229.6	* 54.17
* 5	* -1	* 1956	* 1229.6	* 27	* 1962	* 1229.6	* 56.25
* 7	* -1	* 1957	* 1229.6	* 28	* 1963	* 1229.6	* 58.33
* 9	* -1	* 1958	* 1228.9	* 29	* 1964	* 1229.6	* 60.42
* 7	* -1	* 1959	* 1229.6	* 30	* 1931	* 1229.6	* 62.50
* 6	* -1	* 1960	* 1229.6	* 31	* 1967	* 1229.6	* 64.58
* 8	* -1	* 1961	* 1229.3	* 32	* 1968	* 1229.6	* 66.67
* 6	* -1	* 1962	* 1229.6	* 33	* 1969	* 1229.6	* 68.75
* 7	* -1	* 1963	* 1229.6	* 34	* 1970	* 1229.6	* 70.83
* 6	* -1	* 1964	* 1229.6	* 35	* 1971	* 1229.6	* 72.92
* 6	* -1	* 1965	* 1230.0	* 36	* 1972	* 1229.6	* 75.00
* 5	* -1	* 1966	* 1229.6	* 37	* 1973	* 1229.6	* 77.08
* 5	* -1	* 1967	* 1229.6	* 38	* 1974	* 1229.6	* 79.17
* 6	* -1	* 1968	* 1229.6	* 39	* 1975	* 1229.6	* 81.25
* 5	* -1	* 1969	* 1229.6	* 40	* 1936	* 1229.6	* 83.33
* 5	* -1	* 1970	* 1229.6	* 41	* 1940	* 1229.5	* 85.42
* 5	* -1	* 1971	* 1229.6	* 42	* 1939	* 1229.5	* 87.50
* 5	* -1	* 1972	* 1229.6	* 43	* 1961	* 1229.3	* 89.58
* 7	* -1	* 1973	* 1229.6	* 44	* 1932	* 1229.2	* 91.67
* 5	* -1	* 1974	* 1229.6	* 45	* 1958	* 1228.9	* 93.75
* 5	* -1	* 1975	* 1229.6	* 46	* 1976	* 1228.8	* 95.83
* 7	* -1	* 1976	* 1228.8	* 47	* 1934	* 1228.3	* 97.92

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*	
*	5	-1	1930	*	1	1934	1227.6	2.08	*
*	5	-1	1931	*	2	1976	1227.9	4.17	*
*	5	-1	1932	*	3	1958	1228.0	6.25	*
*	5	-1	1933	*	4	1931	1228.1	8.33	*
*	9	-1	1934	*	5	1959	1228.6	10.42	*
*	5	-1	1935	*	6	1932	1228.6	12.50	*
*	9	-1	1936	*	7	1955	1228.6	14.58	*
*	5	-1	1937	*	8	1936	1228.7	16.67	*
*	8	-1	1938	*	9	1939	1228.7	18.75	*
*	5	-1	1939	*	10	1933	1228.7	20.83	*
*	5	-1	1940	*	11	1961	1228.7	22.92	*
*	5	-1	1941	*	12	1946	1228.8	25.00	*
*	5	-1	1942	*	13	1935	1228.8	27.08	*
*	5	-1	1943	*	14	1963	1228.8	29.17	*
*	5	-1	1944	*	15	1930	1228.9	31.25	*
*	6	-1	1945	*	16	1949	1228.9	33.33	*
*	5	-1	1946	*	17	1937	1228.9	35.42	*
*	5	-1	1947	*	18	1957	1228.9	37.50	*
*	5	-1	1948	*	19	1940	1228.9	39.58	*
*	5	-1	1949	*	20	1973	1228.9	41.67	*
*	7	-1	1950	*	21	1951	1228.9	43.75	*
*	5	-1	1951	*	22	1953	1228.9	45.83	*
*	5	-1	1952	*	23	1947	1228.9	47.92	*
*	5	-1	1953	*	24	1942	1228.9	50.00	*
*	5	-1	1954	*	25	1944	1228.9	52.08	*

*	5	-1	1955	*	26	1960	1228.9	54.17	*
*	9	-1	1956	*	27	1962	1228.9	56.25	*
*	5	-1	1957	*	28	1943	1228.9	58.33	*
*	5	-1	1958	*	29	1964	1228.9	60.42	*
*	5	-1	1959	*	30	1968	1228.9	62.50	*
*	5	-1	1960	*	31	1970	1229.0	64.58	*
*	5	-1	1961	*	32	1967	1229.4	66.67	*
*	5	-1	1962	*	33	1969	1229.5	68.75	*
*	5	-1	1963	*	34	1956	1229.5	70.83	*
*	5	-1	1964	*	35	1938	1229.5	72.92	*
*	5	-1	1965	*	36	1965	1229.6	75.00	*
*	6	-1	1966	*	37	1966	1229.6	77.08	*
*	9	-1	1967	*	38	1948	1229.6	79.17	*
*	5	-1	1968	*	39	1954	1229.6	81.25	*
*	8	-1	1969	*	40	1952	1229.6	83.33	*
*	9	-1	1970	*	41	1941	1229.6	85.42	*
*	5	-1	1971	*	42	1971	1229.6	87.50	*
*	5	-1	1972	*	43	1972	1229.6	89.58	*
*	5	-1	1973	*	44	1945	1229.6	91.67	*
*	5	-1	1974	*	45	1974	1229.6	93.75	*
*	5	-1	1975	*	46	1975	1229.6	95.83	*
*	9	-1	1976	*	47	1950	1229.6	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1194.0	* 1	* 1950	* 1194.8	* 2.08	*
* 7	* -1	* 1931	* 1193.9	* 2	* 1938	* 1194.5	* 4.17	*
* 6	* -1	* 1932	* 1193.5	* 3	* 1944	* 1194.4	* 6.25	*
* 6	* -1	* 1933	* 1194.0	* 4	* 1975	* 1194.3	* 8.33	*
* 5	* -1	* 1934	* 1193.0	* 5	* 1965	* 1194.2	* 10.42	*
* 7	* -1	* 1935	* 1194.0	* 6	* 1943	* 1194.1	* 12.50	*
* 6	* -1	* 1936	* 1193.9	* 7	* 1952	* 1194.1	* 14.58	*
* 6	* -1	* 1937	* 1194.0	* 8	* 1937	* 1194.0	* 16.67	*
* 5	* -1	* 1938	* 1194.5	* 9	* 1941	* 1194.0	* 18.75	*
* 7	* -1	* 1939	* 1193.9	* 10	* 1942	* 1194.0	* 20.83	*
* 6	* -1	* 1940	* 1193.8	* 11	* 1935	* 1194.0	* 22.92	*
* 5	* -1	* 1941	* 1194.0	* 12	* 1945	* 1194.0	* 25.00	*
* 6	* -1	* 1942	* 1194.0	* 13	* 1946	* 1194.0	* 27.08	*
* 6	* -1	* 1943	* 1194.1	* 14	* 1947	* 1194.0	* 29.17	*
* 6	* -1	* 1944	* 1194.4	* 15	* 1948	* 1194.0	* 31.25	*
* 5	* -1	* 1945	* 1194.0	* 16	* 1949	* 1194.0	* 33.33	*
* 7	* -1	* 1946	* 1194.0	* 17	* 1951	* 1194.0	* 35.42	*
* 6	* -1	* 1947	* 1194.0	* 18	* 1953	* 1194.0	* 37.50	*
* 5	* -1	* 1948	* 1194.0	* 19	* 1954	* 1194.0	* 39.58	*
* 6	* -1	* 1949	* 1194.0	* 20	* 1955	* 1194.0	* 41.67	*
* 5	* -1	* 1950	* 1194.8	* 21	* 1956	* 1194.0	* 43.75	*
* 6	* -1	* 1951	* 1194.0	* 22	* 1957	* 1194.0	* 45.83	*
* 7	* -1	* 1952	* 1194.1	* 23	* 1958	* 1194.0	* 47.92	*
* 6	* -1	* 1953	* 1194.0	* 24	* 1959	* 1194.0	* 50.00	*
* 5	* -1	* 1954	* 1194.0	* 25	* 1960	* 1194.0	* 52.08	*
* 8	* -1	* 1955	* 1194.0	* 26	* 1962	* 1194.0	* 54.17	*
* 5	* -1	* 1956	* 1194.0	* 27	* 1963	* 1194.0	* 56.25	*
* 7	* -1	* 1957	* 1194.0	* 28	* 1964	* 1194.0	* 58.33	*
* 8	* -1	* 1958	* 1194.0	* 29	* 1966	* 1194.0	* 60.42	*
* 6	* -1	* 1959	* 1194.0	* 30	* 1967	* 1194.0	* 62.50	*
* 6	* -1	* 1960	* 1194.0	* 31	* 1968	* 1194.0	* 64.58	*
* 8	* -1	* 1961	* 1193.6	* 32	* 1969	* 1194.0	* 66.67	*
* 6	* -1	* 1962	* 1194.0	* 33	* 1970	* 1194.0	* 68.75	*
* 9	* -1	* 1963	* 1194.0	* 34	* 1971	* 1194.0	* 70.83	*
* 9	* -1	* 1964	* 1194.0	* 35	* 1972	* 1194.0	* 72.92	*
* 6	* -1	* 1965	* 1194.2	* 36	* 1973	* 1194.0	* 75.00	*
* 5	* -1	* 1966	* 1194.0	* 37	* 1974	* 1194.0	* 77.08	*
* 5	* -1	* 1967	* 1194.0	* 38	* 1933	* 1194.0	* 79.17	*
* 7	* -1	* 1968	* 1194.0	* 39	* 1930	* 1194.0	* 81.25	*
* 5	* -1	* 1969	* 1194.0	* 40	* 1939	* 1193.9	* 83.33	*
* 5	* -1	* 1970	* 1194.0	* 41	* 1931	* 1193.9	* 85.42	*
* 5	* -1	* 1971	* 1194.0	* 42	* 1936	* 1193.9	* 87.50	*
* 5	* -1	* 1972	* 1194.0	* 43	* 1940	* 1193.8	* 89.58	*
* 6	* -1	* 1973	* 1194.0	* 44	* 1961	* 1193.6	* 91.67	*
* 5	* -1	* 1974	* 1194.0	* 45	* 1932	* 1193.5	* 93.75	*
* 5	* -1	* 1975	* 1194.3	* 46	* 1976	* 1193.5	* 95.83	*
* 7	* -1	* 1976	* 1193.5	* 47	* 1934	* 1193.0	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- GULL RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*	
*	9	-1	1930	*	1	1934	1192.5	2.08	*
*	5	-1	1931	*	2	1976	1192.6	4.17	*
*	9	-1	1932	*	3	1932	1192.6	6.25	*
*	9	-1	1933	*	4	1936	1192.9	8.33	*
*	9	-1	1934	*	5	1931	1193.0	10.42	*
*	5	-1	1935	*	6	1930	1193.0	12.50	*
*	9	-1	1936	*	7	1933	1193.1	14.58	*
*	5	-1	1937	*	8	1955	1193.4	16.67	*
*	8	-1	1938	*	9	1958	1193.4	18.75	*
*	5	-1	1939	*	10	1939	1193.4	20.83	*
*	5	-1	1940	*	11	1970	1193.5	22.92	*
*	7	-1	1941	*	12	1935	1193.5	25.00	*
*	5	-1	1942	*	13	1961	1193.5	27.08	*
*	5	-1	1943	*	14	1964	1193.5	29.17	*
*	5	-1	1944	*	15	1963	1193.5	31.25	*
*	6	-1	1945	*	16	1968	1193.5	33.33	*
*	5	-1	1946	*	17	1959	1193.6	35.42	*
*	5	-1	1947	*	18	1957	1193.6	37.50	*
*	6	-1	1948	*	19	1940	1193.6	39.58	*
*	5	-1	1949	*	20	1946	1193.6	41.67	*
*	9	-1	1950	*	21	1949	1193.6	43.75	*
*	5	-1	1951	*	22	1969	1193.6	45.83	*
*	9	-1	1952	*	23	1953	1193.6	47.92	*
*	5	-1	1953	*	24	1937	1193.6	50.00	*
*	5	-1	1954	*	25	1960	1193.6	52.08	*
*	5	-1	1955	*	26	1942	1193.6	54.17	*
*	9	-1	1956	*	27	1962	1193.6	56.25	*
*	5	-1	1957	*	28	1944	1193.6	58.33	*

*	5	-1	1958	*	29	1943	1193.6	60.42	*
*	5	-1	1959	*	30	1951	1193.6	62.50	*
*	5	-1	1960	*	31	1973	1193.6	64.58	*
*	5	-1	1961	*	32	1950	1193.7	66.67	*
*	5	-1	1962	*	33	1967	1193.8	68.75	*
*	5	-1	1963	*	34	1948	1193.9	70.83	*
*	5	-1	1964	*	35	1956	1193.9	72.92	*
*	8	-1	1965	*	36	1947	1193.9	75.00	*
*	9	-1	1966	*	37	1938	1193.9	77.08	*
*	9	-1	1967	*	38	1974	1193.9	79.17	*
*	5	-1	1968	*	39	1966	1193.9	81.25	*
*	9	-1	1969	*	40	1941	1193.9	83.33	*
*	9	-1	1970	*	41	1971	1194.0	85.42	*
*	9	-1	1971	*	42	1965	1194.0	87.50	*
*	5	-1	1972	*	43	1945	1194.0	89.58	*
*	5	-1	1973	*	44	1952	1194.0	91.67	*
*	9	-1	1974	*	45	1972	1194.0	93.75	*
*	6	-1	1975	*	46	1975	1194.0	95.83	*
*	9	-1	1976	*	47	1954	1194.0	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR FLOW,CFS * RANK WATER YEAR FLOW,CFS WEIBULL *
* * * * * * * * * * * * * * * * * * * * * * * * *
* 5 -1 1930 3499. * 1 1950 21595. 2.08 *
* 6 -1 1931 2180. * 2 1975 20217. 4.17 *
* 5 -1 1932 2950. * 3 1969 16309. 6.25 *
* 4 -1 1933 3441. * 4 1948 14715. 8.33 *
* 4 -1 1934 2444. * 5 1965 13688. 10.42 *
* 7 -1 1935 3287. * 6 1966 13314. 12.50 *
* 5 -1 1936 4903. * 7 1971 13007. 14.58 *
* 5 -1 1937 4031. * 8 1953 12249. 16.67 *
* 5 -1 1938 11150. * 9 1952 11428. 18.75 *
* 4 -1 1939 5995. * 10 1956 11326. 20.83 *
* 5 -1 1940 3422. * 11 1943 11201. 22.92 *
* 4 -1 1941 10543. * 12 1938 11150. 25.00 *
* 5 -1 1942 4743. * 13 1972 11047. 27.08 *
* 6 -1 1943 11201. * 14 1944 10881. 29.17 *
* 6 -1 1944 10881. * 15 1945 10791. 31.25 *
* 4 -1 1945 10791. * 16 1954 10760. 33.33 *
* 4 -1 1946 5977. * 17 1974 10666. 35.42 *
* 4 -1 1947 6647. * 18 1941 10543. 37.50 *
* 5 -1 1948 14715. * 19 1970 9777. 39.58 *
* 12 -1 1949 4045. * 20 1967 9203. 41.67 *
* 5 -1 1950 21595. * 21 1973 8065. 43.75 *
* 5 -1 1951 7062. * 22 1951 7062. 45.83 *
* 7 -1 1952 11428. * 23 1947 6647. 47.92 *
* 8 -1 1953 12249. * 24 1976 6623. 50.00 *
* 5 -1 1954 10760. * 25 1964 6042. 52.08 *

* 4 -1 1955 5040. * 26 1939 5995. 54.17 *
* 4 -1 1956 11326. * 27 1946 5977. 56.25 *
* 4 -1 1957 5489. * 28 1957 5489. 58.33 *
* 7 -1 1958 2511. * 29 1962 5220. 60.42 *
* 6 -1 1959 3794. * 30 1960 5166. 62.50 *
* 5 -1 1960 5166. * 31 1955 5040. 64.58 *
* 10 -1 1961 3205. * 32 1936 4903. 66.67 *
* 6 -1 1962 5220. * 33 1942 4743. 68.75 *
* 4 -1 1963 4019. * 34 1949 4045. 70.83 *
* 5 -1 1964 6042. * 35 1937 4031. 72.92 *
* 4 -1 1965 13688. * 36 1963 4019. 75.00 *
* 5 -1 1966 13314. * 37 1959 3794. 77.08 *
* 4 -1 1967 9203. * 38 1968 3762. 79.17 *
* 6 -1 1968 3762. * 39 1930 3499. 81.25 *
* 4 -1 1969 16309. * 40 1933 3441. 83.33 *
* 5 -1 1970 9777. * 41 1940 3422. 85.42 *
* 4 -1 1971 13007. * 42 1935 3287. 87.50 *
* 4 -1 1972 11047. * 43 1961 3205. 89.58 *
* 10 -1 1973 8065. * 44 1932 2950. 91.67 *
* 6 -1 1974 10666. * 45 1958 2511. 93.75 *
* 5 -1 1975 20217. * 46 1934 2444. 95.83 *
* 4 -1 1976 6623. * 47 1931 2180. 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANDOKA FLOW

*****EVENTS ANALYZED.....*.....ORDERED EVENTS.....*

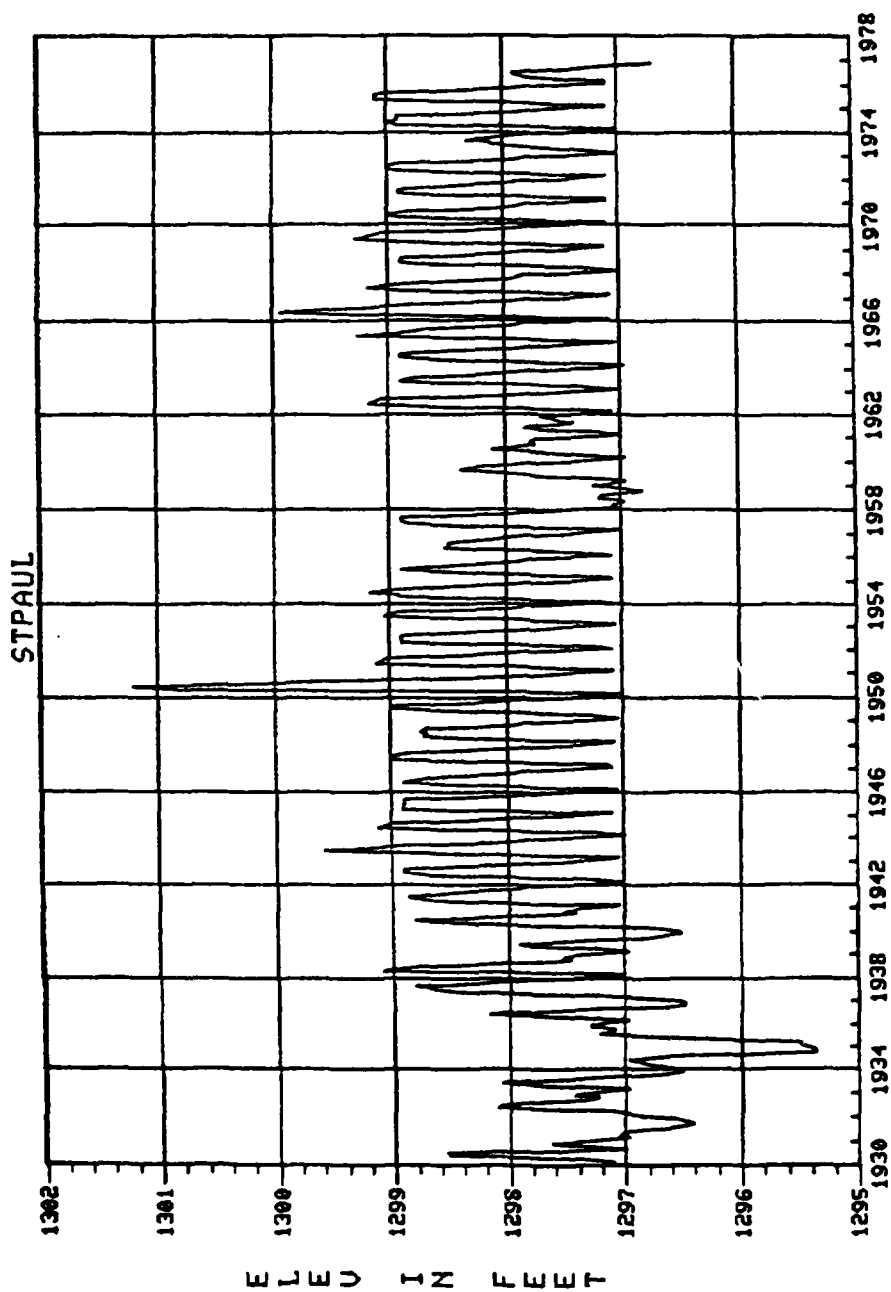
* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIRULL PLOT POS	*
* 9	* -1	* 1930	* 1290.	* 1	* 1934	* 610.	* 2.08	*
* 9	* -1	* 1931	* 1150.	* 2	* 1936	* 627.	* 4.17	*
* 10	* -1	* 1932	* 1063.	* 3	* 1933	* 772.	* 6.25	*
* 9	* -1	* 1933	* 772.	* 4	* 1935	* 926.	* 8.33	*
* 8	* -1	* 1934	* 610.	* 5	* 1976	* 965.	* 10.42	*
* 1	* -1	* 1935	* 926.	* 6	* 1932	* 1063.	* 12.50	*
* 7	* -1	* 1936	* 627.	* 7	* 1937	* 1150.	* 14.58	*
* 2	* -1	* 1937	* 1150.	* 8	* 1931	* 1150.	* 16.67	*
* 2	* -1	* 1938	* 1534.	* 9	* 1940	* 1171.	* 18.75	*
* 10	* -1	* 1939	* 1701.	* 10	* 1930	* 1290.	* 20.83	*
* 9	* -1	* 1940	* 1171.	* 11	* 1938	* 1534.	* 22.92	*
* 2	* -1	* 1941	* 2652.	* 12	* 1961	* 1667.	* 25.00	*
* 1	* -1	* 1942	* 5005.	* 13	* 1939	* 1701.	* 27.08	*
* 12	* -1	* 1943	* 3790.	* 14	* 1959	* 1819.	* 29.17	*
* 2	* -1	* 1944	* 4844.	* 15	* 1962	* 1836.	* 31.25	*
* 2	* -1	* 1945	* 3759.	* 16	* 1960	* 1852.	* 33.33	*
* 2	* -1	* 1946	* 5027.	* 17	* 1968	* 1883.	* 35.42	*
* 12	* -1	* 1947	* 4383.	* 18	* 1964	* 2004.	* 37.50	*
* 9	* -1	* 1948	* 2324.	* 19	* 1957	* 2098.	* 39.58	*
* 2	* -1	* 1949	* 2473.	* 20	* 1967	* 2119.	* 41.67	*
* 1	* -1	* 1950	* 2631.	* 21	* 1965	* 2166.	* 43.75	*
* 1	* -1	* 1951	* 3033.	* 22	* 1956	* 2195.	* 45.83	*
* 12	* -1	* 1952	* 5058.	* 23	* 1948	* 2324.	* 47.92	*
* 2	* -1	* 1953	* 4415.	* 24	* 1949	* 2473.	* 50.00	*
* 12	* -1	* 1954	* 5027.	* 25	* 1958	* 2563.	* 52.08	*
* 2	* -1	* 1955	* 3438.	* 26	* 1950	* 2631.	* 54.17	*
* 10	* -1	* 1956	* 2195.	* 27	* 1941	* 2652.	* 56.25	*
* 1	* -1	* 1957	* 2098.	* 28	* 1963	* 2752.	* 58.33	*
* 12	* -1	* 1958	* 2563.	* 29	* 1971	* 2781.	* 60.42	*
* 2	* -1	* 1959	* 1819.	* 30	* 1951	* 3033.	* 62.50	*
* 10	* -1	* 1960	* 1852.	* 31	* 1955	* 3438.	* 64.58	*
* 2	* -1	* 1961	* 1667.	* 32	* 1970	* 3497.	* 66.67	*
* 1	* -1	* 1962	* 1836.	* 33	* 1969	* 3602.	* 68.75	*
* 12	* -1	* 1963	* 2752.	* 34	* 1945	* 3759.	* 70.83	*
* 2	* -1	* 1964	* 2004.	* 35	* 1943	* 3790.	* 72.92	*
* 1	* -1	* 1965	* 2166.	* 36	* 1974	* 4331.	* 75.00	*
* 12	* -1	* 1966	* 5058.	* 37	* 1947	* 4383.	* 77.08	*
* 11	* -1	* 1967	* 2119.	* 38	* 1953	* 4415.	* 79.17	*
* 2	* -1	* 1968	* 1883.	* 39	* 1944	* 4844.	* 81.25	*
* 12	* -1	* 1969	* 3602.	* 40	* 1942	* 5005.	* 83.33	*
* 9	* -1	* 1970	* 3497.	* 41	* 1946	* 5027.	* 85.42	*
* 1	* -1	* 1971	* 2781.	* 42	* 1954	* 5027.	* 87.50	*
* 2	* -1	* 1972	* 6111.	* 43	* 1975	* 5044.	* 89.58	*
* 2	* -1	* 1973	* 5165.	* 44	* 1952	* 5058.	* 91.67	*
* 9	* -1	* 1974	* 4331.	* 45	* 1966	* 5058.	* 93.75	*
* 1	* -1	* 1975	* 5044.	* 46	* 1973	* 5165.	* 95.83	*
* 10	* -1	* 1976	* 965.	* 47	* 1972	* 6111.	* 97.92	*

