```
************************************        ****************************************
*               FFA                *        *                                      *
*    FLOOD FREQUENCY ANALYSIS      *        *   U.S. ARMY CORPS OF ENGINEERS       *
*    PROGRAM DATE:  FEB 1995       *        * THE HYDROLOGIC ENGINEERING CENTER    *
*         VERSION:  3.1            *        *        609 SECOND STREET             *
*    RUN  DATE   AND   TIME:       *        *     DAVIS, CALIFORNIA 95616          *
*      17 SEP 07     11:36:07      *        *         (916) 756-1104               *
*                                  *        *                                      *
************************************        ****************************************
```

```
 INPUT FILE NAME: TRAVERS.DAT
OUTPUT FILE NAME: TRAVERS.OUT
   DSS FILE NAME: TRAVERS.DSS


   -----DSS---ZOPEN:  New File Opened,  File: TRAVERS.DSS
                      Unit:   71;  DSS Version: 6-JB

**TITLE RECORD(S)**
TT  Lake Traverse at Reservation Dam
TT  Period of Record 1942-2007
TT  Annual Maximum Lake Level

**JOB RECORD(S)**
      IPPC   ISKFX  IPROUT   IFMT   IWYR   IUNIT   ISMRY   IPNCH   IREG
J1     2       0      0       0      0      0       3       3       2

**SPECIFIED VARIABLE AND UNITS**
FU     Elev       Feet

**STATION IDENTIFICATION**
ID        Lake Traverse at Reservation Dam

**SPECIAL STATION INFORMATION**
    IYRA    IYRL  HITHRS  LOTHRS    LOGT    NDEC    NSIG
SI    0       0     0.      0.       0       2       5

**HP PLOT **
    HP PLOT FILE                    IHPCV  KLIMIT   IPER   BAREA
HPTravers.pcl                          3      0       0      N

     SELECTED CURVES ON HPPLOT
          EXPECTED PROBABILITY CURVE
          COMPUTED PROBABILITY CURVE
          CONFIDENCE LIMITS

HPLake Traverse at
HPReservation Dam
HPAnnual Maximum Lake Levels

**SYSTEMATIC EVENTS**
   66 EVENTS TO BE ANALYZED

**END OF INPUT DATA**
ED +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++


*************************************************************
CAUTION FROM SUBROUTINE WTSKEW
***** NO GENERALIZED SKEW PROVIDED
ADOPTED SKEW SET TO COMPUTED SKEW
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ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ FINAL RESULTS ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ

-PLOTTING POSITIONS- Lake Traverse at Reservation Dam

EVENTS ANALYZED				ORDERED EVENTS			
MON	DAY	YEAR	Elev Feet	RANK	WATER YEAR	Elev Feet	MEDIAN PLOT POS
1	1	1942	978.36	1	1997	982.21	1.05
1	1	1943	979.18	2	2001	981.12	2.56
1	1	1944	976.75	3	1969	981.03	4.07
1	1	1945	976.74	4	1952	980.75	5.57
1	1	1946	977.05	5	1986	980.71	7.08
