GOOSE POND BROOK
MASCOMA RIVER WATERSHED
NEW HAMPSHIRE

GOOSE POND DAM-BREAK FLOOD ANALYSIS

SEPTEMBER 1984

US Army Corps
of Engineers
New England Division

GOOSE POND DAM

DAM-BREAK FLOOD

ANALYSIS

SUBMITTED TO:

DEPARTMENT OF THE ARMY

NEW ENGLAND DIVISION

WALTHAM, MASSACHUSETTS

SUBMITTED BY:

CLEVERDON, VARNEY AND PIKE, INC.

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CONTRACT NUMBER:

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GOOSE POND DAM
DAM-BREAK FLOOD ANALYSIS

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GOOSE POND DAM
DAM-BREAK FLOOD ANALYSIS

1. INTRODUCTION AND PURPOSE

This report presents the findings of a dam-break flood analysis performed for Goose Pond Dam. The dam is owned, operated and maintained by the New Hampshire Water Resource Board. Included in the report are a description of pertinent features of the dam, the procedure used for the analysis, the assumed dam-break conditions, and the resulting effect on downstream flooded areas. This study was not performed because of any known likelihood of a dam-break at Goose Pond Dam. Its purpose is to provide quantitative information for emergency planning use.

2. DAM DESCRIPTION

Identification No.	NH0011810
Name of Dam:	Goose Pond Dam
Town:	Canaan
County and State:	Grafton, NH
Stream:	Goose Pond Brook

Goose Pond Dam is located in the central western part of the State of New Hampshire, approximately nine miles northeast of the City of Lebanon. It is a 1,120 foot long earth fill dam that was reconstructed in 1952 with a new upstream face. The maximum height of the dam is 31 feet. The concretre spillway is an Ambursen box type modified for flood discharge. It has an effective length of 50 feet and is topped with sectional flashboards.

3. PERTINENT DATA

Data is taken from "Phase I Inspection Report" for Goose Pond Dam dated May 1979.

a. Drainage Area

Goose Pond as shown on the U.S.G.S. Quadrangle Sheet (Plate 1) is located on the headwaters of Goose Pond Brook. It has a total drainage area of 15.7 square miles and the watershed is highly wooded and mountainous.

b. Elevation (N.G.V.D.)

(1) Top of dam - 831.0
(2) Top of flashboards - 825.0
(3) Spillway crest (top of concrete) - 820.0

c. Reservoir

(1) Length of normal pool - 2.5 miles

d. Storage (Acre-Feet)

(1) Top of dam - 15,800 acre-feet
(2) Spillway crest - 8,500 acre-feet

e. Reservoir Surface (Acres)

(1) Top of dam - 740 acres (estimated)
(2) Spillway crest - 610 acres

f. Dam

(1)	Type	Earth fill embankment
(2)	Length	1,120 feet
(3)	Height	31 feet
(4)	Top Width	12 feet
(5)	Side Slopes	
	(a) Upstream	Approximately 1 vertical to 2.5 horizontal
	(b) Downstream	1 vertical to 2 horizontal
(6)	Zoning	Not applicable
(7)	Impervious core	Not applicable
(8)	Cutoff	Upstream concrete core wall

g. Spillway

(1)	Type	Rectangular (Ambursen)
(2)	Length of weir	Effective length 50 feet
(3)	Crest elevation (top of concrete)	
	(a) Front	823.0
	(b) Sides	820.0
(4)	Flashboard	Pin-type flashboards - 5 feet and 2 feet high
	Crest elevation (top of board)	825.0
(5)	U.S. Channel	Pond

4. VALLEY DESCRIPTION

The river valley below Goose Pond Dam is generally flat with wide floodplains. The outlet of Goose Pond Dam is Goose Pond Brook which joins the Mascoma River approximately 2.5 miles below the Dam. Mascoma River empties into Mascoma Lake 6.6 miles below Goose Pond Dam. A small dam, approximately 19 feet high is located at mile 5.6 below Goose Pond Dam in the Village of Enfield.

5. MODEL DESCRIPTION

The Goose Pond dam-break analysis was made using the HEC version, dated November 1981, of the "National Weather Service Dam-Break Flood Forecasting Computer Model", developed by D.L. Fread, Research Hydrologist, Office of Hydrology, National Weather Service, NOAA, Silver Spring, Maryland 20910. Input for the model consisted of: (a) storage characteristics of the resevoir, (b) selected geometry and duration of the breach development, (c) hydraulic inflows, (d) hydraulic roughness coefficients, and (e) active and inactive flow regions. Based on the input data, the model computes the dam-break outflow hydrograph and routes it downstream. The analysis provides output on the attentuation of the flood stages, and timing of the flood wave as it progresses downstream.

6. ASSUMED DAM BREAK CONDITIONS

General: The magnitude of a flood resulting from the hypothetical failure of Goose Pond Dam is a function of many different parameters including size of breach, initial pool level and storage, rate of breach formation, channel and over bank roughness and antecedent flow conditions. Engineering assumptions of conditions which could be reasonably expected to exist prior to a failure of Goose Pond Dam and were used in the analysis are presented below:

(1) Initial Pool Level: 827.5 feet N.G.V.D., 2.5 feet above top of flashboards.

(2) Reservoir Inflow: Estimated flood of record = 1,960 cfs.

(3) Breach Invert: 803.5 feet NGVD

(4) Breach Base Width: 60 feet, trapezodial side slopes 1V: 0.5H.

(5) Time to Complete Formation of Breach 1 Hour.