APPENDIX K

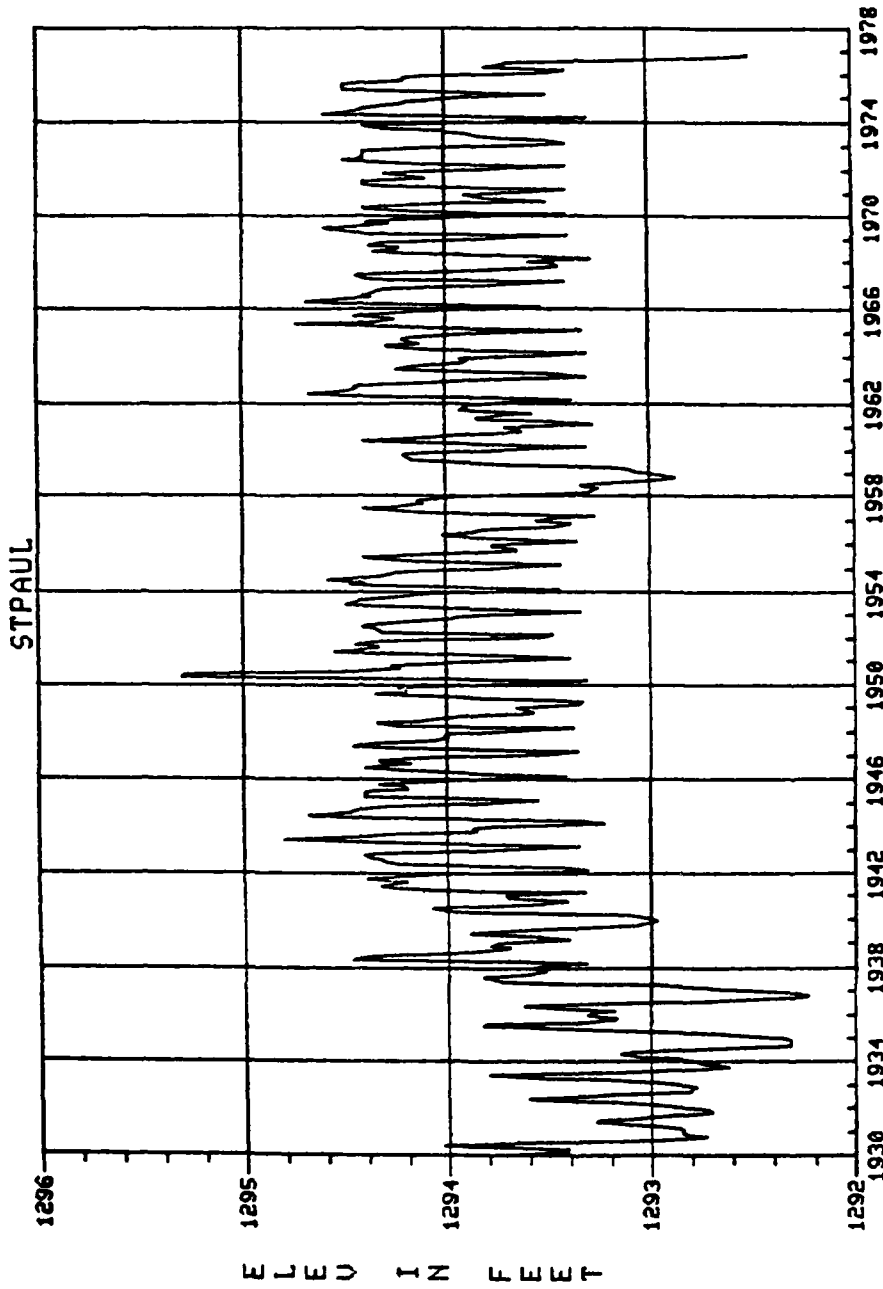
PLAN 8

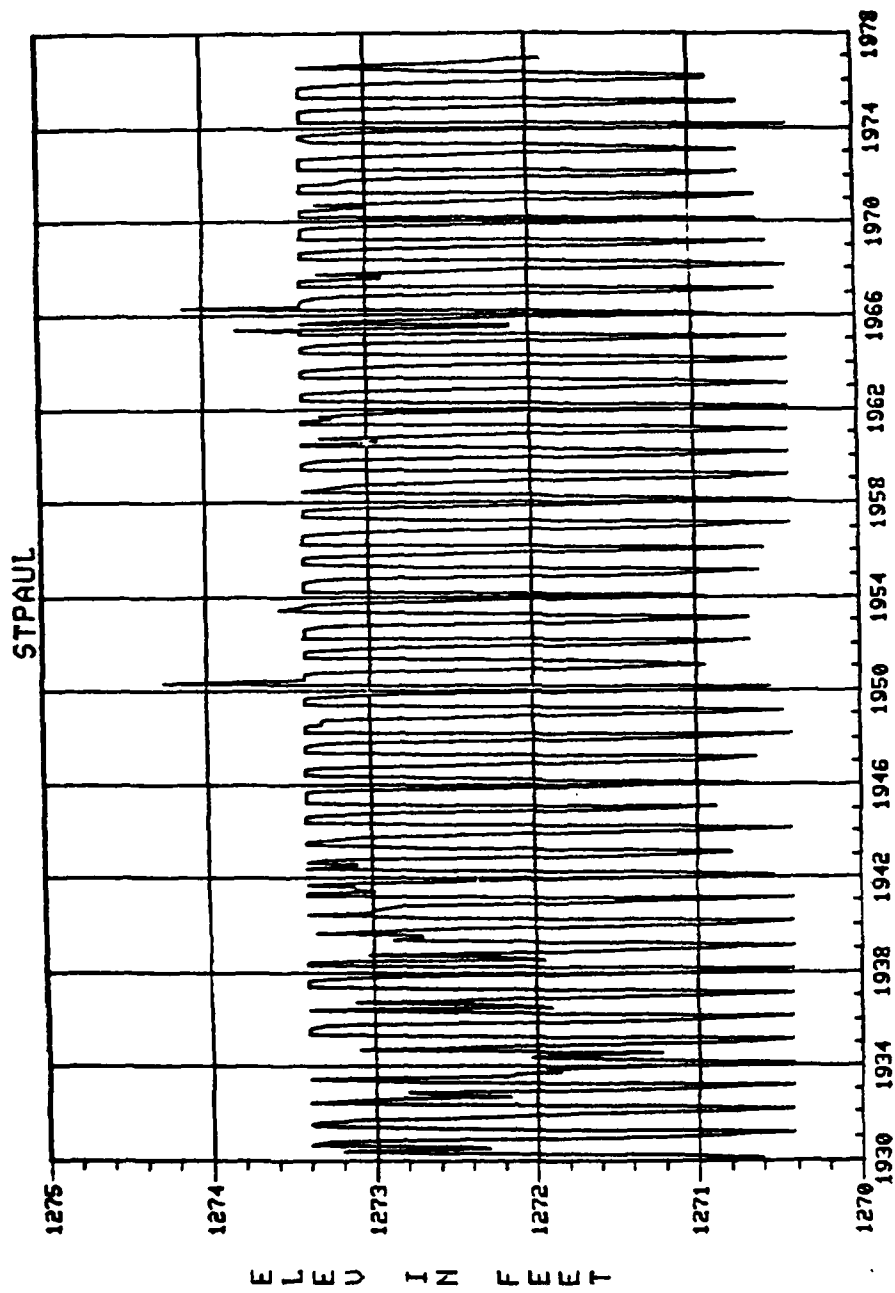
TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

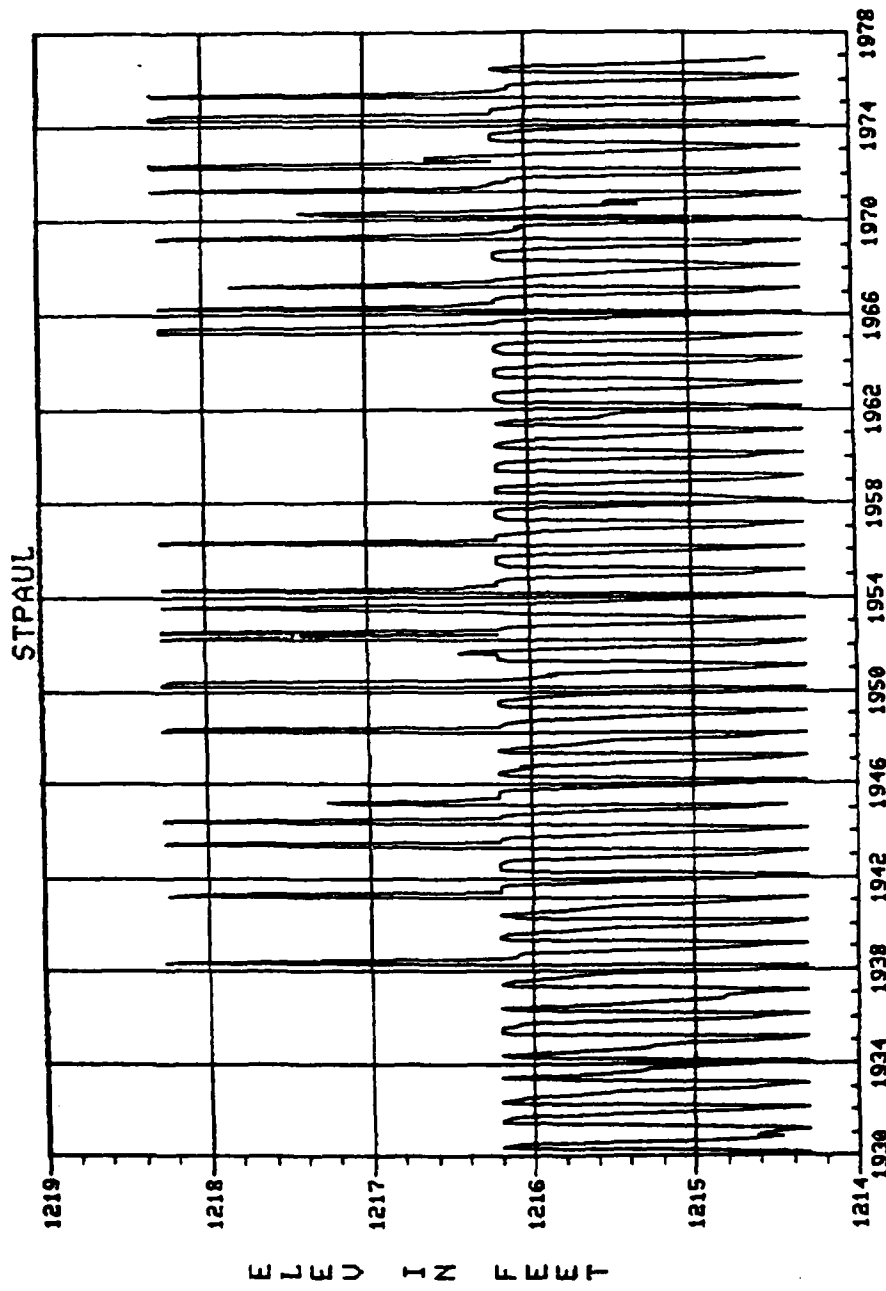
Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.



UINNI RES. PLANBR ELEV

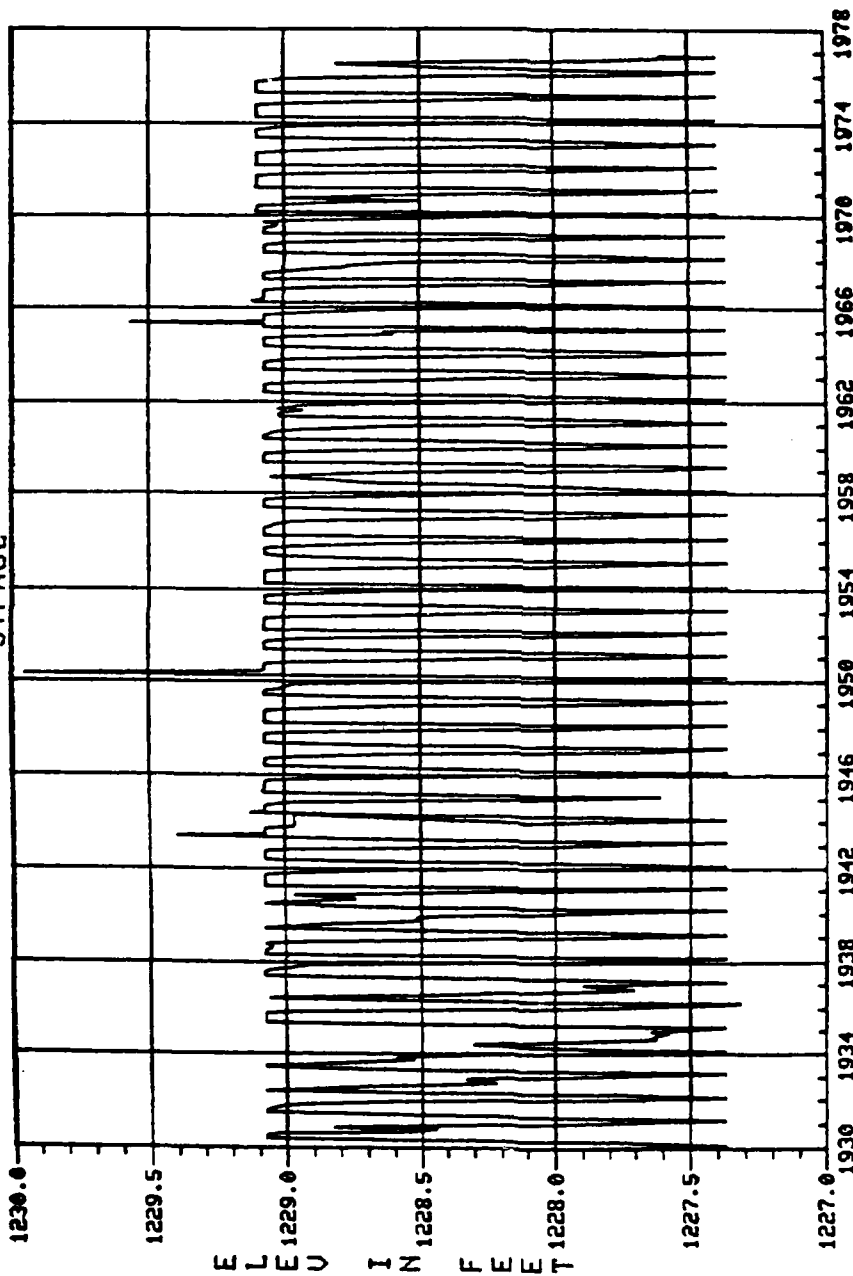






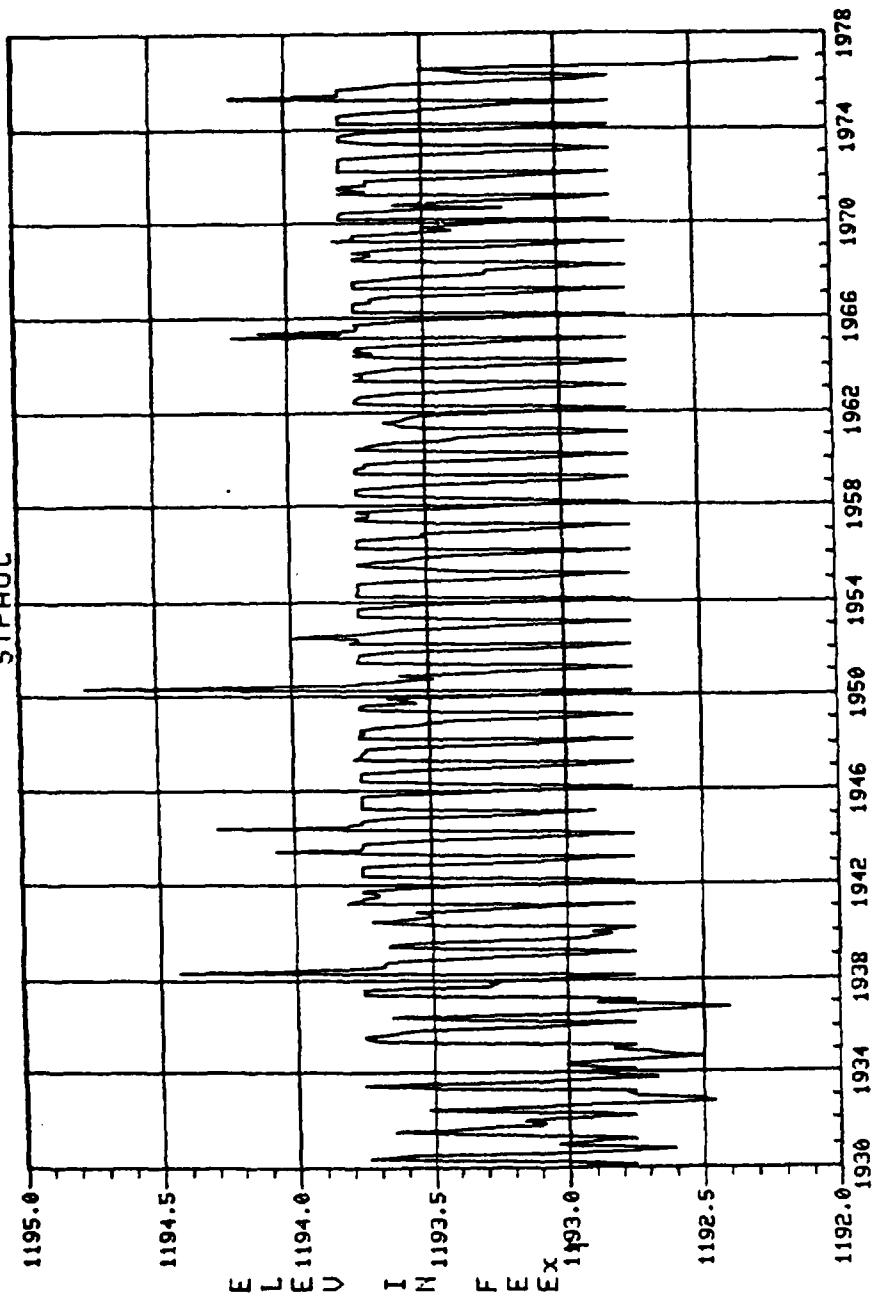
— SANDY RES. PLANER ELEV

STPAUL



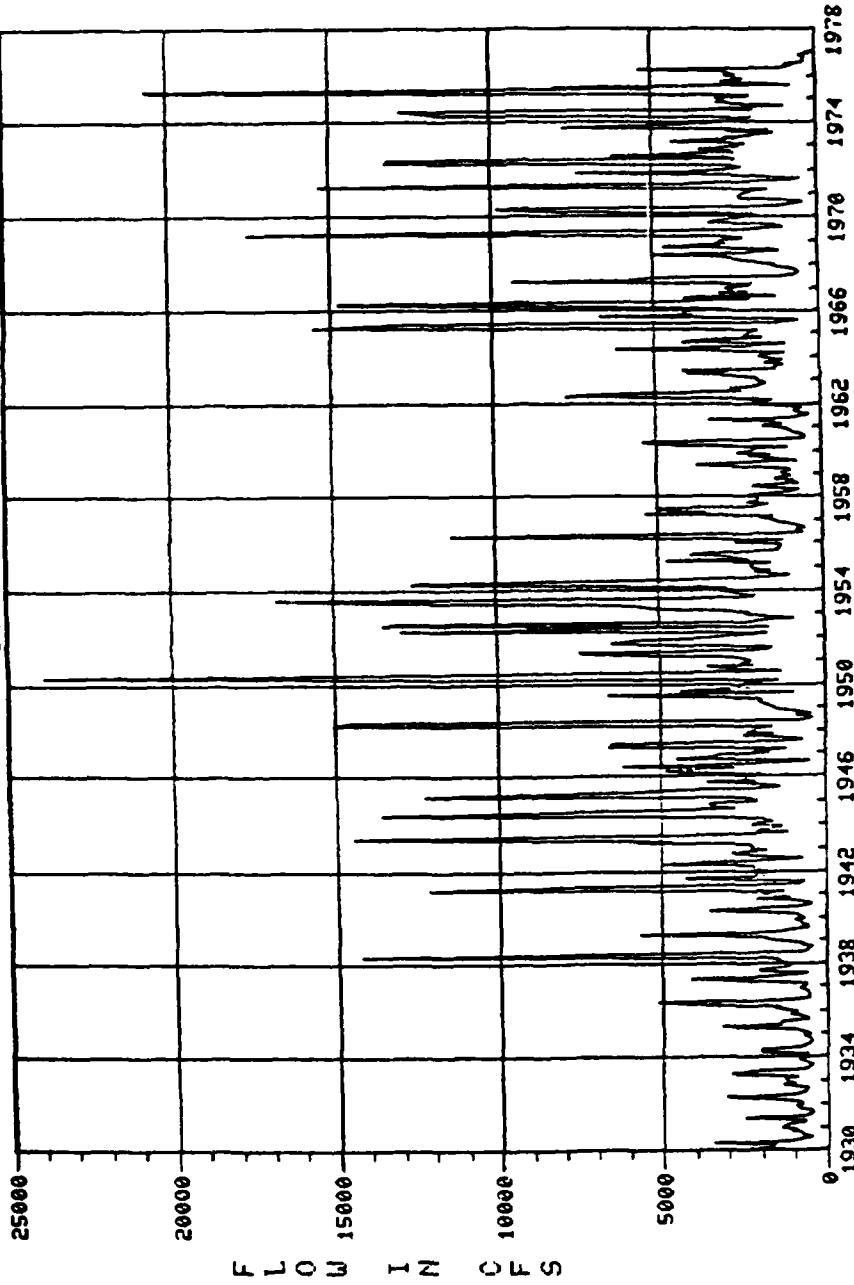
— PINE RES. PLANTER ELEV

STPAUL

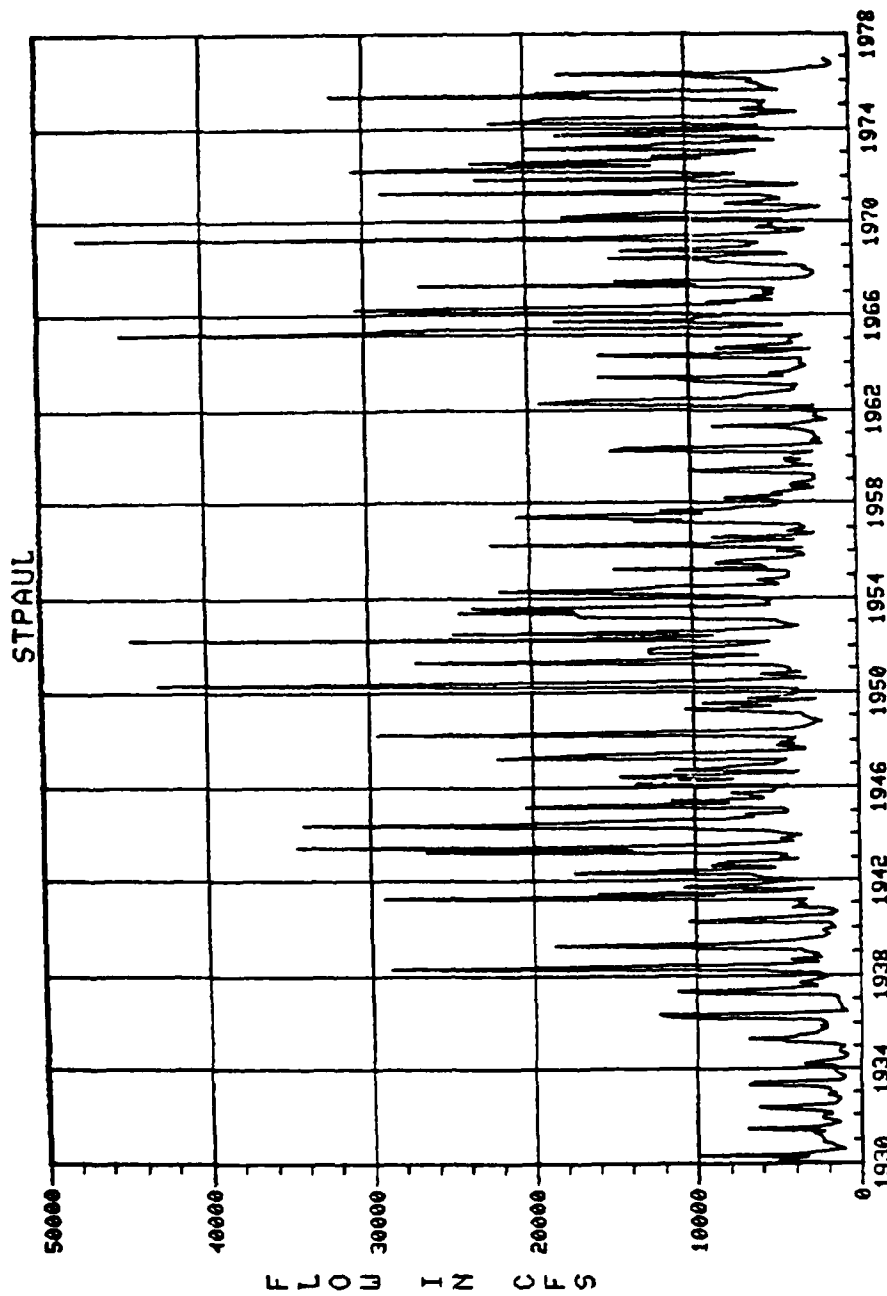


— GULL RES. PLANBR ELEU

STPAUL



— AITKIN PLAMER FLOW-REG



- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 7	* -1	* 1930	* 1298.5	* 1	* 1950	* 1301.2	* 2.08	*
* 5	* -1	* 1931	* 1297.0	* 2	* 1966	* 1299.9	* 4.17	*
* 6	* -1	* 1932	* 1298.1	* 3	* 1943	* 1299.6	* 6.25	*
* 6	* -1	* 1933	* 1298.0	* 4	* 1969	* 1299.3	* 8.33	*
* 6	* -1	* 1934	* 1297.0	* 5	* 1965	* 1299.3	* 10.42	*
* 8	* -1	* 1935	* 1297.2	* 6	* 1954	* 1299.2	* 12.50	*
* 6	* -1	* 1936	* 1298.1	* 7	* 1962	* 1299.2	* 14.58	*
* 9	* -1	* 1937	* 1298.8	* 8	* 1967	* 1299.2	* 16.67	*
* 5	* -1	* 1938	* 1299.1	* 9	* 1951	* 1299.1	* 18.75	*
* 7	* -1	* 1939	* 1297.9	* 10	* 1975	* 1299.1	* 20.83	*
* 7	* -1	* 1940	* 1298.8	* 11	* 1944	* 1299.1	* 22.92	*
* 7	* -1	* 1941	* 1298.9	* 12	* 1938	* 1299.1	* 25.00	*
* 9	* -1	* 1942	* 1298.9	* 13	* 1972	* 1299.1	* 27.08	*
* 6	* -1	* 1943	* 1299.6	* 14	* 1974	* 1299.1	* 29.17	*
* 7	* -1	* 1944	* 1299.1	* 15	* 1953	* 1299.0	* 31.25	*
* 5	* -1	* 1945	* 1298.9	* 16	* 1947	* 1299.0	* 33.33	*
* 6	* -1	* 1946	* 1298.9	* 17	* 1970	* 1299.0	* 35.42	*
* 6	* -1	* 1947	* 1299.0	* 18	* 1949	* 1299.0	* 37.50	*
* 8	* -1	* 1948	* 1298.7	* 19	* 1952	* 1298.9	* 39.58	*
* 8	* -1	* 1949	* 1299.0	* 20	* 1945	* 1298.9	* 41.67	*
* 6	* -1	* 1950	* 1301.2	* 21	* 1955	* 1298.9	* 43.75	*
* 6	* -1	* 1951	* 1299.1	* 22	* 1957	* 1298.9	* 45.83	*
* 7	* -1	* 1952	* 1298.9	* 23	* 1963	* 1298.9	* 47.92	*
* 7	* -1	* 1953	* 1299.0	* 24	* 1964	* 1298.9	* 50.00	*
* 7	* -1	* 1954	* 1299.2	* 25	* 1968	* 1298.9	* 52.08	*
* 7	* -1	* 1955	* 1298.9	* 26	* 1946	* 1298.9	* 54.17	*
* 6	* -1	* 1956	* 1298.5	* 27	* 1971	* 1298.9	* 56.25	*
* 7	* -1	* 1957	* 1298.9	* 28	* 1942	* 1298.9	* 58.33	*
* 7	* -1	* 1958	* 1297.2	* 29	* 1941	* 1298.9	* 60.42	*
* 9	* -1	* 1959	* 1298.4	* 30	* 1940	* 1298.8	* 62.50	*
* 7	* -1	* 1960	* 1298.1	* 31	* 1937	* 1298.8	* 64.58	*
* 6	* -1	* 1961	* 1297.8	* 32	* 1948	* 1298.7	* 66.67	*
* 7	* -1	* 1962	* 1299.2	* 33	* 1930	* 1298.5	* 68.75	*
* 7	* -1	* 1963	* 1298.9	* 34	* 1956	* 1298.5	* 70.83	*
* 7	* -1	* 1964	* 1298.9	* 35	* 1959	* 1298.4	* 72.92	*
* 6	* -1	* 1965	* 1299.3	* 36	* 1973	* 1298.3	* 75.00	*