1	1	1947	978.42	6	1995	980.34	8.58
1	1	1948	977.03	7	1993	980.00	10.09
1	1	1949	976.68	8	1962	979.53	11.60
1	1	1950	978.68	9	1979	979.41	13.10
1	1	1951	978.04	10	1978	979.35	14.61
1	1	1952	980.75	11	1994	979.20	16.11
1	1	1953	976.75	12	1943	979.18	17.62
1	1	1954	977.02	13	2007	978.75	19.13
1	1	1955	977.32	14	1950	978.68	20.63
1	1	1956	976.31	15	2005	978.53	22.14

1	1	1957	977.15		16	1947	978.42	23.64	
1	1	1958	976.78		17	2006	978.37	25.15	
1	1	1959	975.58		18	1942	978.36	26.66	
1	1	1960	976.86		19	1966	978.30	28.16	
1	1	1961	975.53		20	1965	978.19	29.67	
1	1	1962	979.53		21	1951	978.04	31.17	
1	1	1963	977.24		22	1989	977.98	32.68	
1	1	1964	976.62		23	1984	977.82	34.19	
1	1	1965	978.19		24	2004	977.62	35.69	
1	1	1966	978.30		25	1985	977.42	37.20	
1	1	1967	976.83		26	1996	977.37	38.70	
1	1	1968	976.24		27	2003	977.33	40.21	
1	1	1969	981.03		28	1955	977.32	41.72	
1	1	1970	976.62		29	1999	977.32	43.22	
1	1	1971	976.65		30	1998	977.28	44.73	
1	1	1972	977.01		31	2002	977.27	46.23	
1	1	1973	976.98		32	1963	977.24	47.74	
1	1	1974	976.11		33	1991	977.20	49.25	
1	1	1975	977.16		34	2000	977.17	50.75	
1	1	1976	976.94		35	1975	977.16	52.26	
1	1	1977	975.84		36	1957	977.15	53.77	
1	1	1978	979.35		37	1946	977.05	55.27	
1	1	1979	979.41		38	1992	977.03	56.78	
1	1	1980	976.95		39	1948	977.03	58.28	
1	1	1981	976.76		40	1954	977.02	59.79	
1	1	1982	977.00		41	1972	977.01	61.30	
1	1	1983	976.73		42	1982	977.00	62.80	
1	1	1984	977.82		43	1973	976.98	64.31	
1	1	1985	977.42		44	1980	976.95	65.81	
1	1	1986	980.71		45	1976	976.94	67.32	
1	1	1987	976.76		46	1960	976.86	68.83	
1	1	1988	975.48		47	1967	976.83	70.33	
1	1	1989	977.98		48	1958	976.78	71.84	
1	1	1990	975.77		49	1987	976.76	73.34	
1	1	1991	977.20		50	1981	976.76	74.85	
1	1	1992	977.03		51	1944	976.75	76.36	
1	1	1993	980.00		52	1953	976.75	77.86	
1	1	1994	979.20		53	1945	976.74	79.37	
1	1	1995	980.34		54	1983	976.73	80.87	
1	1	1996	977.37		55	1949	976.68	82.38	
1	1	1997	982.21		56	1971	976.65	83.89	
1	1	1998	977.28		57	1970	976.62	85.39	
1	1	1999	977.32		58	1964	976.62	86.90	
1	1	2000	977.17		59	1956	976.31	88.40	
1	1	2001	981.12		60	1968	976.24	89.91	
1	1	2002	977.27		61	1974	976.11	91.42	
1	1	2003	977.33		62	1977	975.84	92.92	
1	1	2004	977.62		63	1990	975.77	94.43	
1	1	2005	978.53		64	1959	975.58	95.93	
1	1	2006	978.37		65	1961	975.53	97.44	
1	1	2007	978.75		66	1988	975.48	98.95	

-OUTLIER TESTS -

HIGH OUTLIER TEST

BASED ON 66 EVENTS, 10 PERCENT OUTLIER TEST VALUE K(N) = 2.871

1 HIGH OUTLIER(S) IDENTIFIED ABOVE TEST VALUE OF 982.

NOTE - COLLECTION OF HISTORICAL INFORMATION AND COMPARISONS WITH SIMILAR DATA SETS SHOULD BE EXPLORED IF NOT INCORPORATED IN THIS ANALYSIS.