(6) Downstream Channel Roughness: Manning's "n" = .040 to .140

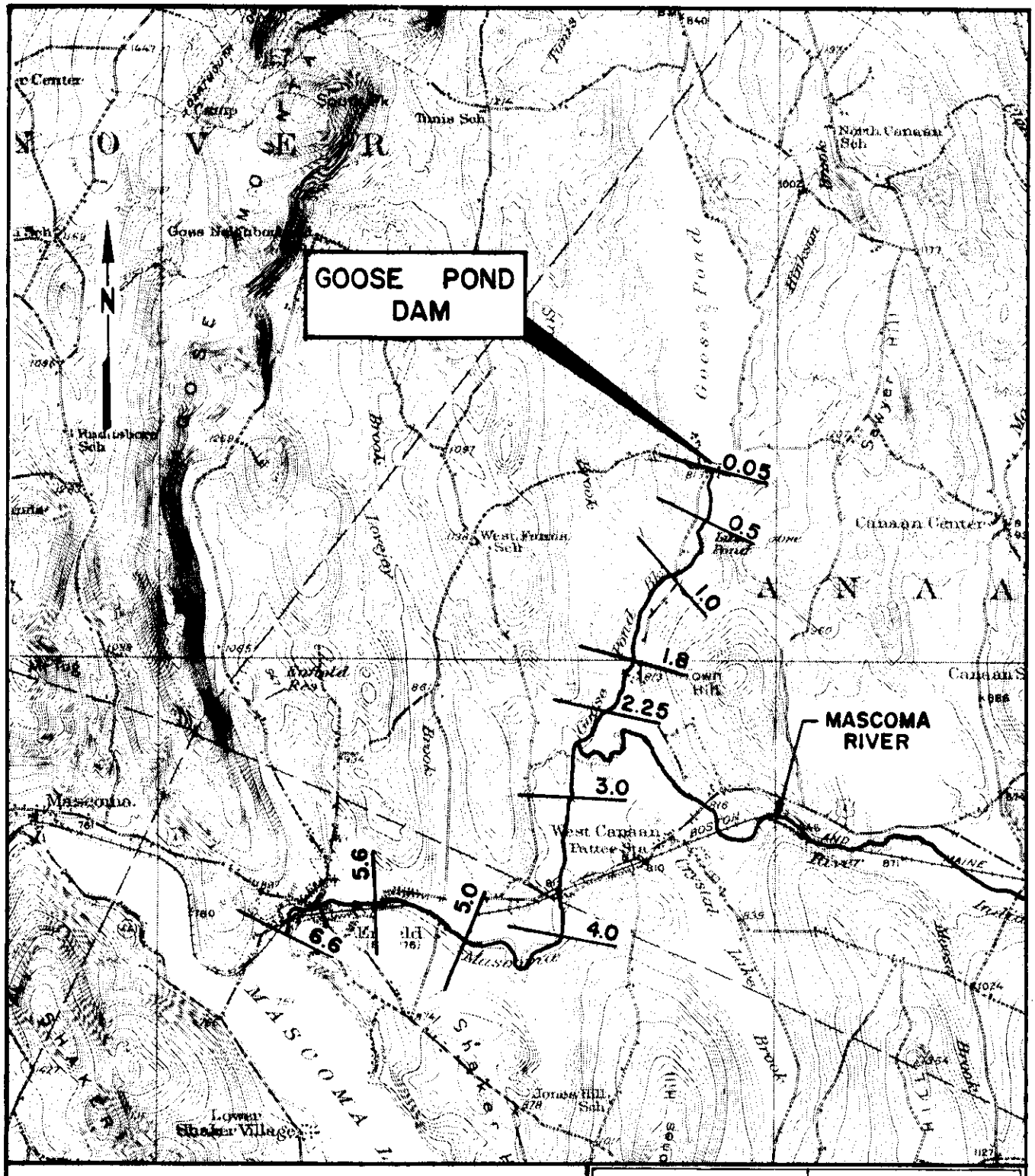
(7) Pre-Breach River Flows: The pre-breach river flow was assumed equal to the flood of record which was estimated by using a cfs/sq. mi. value based upon similar drainage area. Inflow to Goose Pond was 1960 cfs and inflow at the Mascoma River confluence was 6225 cfs.

7. RESULTS

The resulting peak stage flood profiles are shown on plate 2 and 3. Because of the scarcity of good topographic mapping in the area, profiles are shown in feet above normal summertime (July-August) low water (NLW). Users of the information can establish depth of flooding at particular properties by establishing its relative elevation with respect to the adjacent stream level. Variations in depth above NLW progressing downstream, is attributable to changes in natural stream hydraulic capacity as well as changes in peak discharge.

The peak dam break discharge from Goose Pond Dam is 21,250 cfs producing a rise of approximately 15 feet above the NLW river depth at a point .05 miles downstream from the dam. At a distance of 5.6 miles below Goose Pond Dam, in the Village of Enfield, peak discharge is 16,000 cfs and the rise over NLW stage would be about 14 feet. Peak discharge, stage and timing for three stations downstream from Goose Pond Dam are shown on plate 4. The stations are located .05, 3.0, 5.6 miles downstream of the dam. Attenuation of the dam-break flood occurs primarily near the confluence of Mascoma River with Goose Pond Brook.

The input data file is in Appendix A, while Appendix B contains the output file.