* 6	* -1	* 1966	* 1299.9	* 37	* 1936	* 1298.1	* 77.08	*
* 6	* -1	* 1967	* 1299.2	* 38	* 1932	* 1298.1	* 79.17	*
* 7	* -1	* 1968	* 1298.9	* 39	* 1960	* 1298.1	* 81.25	*
* 6	* -1	* 1969	* 1299.3	* 40	* 1933	* 1298.0	* 83.33	*
* 6	* -1	* 1970	* 1299.0	* 41	* 1976	* 1297.9	* 85.42	*
* 6	* -1	* 1971	* 1298.9	* 42	* 1939	* 1297.9	* 87.50	*
* 6	* -1	* 1972	* 1299.1	* 43	* 1961	* 1297.8	* 89.58	*
* 9	* -1	* 1973	* 1298.3	* 44	* 1935	* 1297.2	* 91.67	*
* 6	* -1	* 1974	* 1299.1	* 45	* 1958	* 1297.2	* 93.75	*
* 6	* -1	* 1975	* 1299.1	* 46	* 1931	* 1297.0	* 95.83	*
* 7	* -1	* 1976	* 1297.9	* 47	* 1934	* 1297.0	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1297.0	* 1	* 1934	* 1295.9	* 2.08	*
* 9	* -1	* 1931	* 1296.4	* 2	* 1935	* 1296.1	* 4.17	*
* 9	* -1	* 1932	* 1297.6	* 3	* 1931	* 1296.4	* 6.25	*
* 9	* -1	* 1933	* 1297.1	* 4	* 1958	* 1297.0	* 8.33	*
* 9	* -1	* 1934	* 1295.9	* 5	* 1930	* 1297.0	* 10.42	*
* 5	* -1	* 1935	* 1296.1	* 6	* 1939	* 1297.1	* 12.50	*
* 9	* -1	* 1936	* 1297.2	* 7	* 1933	* 1297.1	* 14.58	*
* 5	* -1	* 1937	* 1297.9	* 8	* 1936	* 1297.2	* 16.67	*
* 9	* -1	* 1938	* 1297.8	* 9	* 1959	* 1297.3	* 18.75	*
* 9	* -1	* 1939	* 1297.1	* 10	* 1976	* 1297.4	* 20.83	*
* 5	* -1	* 1940	* 1298.0	* 11	* 1961	* 1297.4	* 22.92	*
* 9	* -1	* 1941	* 1298.4	* 12	* 1960	* 1297.6	* 25.00	*
* 5	* -1	* 1942	* 1298.0	* 13	* 1932	* 1297.6	* 27.08	*

* 5	* -1	* 1943	* 1298.4	* 14	* 1949	* 1297.6	* 29.17	*
* 5	* -1	* 1944	* 1298.0	* 15	* 1973	* 1297.6	* 31.25	*
* 5	* -1	* 1945	* 1298.9	* 16	* 1938	* 1297.8	* 33.33	*
* 9	* -1	* 1946	* 1298.5	* 17	* 1937	* 1297.9	* 35.42	*
* 5	* -1	* 1947	* 1298.5	* 18	* 1953	* 1298.0	* 37.50	*
* 7	* -1	* 1948	* 1298.7	* 19	* 1963	* 1298.0	* 39.58	*
* 5	* -1	* 1949	* 1297.6	* 20	* 1940	* 1298.0	* 41.67	*
* 9	* -1	* 1950	* 1299.5	* 21	* 1942	* 1298.0	* 43.75	*
* 5	* -1	* 1951	* 1298.8	* 22	* 1944	* 1298.0	* 45.83	*
* 9	* -1	* 1952	* 1298.8	* 23	* 1968	* 1298.1	* 47.92	*
* 5	* -1	* 1953	* 1298.0	* 24	* 1955	* 1298.1	* 50.00	*
* 9	* -1	* 1954	* 1298.8	* 25	* 1964	* 1298.2	* 52.08	*
* 5	* -1	* 1955	* 1298.1	* 26	* 1956	* 1298.2	* 54.17	*
* 5	* -1	* 1956	* 1298.2	* 27	* 1970	* 1298.3	* 56.25	*
* 5	* -1	* 1957	* 1298.3	* 28	* 1957	* 1298.3	* 58.33	*
* 5	* -1	* 1958	* 1297.0	* 29	* 1962	* 1298.4	* 60.42	*
* 5	* -1	* 1959	* 1297.3	* 30	* 1943	* 1298.4	* 62.50	*
* 5	* -1	* 1960	* 1297.6	* 31	* 1941	* 1298.4	* 64.58	*
* 9	* -1	* 1961	* 1297.4	* 32	* 1967	* 1298.4	* 66.67	*
* 5	* -1	* 1962	* 1298.4	* 33	* 1947	* 1298.5	* 68.75	*
* 5	* -1	* 1963	* 1298.0	* 34	* 1946	* 1298.5	* 70.83	*
* 5	* -1	* 1964	* 1298.2	* 35	* 1971	* 1298.6	* 72.92	*
* 9	* -1	* 1965	* 1298.7	* 36	* 1965	* 1298.7	* 75.00	*
* 9	* -1	* 1966	* 1299.0	* 37	* 1948	* 1298.7	* 77.08	*
* 9	* -1	* 1967	* 1298.4	* 38	* 1951	* 1298.8	* 79.17	*
* 5	* -1	* 1968	* 1298.1	* 39	* 1954	* 1298.8	* 81.25	*
* 5	* -1	* 1969	* 1298.9	* 40	* 1952	* 1298.8	* 83.33	*
* 9	* -1	* 1970	* 1298.3	* 41	* 1972	* 1298.9	* 85.42	*
* 9	* -1	* 1971	* 1298.6	* 42	* 1969	* 1298.9	* 87.50	*
* 9	* -1	* 1972	* 1298.9	* 43	* 1945	* 1298.9	* 89.58	*
* 5	* -1	* 1973	* 1297.6	* 44	* 1974	* 1298.9	* 91.67	*
* 5	* -1	* 1974	* 1298.9	* 45	* 1975	* 1298.9	* 93.75	*
* 5	* -1	* 1975	* 1298.9	* 46	* 1966	* 1299.0	* 95.83	*
* 9	* -1	* 1976	* 1297.4	* 47	* 1950	* 1299.5	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
*	6	-1	1930	*	1	1950	1295.3	2.08
*	6	-1	1931	*	2	1943	1294.8	4.17
*	6	-1	1932	*	3	1965	1294.7	6.25
*	6	-1	1933	*	4	1944	1294.7	8.33
*	5	-1	1934	*	5	1966	1294.7	10.42
*	7	-1	1935	*	6	1962	1294.7	12.50
*	5	-1	1936	*	7	1974	1294.6	14.58
*	8	-1	1937	*	8	1969	1294.6	16.67
*	5	-1	1938	*	9	1954	1294.6	18.75
*	6	-1	1939	*	10	1951	1294.6	20.83
*	6	-1	1940	*	11	1975	1294.6	22.92
*	6	-1	1941	*	12	1953	1294.5	25.00
*	9	-1	1942	*	13	1947	1294.5	27.08
*	6	-1	1943	*	14	1938	1294.5	29.17
*	7	-1	1944	*	15	1972	1294.4	31.25
*	5	-1	1945	*	16	1967	1294.4	33.33
*	7	-1	1946	*	17	1970	1294.4	35.42
*	6	-1	1947	*	18	1952	1294.4	37.50
*	5	-1	1948	*	19	1955	1294.4	39.58
*	8	-1	1949	*	20	1957	1294.4	41.67
*	5	-1	1950	*	21	1960	1294.4	43.75
*	6	-1	1951	*	22	1945	1294.4	45.83
*	7	-1	1952	*	23	1946	1294.4	47.92
*	7	-1	1953	*	24	1971	1294.4	50.00
*	7	-1	1954	*	25	1942	1294.4	52.08
*	7	-1	1955	*	26	1948	1294.3	54.17
*	6	-1	1956	*	27	1949	1294.3	56.25
*	7	-1	1957	*	28	1968	1294.3	58.33
*	7	-1	1958	*	29	1941	1294.3	60.42
*	9	-1	1959	*	30	1964	1294.3	62.50
*	6	-1	1960	*	31	1963	1294.2	64.58
*	6	-1	1961	*	32	1959	1294.2	66.67
*	6	-1	1962	*	33	1940	1294.1	68.75
*	7	-1	1963	*	34	1930	1294.0	70.83
*	7	-1	1964	*	35	1956	1294.0	72.92
*	6	-1	1965	*	36	1973	1294.0	75.00
*	5	-1	1966	*	37	1939	1293.9	77.08
*	6	-1	1967	*	38	1961	1293.8	79.17
*	7	-1	1968	*	39	1937	1293.8	81.25

*	7	-1	1969	*	40	1935	1293.8	83.33	*
*	6	-1	1970	*	41	1933	1293.8	85.42	*
*	7	-1	1971	*	42	1976	1293.8	87.50	*
*	6	-1	1972	*	43	1936	1293.6	89.58	*
*	9	-1	1973	*	44	1932	1293.6	91.67	*
*	6	-1	1974	*	45	1958	1293.3	93.75	*
*	6	-1	1975	*	46	1931	1293.3	95.83	*
*	5	-1	1976	*	47	1934	1293.1	97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
*	9	-1	1930	*	1	1934	1292.3	2.08
*	9	-1	1931	*	2	1936	1292.4	4.17
*	9	-1	1932	*	3	1933	1292.7	6.25
*	9	-1	1933	*	4	1930	1292.9	8.33
*	9	-1	1934	*	5	1931	1292.9	10.42
*	5	-1	1935	*	6	1932	1292.9	12.50
*	9	-1	1936	*	7	1976	1292.9	14.58
*	5	-1	1937	*	8	1958	1293.0	16.67
*	9	-1	1938	*	9	1935	1293.2	18.75
*	9	-1	1939	*	10	1939	1293.3	20.83
*	9	-1	1940	*	11	1959	1293.4	22.92
*	8	-1	1941	*	12	1949	1293.5	25.00
*	5	-1	1942	*	13	1937	1293.5	27.08
*	5	-1	1943	*	14	1970	1293.5	29.17
*	5	-1	1944	*	15	1940	1293.6	31.25
*	8	-1	1945	*	16	1961	1293.6	33.33

*	5	-1	1946	*	17	1956	1293.7	35.42
*	9	-1	1947	*	18	1967	1293.7	37.50
*	9	-1	1948	*	19	1963	1293.7	39.58
*	5	-1	1949	*	20	1973	1293.7	41.67
*	9	-1	1950	*	21	1938	1293.8	43.75
*	5	-1	1951	*	22	1942	1293.8	45.83
*	9	-1	1952	*	23	1955	1293.9	47.92
*	5	-1	1953	*	24	1948	1293.9	50.00
*	9	-1	1954	*	25	1960	1293.9	52.08
*	9	-1	1955	*	26	1944	1293.9	54.17
*	9	-1	1956	*	27	1968	1293.9	56.25
*	5	-1	1957	*	28	1964	1294.0	58.33
*	9	-1	1958	*	29	1947	1294.0	60.42
*	5	-1	1959	*	30	1971	1294.1	62.50
*	9	-1	1960	*	31	1946	1294.1	64.58
*	8	-1	1961	*	32	1957	1294.1	66.67
*	5	-1	1962	*	33	1953	1294.1	68.75
*	5	-1	1963	*	34	1945	1294.2	70.83
*	5	-1	1964	*	35	1943	1294.2	72.92
*	8	-1	1965	*	36	1941	1294.2	75.00
*	7	-1	1966	*	37	1950	1294.2	77.08
*	9	-1	1967	*	38	1965	1294.3	79.17
*	5	-1	1968	*	39	1969	1294.3	81.25
*	9	-1	1969	*	40	1952	1294.3	83.33
*	9	-1	1970	*	41	1974	1294.3	85.42
*	9	-1	1971	*	42	1975	1294.3	87.50
*	5	-1	1972	*	43	1951	1294.3	89.58
*	5	-1	1973	*	44	1954	1294.3	91.67
*	9	-1	1974	*	45	1962	1294.3	93.75
*	9	-1	1975	*	46	1966	1294.4	95.83
*	9	-1	1976	*	47	1972	1294.4	97.92

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER YEAR	* ELEV, FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1273.4	* 1	* 1950	* 1274.3	* 2.08	*
* 7	* -1	* 1931	* 1273.4	* 2	* 1966	* 1274.1	* 4.17	*
* 6	* -1	* 1932	* 1273.4	* 3	* 1965	* 1273.6	* 6.25	*
* 6	* -1	* 1933	* 1273.4	* 4	* 1953	* 1273.5	* 8.33	*
* 9	* -1	* 1934	* 1272.1	* 5	* 1974	* 1273.4	* 10.42	*
* 6	* -1	* 1935	* 1273.4	* 6	* 1935	* 1273.4	* 12.50	*
* 6	* -1	* 1936	* 1273.4	* 7	* 1936	* 1273.4	* 14.58	*
* 6	* -1	* 1937	* 1273.4	* 8	* 1937	* 1273.4	* 16.67	*
* 5	* -1	* 1938	* 1273.4	* 9	* 1938	* 1273.4	* 18.75	*
* 9	* -1	* 1939	* 1273.3	* 10	* 1940	* 1273.4	* 20.83	*
* 6	* -1	* 1940	* 1273.4	* 11	* 1941	* 1273.4	* 22.92	*
* 5	* -1	* 1941	* 1273.4	* 12	* 1942	* 1273.4	* 25.00	*
* 6	* -1	* 1942	* 1273.4	* 13	* 1943	* 1273.4	* 27.08	*
* 6	* -1	* 1943	* 1273.4	* 14	* 1944	* 1273.4	* 29.17	*
* 6	* -1	* 1944	* 1273.4	* 15	* 1945	* 1273.4	* 31.25	*
* 5	* -1	* 1945	* 1273.4	* 16	* 1946	* 1273.4	* 33.33	*
* 6	* -1	* 1946	* 1273.4	* 17	* 1947	* 1273.4	* 35.42	*
* 6	* -1	* 1947	* 1273.4	* 18	* 1948	* 1273.4	* 37.50	*
* 5	* -1	* 1948	* 1273.4	* 19	* 1949	* 1273.4	* 39.58	*
* 6	* -1	* 1949	* 1273.4	* 20	* 1930	* 1273.4	* 41.67	*
* 5	* -1	* 1950	* 1274.3	* 21	* 1951	* 1273.4	* 43.75	*
* 6	* -1	* 1951	* 1273.4	* 22	* 1952	* 1273.4	* 45.83	*
* 5	* -1	* 1952	* 1273.4	* 23	* 1933	* 1273.4	* 47.92	*
* 7	* -1	* 1953	* 1273.5	* 24	* 1954	* 1273.4	* 50.00	*
* 5	* -1	* 1954	* 1273.4	* 25	* 1955	* 1273.4	* 52.08	*
* 6	* -1	* 1955	* 1273.4	* 26	* 1956	* 1273.4	* 54.17	*
* 5	* -1	* 1956	* 1273.4	* 27	* 1957	* 1273.4	* 56.25	*
* 6	* -1	* 1957	* 1273.4	* 28	* 1958	* 1273.4	* 58.33	*
* 7	* -1	* 1958	* 1273.4	* 29	* 1959	* 1273.4	* 60.42	*
* 6	* -1	* 1959	* 1273.4	* 30	* 1960	* 1273.4	* 62.50	*
* 6	* -1	* 1960	* 1273.4	* 31	* 1961	* 1273.4	* 64.58	*
* 6	* -1	* 1961	* 1273.4	* 32	* 1962	* 1273.4	* 66.67	*
* 6	* -1	* 1962	* 1273.4	* 33	* 1963	* 1273.4	* 68.75	*
* 6	* -1	* 1963	* 1273.4	* 34	* 1964	* 1273.4	* 70.83	*
* 6	* -1	* 1964	* 1273.4	* 35	* 1932	* 1273.4	* 72.92	*
* 6	* -1	* 1965	* 1273.8	* 36	* 1931	* 1273.4	* 75.00	*
* 5	* -1	* 1966	* 1274.1	* 37	* 1967	* 1273.4	* 77.08	*
* 5	* -1	* 1967	* 1273.4	* 38	* 1968	* 1273.4	* 79.17	*
* 6	* -1	* 1968	* 1273.4	* 39	* 1969	* 1273.4	* 81.25	*
* 5	* -1	* 1969	* 1273.4	* 40	* 1970	* 1273.4	* 83.33	*
* 5	* -1	* 1970	* 1273.4	* 41	* 1971	* 1273.4	* 85.42	*

* 5	* -1	* 1971	* 1273.4	* 42	* 1972	* 1273.4	* 87.50	*
* 5	* -1	* 1972	* 1273.4	* 43	* 1973	* 1273.4	* 89.58	*
* 7	* -1	* 1973	* 1273.4	* 44	* 1975	* 1273.4	* 91.67	*
* 6	* -1	* 1974	* 1273.4	* 45	* 1976	* 1273.4	* 93.75	*
* 5	* -1	* 1975	* 1273.4	* 46	* 1939	* 1273.3	* 95.83	*
* 7	* -1	* 1976	* 1273.4	* 47	* 1934	* 1272.1	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- FOKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 7	* -1	* 1930	* 1272.3	* 1	* 1934	* 1271.2	* 2.08	*
* 5	* -1	* 1931	* 1272.3	* 2	* 1936	* 1271.9	* 4.17	*
* 9	* -1	* 1932	* 1272.2	* 3	* 1938	* 1271.9	* 6.25	*
* 9	* -1	* 1933	* 1272.1	* 4	* 1933	* 1272.1	* 8.33	*
* 8	* -1	* 1934	* 1271.2	* 5	* 1965	* 1272.1	* 10.42	*
* 5	* -1	* 1935	* 1272.5	* 6	* 1939	* 1272.1	* 12.50	*
* 8	* -1	* 1936	* 1271.9	* 7	* 1932	* 1272.2	* 14.58	*
* 5	* -1	* 1937	* 1272.7	* 8	* 1958	* 1272.2	* 16.67	*
* 8	* -1	* 1938	* 1271.9	* 9	* 1976	* 1272.3	* 18.75	*
* 5	* -1	* 1939	* 1272.1	* 10	* 1931	* 1272.3	* 20.83	*
* 5	* -1	* 1940	* 1272.7	* 11	* 1930	* 1272.3	* 22.92	*
* 6	* -1	* 1941	* 1273.0	* 12	* 1959	* 1272.4	* 25.00	*
* 5	* -1	* 1942	* 1272.7	* 13	* 1935	* 1272.5	* 27.08	*
* 5	* -1	* 1943	* 1272.7	* 14	* 1973	* 1272.5	* 29.17	*
* 5	* -1	* 1944	* 1272.7	* 15	* 1944	* 1272.7	* 31.25	*
* 5	* -1	* 1945	* 1273.4	* 16	* 1946	* 1272.7	* 33.33	*
* 5	* -1	* 1946	* 1272.7	* 17	* 1947	* 1272.7	* 35.42	*
* 5	* -1	* 1947	* 1272.7	* 18	* 1949	* 1272.7	* 37.50	*

* 8	* -1	* 1948	* 1273.3	* 19	* 1951	* 1272.7	* 39.58	*
* 5	* -1	* 1949	* 1272.7	* 20	* 1953	* 1272.7	* 41.67	*
* 6	* -1	* 1950	* 1273.4	* 21	* 1955	* 1272.7	* 43.75	*
* 5	* -1	* 1951	* 1272.7	* 22	* 1957	* 1272.7	* 45.83	*
* 5	* -1	* 1952	* 1273.4	* 23	* 1937	* 1272.7	* 47.92	*
* 5	* -1	* 1953	* 1272.7	* 24	* 1960	* 1272.7	* 50.00	*
* 5	* -1	* 1954	* 1273.4	* 25	* 1961	* 1272.7	* 52.08	*
* 5	* -1	* 1955	* 1272.7	* 26	* 1962	* 1272.7	* 54.17	*
* 5	* -1	* 1956	* 1273.4	* 27	* 1963	* 1272.7	* 56.25	*
* 5	* -1	* 1957	* 1272.7	* 28	* 1964	* 1272.7	* 58.33	*
* 5	* -1	* 1958	* 1272.2	* 29	* 1940	* 1272.7	* 60.42	*
* 5	* -1	* 1959	* 1272.4	* 30	* 1968	* 1272.7	* 62.50	*
* 5	* -1	* 1960	* 1272.7	* 31	* 1943	* 1272.7	* 64.58	*
* 5	* -1	* 1961	* 1272.7	* 32	* 1942	* 1272.7	* 66.67	*
* 5	* -1	* 1962	* 1272.7	* 33	* 1967	* 1272.9	* 68.75	*
* 5	* -1	* 1963	* 1272.7	* 34	* 1941	* 1273.0	* 70.83	*
* 5	* -1	* 1964	* 1272.7	* 35	* 1970	* 1273.0	* 72.92	*
* 7	* -1	* 1965	* 1272.1	* 36	* 1971	* 1273.2	* 75.00	*
* 9	* -1	* 1966	* 1273.4	* 37	* 1948	* 1273.3	* 77.08	*
* 8	* -1	* 1967	* 1272.9	* 38	* 1972	* 1273.4	* 79.17	*
* 5	* -1	* 1968	* 1272.7	* 39	* 1966	* 1273.4	* 81.25	*
* 5	* -1	* 1969	* 1273.4	* 40	* 1969	* 1273.4	* 83.33	*
* 8	* -1	* 1970	* 1273.0	* 41	* 1956	* 1273.4	* 85.42	*
* 9	* -1	* 1971	* 1273.2	* 42	* 1952	* 1273.4	* 87.50	*
* 9	* -1	* 1972	* 1273.4	* 43	* 1950	* 1273.4	* 89.58	*
* 5	* -1	* 1973	* 1272.5	* 44	* 1945	* 1273.4	* 91.67	*
* 5	* -1	* 1974	* 1273.4	* 45	* 1974	* 1273.4	* 93.75	*
* 5	* -1	* 1975	* 1273.4	* 46	* 1975	* 1273.4	* 95.83	*
* 5	* -1	* 1976	* 1272.3	* 47	* 1954	* 1273.4	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1216.2	* 1	* 1938	* 1218.3	* 2.08	*
* 7	* -1	* 1931	* 1216.2	* 2	* 1943	* 1218.3	* 4.17	*
* 6	* -1	* 1932	* 1216.2	* 3	* 1944	* 1218.3	* 6.25	*
* 6	* -1	* 1933	* 1216.2	* 4	* 1950	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1216.2	* 5	* 1952	* 1218.3	* 10.42	*
* 6	* -1	* 1935	* 1216.2	* 6	* 1953	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.2	* 7	* 1954	* 1218.3	* 14.58	*
* 6	* -1	* 1937	* 1216.2	* 8	* 1956	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1218.3	* 9	* 1965	* 1218.3	* 18.75	*
* 6	* -1	* 1939	* 1216.2	* 10	* 1966	* 1218.3	* 20.83	*
* 6	* -1	* 1940	* 1216.2	* 11	* 1972	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1217.9	* 12	* 1974	* 1218.3	* 25.00	*
* 6	* -1	* 1942	* 1216.2	* 13	* 1975	* 1218.3	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1969	* 1218.2	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1948	* 1218.2	* 31.25	*
* 5	* -1	* 1945	* 1216.6	* 16	* 1971	* 1218.2	* 33.33	*
* 6	* -1	* 1946	* 1216.2	* 17	* 1941	* 1217.9	* 35.42	*
* 6	* -1	* 1947	* 1216.2	* 18	* 1967	* 1217.5	* 37.50	*
* 5	* -1	* 1948	* 1218.2	* 19	* 1970	* 1217.4	* 39.58	*
* 6	* -1	* 1949	* 1216.2	* 20	* 1945	* 1216.6	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1951	* 1216.4	* 43.75	*
* 9	* -1	* 1951	* 1216.4	* 22	* 1933	* 1216.2	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1934	* 1216.2	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1935	* 1216.2	* 50.00	*
* 5	* -1	* 1954	* 1218.3	* 25	* 1936	* 1216.2	* 52.08	*
* 6	* -1	* 1955	* 1216.2	* 26	* 1955	* 1216.2	* 54.17	*
* 5	* -1	* 1956	* 1218.3	* 27	* 1937	* 1216.2	* 56.25	*
* 6	* -1	* 1957	* 1216.2	* 28	* 1957	* 1216.2	* 58.33	*
* 7	* -1	* 1958	* 1216.2	* 29	* 1958	* 1216.2	* 60.42	*
* 6	* -1	* 1959	* 1216.2	* 30	* 1959	* 1216.2	* 62.50	*
* 6	* -1	* 1960	* 1216.2	* 31	* 1960	* 1216.2	* 64.58	*
* 6	* -1	* 1961	* 1216.2	* 32	* 1962	* 1216.2	* 66.67	*
* 6	* -1	* 1962	* 1216.2	* 33	* 1963	* 1216.2	* 68.75	*
* 6	* -1	* 1963	* 1216.2	* 34	* 1964	* 1216.2	* 70.83	*
* 6	* -1	* 1964	* 1216.2	* 35	* 1930	* 1216.2	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1939	* 1216.2	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1947	* 1216.2	* 77.08	*
* 5	* -1	* 1967	* 1217.5	* 38	* 1968	* 1216.2	* 79.17	*
* 6	* -1	* 1968	* 1216.2	* 39	* 1931	* 1216.2	* 81.25	*
* 5	* -1	* 1969	* 1218.2	* 40	* 1932	* 1216.2	* 83.33	*
* 5	* -1	* 1970	* 1217.4	* 41	* 1949	* 1216.2	* 85.42	*
* 5	* -1	* 1971	* 1218.2	* 42	* 1940	* 1216.2	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1973	* 1216.2	* 89.58	*