LOW OUTLIER TEST

BASED ON 66 EVENTS, 10 PERCENT OUTLIER TEST VALUE K(N) = 2.871

0 LOW OUTLIER(S) IDENTIFIED BELOW TEST VALUE OF 973.5

-SKEW WEIGHTING -

BASED ON 66 EVENTS, MEAN-SQUARE ERROR OF STATION SKEW =-99.000
DEFAULT OR INPUT MEAN-SQUARE ERROR OF GENERALIZED SKEW = .302

FINAL RESULTS

-FREQUENCY CURVE- Lake Traverse at Reservation Dam

COMPUTED CURVE Elev IN Feet	EXPECTED PROBABILITY	PERCENT CHANCE EXCEEDANCE	CONFIDENCE LIMITS .05 Elev IN Feet	.95
983.84	984.25	.2	984.93	983.01
982.91	983.21	.5	983.85	982.19
982.19	982.41	1.0	983.02	981.56
981.46	981.61	2.0	982.17	980.90
980.44	980.53	5.0	981.01	980.00
979.63	979.69	10.0	980.09	979.26
978.76	978.79	20.0	979.13	978.45
977.41	977.41	50.0	977.71	977.10
976.44	976.42	80.0	976.76	976.06
976.06	976.04	90.0	976.40	975.64
975.80	975.78	95.0	976.17	975.36
975.46	975.43	99.0	975.85	974.97

SYSTEMATIC STATISTICS

LOG TRANSFORM: Elev, Feet		NUMBER OF EVENTS	
MEAN	2.9902	HISTORIC EVENTS	0
STANDARD DEV	.0006	HIGH OUTLIERS	0
COMPUTED SKEW	1.1209	LOW OUTLIERS	0
REGIONAL SKEW	-99.0000	ZERO OR MISSING	0
ADOPTED SKEW	1.1000	SYSTEMATIC EVENTS	66

HP PLOT WRITTEN TO THE FILE: Travers.pcl

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**************************************      **************************************
*                FFA                 *      *                                    *
*     FLOOD FREQUENCY ANALYSIS       *      *   U.S. ARMY CORPS OF ENGINEERS     *
*     PROGRAM DATE:  FEB 1995        *      * THE HYDROLOGIC ENGINEERING CENTER *
*          VERSION:  3.1             *      *         609 SECOND STREET          *
*     RUN  DATE   AND   TIME:        *      *       DAVIS, CALIFORNIA 95616      *
*       17 SEP 07    11:36:07       *      *           (916) 756-1104           *
*                                     *      *                                    *
**************************************      **************************************
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INPUT FILE NAME: TRAVERS.DAT
OUTPUT FILE NAME: TRAVERS.OUT
DSS FILE NAME: TRAVERS.DSS

***** UNRECOGNIZABLE RECORD
12345678901234567890123456789012345678901234567890123456789012345678901234567890
ER
RECORD IGNORED

SYSTEMATIC EVENTS
0 EVENTS TO BE ANALYZED

END OF INPUT DATA
ED ++
++

*** INSUFFICIENT DATA, NVAL = 0

TABLE 1. SUMMARY OF STATISTICS -- PRELIMINARY AND FINAL RESULTS

STATION NUMBER	STATION NAME AND LOCATION	AREA SQ MI	YEARS RECD	YEARS SYST	YEARS HIST	MEAN LOG	STD DEV	SKEW ADOPT	SKEW COMP	SKEW GENRL	HIST EVENT	OUTLIER HI	OUTLIER LO	ZERO/ MSNG
	Lake Traverse at Reservation Dam **	66	66	0		2.990	.001	1.10	1.121	-99.00	0	0	0	0
	Lake Traverse at Reservation Dam	66	66	0		2.990	.001	1.10	1.121	-99.00	0	0	0	0
	Lake Traverse at Reservation Dam	0	0											

** PRELIMINARY STATISTICS

TABLE 2. SUMMARY OF FREQUENCY CURVE ORDINATES -- PRELIMINARY AND FINAL RESULTS

STATION NUMBER	STATION NAME AND LOCATION	AREA SQ MI	....YEARS..... RECD	SYST	HIST	.....PERCENT CHANCE 10.	5.	2.	1.	EXCEEDANCE..... .5	.2
	Lake Traverse at Reservation Dam	66	66	0		979	980	981	982	982	983
	Lake Traverse at Reservation Dam	66	66	0		979	980	981	982	982	983
	Lake Traverse at Reservation Dam	0	0								

+++++++++++++++++++++++++
+ END OF RUN +
+ NORMAL STOP IN FFA +
+++++++++++++++++++++++++