MAP BASED UPON U.S.G.S
MASCOMA, N.H.-V.T. QUADRANGLE
1927

CROSS-SECTION LOCATION IN
MILES BELOW DAM

SCALE IN MILES

1 0 1

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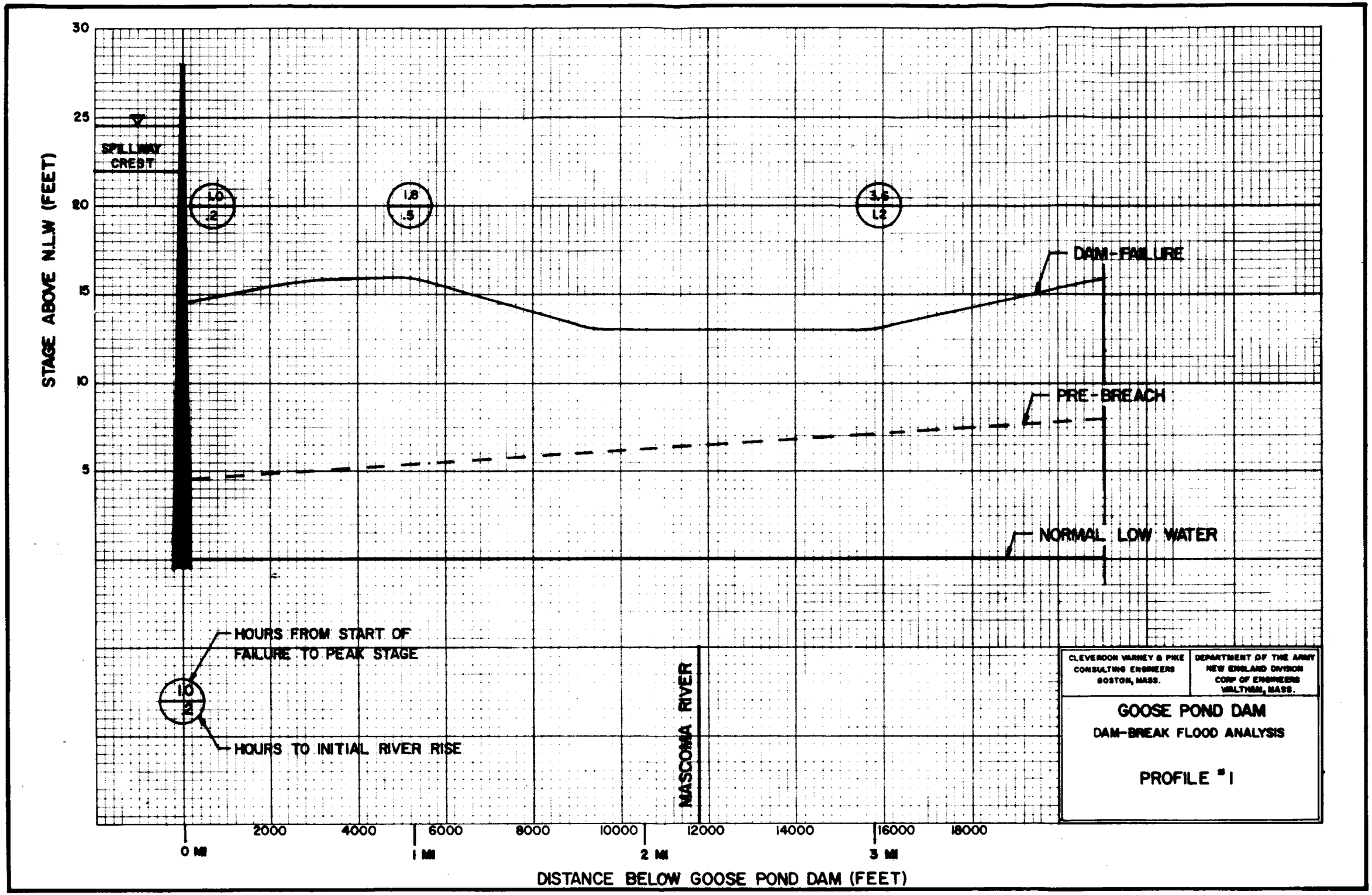
GOOSE POND DAM

DAM-BREAK FLOOD ANALYSIS

INDEX MAP

PLATE 1


STAGE ABOVE N.L.W (FEET)
30
25
20
15
10
5
SPILLWAY CREST
1.0
.2
1.8
.5
3.6
1.2
DAM-FAILURE
PRE-BREACH
NORMAL LOW WATER
HOURS FROM START OF FAILURE TO PEAK STAGE
1.0
.5
HOURS TO INITIAL RIVER RISE
MASCOMA RIVER
2000
4000
6000
8000
10000
12000
14000
16000
18000
0 MI
1 MI
2 MI
3 MI
DISTANCE BELOW GOOSE POND DAM (FEET)
CLEVERDON VARNEY & PIKE
CONSULTING ENGINEERS
BOSTON, MASS.
DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORP OF ENGINEERS
WALTHAM, MASS.
GOOSE POND DAM
DAM-BREAK FLOOD ANALYSIS
PROFILE #1