* 6	* -1	* 1973	* 1216.2	* 44	* 1946	* 1216.2	* 91.67	*
* 5	* -1	* 1974	* 1218.3	* 45	* 1942	* 1216.2	* 93.75	*
* 5	* -1	* 1975	* 1218.3	* 46	* 1976	* 1216.2	* 95.83	*
* 6	* -1	* 1976	* 1216.2	* 47	* 1961	* 1216.2	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****									
* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER	* YEAR	* ELEV, FT.	* WEIBULL	* PLOT POS
* 9	* -1	* 1930	* 1215.0	* 1	* 1931	* 1214.9	* 2.08	* 4.17	* 6.25
* 5	* -1	* 1931	* 1214.9	* 2	* 1958	* 1215.0	* 4.17	* 6.25	* 8.33
* 9	* -1	* 1932	* 1215.8	* 3	* 1930	* 1215.0	* 6.25	* 10.42	* 12.50
* 9	* -1	* 1933	* 1215.3	* 4	* 1936	* 1215.2	* 8.33	* 14.58	* 16.67
* 9	* -1	* 1934	* 1215.3	* 5	* 1976	* 1215.2	* 10.42	* 18.75	* 20.83
* 9	* -1	* 1935	* 1216.1	* 6	* 1970	* 1215.3	* 12.50	* 22.92	* 25.00
* 9	* -1	* 1936	* 1215.2	* 7	* 1933	* 1215.3	* 14.58	* 27.08	* 29.17
* 9	* -1	* 1937	* 1215.9	* 8	* 1934	* 1215.3	* 16.67	* 31.25	* 33.33
* 9	* -1	* 1938	* 1216.1	* 9	* 1961	* 1215.5	* 18.75	* 35.42	* 37.50
* 9	* -1	* 1939	* 1216.0	* 10	* 1959	* 1215.6	* 20.83	* 39.58	* 41.67
* 9	* -1	* 1940	* 1215.8	* 11	* 1947	* 1215.7	* 22.92		
* 6	* -1	* 1941	* 1216.2	* 12	* 1940	* 1215.8	* 25.00		
* 5	* -1	* 1942	* 1216.0	* 13	* 1967	* 1215.8	* 27.08		
* 5	* -1	* 1943	* 1216.1	* 14	* 1950	* 1215.8	* 29.17		
* 5	* -1	* 1944	* 1216.1	* 15	* 1932	* 1215.8	* 31.25		
* 6	* -1	* 1945	* 1216.2	* 16	* 1937	* 1215.9	* 33.33		
* 9	* -1	* 1946	* 1216.0	* 17	* 1939	* 1216.0	* 35.42		
* 9	* -1	* 1947	* 1215.7	* 18	* 1946	* 1216.0	* 37.50		
* 9	* -1	* 1948	* 1216.0	* 19	* 1942	* 1216.0	* 39.58		
* 9	* -1	* 1949	* 1216.1	* 20	* 1969	* 1216.0	* 41.67		

* 9	* -1	* 1950	* 1215.8	* 21	* 1960	* 1216.0	* 43.75		
* 5	* -1	* 1951	* 1216.1	* 22	* 1948	* 1216.0	* 45.83		
* 6	* -1	* 1952	* 1216.2	* 23	* 1938	* 1216.1	* 47.92		
* 5	* -1	* 1953	* 1216.1	* 24	* 1949	* 1216.1	* 50.00		
* 7	* -1	* 1954	* 1216.2	* 25	* 1975	* 1216.1	* 52.08		
* 5	* -1	* 1955	* 1216.1	* 26	* 1971	* 1216.1	* 54.17		
* 9	* -1	* 1956	* 1216.1	* 27	* 1956	* 1216.1	* 56.25		
* 5	* -1	* 1957	* 1216.1	* 28	* 1935	* 1216.1	* 58.33		
* 5	* -1	* 1958	* 1215.0	* 29	* 1944	* 1216.1	* 60.42		
* 5	* -1	* 1959	* 1215.6	* 30	* 1943	* 1216.1	* 62.50		
* 9	* -1	* 1960	* 1216.0	* 31	* 1962	* 1216.1	* 64.58		
* 9	* -1	* 1961	* 1215.5	* 32	* 1963	* 1216.1	* 66.67		
* 5	* -1	* 1962	* 1216.1	* 33	* 1964	* 1216.1	* 68.75		
* 5	* -1	* 1963	* 1216.1	* 34	* 1951	* 1216.1	* 70.83		
* 5	* -1	* 1964	* 1216.1	* 35	* 1968	* 1216.1	* 72.92		
* 8	* -1	* 1965	* 1216.2	* 36	* 1953	* 1216.1	* 75.00		
* 7	* -1	* 1966	* 1216.2	* 37	* 1957	* 1216.1	* 77.08		
* 9	* -1	* 1967	* 1215.8	* 38	* 1955	* 1216.1	* 79.17		
* 5	* -1	* 1968	* 1216.1	* 39	* 1973	* 1216.1	* 81.25		
* 9	* -1	* 1969	* 1216.0	* 40	* 1974	* 1216.2	* 83.33		
* 9	* -1	* 1970	* 1215.3	* 41	* 1966	* 1216.2	* 85.42		
* 9	* -1	* 1971	* 1216.1	* 42	* 1952	* 1216.2	* 87.50		
* 7	* -1	* 1972	* 1216.2	* 43	* 1972	* 1216.2	* 89.58		
* 5	* -1	* 1973	* 1216.1	* 44	* 1941	* 1216.2	* 91.67		
* 9	* -1	* 1974	* 1216.2	* 45	* 1965	* 1216.2	* 93.75		
* 9	* -1	* 1975	* 1216.1	* 46	* 1954	* 1216.2	* 95.83		
* 9	* -1	* 1976	* 1215.2	* 47	* 1945	* 1216.2	* 97.92		

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER YEAR	* ELEV, FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1229.1	* 1	* 1950	* 1229.9	* 2.08	*
* 7	* -1	* 1931	* 1229.1	* 2	* 1965	* 1229.6	* 4.17	*
* 6	* -1	* 1932	* 1229.1	* 3	* 1943	* 1229.4	* 6.25	*
* 6	* -1	* 1933	* 1229.1	* 4	* 1944	* 1229.1	* 8.33	*
* 6	* -1	* 1934	* 1228.3	* 5	* 1966	* 1229.1	* 10.42	*
* 6	* -1	* 1935	* 1229.1	* 6	* 1945	* 1229.1	* 12.50	*
* 6	* -1	* 1936	* 1229.1	* 7	* 1937	* 1229.1	* 14.58	*
* 6	* -1	* 1937	* 1229.1	* 8	* 1938	* 1229.1	* 16.67	*
* 5	* -1	* 1938	* 1229.1	* 9	* 1939	* 1229.1	* 18.75	*
* 6	* -1	* 1939	* 1229.1	* 10	* 1940	* 1229.1	* 20.83	*
* 6	* -1	* 1940	* 1229.1	* 11	* 1941	* 1229.1	* 22.92	*
* 5	* -1	* 1941	* 1229.1	* 12	* 1942	* 1229.1	* 25.00	*
* 6	* -1	* 1942	* 1229.1	* 13	* 1932	* 1229.1	* 27.08	*
* 6	* -1	* 1943	* 1229.4	* 14	* 1933	* 1229.1	* 29.17	*
* 6	* -1	* 1944	* 1229.1	* 15	* 1935	* 1229.1	* 31.25	*
* 5	* -1	* 1945	* 1229.1	* 16	* 1946	* 1229.1	* 33.33	*
* 6	* -1	* 1946	* 1229.1	* 17	* 1947	* 1229.1	* 35.42	*
* 6	* -1	* 1947	* 1229.1	* 18	* 1948	* 1229.1	* 37.50	*
* 5	* -1	* 1948	* 1229.1	* 19	* 1949	* 1229.1	* 39.58	*
* 6	* -1	* 1949	* 1229.1	* 20	* 1930	* 1229.1	* 41.67	*
* 5	* -1	* 1950	* 1229.9	* 21	* 1951	* 1229.1	* 43.75	*
* 6	* -1	* 1951	* 1229.1	* 22	* 1952	* 1229.1	* 45.83	*
* 5	* -1	* 1952	* 1229.1	* 23	* 1953	* 1229.1	* 47.92	*
* 6	* -1	* 1953	* 1229.1	* 24	* 1954	* 1229.1	* 50.00	*
* 5	* -1	* 1954	* 1229.1	* 25	* 1955	* 1229.1	* 52.08	*
* 7	* -1	* 1955	* 1229.1	* 26	* 1956	* 1229.1	* 54.17	*
* 5	* -1	* 1956	* 1229.1	* 27	* 1957	* 1229.1	* 56.25	*
* 6	* -1	* 1957	* 1229.1	* 28	* 1959	* 1229.1	* 58.33	*
* 9	* -1	* 1958	* 1228.9	* 29	* 1960	* 1229.1	* 60.42	*
* 6	* -1	* 1959	* 1229.1	* 30	* 1962	* 1229.1	* 62.50	*
* 6	* -1	* 1960	* 1229.1	* 31	* 1963	* 1229.1	* 64.58	*
* 6	* -1	* 1961	* 1229.0	* 32	* 1964	* 1229.1	* 66.67	*
* 6	* -1	* 1962	* 1229.1	* 33	* 1931	* 1229.1	* 68.75	*
* 6	* -1	* 1963	* 1229.1	* 34	* 1967	* 1229.1	* 70.83	*
* 6	* -1	* 1964	* 1229.1	* 35	* 1968	* 1229.1	* 72.92	*
* 6	* -1	* 1965	* 1229.6	* 36	* 1969	* 1229.1	* 75.00	*
* 5	* -1	* 1966	* 1229.1	* 37	* 1970	* 1229.1	* 77.08	*
* 5	* -1	* 1967	* 1229.1	* 38	* 1971	* 1229.1	* 79.17	*
* 6	* -1	* 1968	* 1229.1	* 39	* 1972	* 1229.1	* 81.25	*
* 5	* -1	* 1969	* 1229.1	* 40	* 1973	* 1229.1	* 83.33	*
* 5	* -1	* 1970	* 1229.1	* 41	* 1974	* 1229.1	* 85.42	*
* 5	* -1	* 1971	* 1229.1	* 42	* 1975	* 1229.1	* 87.50	*
* 5	* -1	* 1972	* 1229.1	* 43	* 1936	* 1229.1	* 89.58	*
* 6	* -1	* 1973	* 1229.1	* 44	* 1961	* 1229.0	* 91.67	*
* 5	* -1	* 1974	* 1229.1	* 45	* 1958	* 1228.9	* 93.75	*
* 5	* -1	* 1975	* 1229.1	* 46	* 1976	* 1228.8	* 95.83	*

* 7 -1 1976 1228.8 * 47 1934 1228.3 97.92 *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1228.5	* 1	* 1934	* 1227.6	* 2.08	*
* 5	* -1	* 1931	* 1228.1	* 2	* 1976	* 1227.9	* 4.17	*
* 9	* -1	* 1932	* 1228.4	* 3	* 1958	* 1228.0	* 6.25	*
* 5	* -1	* 1933	* 1228.5	* 4	* 1931	* 1228.1	* 8.33	*
* 5	* -1	* 1934	* 1227.6	* 5	* 1936	* 1228.1	* 10.42	*
* 5	* -1	* 1935	* 1228.7	* 6	* 1959	* 1228.4	* 12.50	*
* 9	* -1	* 1936	* 1228.1	* 7	* 1932	* 1228.4	* 14.58	*
* 5	* -1	* 1937	* 1228.7	* 8	* 1933	* 1228.5	* 16.67	*
* 8	* -1	* 1938	* 1229.0	* 9	* 1970	* 1228.5	* 18.75	*
* 9	* -1	* 1939	* 1228.6	* 10	* 1930	* 1228.5	* 20.83	*
* 5	* -1	* 1940	* 1228.7	* 11	* 1939	* 1228.6	* 22.92	*
* 5	* -1	* 1941	* 1229.1	* 12	* 1955	* 1228.6	* 25.00	*
* 5	* -1	* 1942	* 1228.7	* 13	* 1961	* 1228.7	* 27.08	*
* 5	* -1	* 1943	* 1228.7	* 14	* 1943	* 1228.7	* 29.17	*
* 5	* -1	* 1944	* 1228.7	* 15	* 1944	* 1228.7	* 31.25	*
* 5	* -1	* 1945	* 1229.1	* 16	* 1946	* 1228.7	* 33.33	*
* 5	* -1	* 1946	* 1228.7	* 17	* 1947	* 1228.7	* 35.42	*
* 5	* -1	* 1947	* 1228.7	* 18	* 1949	* 1228.7	* 37.50	*
* 5	* -1	* 1948	* 1229.1	* 19	* 1951	* 1228.7	* 39.58	*
* 5	* -1	* 1949	* 1228.7	* 20	* 1953	* 1228.7	* 41.67	*
* 7	* -1	* 1950	* 1229.1	* 21	* 1957	* 1228.7	* 43.75	*
* 5	* -1	* 1951	* 1228.7	* 22	* 1940	* 1228.7	* 45.83	*
* 5	* -1	* 1952	* 1229.1	* 23	* 1935	* 1228.7	* 47.92	*

* 5	* -1	* 1953	* 1228.7	* 24	* 1960	* 1228.7	* 50.00	*
* 5	* -1	* 1954	* 1229.1	* 25	* 1942	* 1228.7	* 52.08	*
* 5	* -1	* 1955	* 1228.6	* 26	* 1962	* 1228.7	* 54.17	*
* 9	* -1	* 1956	* 1229.0	* 27	* 1963	* 1228.7	* 56.25	*
* 5	* -1	* 1957	* 1228.7	* 28	* 1964	* 1228.7	* 58.33	*
* 5	* -1	* 1958	* 1228.0	* 29	* 1968	* 1228.7	* 60.42	*
* 5	* -1	* 1959	* 1228.4	* 30	* 1973	* 1228.7	* 62.50	*
* 5	* -1	* 1960	* 1228.7	* 31	* 1937	* 1228.7	* 64.58	*
* 5	* -1	* 1961	* 1228.7	* 32	* 1967	* 1228.9	* 66.67	*
* 5	* -1	* 1962	* 1228.7	* 33	* 1969	* 1229.0	* 68.75	*
* 5	* -1	* 1963	* 1228.7	* 34	* 1956	* 1229.0	* 70.83	*
* 5	* -1	* 1964	* 1228.7	* 35	* 1938	* 1229.0	* 72.92	*
* 5	* -1	* 1965	* 1229.1	* 36	* 1965	* 1229.1	* 75.00	*
* 6	* -1	* 1966	* 1229.1	* 37	* 1966	* 1229.1	* 77.08	*
* 9	* -1	* 1967	* 1228.9	* 38	* 1954	* 1229.1	* 79.17	*
* 5	* -1	* 1968	* 1228.7	* 39	* 1948	* 1229.1	* 81.25	*
* 8	* -1	* 1969	* 1229.0	* 40	* 1941	* 1229.1	* 83.33	*
* 5	* -1	* 1970	* 1228.5	* 41	* 1950	* 1229.1	* 85.42	*
* 9	* -1	* 1971	* 1229.1	* 42	* 1971	* 1229.1	* 87.50	*
* 5	* -1	* 1972	* 1229.1	* 43	* 1972	* 1229.1	* 89.58	*
* 5	* -1	* 1973	* 1228.7	* 44	* 1952	* 1229.1	* 91.67	*
* 5	* -1	* 1974	* 1229.1	* 45	* 1974	* 1229.1	* 93.75	*
* 5	* -1	* 1975	* 1229.1	* 46	* 1975	* 1229.1	* 95.83	*
* 9	* -1	* 1976	* 1227.9	* 47	* 1945	* 1229.1	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL FLOT POS	*
* 6	* -1	* 1930	* 1193.7	* 1	* 1950	* 1194.8	* 2.08	*
* 7	* -1	* 1931	* 1193.6	* 2	* 1938	* 1194.4	* 4.17	*
* 6	* -1	* 1932	* 1193.5	* 3	* 1944	* 1194.3	* 6.25	*
* 6	* -1	* 1933	* 1193.8	* 4	* 1975	* 1194.2	* 8.33	*
* 5	* -1	* 1934	* 1193.0	* 5	* 1965	* 1194.1	* 10.42	*
* 7	* -1	* 1935	* 1193.8	* 6	* 1943	* 1194.1	* 12.50	*
* 6	* -1	* 1936	* 1193.6	* 7	* 1952	* 1194.0	* 14.58	*
* 6	* -1	* 1937	* 1193.8	* 8	* 1947	* 1193.8	* 16.67	*
* 5	* -1	* 1938	* 1194.4	* 9	* 1970	* 1193.8	* 18.75	*
* 7	* -1	* 1939	* 1193.7	* 10	* 1941	* 1193.8	* 20.83	*
* 6	* -1	* 1940	* 1193.7	* 11	* 1942	* 1193.8	* 22.92	*
* 5	* -1	* 1941	* 1193.8	* 12	* 1935	* 1193.8	* 25.00	*
* 6	* -1	* 1942	* 1193.8	* 13	* 1945	* 1193.8	* 27.08	*
* 6	* -1	* 1943	* 1194.1	* 14	* 1946	* 1193.8	* 29.17	*
* 6	* -1	* 1944	* 1194.3	* 15	* 1937	* 1193.8	* 31.25	*
* 5	* -1	* 1945	* 1193.8	* 16	* 1948	* 1193.8	* 33.33	*
* 6	* -1	* 1946	* 1193.8	* 17	* 1949	* 1193.8	* 35.42	*
* 5	* -1	* 1947	* 1193.8	* 18	* 1951	* 1193.8	* 37.50	*
* 5	* -1	* 1948	* 1193.8	* 19	* 1953	* 1193.8	* 39.58	*
* 6	* -1	* 1949	* 1193.8	* 20	* 1954	* 1193.8	* 41.67	*
* 5	* -1	* 1950	* 1194.8	* 21	* 1955	* 1193.8	* 43.75	*
* 6	* -1	* 1951	* 1193.8	* 22	* 1956	* 1193.8	* 45.83	*
* 7	* -1	* 1952	* 1194.0	* 23	* 1957	* 1193.8	* 47.92	*
* 6	* -1	* 1953	* 1193.8	* 24	* 1958	* 1193.8	* 50.00	*
* 5	* -1	* 1954	* 1193.8	* 25	* 1959	* 1193.8	* 52.08	*
* 8	* -1	* 1955	* 1193.8	* 26	* 1960	* 1193.8	* 54.17	*
* 5	* -1	* 1956	* 1193.8	* 27	* 1962	* 1193.8	* 56.25	*
* 6	* -1	* 1957	* 1193.8	* 28	* 1963	* 1193.8	* 58.33	*
* 7	* -1	* 1958	* 1193.8	* 29	* 1964	* 1193.8	* 60.42	*
* 6	* -1	* 1959	* 1193.8	* 30	* 1966	* 1193.8	* 62.50	*
* 6	* -1	* 1960	* 1193.8	* 31	* 1967	* 1193.8	* 64.58	*
* 8	* -1	* 1961	* 1193.6	* 32	* 1968	* 1193.8	* 66.67	*
* 6	* -1	* 1962	* 1193.8	* 33	* 1969	* 1193.8	* 68.75	*
* 6	* -1	* 1963	* 1193.8	* 34	* 1971	* 1193.8	* 70.83	*
* 6	* -1	* 1964	* 1193.8	* 35	* 1972	* 1193.8	* 72.92	*
* 6	* -1	* 1965	* 1194.1	* 36	* 1973	* 1193.8	* 75.00	*
* 5	* -1	* 1966	* 1193.8	* 37	* 1974	* 1193.8	* 77.08	*
* 5	* -1	* 1967	* 1193.8	* 38	* 1933	* 1193.8	* 79.17	*
* 6	* -1	* 1968	* 1193.8	* 39	* 1930	* 1193.7	* 81.25	*
* 5	* -1	* 1969	* 1193.8	* 40	* 1940	* 1193.7	* 83.33	*
* 5	* -1	* 1970	* 1193.8	* 41	* 1939	* 1193.7	* 85.42	*
* 5	* -1	* 1971	* 1193.8	* 42	* 1936	* 1193.6	* 87.50	*
* 5	* -1	* 1972	* 1193.8	* 43	* 1931	* 1193.6	* 89.58	*
* 6	* -1	* 1973	* 1193.8	* 44	* 1961	* 1193.6	* 91.67	*
* 5	* -1	* 1974	* 1193.8	* 45	* 1932	* 1193.5	* 93.75	*
* 5	* -1	* 1975	* 1194.2	* 46	* 1976	* 1193.5	* 95.83	*
* 7	* -1	* 1976	* 1193.5	* 47	* 1934	* 1193.0	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1192.8	* 1	* 1934	* 1192.5	* 2.08	* 7
* 5	* -1	* 1931	* 1193.0	* 2	* 1976	* 1192.6	* 4.17	* 7
* 9	* -1	* 1932	* 1192.6	* 3	* 1932	* 1192.6	* 6.25	* 7
* 9	* -1	* 1933	* 1192.9	* 4	* 1936	* 1192.7	* 8.33	* 7
* 9	* -1	* 1934	* 1192.5	* 5	* 1930	* 1192.8	* 10.42	* 7
* 5	* -1	* 1935	* 1193.5	* 6	* 1933	* 1192.9	* 12.50	* 7
* 9	* -1	* 1936	* 1192.7	* 7	* 1931	* 1193.0	* 14.58	* 7
* 5	* -1	* 1937	* 1193.5	* 8	* 1939	* 1193.2	* 16.67	* 7
* 8	* -1	* 1938	* 1193.7	* 9	* 1970	* 1193.2	* 18.75	* 7
* 9	* -1	* 1939	* 1193.2	* 10	* 1955	* 1193.4	* 20.83	* 7
* 9	* -1	* 1940	* 1193.5	* 11	* 1958	* 1193.4	* 22.92	* 7
* 7	* -1	* 1941	* 1193.7	* 12	* 1969	* 1193.4	* 25.00	* 7
* 5	* -1	* 1942	* 1193.5	* 13	* 1959	* 1193.4	* 27.08	* 7
* 5	* -1	* 1943	* 1193.5	* 14	* 1935	* 1193.5	* 29.17	* 7
* 5	* -1	* 1944	* 1193.5	* 15	* 1950	* 1193.5	* 31.25	* 7
* 5	* -1	* 1945	* 1193.8	* 16	* 1961	* 1193.5	* 33.33	* 7
* 5	* -1	* 1946	* 1193.5	* 17	* 1940	* 1193.5	* 35.42	* 7
* 9	* -1	* 1947	* 1193.7	* 18	* 1949	* 1193.5	* 37.50	* 7
* 9	* -1	* 1948	* 1193.7	* 19	* 1944	* 1193.5	* 39.58	* 7
* 5	* -1	* 1949	* 1193.5	* 20	* 1951	* 1193.5	* 41.67	* 7
* 9	* -1	* 1950	* 1193.5	* 21	* 1953	* 1193.5	* 43.75	* 7
* 5	* -1	* 1951	* 1193.5	* 22	* 1937	* 1193.5	* 45.83	* 7
* 9	* -1	* 1952	* 1193.7	* 23	* 1957	* 1193.5	* 47.92	* 7
* 5	* -1	* 1953	* 1193.5	* 24	* 1946	* 1193.5	* 50.00	* 7
* 5	* -1	* 1954	* 1193.8	* 25	* 1942	* 1193.5	* 52.08	* 7
* 5	* -1	* 1955	* 1193.4	* 26	* 1960	* 1193.5	* 54.17	* 7

* 9	* -1	* 1956	* 1193.6	* 27	* 1962	* 1193.5	* 56.25	* 7
* 5	* -1	* 1957	* 1193.5	* 28	* 1963	* 1193.5	* 58.33	* 7
* 5	* -1	* 1958	* 1193.4	* 29	* 1964	* 1193.5	* 60.42	* 7
* 5	* -1	* 1959	* 1193.4	* 30	* 1967	* 1193.5	* 62.50	* 7
* 5	* -1	* 1960	* 1193.5	* 31	* 1968	* 1193.5	* 64.58	* 7
* 5	* -1	* 1961	* 1193.5	* 32	* 1973	* 1193.5	* 66.67	* 7
* 5	* -1	* 1962	* 1193.5	* 33	* 1943	* 1193.5	* 68.75	* 7
* 5	* -1	* 1963	* 1193.5	* 34	* 1956	* 1193.6	* 70.83	* 7
* 5	* -1	* 1964	* 1193.5	* 35	* 1938	* 1193.7	* 72.92	* 7
* 8	* -1	* 1965	* 1193.7	* 36	* 1974	* 1193.7	* 75.00	* 7
* 9	* -1	* 1966	* 1193.7	* 37	* 1948	* 1193.7	* 77.08	* 7
* 9	* -1	* 1967	* 1193.5	* 38	* 1966	* 1193.7	* 79.17	* 7
* 5	* -1	* 1968	* 1193.5	* 39	* 1941	* 1193.7	* 81.25	* 7
* 9	* -1	* 1969	* 1193.4	* 40	* 1971	* 1193.7	* 83.33	* 7
* 9	* -1	* 1970	* 1193.2	* 41	* 1947	* 1193.7	* 85.42	* 7
* 9	* -1	* 1971	* 1193.7	* 42	* 1965	* 1193.7	* 87.50	* 7
* 5	* -1	* 1972	* 1193.8	* 43	* 1952	* 1193.7	* 89.58	* 7
* 5	* -1	* 1973	* 1193.5	* 44	* 1945	* 1193.8	* 91.67	* 7
* 9	* -1	* 1974	* 1193.7	* 45	* 1954	* 1193.8	* 93.75	* 7
* 6	* -1	* 1975	* 1193.8	* 46	* 1975	* 1193.8	* 95.83	* 7
* 9	* -1	* 1976	* 1192.6	* 47	* 1972	* 1193.8	* 97.92	* 7

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIRULL PLOT POS	* *
* 5	* -1	* 1930	* 3457.	* 1	* 1950	* 23859.	* 2.08	* *
* 6	* -1	* 1931	* 2515.	* 2	* 1975	* 20618.	* 4.17	* *
* 5	* -1	* 1932	* 3079.	* 3	* 1969	* 17500.	* 6.25	* *
* 5	* -1	* 1933	* 2876.	* 4	* 1953	* 16765.	* 8.33	* *
* 4	* -1	* 1934	* 1984.	* 5	* 1965	* 15488.	* 10.42	* *
* 5	* -1	* 1935	* 3157.	* 6	* 1971	* 15254.	* 12.50	* *
* 5	* -1	* 1936	* 5132.	* 7	* 1948	* 15005.	* 14.58	* *
* 5	* -1	* 1937	* 4160.	* 8	* 1966	* 14700.	* 16.67	* *
* 5	* -1	* 1938	* 14213.	* 9	* 1943	* 14444.	* 18.75	* *
* 4	* -1	* 1939	* 5648.	* 10	* 1938	* 14213.	* 20.83	* *
* 5	* -1	* 1940	* 3551.	* 11	* 1944	* 13633.	* 22.92	* *
* 4	* -1	* 1941	* 12129.	* 12	* 1952	* 13460.	* 25.00	* *
* 5	* -1	* 1942	* 4972.	* 13	* 1972	* 13244.	* 27.08	* *
* 6	* -1	* 1943	* 14444.	* 14	* 1974	* 12766.	* 29.17	* *
* 6	* -1	* 1944	* 13633.	* 15	* 1954	* 12553.	* 31.25	* *
* 3	* -1	* 1945	* 12226.	* 16	* 1945	* 12226.	* 33.33	* *
* 6	* -1	* 1946	* 6138.	* 17	* 1941	* 12129.	* 35.42	* *
* 4	* -1	* 1947	* 6589.	* 18	* 1956	* 11333.	* 37.50	* *
* 4	* -1	* 1948	* 15005.	* 19	* 1970	* 9777.	* 39.58	* *
* 7	* -1	* 1949	* 6618.	* 20	* 1967	* 9324.	* 41.67	* *
* 5	* -1	* 1950	* 23859.	* 21	* 1973	* 7737.	* 43.75	* *
* 5	* -1	* 1951	* 7460.	* 22	* 1962	* 7728.	* 45.83	* *
* 7	* -1	* 1952	* 13460.	* 23	* 1951	* 7460.	* 47.92	* *

* 8	* -1	* 1953	* 16765.	* 24	* 1949	* 6618.	* 50.00	* *
* 4	* -1	* 1954	* 12553.	* 25	* 1947	* 6589.	* 52.08	* *
* 4	* -1	* 1955	* 4693.	* 26	* 1964	* 6171.	* 54.17	* *
* 4	* -1	* 1956	* 11333.	* 27	* 1946	* 6138.	* 56.25	* *
* 4	* -1	* 1957	* 5296.	* 28	* 1939	* 5648.	* 58.33	* *
* 2	* -1	* 1958	* 2182.	* 29	* 1960	* 5372.	* 60.42	* *
* 6	* -1	* 1959	* 3794.	* 30	* 1976	* 5325.	* 62.50	* *
* 5	* -1	* 1960	* 5372.	* 31	* 1957	* 5296.	* 64.58	* *
* 5	* -1	* 1961	* 3375.	* 32	* 1936	* 5132.	* 66.67	* *
* 5	* -1	* 1962	* 7728.	* 33	* 1968	* 5033.	* 68.75	* *
* 6	* -1	* 1963	* 4161.	* 34	* 1942	* 4972.	* 70.83	* *
* 5	* -1	* 1964	* 6171.	* 35	* 1955	* 4693.	* 72.92	* *
* 4	* -1	* 1965	* 15488.	* 36	* 1963	* 4161.	* 75.00	* *
* 5	* -1	* 1966	* 14700.	* 37	* 1937	* 4160.	* 77.08	* *
* 4	* -1	* 1967	* 9324.	* 38	* 1959	* 3794.	* 79.17	* *
* 6	* -1	* 1968	* 5033.	* 39	* 1940	* 3551.	* 81.25	* *
* 4	* -1	* 1969	* 17500.	* 40	* 1930	* 3457.	* 83.33	* *
* 5	* -1	* 1970	* 9777.	* 41	* 1961	* 3375.	* 85.42	* *
* 4	* -1	* 1971	* 15254.	* 42	* 1935	* 3157.	* 87.50	* *
* 4	* -1	* 1972	* 13244.	* 43	* 1932	* 3079.	* 89.58	* *
* 10	* -1	* 1973	* 7737.	* 44	* 1933	* 2876.	* 91.67	* *
* 6	* -1	* 1974	* 12766.	* 45	* 1931	* 2515.	* 93.75	* *
* 5	* -1	* 1975	* 20618.	* 46	* 1958	* 2182.	* 95.83	* *
* 4	* -1	* 1976	* 5325.	* 47	* 1934	* 1984.	* 97.92	* *

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANOKA FLOW

*****EVENTS ANALYZED*****ORDERED EVENTS*****

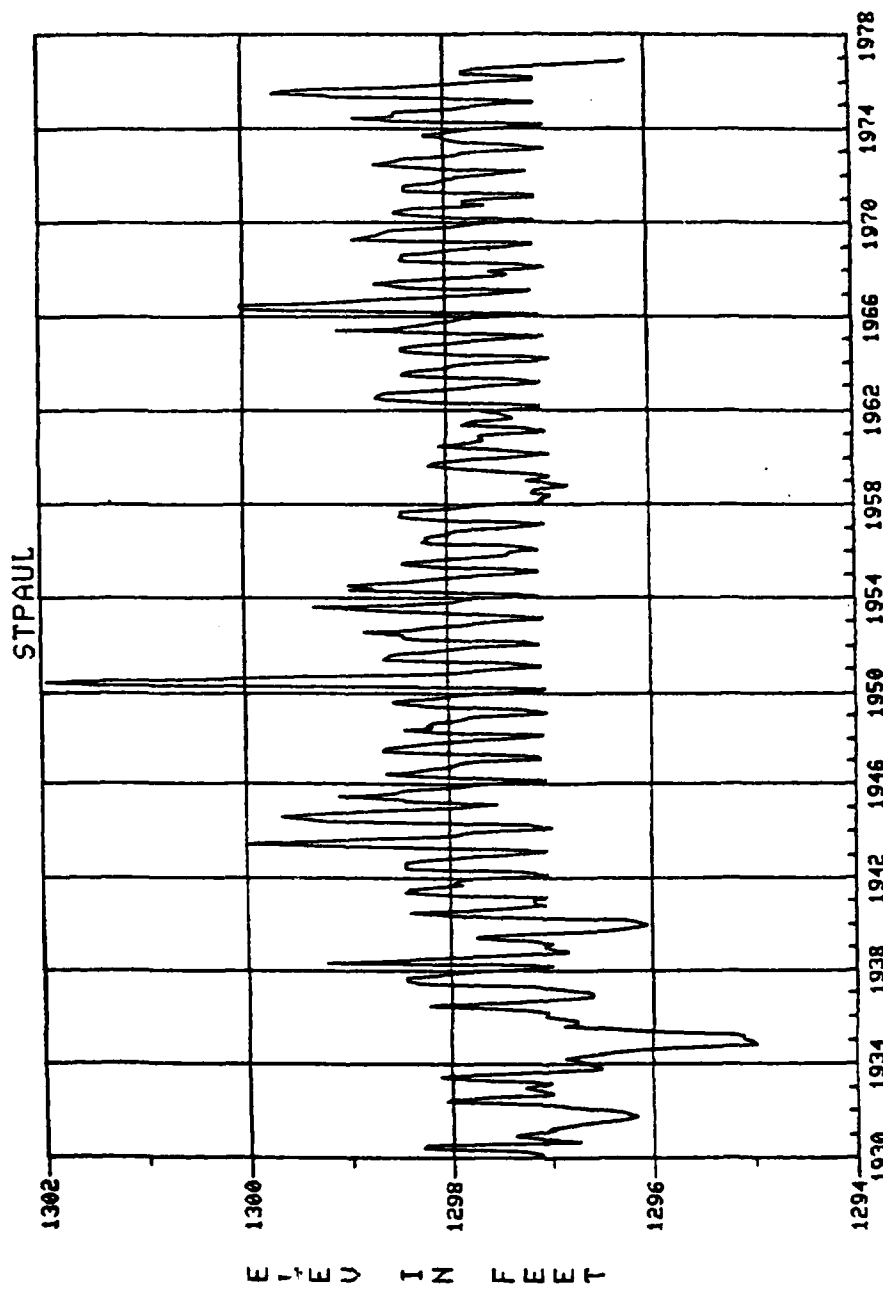
* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIBULL PLOT POS	*
* 8	* -1	* 1930	* 1052.	* 1	* 1934	* 810.	* 2.08	*
* 9	* -1	* 1931	* 1347.	* 2	* 1936	* 827.	* 4.17	*
* 10	* -1	* 1932	* 1263.	* 3	* 1933	* 971.	* 6.25	*
* 9	* -1	* 1933	* 971.	* 4	* 1935	* 1030.	* 8.33	*
* 8	* -1	* 1934	* 810.	* 5	* 1976	* 1048.	* 10.42	*
* 1	* -1	* 1935	* 1030.	* 6	* 1930	* 1052.	* 12.50	*
* 7	* -1	* 1936	* 827.	* 7	* 1932	* 1263.	* 14.58	*
* 1	* -1	* 1937	* 1307.	* 8	* 1937	* 1307.	* 16.67	*
* 1	* -1	* 1938	* 2061.	* 9	* 1931	* 1347.	* 18.75	*
* 10	* -1	* 1939	* 1885.	* 10	* 1940	* 1371.	* 20.83	*
* 9	* -1	* 1940	* 1371.	* 11	* 1961	* 1642.	* 22.92	*
* 8	* -1	* 1941	* 2827.	* 12	* 1970	* 1858.	* 25.00	*
* 1	* -1	* 1942	* 3568.	* 13	* 1939	* 1885.	* 27.08	*
* 12	* -1	* 1943	* 3573.	* 14	* 1960	* 1977.	* 29.17	*
* 1	* -1	* 1944	* 4168.	* 15	* 1938	* 2061.	* 31.25	*
* 1	* -1	* 1945	* 4275.	* 16	* 1948	* 2211.	* 33.33	*
* 9	* -1	* 1946	* 3625.	* 17	* 1967	* 2301.	* 35.42	*
* 8	* -1	* 1947	* 3174.	* 18	* 1959	* 2398.	* 37.50	*
* 10	* -1	* 1948	* 2211.	* 19	* 1962	* 2449.	* 39.58	*
* 9	* -1	* 1949	* 2553.	* 20	* 1956	* 2501.	* 41.67	*
* 8	* -1	* 1950	* 3127.	* 21	* 1958	* 2530.	* 43.75	*
* 1	* -1	* 1951	* 4115.	* 22	* 1949	* 2553.	* 45.83	*
* 11	* -1	* 1952	* 3521.	* 23	* 1964	* 2571.	* 47.92	*
* 1	* -1	* 1953	* 4831.	* 24	* 1968	* 2750.	* 50.00	*
* 12	* -1	* 1954	* 4061.	* 25	* 1969	* 2788.	* 52.08	*
* 11	* -1	* 1955	* 3193.	* 26	* 1941	* 2827.	* 54.17	*
* 10	* -1	* 1956	* 2501.	* 27	* 1963	* 2925.	* 56.25	*
* 1	* -1	* 1957	* 3060.	* 28	* 1957	* 3060.	* 58.33	*
* 8	* -1	* 1958	* 2530.	* 29	* 1965	* 3090.	* 60.42	*
* 2	* -1	* 1959	* 2398.	* 30	* 1971	* 3126.	* 62.50	*
* 8	* -1	* 1960	* 1977.	* 31	* 1950	* 3127.	* 64.58	*
* 8	* -1	* 1961	* 1642.	* 32	* 1947	* 3174.	* 66.67	*
* 3	* -1	* 1962	* 2449.	* 33	* 1955	* 3193.	* 68.75	*
* 11	* -1	* 1963	* 2925.	* 34	* 1974	* 3206.	* 70.83	*
* 8	* -1	* 1964	* 2571.	* 35	* 1952	* 3521.	* 72.92	*
* 3	* -1	* 1965	* 3090.	* 36	* 1942	* 3568.	* 75.00	*
* 12	* -1	* 1966	* 4845.	* 37	* 1943	* 3573.	* 77.08	*
* 11	* -1	* 1967	* 2301.	* 38	* 1946	* 3625.	* 79.17	*
* 1	* -1	* 1968	* 2750.	* 39	* 1954	* 4061.	* 81.25	*
* 9	* -1	* 1969	* 2788.	* 40	* 1951	* 4115.	* 83.33	*
* 9	* -1	* 1970	* 1858.	* 41	* 1944	* 4168.	* 85.42	*
* 9	* -1	* 1971	* 3126.	* 42	* 1975	* 4255.	* 87.50	*
* 12	* -1	* 1972	* 6788.	* 43	* 1945	* 4275.	* 89.58	*
* 7	* -1	* 1973	* 4609.	* 44	* 1973	* 4609.	* 91.67	*
* 9	* -1	* 1974	* 3206.	* 45	* 1953	* 4831.	* 93.75	*
* 8	* -1	* 1975	* 4255.	* 46	* 1966	* 4845.	* 95.83	*
* 9	* -1	* 1976	* 1048.	* 47	* 1972	* 6788.	* 97.92	*

APPENDIX L

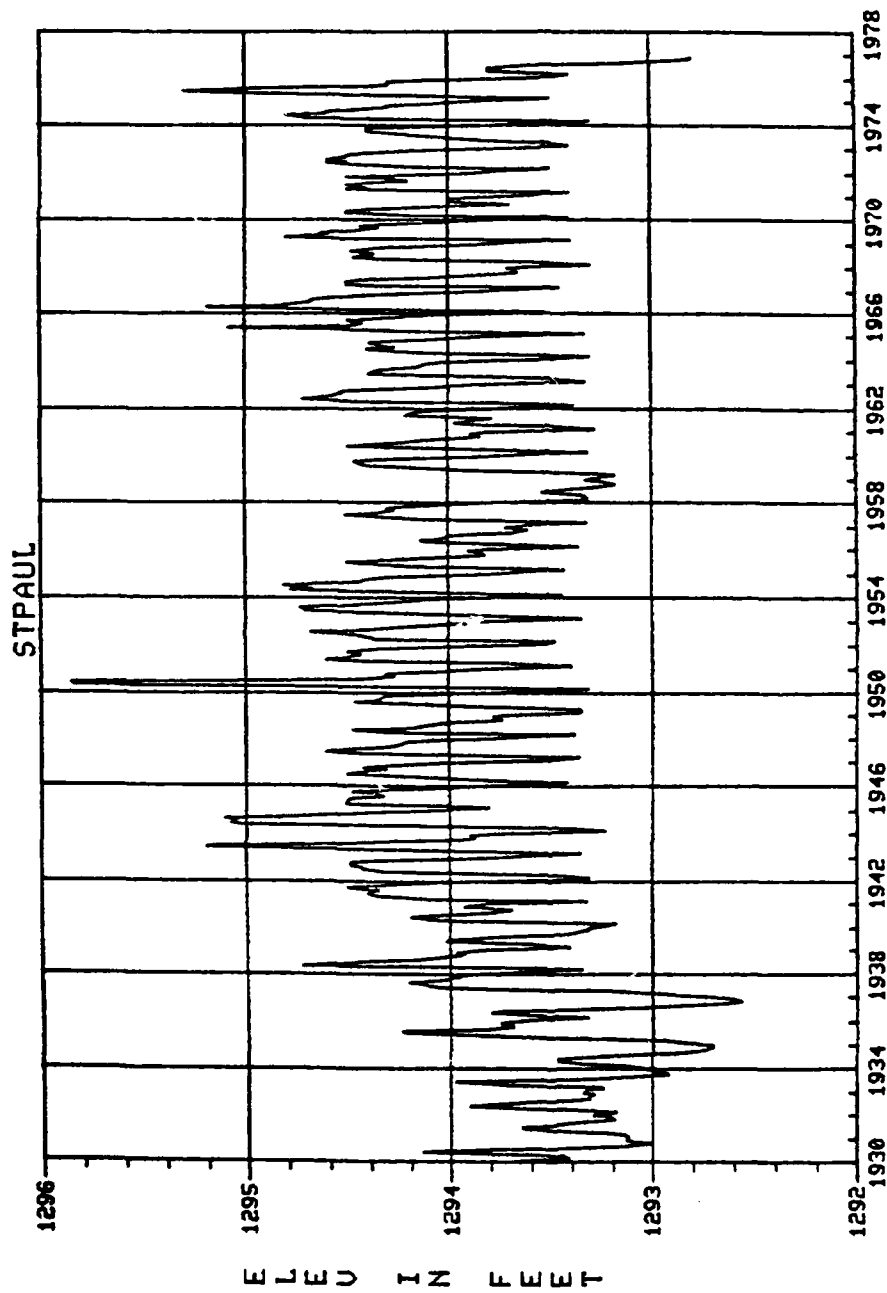
PLAN 9

TIME SERIES DATA PLOTS
AND
ANNUAL MAX/MIN DATA TABLES

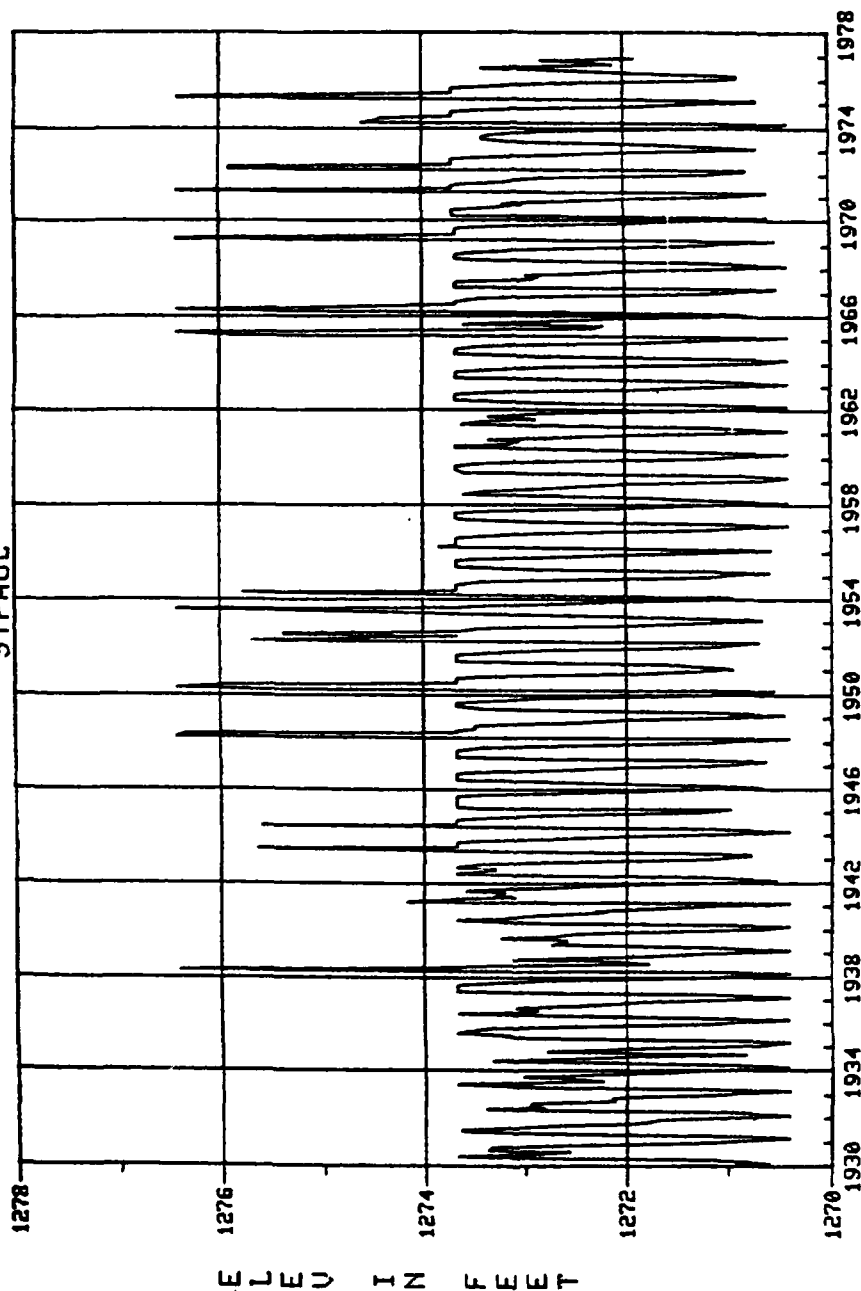
Note: The time series data plots in Appendices E through L are based on the complete period of record used in this study. The annual maximum and minimum data tables are only for the period of 1 May through 30 September for each year. The time series plot may have data values lower than those listed in the minimum data tables.