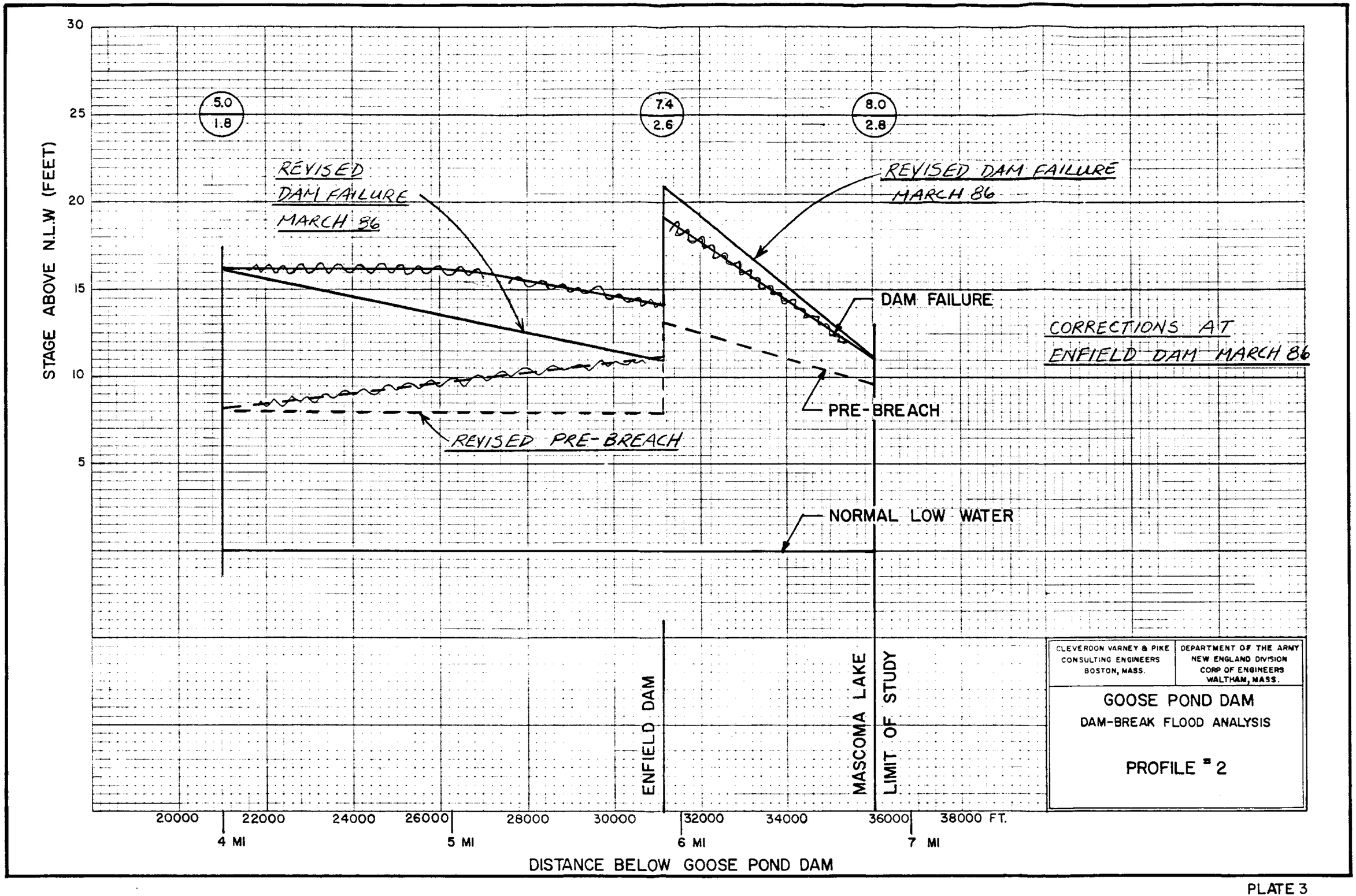
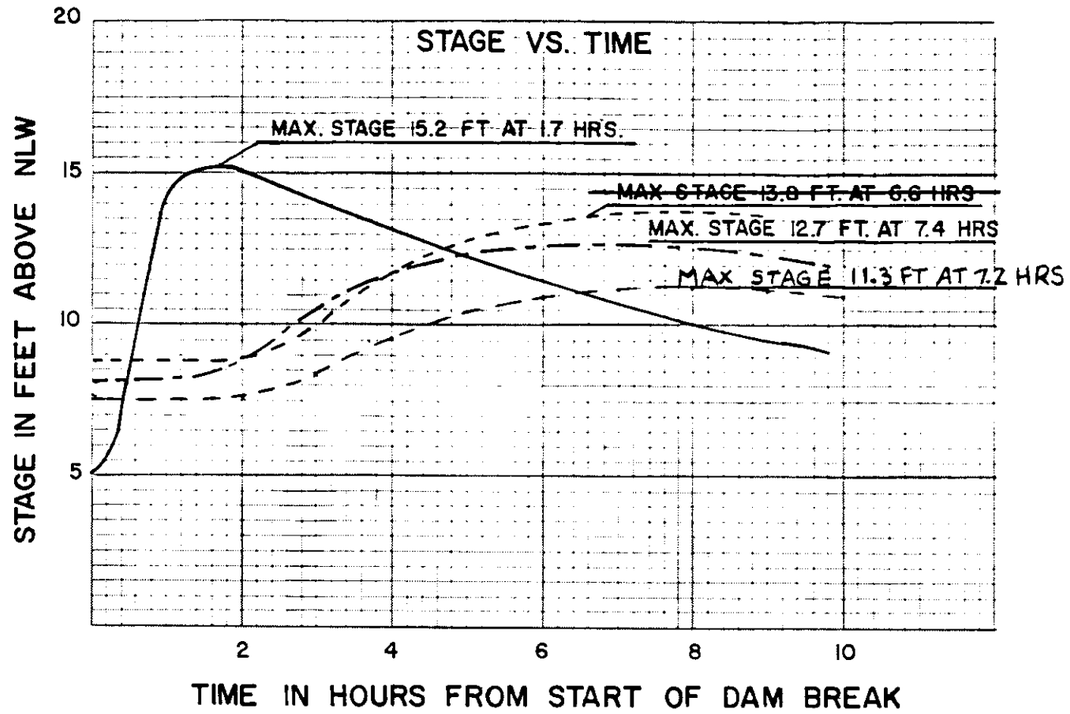
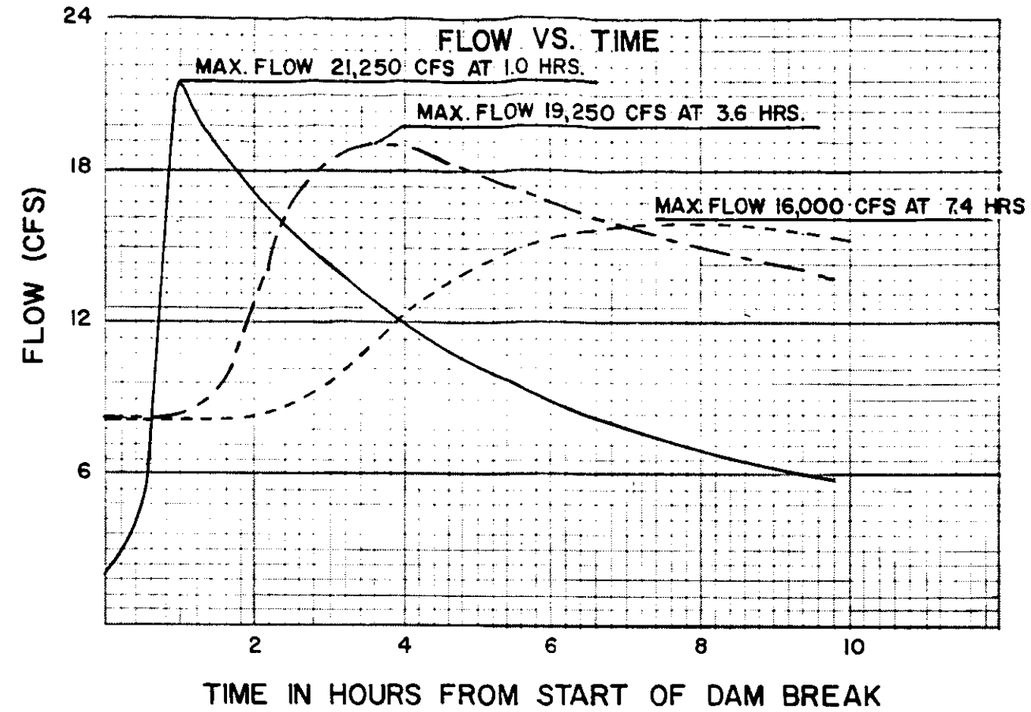
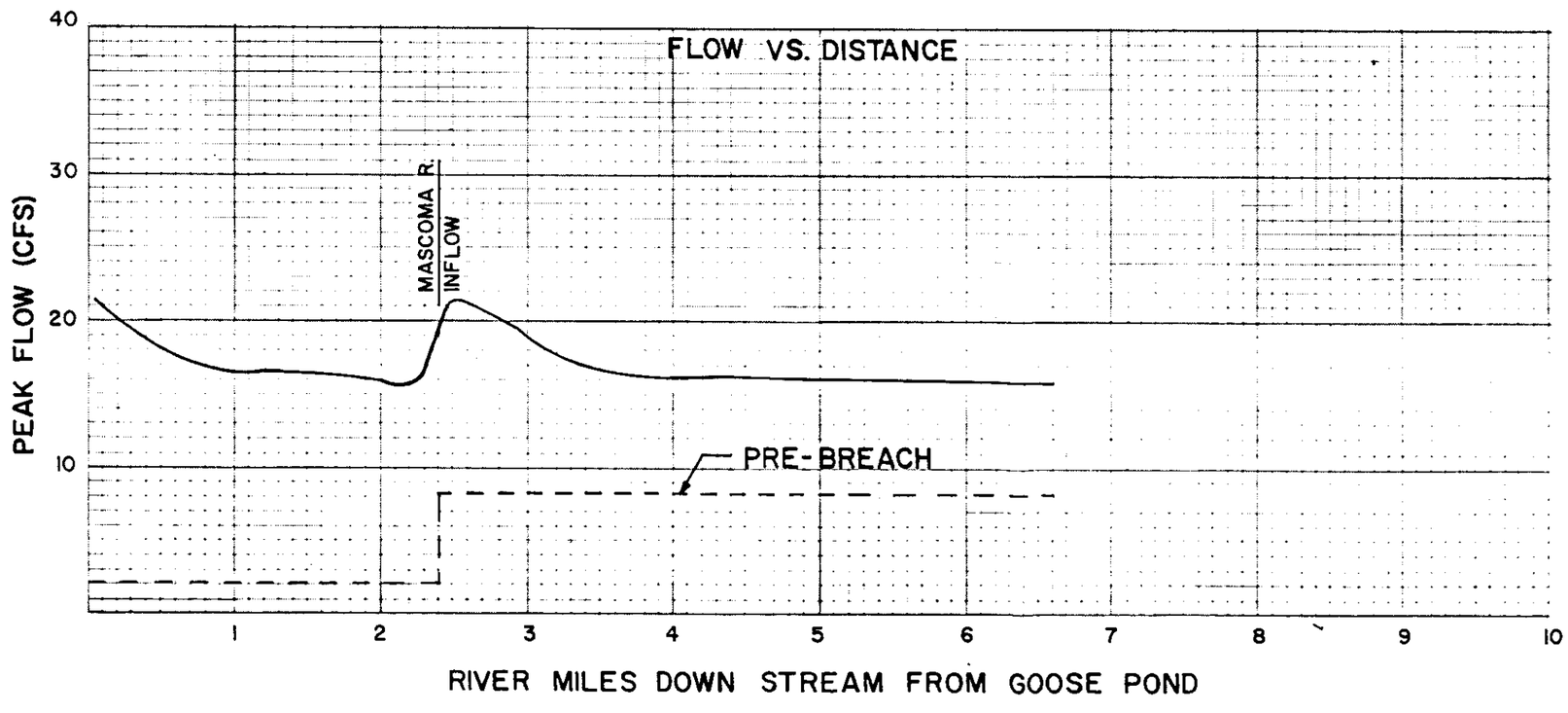