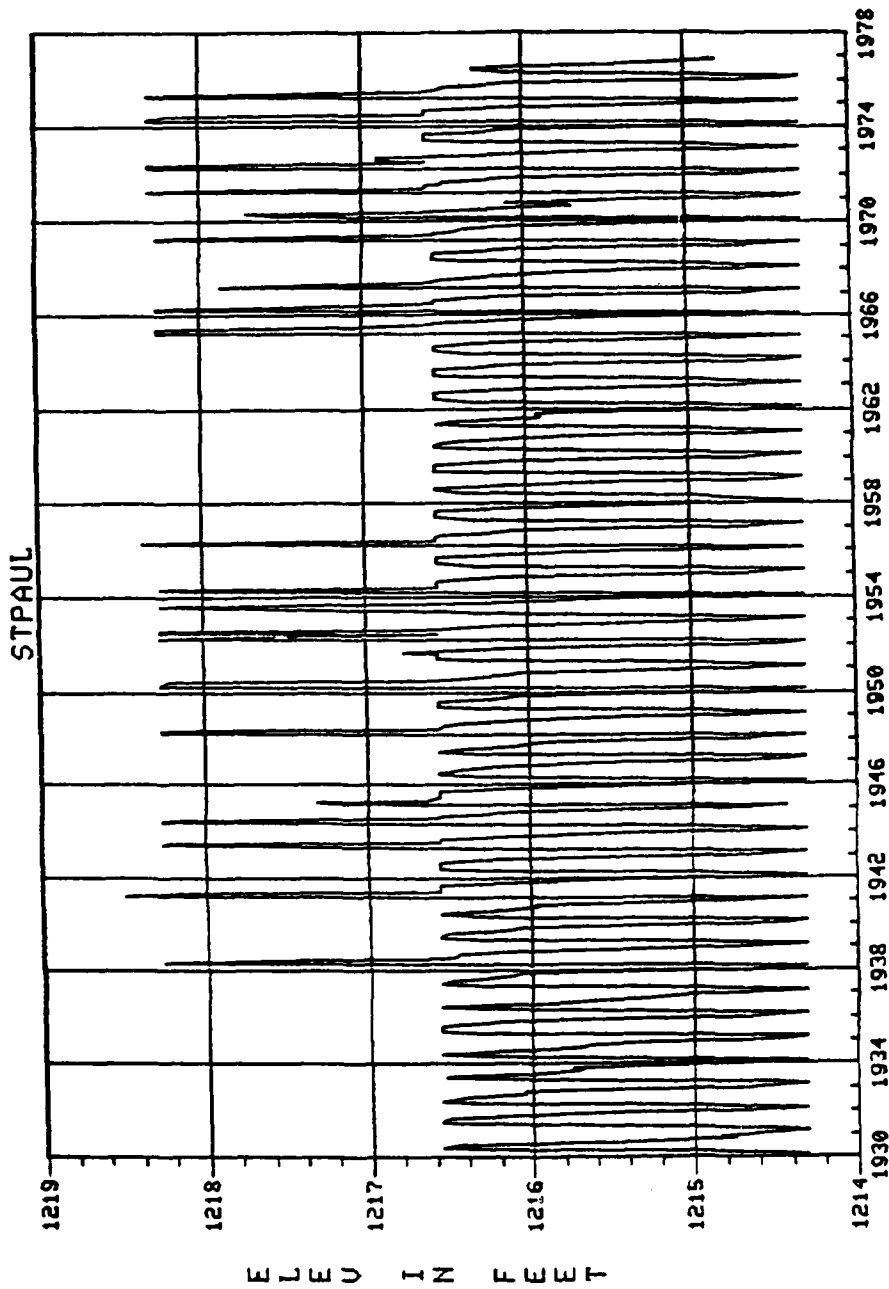


— WINNI RES. PLANGR ELEV

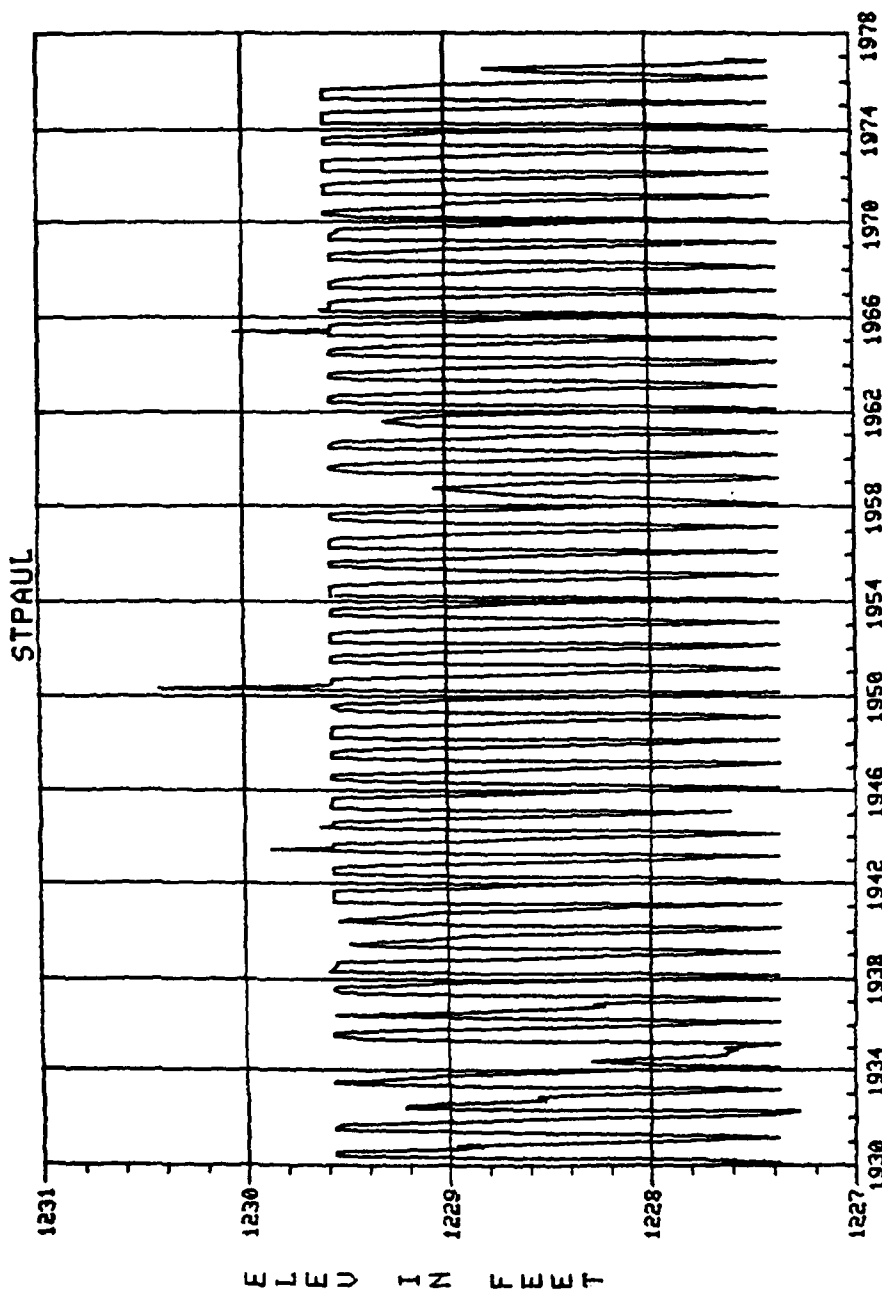


STPAUL



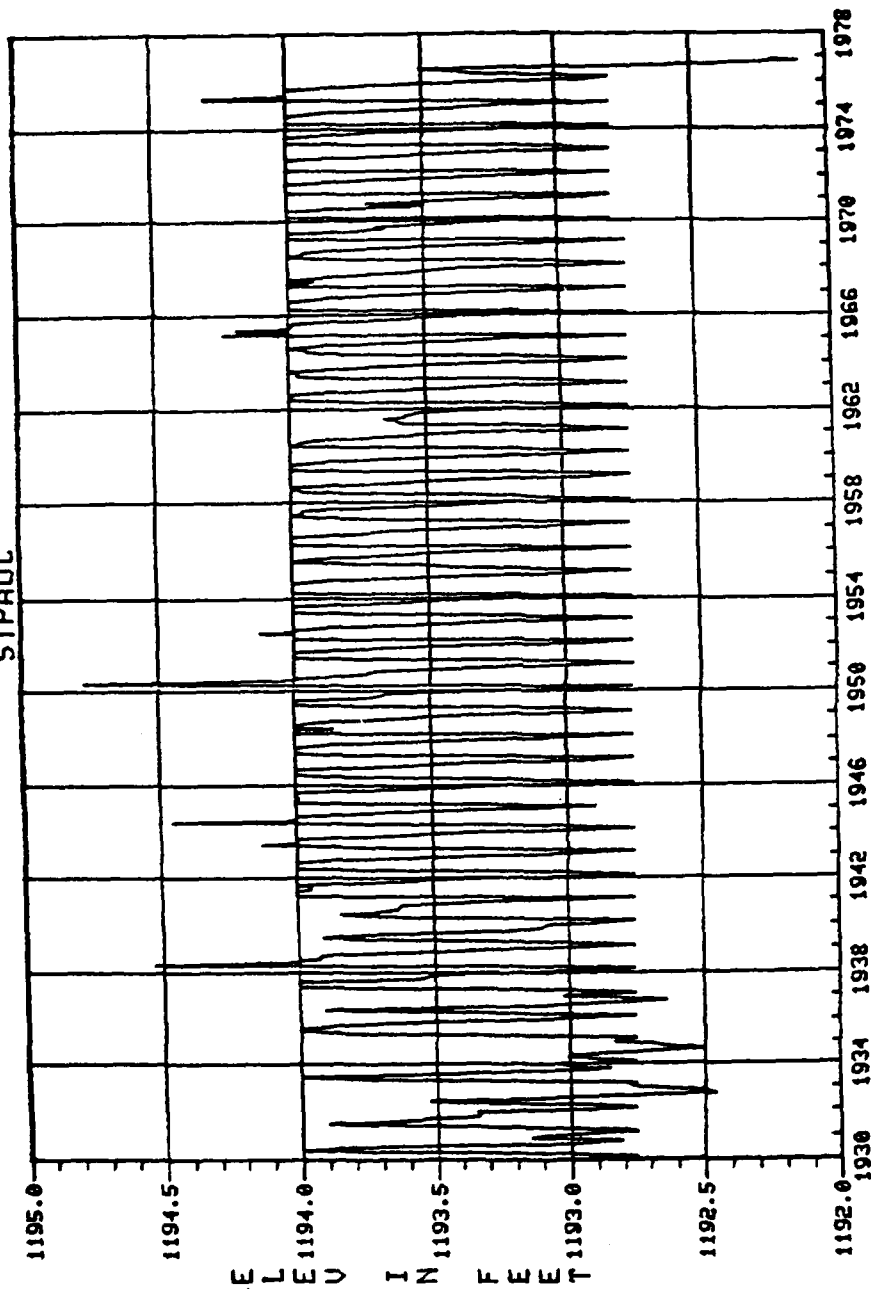


— SANDY RES. PLANDR ELEV



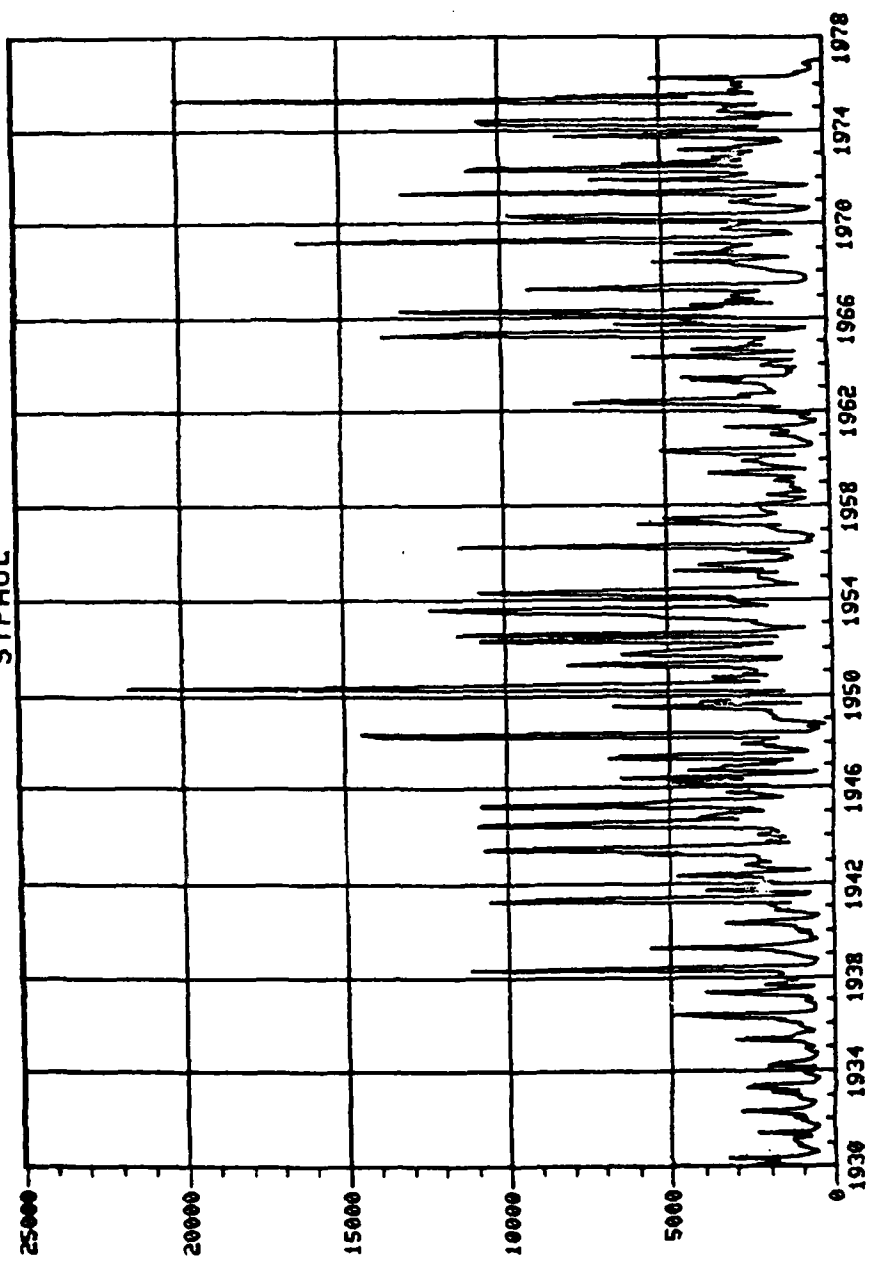
— PINE RES. PLANOR ELEV

STPAUL

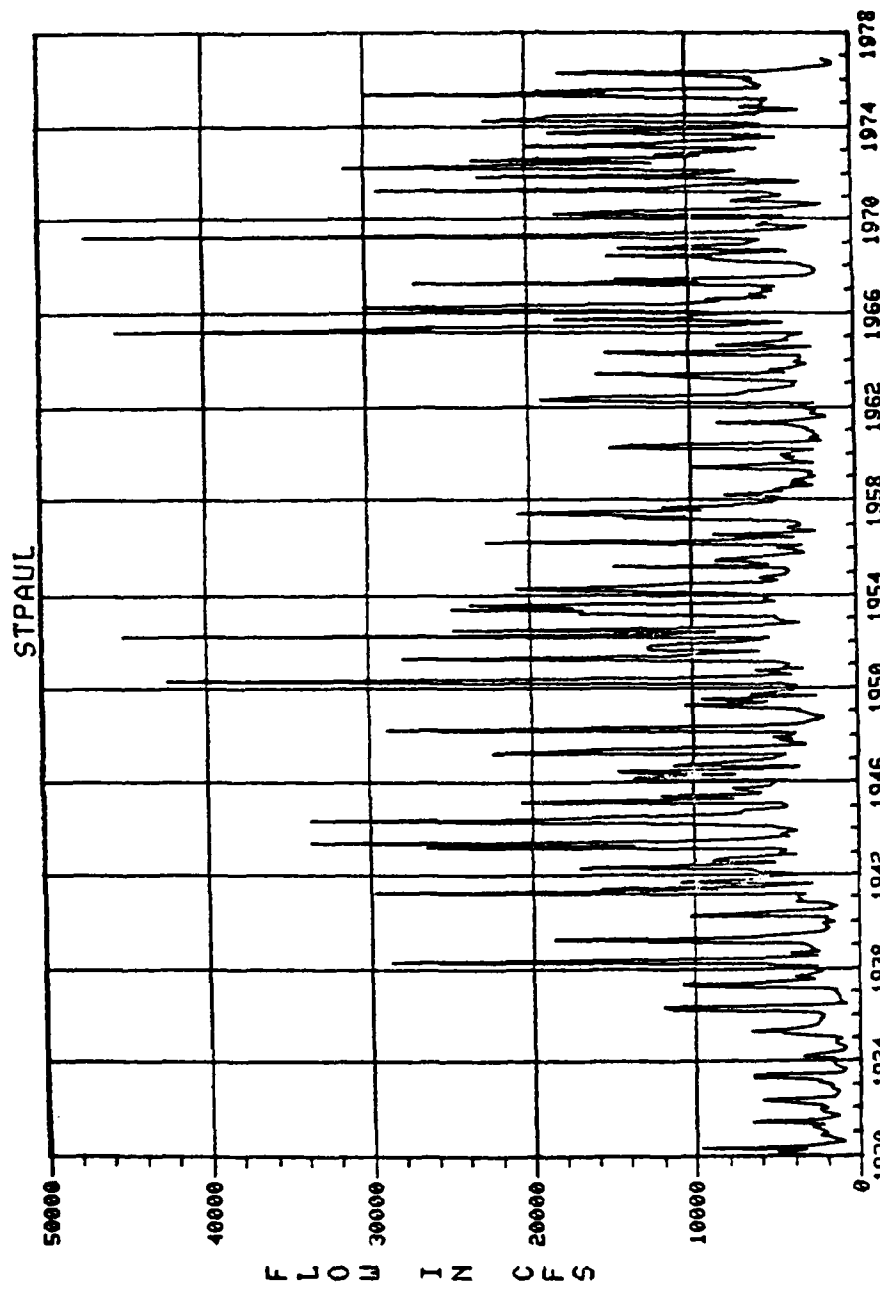


— GULL RES. PLANDR ELEU

STPAUL



— AITKIN PLANDR FLOW-REG



ANOKA PLANG FLOW-REG

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1298.3	* 1	* 1950	* 1301.9	* 2.08	*
* 5	* -1	* 1931	* 1296.9	* 2	* 1966	* 1300.0	* 4.17	*
* 6	* -1	* 1932	* 1298.0	* 3	* 1943	* 1300.0	* 6.25	*
* 6	* -1	* 1933	* 1298.1	* 4	* 1975	* 1299.7	* 8.33	*
* 5	* -1	* 1934	* 1296.7	* 5	* 1944	* 1299.7	* 10.42	*
* 8	* -1	* 1935	* 1296.9	* 6	* 1953	* 1299.3	* 12.50	*
* 6	* -1	* 1936	* 1298.2	* 7	* 1938	* 1299.2	* 14.58	*
* 7	* -1	* 1937	* 1298.4	* 8	* 1945	* 1299.1	* 16.67	*
* 5	* -1	* 1938	* 1299.2	* 9	* 1965	* 1299.1	* 18.75	*
* 6	* -1	* 1939	* 1297.7	* 10	* 1954	* 1299.0	* 20.83	*
* 7	* -1	* 1940	* 1298.4	* 11	* 1974	* 1298.9	* 22.92	*
* 5	* -1	* 1941	* 1298.4	* 12	* 1969	* 1298.9	* 25.00	*
* 6	* -1	* 1942	* 1298.4	* 13	* 1952	* 1298.8	* 27.08	*
* 6	* -1	* 1943	* 1300.0	* 14	* 1962	* 1298.7	* 29.17	*
* 8	* -1	* 1944	* 1299.7	* 15	* 1967	* 1298.7	* 31.25	*
* 6	* -1	* 1945	* 1299.1	* 16	* 1972	* 1298.7	* 33.33	*
* 6	* -1	* 1946	* 1298.6	* 17	* 1947	* 1298.6	* 35.42	*
* 6	* -1	* 1947	* 1298.6	* 18	* 1951	* 1298.6	* 37.50	*
* 5	* -1	* 1948	* 1298.4	* 19	* 1946	* 1298.6	* 39.58	*
* 8	* -1	* 1949	* 1298.5	* 20	* 1949	* 1298.5	* 41.67	*
* 6	* -1	* 1950	* 1301.9	* 21	* 1970	* 1298.5	* 43.75	*
* 6	* -1	* 1951	* 1298.6	* 22	* 1957	* 1298.5	* 45.83	*
* 8	* -1	* 1952	* 1298.8	* 23	* 1942	* 1298.4	* 47.92	*
* 8	* -1	* 1953	* 1299.3	* 24	* 1955	* 1298.4	* 50.00	*
* 7	* -1	* 1954	* 1299.0	* 25	* 1948	* 1298.4	* 52.08	*
* 7	* -1	* 1955	* 1298.4	* 26	* 1963	* 1298.4	* 54.17	*
* 6	* -1	* 1956	* 1298.2	* 27	* 1964	* 1298.4	* 56.25	*
* 7	* -1	* 1957	* 1298.5	* 28	* 1968	* 1298.4	* 58.33	*
* 7	* -1	* 1958	* 1297.1	* 29	* 1941	* 1298.4	* 60.42	*
* 9	* -1	* 1959	* 1298.2	* 30	* 1971	* 1298.4	* 62.50	*
* 7	* -1	* 1960	* 1298.0	* 31	* 1937	* 1298.4	* 64.58	*
* 6	* -1	* 1961	* 1297.8	* 32	* 1940	* 1298.4	* 66.67	*
* 7	* -1	* 1962	* 1298.7	* 33	* 1930	* 1298.3	* 68.75	*
* 7	* -1	* 1963	* 1298.4	* 34	* 1956	* 1298.2	* 70.83	*
* 7	* -1	* 1964	* 1298.4	* 35	* 1936	* 1298.2	* 72.92	*
* 6	* -1	* 1965	* 1299.1	* 36	* 1973	* 1298.2	* 75.00	*
* 6	* -1	* 1966	* 1300.0	* 37	* 1959	* 1298.2	* 77.08	*
* 6	* -1	* 1967	* 1298.7	* 38	* 1933	* 1298.1	* 79.17	*
* 6	* -1	* 1968	* 1298.4	* 39	* 1960	* 1298.0	* 81.25	*

* 5	* -1	* 1969	* 1298.9	* 40	* 1932	* 1298.0	* 83.33	*
* 6	* -1	* 1970	* 1298.5	* 41	* 1976	* 1297.8	* 85.42	*
* 5	* -1	* 1971	* 1298.4	* 42	* 1961	* 1297.8	* 87.50	*
* 6	* -1	* 1972	* 1298.7	* 43	* 1939	* 1297.7	* 89.58	*
* 9	* -1	* 1973	* 1298.2	* 44	* 1958	* 1297.1	* 91.67	*
* 6	* -1	* 1974	* 1298.9	* 45	* 1931	* 1296.9	* 93.75	*
* 7	* -1	* 1975	* 1299.7	* 46	* 1935	* 1296.9	* 95.83	*
* 5	* -1	* 1976	* 1297.8	* 47	* 1934	* 1296.7	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- WINNI RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

MON	DAY	YEAR	ELEV,FT.	RANK	WATER YEAR	ELEV,FT.	WEIRULL PLOT POS		
*	9	-1	1930	*	1	1935	1295.7	2.08	*
*	9	-1	1931	*	2	1934	1295.8	4.17	*
*	9	-1	1932	*	3	1931	1296.2	6.25	*
*	9	-1	1933	*	4	1939	1296.6	8.33	*
*	9	-1	1934	*	5	1930	1296.7	10.42	*
*	5	-1	1935	*	6	1933	1296.9	12.50	*
*	9	-1	1936	*	7	1958	1297.0	14.58	*
*	5	-1	1937	*	8	1936	1297.0	16.67	*
*	9	-1	1938	*	9	1932	1297.1	18.75	*
*	9	-1	1939	*	10	1976	1297.2	20.83	*
*	5	-1	1940	*	11	1959	1297.2	22.92	*
*	9	-1	1941	*	12	1938	1297.3	25.00	*
*	5	-1	1942	*	13	1961	1297.3	27.08	*
*	5	-1	1943	*	14	1960	1297.6	29.17	*
*	5	-1	1944	*	15	1940	1297.6	31.25	*
*	5	-1	1945	*	16	1949	1297.6	33.33	*

*	9	-1	1946	*	17	1973	1297.6	35.42	*
*	5	-1	1947	*	18	1970	1297.8	37.50	*
*	7	-1	1948	*	19	1937	1297.8	39.58	*
*	5	-1	1949	*	20	1963	1297.8	41.67	*
*	9	-1	1950	*	21	1964	1297.8	43.75	*
*	5	-1	1951	*	22	1967	1297.9	45.83	*
*	9	-1	1952	*	23	1941	1297.9	47.92	*
*	5	-1	1953	*	24	1955	1297.9	50.00	*
*	9	-1	1954	*	25	1953	1297.9	52.08	*
*	9	-1	1955	*	26	1957	1297.9	54.17	*
*	5	-1	1956	*	27	1944	1297.9	56.25	*
*	5	-1	1957	*	28	1968	1298.0	58.33	*
*	5	-1	1958	*	29	1942	1298.0	60.42	*
*	5	-1	1959	*	30	1962	1298.0	62.50	*
*	5	-1	1960	*	31	1946	1298.0	64.58	*
*	9	-1	1961	*	32	1956	1298.1	66.67	*
*	5	-1	1962	*	33	1971	1298.1	68.75	*
*	5	-1	1963	*	34	1951	1298.1	70.83	*
*	5	-1	1964	*	35	1948	1298.2	72.92	*
*	9	-1	1965	*	36	1965	1298.2	75.00	*
*	9	-1	1966	*	37	1947	1298.2	77.08	*
*	9	-1	1967	*	38	1943	1298.3	79.17	*
*	5	-1	1968	*	39	1954	1298.4	81.25	*
*	9	-1	1969	*	40	1952	1298.4	83.33	*
*	9	-1	1970	*	41	1972	1298.4	85.42	*
*	9	-1	1971	*	42	1945	1298.4	87.50	*
*	9	-1	1972	*	43	1974	1298.5	89.58	*
*	5	-1	1973	*	44	1969	1298.5	91.67	*
*	5	-1	1974	*	45	1966	1299.0	93.75	*
*	5	-1	1975	*	46	1975	1299.1	95.83	*
*	9	-1	1976	*	47	1950	1299.4	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

*****EVENTS ANALYZED.....ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1294.1	* 1	* 1950	* 1295.8	* 2.08	*
* 7	* -1	* 1931	* 1293.6	* 2	* 1975	* 1295.3	* 4.17	*
* 6	* -1	* 1932	* 1293.9	* 3	* 1943	* 1295.2	* 6.25	*
* 6	* -1	* 1933	* 1294.0	* 4	* 1966	* 1295.2	* 8.33	*
* 5	* -1	* 1934	* 1293.5	* 5	* 1944	* 1295.1	* 10.42	*
* 8	* -1	* 1935	* 1294.2	* 6	* 1965	* 1295.1	* 12.50	*
* 5	* -1	* 1936	* 1293.8	* 7	* 1954	* 1294.8	* 14.58	*
* 8	* -1	* 1937	* 1294.2	* 8	* 1969	* 1294.8	* 16.67	*
* 5	* -1	* 1938	* 1294.7	* 9	* 1974	* 1294.8	* 18.75	*
* 6	* -1	* 1939	* 1294.0	* 10	* 1953	* 1294.7	* 20.83	*
* 6	* -1	* 1940	* 1294.2	* 11	* 1938	* 1294.7	* 22.92	*
* 9	* -1	* 1941	* 1294.4	* 12	* 1962	* 1294.7	* 25.00	*
* 9	* -1	* 1942	* 1294.5	* 13	* 1952	* 1294.7	* 27.08	*
* 6	* -1	* 1943	* 1295.2	* 14	* 1951	* 1294.6	* 29.17	*
* 9	* -1	* 1944	* 1295.1	* 15	* 1947	* 1294.6	* 31.25	*
* 5	* -1	* 1945	* 1294.5	* 16	* 1972	* 1294.6	* 33.33	*
* 7	* -1	* 1946	* 1294.5	* 17	* 1970	* 1294.5	* 35.42	*
* 6	* -1	* 1947	* 1294.6	* 18	* 1945	* 1294.5	* 37.50	*
* 5	* -1	* 1948	* 1294.5	* 19	* 1955	* 1294.5	* 39.58	*
* 8	* -1	* 1949	* 1294.5	* 20	* 1957	* 1294.5	* 41.67	*
* 6	* -1	* 1950	* 1295.8	* 21	* 1967	* 1294.5	* 43.75	*
* 6	* -1	* 1951	* 1294.6	* 22	* 1946	* 1294.5	* 45.83	*
* 8	* -1	* 1952	* 1294.7	* 23	* 1971	* 1294.5	* 47.92	*
* 8	* -1	* 1953	* 1294.7	* 24	* 1960	* 1294.5	* 50.00	*
* 7	* -1	* 1954	* 1294.8	* 25	* 1942	* 1294.5	* 52.08	*
* 7	* -1	* 1955	* 1294.5	* 26	* 1948	* 1294.5	* 54.17	*
* 6	* -1	* 1956	* 1294.1	* 27	* 1968	* 1294.5	* 56.25	*
* 7	* -1	* 1957	* 1294.5	* 28	* 1949	* 1294.5	* 58.33	*
* 7	* -1	* 1958	* 1293.5	* 29	* 1941	* 1294.4	* 60.42	*
* 9	* -1	* 1959	* 1294.4	* 30	* 1959	* 1294.4	* 62.50	*
* 6	* -1	* 1960	* 1294.5	* 31	* 1964	* 1294.4	* 64.58	*
* 9	* -1	* 1961	* 1294.0	* 32	* 1963	* 1294.4	* 66.67	*
* 6	* -1	* 1962	* 1294.7	* 33	* 1973	* 1294.3	* 68.75	*
* 7	* -1	* 1963	* 1294.4	* 34	* 1935	* 1294.2	* 70.83	*
* 7	* -1	* 1964	* 1294.4	* 35	* 1937	* 1294.2	* 72.92	*
* 6	* -1	* 1965	* 1295.1	* 36	* 1940	* 1294.2	* 75.00	*
* 5	* -1	* 1966	* 1295.2	* 37	* 1930	* 1294.1	* 77.08	*
* 5	* -1	* 1967	* 1294.5	* 38	* 1956	* 1294.1	* 79.17	*
* 7	* -1	* 1968	* 1294.5	* 39	* 1939	* 1294.0	* 81.25	*
* 5	* -1	* 1969	* 1294.8	* 40	* 1961	* 1294.0	* 83.33	*
* 6	* -1	* 1970	* 1294.5	* 41	* 1933	* 1294.0	* 85.42	*
* 7	* -1	* 1971	* 1294.5	* 42	* 1932	* 1293.9	* 87.50	*

* 6	* -1	* 1972	* 1294.6	* 43	* 1976	* 1293.8	* 89.58	*
* 9	* -1	* 1973	* 1294.3	* 44	* 1936	* 1293.8	* 91.67	*
* 6	* -1	* 1974	* 1294.8	* 45	* 1931	* 1293.6	* 93.75	*
* 7	* -1	* 1975	* 1295.3	* 46	* 1958	* 1293.5	* 95.83	*
* 7	* -1	* 1976	* 1293.8	* 47	* 1934	* 1293.5	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- LEECH RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV, FT.	* RANK	* WATER YEAR	* ELEV, FT.	* WEIBULL PLOT POS	*	
*	9	-1	1930	*	1	1936	1292.8	2.08	*
*	9	-1	1931	*	2	1934	1292.9	4.17	*
*	9	-1	1932	*	3	1933	1293.0	6.25	*
*	9	-1	1933	*	4	1930	1293.1	8.33	*
*	9	-1	1934	*	5	1976	1293.2	10.42	*
*	5	-1	1935	*	6	1958	1293.3	12.50	*
*	9	-1	1936	*	7	1931	1293.4	14.58	*
*	5	-1	1937	*	8	1932	1293.4	16.67	*
*	9	-1	1938	*	9	1935	1293.5	18.75	*
*	9	-1	1939	*	10	1949	1293.5	20.83	*
*	9	-1	1940	*	11	1959	1293.6	22.92	*
*	8	-1	1941	*	12	1939	1293.6	25.00	*
*	5	-1	1942	*	13	1970	1293.7	27.08	*
*	5	-1	1943	*	14	1973	1293.8	29.17	*
*	5	-1	1944	*	15	1961	1293.8	31.25	*
*	8	-1	1945	*	16	1940	1293.8	33.33	*
*	5	-1	1946	*	17	1937	1293.8	35.42	*
*	9	-1	1947	*	18	1963	1293.8	37.50	*
*	9	-1	1948	*	19	1967	1293.9	39.58	*

*	5	-1	1949	*	20	1942	1293.9	41.67	*
*	9	-1	1950	*	21	1956	1293.9	43.75	*
*	5	-1	1951	*	22	1948	1294.0	45.83	*
*	5	-1	1952	*	23	1955	1294.0	47.92	*
*	5	-1	1953	*	24	1944	1294.0	50.00	*
*	9	-1	1954	*	25	1938	1294.0	52.08	*
*	9	-1	1955	*	26	1968	1294.0	54.17	*
*	9	-1	1956	*	27	1964	1294.1	56.25	*
*	5	-1	1957	*	28	1960	1294.1	58.33	*
*	9	-1	1958	*	29	1946	1294.1	60.42	*
*	5	-1	1959	*	30	1957	1294.1	62.50	*
*	9	-1	1960	*	31	1953	1294.2	64.58	*
*	8	-1	1961	*	32	1971	1294.3	66.67	*
*	5	-1	1962	*	33	1943	1294.3	68.75	*
*	5	-1	1963	*	34	1947	1294.3	70.83	*
*	5	-1	1964	*	35	1950	1294.3	72.92	*
*	8	-1	1965	*	36	1945	1294.3	75.00	*
*	8	-1	1966	*	37	1969	1294.3	77.08	*
*	9	-1	1967	*	38	1951	1294.3	79.17	*
*	5	-1	1968	*	39	1941	1294.3	81.25	*
*	9	-1	1969	*	40	1962	1294.4	83.33	*
*	9	-1	1970	*	41	1952	1294.4	85.42	*
*	9	-1	1971	*	42	1965	1294.4	87.50	*
*	5	-1	1972	*	43	1975	1294.4	89.58	*
*	5	-1	1973	*	44	1974	1294.4	91.67	*
*	9	-1	1974	*	45	1954	1294.4	93.75	*
*	9	-1	1975	*	46	1972	1294.5	95.83	*
*	9	-1	1976	*	47	1966	1294.7	97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	*
* 6	* -1	* 1930	* 1273.7	* 1	* 1950	* 1276.4	* 2.08	*
* 7	* -1	* 1931	* 1273.6	* 2	* 1953	* 1276.4	* 4.17	*
* 6	* -1	* 1932	* 1273.4	* 3	* 1965	* 1276.4	* 6.25	*
* 6	* -1	* 1933	* 1273.7	* 4	* 1966	* 1276.4	* 8.33	*
* 6	* -1	* 1934	* 1273.3	* 5	* 1969	* 1276.4	* 10.42	*
* 8	* -1	* 1935	* 1273.7	* 6	* 1975	* 1276.4	* 12.50	*
* 6	* -1	* 1936	* 1273.7	* 7	* 1938	* 1276.4	* 14.58	*
* 6	* -1	* 1937	* 1273.7	* 8	* 1971	* 1276.4	* 16.67	*
* 5	* -1	* 1938	* 1276.4	* 9	* 1948	* 1276.3	* 18.75	*
* 9	* -1	* 1939	* 1273.3	* 10	* 1972	* 1275.9	* 20.83	*
* 6	* -1	* 1940	* 1273.7	* 11	* 1954	* 1275.8	* 22.92	*
* 5	* -1	* 1941	* 1273.7	* 12	* 1943	* 1275.6	* 25.00	*
* 6	* -1	* 1942	* 1273.7	* 13	* 1944	* 1275.6	* 27.08	*
* 6	* -1	* 1943	* 1275.6	* 14	* 1952	* 1275.4	* 29.17	*
* 6	* -1	* 1944	* 1275.6	* 15	* 1974	* 1274.5	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1945	* 1273.7	* 33.33	*
* 6	* -1	* 1946	* 1273.7	* 17	* 1946	* 1273.7	* 35.42	*
* 6	* -1	* 1947	* 1273.7	* 18	* 1947	* 1273.7	* 37.50	*
* 5	* -1	* 1948	* 1276.3	* 19	* 1949	* 1273.7	* 39.58	*
* 7	* -1	* 1949	* 1273.7	* 20	* 1930	* 1273.7	* 41.67	*
* 5	* -1	* 1950	* 1276.4	* 21	* 1951	* 1273.7	* 43.75	*
* 6	* -1	* 1951	* 1273.7	* 22	* 1941	* 1273.7	* 45.83	*
* 8	* -1	* 1952	* 1275.4	* 23	* 1940	* 1273.7	* 47.92	*
* 8	* -1	* 1953	* 1276.4	* 24	* 1955	* 1273.7	* 50.00	*
* 5	* -1	* 1954	* 1275.8	* 25	* 1956	* 1273.7	* 52.08	*
* 6	* -1	* 1955	* 1273.7	* 26	* 1957	* 1273.7	* 54.17	*
* 5	* -1	* 1956	* 1273.7	* 27	* 1959	* 1273.7	* 56.25	*
* 7	* -1	* 1957	* 1273.7	* 28	* 1960	* 1273.7	* 58.33	*
* 7	* -1	* 1958	* 1273.6	* 29	* 1962	* 1273.7	* 60.42	*
* 7	* -1	* 1959	* 1273.7	* 30	* 1963	* 1273.7	* 62.50	*
* 6	* -1	* 1960	* 1273.7	* 31	* 1964	* 1273.7	* 64.58	*
* 6	* -1	* 1961	* 1273.6	* 32	* 1933	* 1273.7	* 66.67	*
* 6	* -1	* 1962	* 1273.7	* 33	* 1967	* 1273.7	* 68.75	*
* 6	* -1	* 1963	* 1273.7	* 34	* 1968	* 1273.7	* 70.83	*
* 6	* -1	* 1964	* 1273.7	* 35	* 1970	* 1273.7	* 72.92	*
* 5	* -1	* 1965	* 1276.4	* 36	* 1937	* 1273.7	* 75.00	*
* 5	* -1	* 1966	* 1276.4	* 37	* 1942	* 1273.7	* 77.08	*
* 5	* -1	* 1967	* 1273.7	* 38	* 1935	* 1273.7	* 79.17	*
* 7	* -1	* 1968	* 1273.7	* 39	* 1936	* 1273.7	* 81.25	*
* 5	* -1	* 1969	* 1276.4	* 40	* 1931	* 1273.6	* 83.33	*
* 5	* -1	* 1970	* 1273.7	* 41	* 1961	* 1273.6	* 85.42	*
* 5	* -1	* 1971	* 1276.4	* 42	* 1958	* 1273.6	* 87.50	*
* 5	* -1	* 1972	* 1275.9	* 43	* 1973	* 1273.4	* 89.58	*
* 7	* -1	* 1973	* 1273.4	* 44	* 1932	* 1273.4	* 91.67	*

* 5	* -1	* 1974	* 1274.5	* 45	* 1976	* 1273.4	* 93.75	*
* 5	* -1	* 1975	* 1276.4	* 46	* 1934	* 1273.3	* 95.83	*
* 7	* -1	* 1976	* 1273.4	* 47	* 1939	* 1273.3	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- POKEGAMA RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT FOS	*
* 8	* -1	* 1930	* 1272.6	* 1	* 1934	* 1270.8	* 2.08	*
* 5	* -1	* 1931	* 1272.2	* 2	* 1938	* 1271.8	* 4.17	*
* 5	* -1	* 1932	* 1272.6	* 3	* 1958	* 1271.9	* 6.25	*
* 8	* -1	* 1933	* 1272.2	* 4	* 1939	* 1271.9	* 8.33	*
* 9	* -1	* 1934	* 1270.8	* 5	* 1976	* 1272.0	* 10.42	*
* 5	* -1	* 1935	* 1272.1	* 6	* 1935	* 1272.1	* 12.50	*
* 5	* -1	* 1936	* 1272.8	* 7	* 1931	* 1272.2	* 14.58	*
* 5	* -1	* 1937	* 1272.8	* 8	* 1965	* 1272.2	* 16.67	*
* 8	* -1	* 1938	* 1271.8	* 9	* 1959	* 1272.2	* 18.75	*
* 5	* -1	* 1939	* 1271.9	* 10	* 1933	* 1272.2	* 20.83	*
* 5	* -1	* 1940	* 1272.8	* 11	* 1973	* 1272.3	* 22.92	*
* 6	* -1	* 1941	* 1273.1	* 12	* 1949	* 1272.5	* 25.00	*
* 5	* -1	* 1942	* 1272.8	* 13	* 1968	* 1272.6	* 27.08	*
* 5	* -1	* 1943	* 1272.8	* 14	* 1932	* 1272.6	* 29.17	*
* 5	* -1	* 1944	* 1272.8	* 15	* 1930	* 1272.6	* 31.25	*
* 5	* -1	* 1945	* 1273.7	* 16	* 1957	* 1272.8	* 33.33	*
* 5	* -1	* 1946	* 1272.8	* 17	* 1946	* 1272.8	* 35.42	*
* 5	* -1	* 1947	* 1273.0	* 18	* 1951	* 1272.8	* 37.50	*
* 8	* -1	* 1948	* 1273.5	* 19	* 1953	* 1272.8	* 39.58	*
* 5	* -1	* 1949	* 1272.5	* 20	* 1955	* 1272.8	* 41.67	*
* 7	* -1	* 1950	* 1273.7	* 21	* 1943	* 1272.8	* 43.75	*

* 5	* -1	* 1951	* 1272.8	* 22	* 1936	* 1272.8	* 45.83	*
* 6	* -1	* 1952	* 1273.7	* 23	* 1960	* 1272.8	* 47.92	*
* 5	* -1	* 1953	* 1272.8	* 24	* 1961	* 1272.8	* 50.00	*
* 6	* -1	* 1954	* 1273.7	* 25	* 1962	* 1272.8	* 52.08	*
* 5	* -1	* 1955	* 1272.8	* 26	* 1963	* 1272.8	* 54.17	*
* 9	* -1	* 1956	* 1273.7	* 27	* 1964	* 1272.8	* 56.25	*
* 5	* -1	* 1957	* 1272.8	* 28	* 1937	* 1272.8	* 58.33	*
* 5	* -1	* 1958	* 1271.9	* 29	* 1942	* 1272.8	* 60.42	*
* 5	* -1	* 1959	* 1272.2	* 30	* 1940	* 1272.8	* 62.50	*
* 5	* -1	* 1960	* 1272.8	* 31	* 1944	* 1272.8	* 64.58	*
* 5	* -1	* 1961	* 1272.8	* 32	* 1967	* 1272.9	* 66.67	*
* 5	* -1	* 1962	* 1272.8	* 33	* 1947	* 1273.0	* 68.75	*
* 5	* -1	* 1963	* 1272.8	* 34	* 1970	* 1273.0	* 70.83	*
* 5	* -1	* 1964	* 1272.8	* 35	* 1941	* 1273.1	* 72.92	*
* 8	* -1	* 1965	* 1272.2	* 36	* 1971	* 1273.2	* 75.00	*
* 7	* -1	* 1966	* 1273.7	* 37	* 1948	* 1273.5	* 77.08	*
* 9	* -1	* 1967	* 1272.9	* 38	* 1956	* 1273.7	* 79.17	*
* 5	* -1	* 1968	* 1272.6	* 39	* 1950	* 1273.7	* 81.25	*
* 6	* -1	* 1969	* 1273.7	* 40	* 1969	* 1273.7	* 83.33	*
* 9	* -1	* 1970	* 1273.0	* 41	* 1966	* 1273.7	* 85.42	*
* 9	* -1	* 1971	* 1273.2	* 42	* 1945	* 1273.7	* 87.50	*
* 6	* -1	* 1972	* 1273.7	* 43	* 1972	* 1273.7	* 89.58	*
* 5	* -1	* 1973	* 1272.3	* 44	* 1954	* 1273.7	* 91.67	*
* 7	* -1	* 1974	* 1273.7	* 45	* 1974	* 1273.7	* 93.75	*
* 7	* -1	* 1975	* 1273.7	* 46	* 1975	* 1273.7	* 95.83	*
* 5	* -1	* 1976	* 1272.0	* 47	* 1952	* 1273.7	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTING POSITIONS- SANDY RESERVOIR ELEVATION

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 6	* -1	* 1930	* 1216.6	* 1	* 1938	* 1218.3	* 2.08	*
* 7	* -1	* 1931	* 1216.6	* 2	* 1943	* 1218.3	* 4.17	*
* 6	* -1	* 1932	* 1216.6	* 3	* 1944	* 1218.3	* 6.25	*
* 6	* -1	* 1933	* 1216.5	* 4	* 1948	* 1218.3	* 8.33	*
* 6	* -1	* 1934	* 1216.6	* 5	* 1950	* 1218.3	* 10.42	*
* 6	* -1	* 1935	* 1216.6	* 6	* 1952	* 1218.3	* 12.50	*
* 6	* -1	* 1936	* 1216.6	* 7	* 1953	* 1218.3	* 14.58	*
* 6	* -1	* 1937	* 1216.6	* 8	* 1954	* 1218.3	* 16.67	*
* 5	* -1	* 1938	* 1218.3	* 9	* 1956	* 1218.3	* 18.75	*
* 6	* -1	* 1939	* 1216.6	* 10	* 1965	* 1218.3	* 20.83	*
* 6	* -1	* 1940	* 1216.6	* 11	* 1966	* 1218.3	* 22.92	*
* 5	* -1	* 1941	* 1218.1	* 12	* 1969	* 1218.3	* 25.00	*
* 6	* -1	* 1942	* 1216.6	* 13	* 1972	* 1218.3	* 27.08	*
* 6	* -1	* 1943	* 1218.3	* 14	* 1974	* 1218.3	* 29.17	*
* 6	* -1	* 1944	* 1218.3	* 15	* 1975	* 1218.3	* 31.25	*
* 5	* -1	* 1945	* 1216.6	* 16	* 1971	* 1218.2	* 33.33	*
* 6	* -1	* 1946	* 1216.6	* 17	* 1941	* 1218.1	* 35.42	*
* 6	* -1	* 1947	* 1216.6	* 18	* 1970	* 1217.6	* 37.50	*
* 5	* -1	* 1948	* 1218.3	* 19	* 1967	* 1217.5	* 39.58	*
* 6	* -1	* 1949	* 1216.6	* 20	* 1951	* 1216.8	* 41.67	*
* 5	* -1	* 1950	* 1218.3	* 21	* 1945	* 1216.6	* 43.75	*
* 9	* -1	* 1951	* 1216.8	* 22	* 1949	* 1216.6	* 45.83	*
* 7	* -1	* 1952	* 1218.3	* 23	* 1935	* 1216.6	* 47.92	*
* 8	* -1	* 1953	* 1218.3	* 24	* 1936	* 1216.6	* 50.00	*
* 5	* -1	* 1954	* 1218.3	* 25	* 1937	* 1216.6	* 52.08	*
* 6	* -1	* 1955	* 1216.6	* 26	* 1955	* 1216.6	* 54.17	*
* 5	* -1	* 1956	* 1218.3	* 27	* 1930	* 1216.6	* 56.25	*
* 6	* -1	* 1957	* 1216.6	* 28	* 1957	* 1216.6	* 58.33	*
* 8	* -1	* 1958	* 1216.6	* 29	* 1958	* 1216.6	* 60.42	*
* 6	* -1	* 1959	* 1216.6	* 30	* 1959	* 1216.6	* 62.50	*
* 6	* -1	* 1960	* 1216.6	* 31	* 1960	* 1216.6	* 64.58	*
* 6	* -1	* 1961	* 1216.5	* 32	* 1962	* 1216.6	* 66.67	*
* 6	* -1	* 1962	* 1216.6	* 33	* 1963	* 1216.6	* 68.75	*
* 6	* -1	* 1963	* 1216.6	* 34	* 1964	* 1216.6	* 70.83	*
* 6	* -1	* 1964	* 1216.6	* 35	* 1939	* 1216.6	* 72.92	*
* 5	* -1	* 1965	* 1218.3	* 36	* 1940	* 1216.6	* 75.00	*
* 5	* -1	* 1966	* 1218.3	* 37	* 1968	* 1216.6	* 77.08	*
* 5	* -1	* 1967	* 1217.5	* 38	* 1946	* 1216.6	* 79.17	*
* 6	* -1	* 1968	* 1216.6	* 39	* 1947	* 1216.6	* 81.25	*
* 5	* -1	* 1969	* 1218.3	* 40	* 1934	* 1216.6	* 83.33	*
* 5	* -1	* 1970	* 1217.6	* 41	* 1942	* 1216.6	* 85.42	*
* 5	* -1	* 1971	* 1218.2	* 42	* 1973	* 1216.6	* 87.50	*
* 5	* -1	* 1972	* 1218.3	* 43	* 1931	* 1216.6	* 89.58	*
* 6	* -1	* 1973	* 1216.6	* 44	* 1932	* 1216.6	* 91.67	*
* 5	* -1	* 1974	* 1218.3	* 45	* 1961	* 1216.5	* 93.75	*
* 5	* -1	* 1975	* 1218.3	* 46	* 1933	* 1216.5	* 95.83	*

* 7 -1 1976 1216.3 * 47 1976 1216.3 97.92 *

- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- SANDY RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	DAY	YEAR	ELEV,FT.	* RANK	YEAR	ELEV,FT.	WEIRULL	* PLOT POS *
* 9	-1	1930	1215.4	* 1	1931	1214.9	2.08	* *
* 5	-1	1931	1214.9	* 2	1958	1215.0	4.17	* *
* 9	-1	1932	1216.2	* 3	1930	1215.4	6.25	* *
* 5	-1	1933	1215.6	* 4	1976	1215.5	8.33	* *
* 9	-1	1934	1215.7	* 5	1936	1215.6	10.42	* *
* 5	-1	1935	1216.3	* 6	1933	1215.6	12.50	* *
* 9	-1	1936	1215.6	* 7	1970	1215.7	14.58	* *
* 9	-1	1937	1216.3	* 8	1934	1215.7	16.67	* *
* 9	-1	1938	1216.4	* 9	1959	1215.8	18.75	* *
* 5	-1	1939	1216.3	* 10	1961	1215.9	20.83	* *
* 9	-1	1940	1216.1	* 11	1947	1216.1	22.92	* *
* 6	-1	1941	1216.6	* 12	1940	1216.1	25.00	* *
* 5	-1	1942	1216.2	* 13	1942	1216.2	27.08	* *
* 5	-1	1943	1216.3	* 14	1967	1216.2	29.17	* *
* 5	-1	1944	1216.3	* 15	1950	1216.2	31.25	* *
* 6	-1	1945	1216.6	* 16	1932	1216.2	33.33	* *
* 5	-1	1946	1216.3	* 17	1937	1216.3	35.42	* *
* 9	-1	1947	1216.1	* 18	1949	1216.3	37.50	* *
* 9	-1	1948	1216.4	* 19	1944	1216.3	39.58	* *
* 5	-1	1949	1216.3	* 20	1951	1216.3	41.67	* *
* 9	-1	1950	1216.2	* 21	1953	1216.3	43.75	* *
* 5	-1	1951	1216.3	* 22	1955	1216.3	45.83	* *
* 6	-1	1952	1216.6	* 23	1957	1216.3	47.92	* *

* 5	-1	1953	1216.3	* 24	1960	1216.3	50.00	* *
* 6	-1	1954	1216.6	* 25	1939	1216.3	52.08	* *
* 5	-1	1955	1216.3	* 26	1962	1216.3	54.17	* *
* 9	-1	1956	1216.5	* 27	1963	1216.3	56.25	* *
* 5	-1	1957	1216.3	* 28	1964	1216.3	58.33	* *
* 5	-1	1958	1215.0	* 29	1943	1216.3	60.42	* *
* 5	-1	1959	1215.8	* 30	1968	1216.3	62.50	* *
* 5	-1	1960	1216.3	* 31	1946	1216.3	64.58	* *
* 9	-1	1961	1215.9	* 32	1973	1216.3	66.67	* *
* 5	-1	1962	1216.3	* 33	1935	1216.3	68.75	* *
* 5	-1	1963	1216.3	* 34	1969	1216.4	70.83	* *
* 5	-1	1964	1216.3	* 35	1948	1216.4	72.92	* *
* 8	-1	1965	1216.6	* 36	1938	1216.4	75.00	* *
* 7	-1	1966	1216.6	* 37	1975	1216.4	77.08	* *
* 9	-1	1967	1216.2	* 38	1971	1216.5	79.17	* *
* 5	-1	1968	1216.3	* 39	1956	1216.5	81.25	* *
* 9	-1	1969	1216.4	* 40	1965	1216.6	83.33	* *
* 9	-1	1970	1215.7	* 41	1952	1216.6	85.42	* *
* 9	-1	1971	1216.5	* 42	1945	1216.6	87.50	* *
* 7	-1	1972	1216.6	* 43	1972	1216.6	89.58	* *
* 5	-1	1973	1216.3	* 44	1954	1216.6	91.67	* *
* 7	-1	1974	1216.6	* 45	1974	1216.6	93.75	* *
* 9	-1	1975	1216.4	* 46	1966	1216.6	95.83	* *
* 9	-1	1976	1215.5	* 47	1941	1216.6	97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- FINE RESERVOIR ELEVATION

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR ELEV,FT. * RANK YEAR ELEV,FT. WEIRULL *
* * * * * * * * * * * * * * * * * * * * * * *
* 6 -1 1930 1229.6 * 1 1950 1230.4 2.08 *
* 7 -1 1931 1229.6 * 2 1965 1230.0 4.17 *
* 6 -1 1932 1229.2 * 3 1943 1229.9 6.25 *
* 6 -1 1933 1229.6 * 4 1944 1229.6 8.33 *
* 6 -1 1934 1228.3 * 5 1966 1229.6 10.42 *
* 7 -1 1935 1229.6 * 6 1938 1229.6 12.50 *
* 6 -1 1936 1229.6 * 7 1945 1229.6 14.58 *
* 7 -1 1937 1229.6 * 8 1937 1229.6 16.67 *
* 5 -1 1938 1229.6 * 9 1935 1229.6 18.75 *
* 7 -1 1939 1229.5 * 10 1941 1229.6 20.83 *
* 6 -1 1940 1229.5 * 11 1942 1229.6 22.92 *
* 5 -1 1941 1229.6 * 12 1933 1229.6 25.00 *
* 6 -1 1942 1229.6 * 13 1946 1229.6 27.08 *
* 6 -1 1943 1229.9 * 14 1947 1229.6 29.17 *
* 6 -1 1944 1229.6 * 15 1948 1229.6 31.25 *
* 5 -1 1945 1229.6 * 16 1949 1229.6 33.33 *
* 7 -1 1946 1229.6 * 17 1930 1229.6 35.42 *
* 6 -1 1947 1229.6 * 18 1951 1229.6 37.50 *
* 5 -1 1948 1229.6 * 19 1952 1229.6 39.58 *
* 7 -1 1949 1229.6 * 20 1953 1229.6 41.67 *
* 5 -1 1950 1230.4 * 21 1954 1229.6 43.75 *
* 6 -1 1951 1229.6 * 22 1955 1229.6 45.83 *
* 5 -1 1952 1229.6 * 23 1956 1229.6 47.92 *
* 6 -1 1953 1229.6 * 24 1957 1229.6 50.00 *
* 5 -1 1954 1229.6 * 25 1959 1229.6 52.08 *
* 7 -1 1955 1229.6 * 26 1960 1229.6 54.17 *
* 5 -1 1956 1229.6 * 27 1962 1229.6 56.25 *
* 7 -1 1957 1229.6 * 28 1963 1229.6 58.33 *
* 9 -1 1958 1228.9 * 29 1964 1229.6 60.42 *
* 7 -1 1959 1229.6 * 30 1931 1229.6 62.50 *
* 6 -1 1960 1229.6 * 31 1967 1229.6 64.58 *
* 8 -1 1961 1229.3 * 32 1968 1229.6 66.67 *
* 6 -1 1962 1229.6 * 33 1969 1229.6 68.75 *
* 7 -1 1963 1229.6 * 34 1970 1229.6 70.83 *
* 6 -1 1964 1229.6 * 35 1971 1229.6 72.92 *
* 6 -1 1965 1230.0 * 36 1972 1229.6 75.00 *
* 5 -1 1966 1229.6 * 37 1973 1229.6 77.08 *
* 5 -1 1967 1229.6 * 38 1974 1229.6 79.17 *
* 6 -1 1968 1229.6 * 39 1975 1229.6 81.25 *
* 5 -1 1969 1229.6 * 40 1936 1229.6 83.33 *
* 5 -1 1970 1229.6 * 41 1940 1229.5 85.42 *
* 5 -1 1971 1229.6 * 42 1939 1229.5 87.50 *
* 5 -1 1972 1229.6 * 43 1961 1229.3 89.58 *
* 7 -1 1973 1229.6 * 44 1932 1229.2 91.67 *
* 5 -1 1974 1229.6 * 45 1958 1228.9 93.75 *
* 5 -1 1975 1229.6 * 46 1976 1228.8 95.83 *
* 7 -1 1976 1228.8 * 47 1934 1228.3 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- PINE RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIRULL PLOT POS	* *
* 5	* -1	* 1930	* 1228.9	* 1	* 1934	* 1227.6	* 2.08	* *
* 5	* -1	* 1931	* 1228.1	* 2	* 1976	* 1227.9	* 4.17	* *
* 5	* -1	* 1932	* 1228.6	* 3	* 1958	* 1228.0	* 6.25	* *
* 5	* -1	* 1933	* 1228.7	* 4	* 1931	* 1228.1	* 8.33	* *
* 9	* -1	* 1934	* 1227.6	* 5	* 1959	* 1228.6	* 10.42	* *
* 5	* -1	* 1935	* 1228.8	* 6	* 1932	* 1228.6	* 12.50	* *
* 9	* -1	* 1936	* 1228.7	* 7	* 1955	* 1228.6	* 14.58	* *
* 5	* -1	* 1937	* 1228.9	* 8	* 1936	* 1228.7	* 16.67	* *
* 8	* -1	* 1938	* 1229.5	* 9	* 1939	* 1228.7	* 18.75	* *
* 5	* -1	* 1939	* 1228.7	* 10	* 1933	* 1228.7	* 20.83	* *
* 5	* -1	* 1940	* 1228.9	* 11	* 1961	* 1228.7	* 22.92	* *
* 5	* -1	* 1941	* 1229.6	* 12	* 1946	* 1228.8	* 25.00	* *
* 5	* -1	* 1942	* 1228.9	* 13	* 1935	* 1228.8	* 27.08	* *
* 5	* -1	* 1943	* 1228.9	* 14	* 1963	* 1228.8	* 29.17	* *
* 5	* -1	* 1944	* 1228.9	* 15	* 1930	* 1228.9	* 31.25	* *
* 6	* -1	* 1945	* 1229.6	* 16	* 1949	* 1228.9	* 33.33	* *
* 5	* -1	* 1946	* 1228.8	* 17	* 1937	* 1228.9	* 35.42	* *
* 5	* -1	* 1947	* 1228.9	* 18	* 1957	* 1228.9	* 37.50	* *
* 5	* -1	* 1948	* 1229.6	* 19	* 1940	* 1228.9	* 39.58	* *
* 5	* -1	* 1949	* 1228.9	* 20	* 1973	* 1228.9	* 41.67	* *
* 7	* -1	* 1950	* 1229.6	* 21	* 1951	* 1228.9	* 43.75	* *
* 5	* -1	* 1951	* 1228.9	* 22	* 1953	* 1228.9	* 45.83	* *
* 5	* -1	* 1952	* 1229.6	* 23	* 1947	* 1228.9	* 47.92	* *
* 5	* -1	* 1953	* 1228.9	* 24	* 1942	* 1228.9	* 50.00	* *
* 5	* -1	* 1954	* 1229.6	* 25	* 1944	* 1228.9	* 52.08	* *
* 5	* -1	* 1955	* 1228.6	* 26	* 1960	* 1228.9	* 54.17	* *

* 9	* -1	* 1956	* 1229.5	* 27	* 1962	* 1228.9	* 56.25	* *
* 5	* -1	* 1957	* 1228.9	* 28	* 1943	* 1228.9	* 58.33	* *
* 5	* -1	* 1958	* 1228.0	* 29	* 1964	* 1228.9	* 60.42	* *
* 5	* -1	* 1959	* 1228.6	* 30	* 1968	* 1228.9	* 62.50	* *
* 5	* -1	* 1960	* 1228.9	* 31	* 1970	* 1229.0	* 64.58	* *
* 5	* -1	* 1961	* 1228.7	* 32	* 1967	* 1229.4	* 66.67	* *
* 5	* -1	* 1962	* 1228.9	* 33	* 1969	* 1229.5	* 68.75	* *
* 5	* -1	* 1963	* 1228.8	* 34	* 1956	* 1229.5	* 70.83	* *
* 5	* -1	* 1964	* 1228.9	* 35	* 1938	* 1229.5	* 72.92	* *
* 5	* -1	* 1965	* 1229.6	* 36	* 1965	* 1229.6	* 75.00	* *
* 6	* -1	* 1966	* 1229.6	* 37	* 1966	* 1229.6	* 77.08	* *
* 9	* -1	* 1967	* 1229.4	* 38	* 1948	* 1229.6	* 79.17	* *
* 5	* -1	* 1968	* 1228.9	* 39	* 1954	* 1229.6	* 81.25	* *
* 8	* -1	* 1969	* 1229.5	* 40	* 1952	* 1229.6	* 83.33	* *
* 9	* -1	* 1970	* 1229.0	* 41	* 1941	* 1229.6	* 85.42	* *
* 5	* -1	* 1971	* 1229.6	* 42	* 1971	* 1229.6	* 87.50	* *
* 5	* -1	* 1972	* 1229.6	* 43	* 1972	* 1229.6	* 89.58	* *
* 5	* -1	* 1973	* 1228.9	* 44	* 1945	* 1229.6	* 91.67	* *
* 5	* -1	* 1974	* 1229.6	* 45	* 1974	* 1229.6	* 93.75	* *
* 5	* -1	* 1975	* 1229.6	* 46	* 1975	* 1229.6	* 95.83	* *
* 9	* -1	* 1976	* 1227.9	* 47	* 1950	* 1229.6	* 97.92	* *