STAGE ABOVE N.L.W (FEET)
30
25
20
15
10
5
5.0
1.8
7.4
2.6
8.0
2.8
REVISED DAM FAILURE MARCH 86
REVISED DAM FAILURE MARCH 86
DAM FAILURE
CORRECTIONS AT ENFIELD DAM MARCH 86
PRE-BREACH
REVISED PRE-BREACH
NORMAL LOW WATER
ENFIELD DAM
MASCOMA LAKE
LIMIT OF STUDY
20000
22000
24000
26000
28000
30000
32000
34000
36000
38000 FT.
4 MI
5 MI
6 MI
7 MI
DISTANCE BELOW GOOSE POND DAM
CLEVERDON VARNEY & PIKE
CONSULTING ENGINEERS
BOSTON, MASS.
DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORP OF ENGINEERS
WALTHAM, MASS.
GOOSE POND DAM
DAM-BREAK FLOOD ANALYSIS
PROFILE # 2

PLATE 3







NLW DATUM (FT. NGVD)

STA. 1 RM. 0.05=808.0 ———
STA. 2 RM. 3.0 = 794.0 — — —
STA. 3 ~~RM. 5.6 = 782.0~~ - - - -
RM. 5.9 ABOVE DAM 793 - - - -
RM. 5.9 BELOW DAM 770

CORRECTIONS AT ENFIELD DAM
MARCH 86

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GOOSE POND DAM
DAM-BREAK FLOOD ANALYSIS

BASE FLOOD DISCHARGES
STAGES & TIMING

```
*HECFORMAT
*ECHO
*FORMATTED
*10FIELDS
*COMPOSITE
ID GOOSE POND LAKE DAM
ID GOOSE POND BROOK
ID G MERCER
ID CV&P ENGS
ID BOSTON, MA
IO      9       10       10
IP      3        0
QI   1960
SN GOOSE POND
SE    831      825      820    813.5    803.5    803.0
SA    740      688      610      500      376      0.0
DN GOOSE POND DAM
DD    831      825        0    827.5        5      .06    803.5
DB      1    827.5       60    803.5       .5
DO      0      511        0     2500
DN ENFIELD DAM
DD    800      786        0                 10      .06      769
DO      0      325        0     2500
RN REACH 1 TO ENFIELD DAM @ MILE 5.6
RG      1        6        9
RC  794.6        0      0.0      0.0
XI   0.05                                                   .10
XE    807      816      821      826      831      836      841      846
XC     33      340      595      993     1165     1324     1420     1516
NC   .040     .050     .060     .070     .080     .090     .100     .110
XI    0.5                                                   .10
XE    804      810      815      820      825      830      835      840
XC     30      386      683      980     1047     1115     1162     1250
NC   .040     .050     .060     .070     .080     .090     .100     .110
XI    1.0                                                   .20
XE    802      810      815      820      825      830      835      840
XC     30      363      571      780     1172     1565     1957     2350
NC   .040     .050     .060     .070     .080     .090     .100     .110
XI    1.8                                                   .20
XE    801      807      812      817      822      827      832      837
XC     30      249      720      990     1410     1590     2130     2380
NC   .040     .050     .060     .070     .080     .090     .100     .110
XI   2.25                                                   .20
XE    797      810      815      820      825      830      835      840
XC     30      530     1100     1600     2000     2660     2990     3120
XO      0      900      915     1000      730      660        0        0
NC   .040     .050     .060     .070     .080     .090     .100     .110
QN   2.25                MASCOMA RIVER
QL   6225
XI    3.0                                                   .20
XE    793      804      810      816      822      828      834      840
XC     30      905     1100     1820     2000     2480     2900     3330
XO      0     3400     4187     4600     5065     5007     5008     5000
NC   .040     .045     .050     .055     .060     .070     .080     .100
XI    4.0                                                   .30
```

```
XE    789     797     804     811     818     825     833     840
XC     30     386     604     751     898    1553    2532    3390
NC   .040    .050    .060    .070    .080    .090    .100    .110
XI    5.0                                            .30
XE    784     792     800     808     816     824     832     840
XC     30     275     520    1352    2184    2760    3080    3400
NC   .040    .050    .060    .070    .080    .090    .100    .110
XI    5.6
XE    781     789     797     805     813     821     829     837
XC     30     250     450    1200    1800    2200    3000    3200
NC   .040    .060    .080    .100    .110    .120    .130    .140
RN  REACH 2 TO MASCOMA LAKE
RG      2
RC    0.0       0     0.0     0.0
XI    5.6                                            .30
XE    770     776     781     786     791     796     801     806
XC     40      98     134     169     289     324     367     390
NC   .040    .050    .060    .080    .100    .110    .120    .130
XI    6.6
XE    750     758     765     772     779     786     793     800
XC     30     200     300     400     600     900    1287    1560
XO      0     306     363     318     172     114       0       0
NC   .040    .050    .060    .070    .080    .090    .100    .110
ZZ
```

```
LLTT  GGOOOOSSPP  11  5511
===> LT GOOSP 1 51
1 *HECFORMAT
2 *ECHO
3 *10FIELDS
4 *COMPOSITE
5 TD GOOSE POND LAKE DM
6 TD GOOSE POND BROOK
7 TD COE NEW ENGLAND DIV
8 TO      9       10       10
9 TP      3        4
10 QT   1960
11 SN GOOSE     POND
12 SE    831      825      820    813.5    803.5      803
13 SA    740      688      610      500      376
14 DN GOOSE     POND      DAM
15 DD    831      825        0    827.5        5      .06    803.5
16 DB      1    827.5       60    803.5       .5
17 DO      0      511        0     2500
18 DNENFIEL      DAM
19 DD  796.3    792.8        0                10      .06      769
20 DO      0      325        0      150
21 RN REACH        1       TO ENFIELD      DAM        @     MILE      5.6
22 RG      1        4        6        9
23 RC  800.5        0        0
24 XT    .05                                                  .10
25 XE    807      816      821      826      831      836      841      846
26 XC     33      340      595      993     1165     1324     1420     1516
27 NC    .04      .05      .06      .07      .08      .09       .1      .11
28 XT     .5                                                   .1
29 XE    804      810      815      820      825      830      835      840
30 XC     30      386      683      980     1047     1115     1182     1250
31 NC    .04      .05      .06      .07      .08      .09       .1      .11
32 XT    1.0                                                   .2
33 XE    802      810      815      820      825      830      835      840
34 XC     30      363      571      780     1172     1565     1957     2350
35 NC    .04      .05      .06      .07      .08      .09       .1      .11
36 XT    1.8                                                   .2
37 XE    801      807      812      817      822      827      832      837
38 XC     30      249      720      990     1410     1590     2130     2380
39 NC    .04      .05      .06      .07      .08      .09       .1      .11
40 XT   2.25                                                   .2
41 XE    797      810      815      820      825      830      835      840
42 XC     30      530     1100     1600     2000     2660     2990     3120
43 XO      0      900      915     1000      730      660
44 NC    .04      .05      .06      .07      .08      .09       .1      .11
45 QN   2.25           MASCOMA    RIVER
46 QL   6225
47 XT    3.0                                                   .2
h8 XE    793      804      810      816      822      828      834      840
49 XC     30      905     1100     1820     2000     2480     2900     3330
50 XO      0     3400     4187     4600     5065     5007     5008     5000
51 NC    .04     .045      .05     .055      .06      .07      .08       .1
```

INPUT DATA FILE
APPENDIX A
REVISED MARCH 86

CROSS-SECTIONS INPUT FOR THIS REACH

SECT NO.	XS(I)	RIVRMI	FSTG(I)	XSL(I)	XSR(I)	YD(I)	DXM(I)	FKC(I)	
	5.6						.30		
HS	...	770	776	781	786	791	796	801	805
BS	...	40	95	134	169	209	324	367	390
BSS	...								
TM	...	.040	.050	.060	.080	.100	.110	.110	.130

SECT NO.	XS(I)	RIVRMI	FSTG(I)	XSL(I)	XSR(I)	YD(I)	DXM(I)	FKC(I)	
1	6.6						1000000		
HS	...	750	758	765	771	779	786	791	800
BS	...	30	200	300	400	500	907	1287	1560
BSS	...	0	306	363	318	172	114	0	0

PROGRAM DAMBRK---VERSION-A-01/30/81

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

GOOSE POND LAKE DAM

ON

GOOSE POND BROOK

ANALYSIS BY

G MERCER
CV&P ENGS
BOSTON, MA

OUTPUT DATA FILE
APPENDIX B

BASED ON PROCEDURE DEVELOPED BY

DANNY L. FREAD, PH.D., RESEARCH HYDROLOGIST
HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

SUMMARY OF INPUT DATA

INPUT CONTROL PARAMETERS FOR GOOSE POND LAKE DAM

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	KUI	0
MULTIPLE DAM INDICATOR	MULDAM	1
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMH	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	1
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN UNKNR	NPRT	2
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
LANDSLIDE PARAMETER	KSL	0

GOOSE POND LAKE DAM RESERVOIR

TABLE OF ELEVATION VS SURFACE AREA

SURFACE AREA (ACRES) BACK	ELEVATION (FT) HEAD
740.0	831.00
685.0	815.00
610.0	812.00
500.0	817.50
374.0	803.50
0.0	807.00

0.0	827.00
0.0	0.00
0.0	0.00

GOOSE PONI LAKE DAM RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
LENGTH OF RESERVOIR	MI	RLN	0.00
ELEVATION OF WATER SURFACE	FT	HO	827.50
SIDE SLOPE OF BREACH		Z	.50
ELEVATION OF BOTTOM OF BREACH	FT	HBMIN	807.50
WIDTH OF BASE OF BREACH	FT	B	60.00
TIME TO MAXIMUM BREACH SIZE	HR	TFAIL	1.00
ELEVATION (MSL) OF BOTTOM OF DAM	FT	DATUM	803.50
VOLUME-SURFACE AREA PARAMETER		VOL	0.00
ELEVATION OF WATER WHEN BREACHED	FT	HF	827.50
ELEVATION OF TOP OF DAM	FT	HD	831.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FT	HSP	825.00
ELEVATION OF CENTER OF GATE OPENINGS	FT	HGT	0.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	3.00
DISCHARGE COEF. FOR GATE FLOW		CG	0.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CW	2500.00
DISCHARGE THRU TURBINES	CFS	QT	0.00

DAT(INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = 10.00 HRS.