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- GULL RESERVOIR ELEVATION

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*.....EVENTS ANALYZED.....*.....ORDERED EVENTS.....*
* MON DAY YEAR ELEV,FT. * RANK WATER YEAR ELEV,FT. WEIBULL *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* 6 -1 1930 1194.0 * 1 1950 1194.8 2.08 *
* 7 -1 1931 1193.9 * 2 1938 1194.5 4.17 *
* 6 -1 1932 1193.5 * 3 1944 1194.4 6.25 *
* 6 -1 1933 1194.0 * 4 1975 1194.3 8.33 *
* 5 -1 1934 1193.0 * 5 1965 1194.2 10.42 *
* 7 -1 1935 1194.0 * 6 1943 1194.1 12.50 *
* 6 -1 1936 1193.9 * 7 1952 1194.1 14.58 *
* 6 -1 1937 1194.0 * 8 1937 1194.0 16.67 *
* 5 -1 1938 1194.5 * 9 1941 1194.0 18.75 *
* 7 -1 1939 1193.9 * 10 1942 1194.0 20.83 *
* 6 -1 1940 1193.8 * 11 1935 1194.0 22.92 *
* 5 -1 1941 1194.0 * 12 1945 1194.0 25.00 *
* 6 -1 1942 1194.0 * 13 1946 1194.0 27.08 *
* 6 -1 1943 1194.1 * 14 1947 1194.0 29.17 *
* 6 -1 1944 1194.4 * 15 1948 1194.0 31.25 *
* 5 -1 1945 1194.0 * 16 1949 1194.0 33.33 *
* 7 -1 1946 1194.0 * 17 1951 1194.0 35.42 *
* 6 -1 1947 1194.0 * 18 1953 1194.0 37.50 *
* 5 -1 1948 1194.0 * 19 1954 1194.0 39.58 *
* 6 -1 1949 1194.0 * 20 1955 1194.0 41.67 *
* 5 -1 1950 1194.8 * 21 1956 1194.0 43.75 *
* 6 -1 1951 1194.0 * 22 1957 1194.0 45.83 *
* 7 -1 1952 1194.1 * 23 1958 1194.0 47.92 *
* 6 -1 1953 1194.0 * 24 1959 1194.0 50.00 *
* 5 -1 1954 1194.0 * 25 1960 1194.0 52.08 *
* 8 -1 1955 1194.0 * 26 1962 1194.0 54.17 *
* 5 -1 1956 1194.0 * 27 1963 1194.0 56.25 *
* 7 -1 1957 1194.0 * 28 1964 1194.0 58.33 *
* 8 -1 1958 1194.0 * 29 1966 1194.0 60.42 *
* 6 -1 1959 1194.0 * 30 1967 1194.0 62.50 *
* 6 -1 1960 1194.0 * 31 1968 1194.0 64.58 *
* 8 -1 1961 1193.6 * 32 1969 1194.0 66.67 *
* 6 -1 1962 1194.0 * 33 1970 1194.0 68.75 *
* 9 -1 1963 1194.0 * 34 1971 1194.0 70.83 *
* 9 -1 1964 1194.0 * 35 1972 1194.0 72.92 *
* 6 -1 1965 1194.2 * 36 1973 1194.0 75.00 *
* 5 -1 1966 1194.0 * 37 1974 1194.0 77.08 *
* 5 -1 1967 1194.0 * 38 1933 1194.0 79.17 *
* 7 -1 1968 1194.0 * 39 1930 1194.0 81.25 *
* 5 -1 1969 1194.0 * 40 1939 1193.9 83.33 *
* 5 -1 1970 1194.0 * 41 1931 1193.9 85.42 *
* 5 -1 1971 1194.0 * 42 1936 1193.9 87.50 *
* 5 -1 1972 1194.0 * 43 1940 1193.8 89.58 *
* 6 -1 1973 1194.0 * 44 1961 1193.6 91.67 *
* 5 -1 1974 1194.0 * 45 1932 1193.5 93.75 *
* 5 -1 1975 1194.3 * 46 1976 1193.5 95.83 *
* 7 -1 1976 1193.5 * 47 1934 1193.0 97.92 *
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- ANALYSIS OF MINIMUMS -

-PLOTING POSITIONS- GULL RESERVOIR ELEVATION

EVENTS ANALYZED..........ORDERED EVENTS.....*

* MON	* DAY	* YEAR	* ELEV,FT.	* RANK	* WATER YEAR	* ELEV,FT.	* WEIBULL PLOT POS	*
* 9	* -1	* 1930	* 1193.0	* 1	* 1934	* 1192.5	* 2.08	*
* 5	* -1	* 1931	* 1193.0	* 2	* 1976	* 1192.6	* 4.17	*
* 9	* -1	* 1932	* 1192.6	* 3	* 1932	* 1192.6	* 6.25	*
* 9	* -1	* 1933	* 1193.1	* 4	* 1936	* 1192.9	* 8.33	*
* 9	* -1	* 1934	* 1192.5	* 5	* 1931	* 1193.0	* 10.42	*
* 5	* -1	* 1935	* 1193.5	* 6	* 1930	* 1193.0	* 12.50	*
* 9	* -1	* 1936	* 1192.9	* 7	* 1933	* 1193.1	* 14.58	*
* 5	* -1	* 1937	* 1193.6	* 8	* 1955	* 1193.4	* 16.67	*
* 8	* -1	* 1938	* 1193.9	* 9	* 1958	* 1193.4	* 18.75	*
* 5	* -1	* 1939	* 1193.4	* 10	* 1939	* 1193.4	* 20.83	*
* 5	* -1	* 1940	* 1193.6	* 11	* 1970	* 1193.5	* 22.92	*
* 7	* -1	* 1941	* 1193.9	* 12	* 1935	* 1193.5	* 25.00	*
* 5	* -1	* 1942	* 1193.6	* 13	* 1961	* 1193.5	* 27.08	*
* 5	* -1	* 1943	* 1193.6	* 14	* 1964	* 1193.5	* 29.17	*
* 5	* -1	* 1944	* 1193.6	* 15	* 1963	* 1193.5	* 31.25	*
* 6	* -1	* 1945	* 1194.0	* 16	* 1968	* 1193.5	* 33.33	*
* 5	* -1	* 1946	* 1193.6	* 17	* 1959	* 1193.6	* 35.42	*
* 5	* -1	* 1947	* 1193.9	* 18	* 1957	* 1193.6	* 37.50	*
* 6	* -1	* 1948	* 1193.9	* 19	* 1940	* 1193.6	* 39.58	*
* 5	* -1	* 1949	* 1193.6	* 20	* 1946	* 1193.6	* 41.67	*
* 9	* -1	* 1950	* 1193.7	* 21	* 1949	* 1193.6	* 43.75	*
* 5	* -1	* 1951	* 1193.6	* 22	* 1969	* 1193.6	* 45.83	*
* 9	* -1	* 1952	* 1194.0	* 23	* 1953	* 1193.6	* 47.92	*
* 5	* -1	* 1953	* 1193.6	* 24	* 1937	* 1193.6	* 50.00	*
* 5	* -1	* 1954	* 1194.0	* 25	* 1960	* 1193.6	* 52.08	*
* 5	* -1	* 1955	* 1193.4	* 26	* 1942	* 1193.6	* 54.17	*
* 9	* -1	* 1956	* 1193.9	* 27	* 1962	* 1193.6	* 56.25	*
* 5	* -1	* 1957	* 1193.6	* 28	* 1944	* 1193.6	* 58.33	*
* 5	* -1	* 1958	* 1193.4	* 29	* 1943	* 1193.6	* 60.42	*

* 5	* -1	* 1959	* 1193.6	* 30	* 1951	* 1193.6	* 62.50	*
* 5	* -1	* 1960	* 1193.6	* 31	* 1973	* 1193.6	* 64.58	*
* 5	* -1	* 1961	* 1193.5	* 32	* 1950	* 1193.7	* 66.67	*
* 5	* -1	* 1962	* 1193.6	* 33	* 1967	* 1193.8	* 68.75	*
* 5	* -1	* 1963	* 1193.5	* 34	* 1948	* 1193.9	* 70.83	*
* 5	* -1	* 1964	* 1193.5	* 35	* 1956	* 1193.9	* 72.92	*
* 8	* -1	* 1965	* 1194.0	* 36	* 1947	* 1193.9	* 75.00	*
* 9	* -1	* 1966	* 1193.9	* 37	* 1938	* 1193.9	* 77.08	*
* 9	* -1	* 1967	* 1193.8	* 38	* 1974	* 1193.9	* 79.17	*
* 5	* -1	* 1968	* 1193.5	* 39	* 1966	* 1193.9	* 81.25	*
* 9	* -1	* 1969	* 1193.6	* 40	* 1941	* 1193.9	* 83.33	*
* 9	* -1	* 1970	* 1193.5	* 41	* 1971	* 1194.0	* 85.42	*
* 9	* -1	* 1971	* 1194.0	* 42	* 1965	* 1194.0	* 87.50	*
* 5	* -1	* 1972	* 1194.0	* 43	* 1945	* 1194.0	* 89.58	*
* 5	* -1	* 1973	* 1193.6	* 44	* 1952	* 1194.0	* 91.67	*
* 9	* -1	* 1974	* 1193.9	* 45	* 1972	* 1194.0	* 93.75	*
* 6	* -1	* 1975	* 1194.0	* 46	* 1975	* 1194.0	* 95.83	*
* 9	* -1	* 1976	* 1192.6	* 47	* 1954	* 1194.0	* 97.92	*

- ANALYSIS OF MAXIMUMS -

-PLOTTING POSITIONS- AITKIN FLOW

*****EVENTS ANALYZED*****ORDERED EVENTS*****

* MON	* DAY	* YEAR	* FLOW,CFS	* RANK	* WATER YEAR	* FLOW,CFS	* WEIBULL PLOT POS	*
* 5	* -1	* 1930	* 3229.	* 1	* 1950	* 21595.	* 2.08	*
* 6	* -1	* 1931	* 2323.	* 2	* 1975	* 20050.	* 4.17	*
* 5	* -1	* 1932	* 2784.	* 3	* 1969	* 16259.	* 6.25	*
* 5	* -1	* 1933	* 2657.	* 4	* 1948	* 14453.	* 8.33	*
* 4	* -1	* 1934	* 1984.	* 5	* 1965	* 13688.	* 10.42	*
* 5	* -1	* 1935	* 2987.	* 6	* 1966	* 13118.	* 12.50	*
* 5	* -1	* 1936	* 4903.	* 7	* 1971	* 13078.	* 14.58	*
* 5	* -1	* 1937	* 3931.	* 8	* 1953	* 12249.	* 16.67	*
* 5	* -1	* 1938	* 11150.	* 9	* 1952	* 11428.	* 18.75	*
* 4	* -1	* 1939	* 5576.	* 10	* 1956	* 11326.	* 20.83	*
* 5	* -1	* 1940	* 3322.	* 11	* 1938	* 11150.	* 22.92	*
* 4	* -1	* 1941	* 10529.	* 12	* 1972	* 11047.	* 25.00	*
* 5	* -1	* 1942	* 4743.	* 13	* 1944	* 10881.	* 27.08	*
* 6	* -1	* 1943	* 10685.	* 14	* 1945	* 10774.	* 29.17	*
* 6	* -1	* 1944	* 10881.	* 15	* 1954	* 10760.	* 31.25	*
* 4	* -1	* 1945	* 10774.	* 16	* 1943	* 10685.	* 33.33	*
* 6	* -1	* 1946	* 6414.	* 17	* 1974	* 10633.	* 35.42	*
* 4	* -1	* 1947	* 6827.	* 18	* 1941	* 10529.	* 37.50	*
* 5	* -1	* 1948	* 14453.	* 19	* 1970	* 9727.	* 39.58	*
* 7	* -1	* 1949	* 6657.	* 20	* 1967	* 9153.	* 41.67	*
* 5	* -1	* 1950	* 21595.	* 21	* 1973	* 8209.	* 43.75	*
* 4	* -1	* 1951	* 8050.	* 22	* 1951	* 8050.	* 45.83	*
* 7	* -1	* 1952	* 11428.	* 23	* 1962	* 7753.	* 47.92	*
* 8	* -1	* 1953	* 12249.	* 24	* 1947	* 6827.	* 50.00	*
* 5	* -1	* 1954	* 10760.	* 25	* 1949	* 6657.	* 52.08	*
* 4	* -1	* 1955	* 4722.	* 26	* 1946	* 6414.	* 54.17	*

* 4	* -1	* 1956	* 11326.	* 27	* 1964	* 5942.	* 56.25	*
* 4	* -1	* 1957	* 5835.	* 28	* 1957	* 5835.	* 58.33	*
* 2	* -1	* 1958	* 2182.	* 29	* 1939	* 5576.	* 60.42	*
* 6	* -1	* 1959	* 3642.	* 30	* 1968	* 5278.	* 62.50	*
* 5	* -1	* 1960	* 5093.	* 31	* 1976	* 5275.	* 64.58	*
* 5	* -1	* 1961	* 3146.	* 32	* 1960	* 5093.	* 66.67	*
* 5	* -1	* 1962	* 7753.	* 33	* 1936	* 4903.	* 68.75	*
* 6	* -1	* 1963	* 4432.	* 34	* 1942	* 4743.	* 70.83	*
* 5	* -1	* 1964	* 5942.	* 35	* 1955	* 4722.	* 72.92	*
* 4	* -1	* 1965	* 13688.	* 36	* 1963	* 4432.	* 75.00	*
* 5	* -1	* 1966	* 13118.	* 37	* 1937	* 3931.	* 77.08	*
* 4	* -1	* 1967	* 9153.	* 38	* 1959	* 3642.	* 79.17	*
* 6	* -1	* 1968	* 5278.	* 39	* 1940	* 3322.	* 81.25	*
* 4	* -1	* 1969	* 16259.	* 40	* 1930	* 3229.	* 83.33	*
* 5	* -1	* 1970	* 9727.	* 41	* 1961	* 3146.	* 85.42	*
* 4	* -1	* 1971	* 13078.	* 42	* 1935	* 2987.	* 87.50	*
* 4	* -1	* 1972	* 11047.	* 43	* 1932	* 2784.	* 89.58	*
* 10	* -1	* 1973	* 8209.	* 44	* 1933	* 2657.	* 91.67	*
* 6	* -1	* 1974	* 10633.	* 45	* 1931	* 2323.	* 93.75	*
* 5	* -1	* 1975	* 20050.	* 46	* 1958	* 2182.	* 95.83	*
* 4	* -1	* 1976	* 5275.	* 47	* 1934	* 1984.	* 97.92	*

- ANALYSIS OF MINIMUMS -

-PLOTTING POSITIONS- ANOKA FLOW

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*****EVENTS ANALYZED*****ORDERED EVENTS*****
* MON DAY YEAR FLOW,CFS * RANK WATER YEAR FLOW,CFS WEIRULL *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* 8 -1 1930 1052. * 1 1934 810. 2.08 *
* 9 -1 1931 1347. * 2 1936 827. 4.17 *
* 10 -1 1932 1263. * 3 1933 972. 6.25 *
* 9 -1 1933 972. * 4 1976 1048. 8.33 *
* 8 -1 1934 810. * 5 1930 1052. 10.42 *
* 1 -1 1935 1087. * 6 1935 1087. 12.50 *
* 7 -1 1936 827. * 7 1932 1263. 14.58 *
* 2 -1 1937 1379. * 8 1931 1347. 16.67 *
* 10 -1 1938 2502. * 9 1940 1371. 18.75 *
* 10 -1 1939 1901. * 10 1937 1379. 20.83 *
* 9 -1 1940 1371. * 11 1961 1642. 22.92 *
* 8 -1 1941 2827. * 12 1970 1858. 25.00 *
* 1 -1 1942 3568. * 13 1939 1901. 27.08 *
* 12 -1 1943 3690. * 14 1960 1977. 29.17 *
* 1 -1 1944 4203. * 15 1948 2067. 31.25 *
* 1 -1 1945 4300. * 16 1967 2219. 33.33 *
* 9 -1 1946 3575. * 17 1959 2381. 35.42 *
* 8 -1 1947 3214. * 18 1962 2449. 37.50 *
* 10 -1 1948 2067. * 19 1956 2453. 39.58 *
* 9 -1 1949 2506. * 20 1938 2502. 41.67 *
* 11 -1 1950 3233. * 21 1949 2506. 43.75 *
* 1 -1 1951 4115. * 22 1964 2521. 45.83 *
* 11 -1 1952 3440. * 23 1958 2530. 47.92 *
* 1 -1 1953 4831. * 24 1969 2665. 50.00 *
* 12 -1 1954 4178. * 25 1963 2822. 52.08 *
* 11 -1 1955 3120. * 26 1941 2827. 54.17 *
* 10 -1 1956 2453. * 27 1965 3090. 56.25 *
* 1 -1 1957 3282. * 28 1968 3095. 58.33 *
* 8 -1 1958 2530. * 29 1955 3120. 60.42 *
* 1 -1 1959 2381. * 30 1971 3126. 62.50 *
* 8 -1 1960 1977. * 31 1974 3159. 64.58 *
* 8 -1 1961 1642. * 32 1947 3214. 66.67 *
* 3 -1 1962 2449. * 33 1950 3233. 68.75 *
* 11 -1 1963 2822. * 34 1957 3282. 70.83 *
* 8 -1 1964 2521. * 35 1952 3440. 72.92 *
* 3 -1 1965 3090. * 36 1942 3568. 75.00 *
* 12 -1 1966 4969. * 37 1946 3575. 77.08 *
* 11 -1 1967 2219. * 38 1943 3690. 79.17 *
* 1 -1 1968 3095. * 39 1951 4115. 81.25 *
* 9 -1 1969 2665. * 40 1954 4178. 83.33 *
* 9 -1 1970 1858. * 41 1944 4203. 85.42 *
* 9 -1 1971 3126. * 42 1945 4300. 87.50 *
* 12 -1 1972 6905. * 43 1973 4535. 89.58 *
* 7 -1 1973 4535. * 44 1953 4831. 91.67 *
* 9 -1 1974 3159. * 45 1966 4969. 93.75 *
* 3 -1 1975 5027. * 46 1975 5027. 95.83 *
* 9 -1 1976 1048. * 47 1972 6905. 97.92 *
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APPENDIX M

PLAN 10

SANDY LAKE PLAN COMPUTATIONS

APPENDIX M
PLAN 10 - SANDY LAKE PLAN COMPUTATIONS

A hand routing procedure can be performed for a the daily flow event in order to evaluate Sandy Lake Reservoir operation based upon Plan 10 criteria. The HEC-5 computer results from Plan 1 - Present Operating Plan provide the flow hydrographs at Libby and inflow to Sandy Reservoir plus Sandy Reservoir operation results up to the period when the Plan 10 criteria (open gates) is initialized. The following figures provide the rating curve used at Libby and the slope rating curve used at Sandy River below the dam. The computation procedure follows:

COMPUTATION PROCEDURE

Column

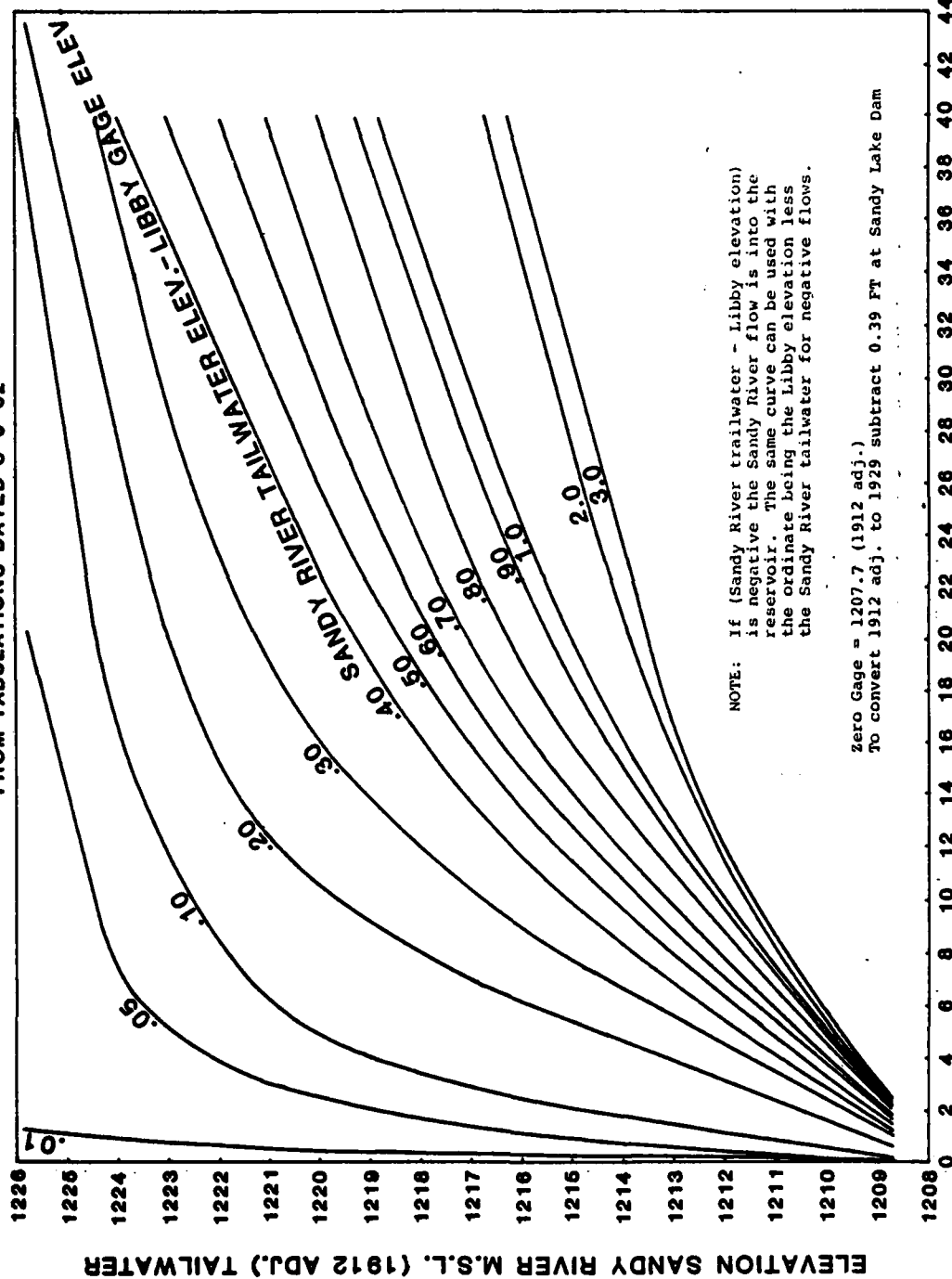
- (1) Hydrograph Period (Daily)
- (2) Total Regulated Flow at Libby: HEC-5 results "LIBBY FLOW REG"
- (3) Elevation at Libby: Using (2) discharge and Rating Curve at Libby
- (4) End of Period Storage at Sandy: Previous period (4) minus this period (10). Note: first value is initial storage for Sandy for this flood event as specified on HEC-5 R1 card
- (5) End of Period Elevation at Sandy: using (4) storage and storage-elevation curve at Sandy
- (6) Elevation: (5) for previous period minus (2) for this period. Note: for purpose of this hand routing this elevation is assumed to be constant over entire period.
- (7) Inflow at Sandy for this Period: HEC-5 results "LIBBY LOCAL CU"
- (8) Total Outflow at Sandy Assuming Open Gates with Current Discharge/Elevation Conditions at the Mississippi River at Libby and Elevation at Sandy Reservoir: Use slope rating curve Sandy River, Sandy Lake Dam and Reservoir with "ELEVATION SANDY RIVER TAILWATER" = (5) for previous period and appropriate curve based on (6) for this period.
- (9) Specified Actual Outflow at Sandy: as per normal operation, see HEC-5 results "SANDY RE OUTFLOW" until gates opened, then (8)
- (10) Change in Storage during this Period: $S = [(I-O)/\Delta T], [(7)-(9)]/1.983$

NOTE: All elevations 1929 adj, flow in cfs, storage in ac-ft

SANDY RIVER - SLOPE RATING CURVE

SANDY LAKE DAM & RESERVOIR 27 JAN 66

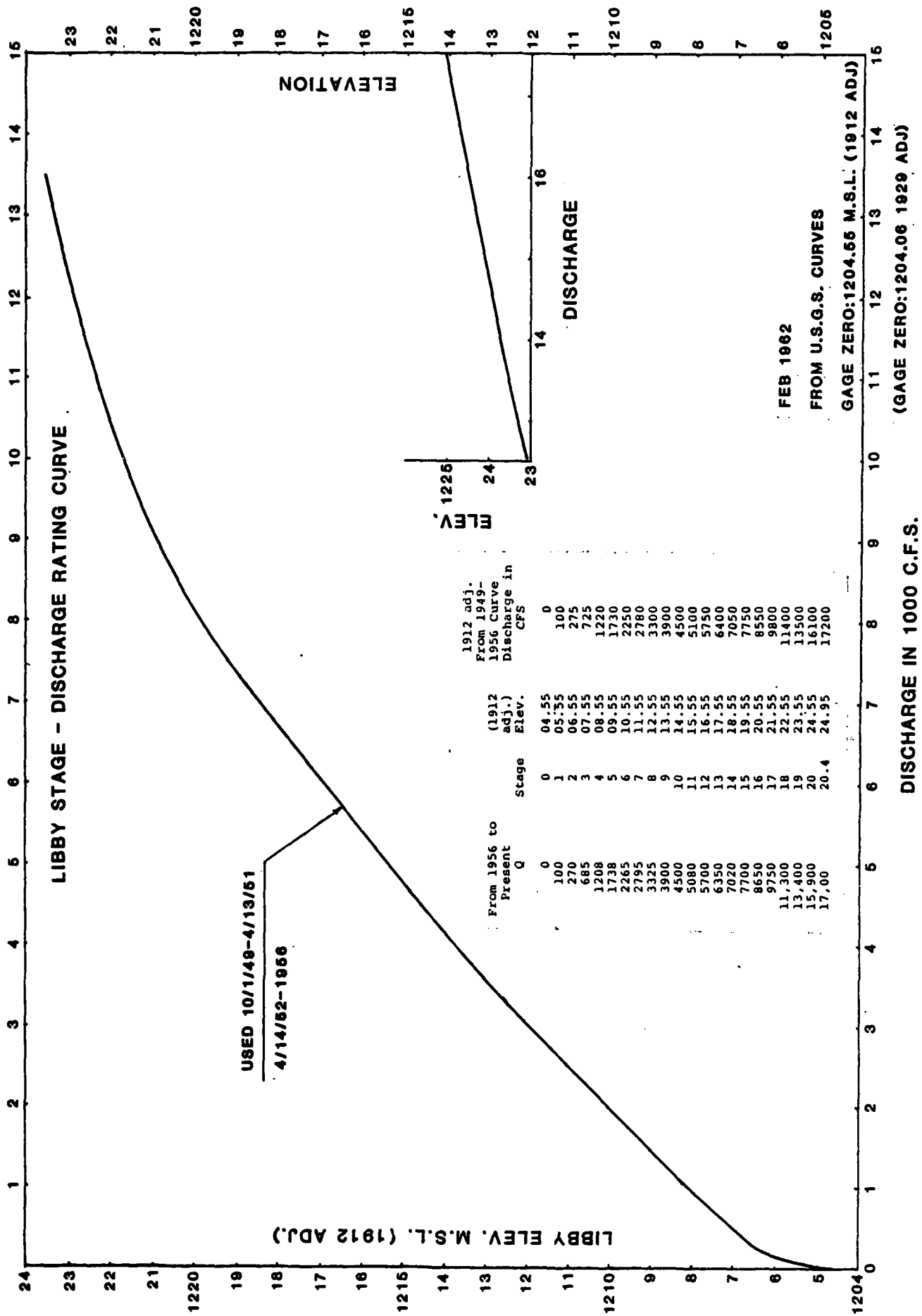
FROM TABULATIONS DATED 8-9-62



SANDY RIVER DISCHARGE IN 100 SECOND-FEET

FROM TABULATIONS DATED 8-9-62





END

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