TEM(TIME AT WHICH COMPUTATIONS TERMINATE) = 10.0000 HRS.

INFLOW HYDROGRAPH TO GOOSE PONI LAKE DAM

1960.00

TIME OF INFLOW HYDROGRAPH ORDINATES

0.0000

CROSS-SECTIONAL PARAMETERS FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	9
MAXIMUM NUMBER OF TOP WIDTHS	NCS	5
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	3
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	ONR	0
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	3
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPL	0
NO. OF LATERAL INFLOW HYDROGRAPHS	NLI	[illegible]
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
MAX NUMBER OF HYDROGRAPHS = 6.

[illegible] 5 9

CROSS-SECTIONAL VARIABLES FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	UNITS	VARIABLE
LOCATION OF CROSS-SECTION	MI	XSMI
ELEVATION MSL OF FLOODING AT CROSS-SECTION	FT	ESTG [illegible]
ELEV CORRESPONDING TO EACH TOP WIDTH	FT	ES [illegible]
TOP WIDTH CORRESPONDING TO EACH ELEV (ACTIVE FLOW PORTION)	FT	BE [illegible]
TOP WIDTH CORRESPONDING TO EACH ELEV (OFF-CHANNEL PORTION)	FT	BEB [illegible]
SURFACE AREA CORRESPONDING TO EACH ELEV (ACTIVE FLOW PORTION)	ACRES	[illegible]
SURFACE AREA CORRESPONDING TO EACH ELEV (OFF-CHANNEL PORTION)	ACRES	ESA [illegible]
NUMBER OF CROSS-SECTION		[illegible]
NUMBER OF ELEVATION LEVEL		[illegible]

CROSS-SECTION NUMBER 1

XS(I) = .050 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	807.0	816.0	821.0	826.0	831.0	836.0	841.0	846.0
BS ...	33.0	340.0	595.0	893.0	1165.0	1314.0	1420.0	1516.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 2

XS(I) = .500 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	804.0	810.0	815.0	820.0	825.0	830.0	835.0	840.0
BS ...	30.0	336.0	683.0	980.0	1047.0	1115.0	1181.0	1250.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 3

XS(I) = 1.000 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	801.0	810.0	815.0	820.0	825.0	830.0	835.0	840.0
BS ...	30.0	343.0	571.0	780.0	1171.0	1565.0	1957.0	2350.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 4

XS(I) = 1.800 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	801.0	807.0	812.0	817.0	822.0	827.0	832.0	837.0
BS ...	30.0	249.0	720.0	990.0	1410.0	1590.0	2130.0	2380.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 5
****

XS(I) = 2.250 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	797.0	810.0	815.0	820.0	825.0	830.0	835.0	840.0
BS ...	30.0	530.0	1100.0	1600.0	2000.0	2660.0	2990.0	3120.0
BSS ...	0.0	900.0	915.0	1000.0	730.0	560.0	0.0	0.0

CROSS-SECTION NUMBER 6
****

XS(I) = 3.000 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	793.0	804.0	810.0	815.0	822.0	828.0	834.0	840.0
BS ...	30.0	725.0	1100.0	1610.0	2000.0	2460.0	2900.0	3330.0
BSS ...	0.0	3400.0	4187.0	4600.0	5065.0	5007.0	5008.0	5000.0

CROSS-SECTION NUMBER 7
****

XS(I) = 4.000 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	797.0	797.0	804.0	811.0	818.0	825.0	832.0	840.0
BS ...	30.0	384.0	604.0	781.0	898.0	1557.0	1931.0	2390.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 8
****

XS(I) = 5.000 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	794.0	798.0	800.0	808.0	816.0	824.0	832.0	840.0
BS ...	30.0	275.0	500.0	1352.0	1984.0	2762.0	3090.0	3400.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 5

XS(I) = 5.600 FETS I = 0.00 XEL I = 0.0 XSR(I) = 0.0

HS ...	781.0	799.0	797.0	805.0	813.0	821.0	829.0	837.0
BS ...	30.0	250.0	450.0	1200.0	1800.0	2200.0	3000.0	3200.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
CM(N,I) WHERE I = REACH NUMBER

REACH 1 ...	.040	.050	.060	.070	.080	.090	.100	.110
REACH 2 ...	.040	.050	.060	.070	.080	.090	.100	.110
REACH 3 ...	.040	.050	.060	.070	.080	.090	.100	.110
REACH 4 ...	.040	.050	.060	.070	.080	.090	.100	.110
REACH 5 ...	.040	.050	.060	.070	.080	.090	.100	.110
REACH 6 ...	.040	.045	.050	.055	.060	.070	.080	.100
REACH 7 ...	.040	.050	.060	.070	.080	.090	.100	.110
REACH 8 ...	.040	.050	.060	.070	.080	.090	.100	.110

CROSS-SECTIONAL VARIABLES FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER UNITS VARIABLE

MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MI	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FKC(I)

REACH NUMBER	DXM(I)	FKC(I)
1	.100	0.000
2	.100	0.000
3	.100	0.000
4	.100	0.000
5	.100	0.000
6	.100	0.000
7	.100	0.000
8	.100	0.000

DOWNSTREAM FLOW PARAMETERS FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM BOUNDARY	CFS	QMAXD	0.0
MAX LATERAL INFLOW PER DOWNSTREAM REACH	CFS/FT	QLL	0.000
INITIAL SIZE OF TIME STEP	HR	DTHM	0.0000
INITIAL WATER SURFACE ELEVATION DOWNSTREAM	FT	HDN	784.50
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FT/MI	SDM	10.00
THETA WEIGHTING FACTOR		THETA	0.00
CONVERGENCE CRITERION FOR STAGE	FT	EPSH	0.000
TIME AT WHICH DAM STARTS TO FAIL	HR	TFI	0.00

LATERAL INFLOW REACH NUMBER

LGT(I)

5

VALUE OF INTERPOLATION
2025.

TOTAL VOLUME IN RESERVOIR BEHIND
GOOSE POND LAKE DAM = 13073.6 ACRE-FEET

DEFINITION OF VARIABLES IN RESERVOIR DEPLETION TABLE

PARAMETER	UNITS	VARIABLE
TIME STEP FROM START OF ANALYSIS		I
ITERATIONS NECESSARY TO SOLVE FLOW EQUATIONS		K
ELAPSED TIME FROM START OF ANALYSIS	HRS	TTP(I)
TOTAL OUTFLOW FROM DAM	CFS	Q(I)
ELEVATION OF WATER SURFACE AT DAM	FT	H2
ELEVATION OF BOTTOM OF BREACH	FT	V2
DST DEPTH OF FLOW IMMEDIATELY DOWNSTREAM	FT	D
SUBMERGENCE COEFFICIENT		SUB
VELOCITY CORRECTION		VCOR
TOTAL VOLUME DISCHARGED FROM TIME OF BREACH A HRS		OUTVOL
BREACH WIDTH FT	B2	
RECTANGULAR BREACH DISCHARGE COEFFICIENT		CDFR
INFLOW TO RESERVOIR	CFS	Q(I)
BREACH OUTFLOW	CFS	QBRECH
SPILLWAY OUTFLOW	CFS	QSPIL

RESERVOIR DEPLETION TABLE

I	K	TTP(I)	Q(I)	H2	V2	D	SUB	VCOR	OUTVOL	B2	CDFR	Q(I)	QBRECH	QSPIL
***	**	******	********	*******	*******	*******	****	****	*********	****	****	*****	******	*****
1	0	0.000	2019	827.50	827.50	812.43	1.00	1.00	0.0	0.0	3.10	1960.	0.	2020.
2	1	.020	2021	827.50	827.02	812.43	1.00	1.00	3.3	1.2	3.10	1960.	1.	2020.
3	1	.040	2027	827.50	826.54	812.43	1.00	1.00	6.7	2.4	3.10	1960.	8.	2020.
4	1	.060	2041	827.50	826.06	812.45	1.00	1.00	10.0	3.6	3.10	1960.	22.	2019.
5	1	.080	2064	827.50	825.58	812.48	1.00	1.00	13.4	4.8	3.10	1960.	46.	2019.
6	1	.100	2098	827.50	825.10	812.52	1.00	1.00	16.9	6.0	3.10	1960.	80.	2019.
7	1	.120	2144	827.50	824.62	812.58	1.00	1.00	20.4	7.2	3.10	1960.	126.	2018.
8	1	.140	2203	827.50	824.14	812.64	1.00	1.00	24.0	8.4	3.10	1960.	186.	2018.
9	1	.160	2275	827.50	823.66	812.73	1.00	1.00	27.7	9.6	3.10	1960.	259.	2017.
10	1	.180	2363	827.50	823.18	812.83	1.00	1.00	31.5	10.8	3.10	1960.	348.	2016.

11	1	.200	2467	827.50	822.70	812.94	1.00	1.00	35.5	12.0	3.10	1960.	452.	2015.
12	1	.220	2586	827.49	822.22	813.07	1.00	1.00	39.7	13.2	3.10	1960.	574.	2013.
13	1	.240	2724	827.49	821.74	813.21	1.00	1.00	44.1	14.4	3.10	1960.	713.	2011.
14	1	.260	2879	827.49	821.26	813.37	1.00	1.00	48.7	15.6	3.10	1960.	871.	2009.
15	1	.280	3053	827.49	820.78	813.54	1.00	1.00	53.6	16.8	3.10	1960.	1048.	2006.
16	1	.300	3247	827.49	820.30	813.73	1.00	1.00	58.8	18.0	3.10	1960.	1245.	2002.
17	1	.320	3460	827.48	819.82	813.92	1.00	1.00	64.4	19.2	3.10	1960.	1462.	1999.
18	1	.340	3694	827.48	819.34	814.13	1.00	1.00	70.3	20.4	3.10	1960.	1700.	1994.
19	1	.360	3948	827.47	818.86	814.35	1.00	1.00	76.5	21.6	3.10	1960.	1960.	1989.
20	1	.380	4225	827.47	818.38	814.57	1.00	1.00	83.3	22.8	3.10	1960.	2242.	1983.
21	1	.400	4523	827.46	817.90	814.81	1.00	1.00	90.6	24.0	3.10	1960.	2548.	1976.
22	1	.420	4844	827.46	817.42	815.05	1.00	1.00	98.3	25.2	3.10	1960.	2876.	1968.
23	1	.440	5188	827.45	816.94	815.31	1.00	1.00	106.5	26.4	3.10	1960.	3228.	1960.
24	1	.460	5555	827.44	816.46	815.59	1.00	1.00	115.5	27.6	3.10	1960.	3605.	1950.
25	1	.480	5945	827.43	815.98	815.87	1.00	1.00	125.0	28.8	3.10	1960.	4006.	1940.
26	1	.500	6362	827.42	815.50	816.19	1.00	1.00	135.1	30.0	3.10	1960.	4431.	1928.
27	1	.520	6799	827.41	815.02	816.51	1.00	1.00	146.2	31.2	3.10	1960.	4884.	1915.
28	1	.540	7262	827.40	814.54	816.86	1.00	1.00	157.7	32.4	3.10	1960.	5362.	1901.
29	1	.560	7751	827.39	814.06	817.19	1.00	1.00	170.1	33.6	3.10	1960.	5866.	1886.
30	1	.580	8265	827.37	813.58	817.53	1.00	1.00	183.3	34.8	3.10	1960.	6396.	1869.
31	1	.600	8804	827.36	813.10	817.86	1.00	1.00	197.4	36.0	3.10	1960.	6954.	1851.
32	1	.620	9369	827.34	812.62	818.20	1.00	1.00	212.4	37.2	3.10	1960.	7538.	1831.
33	1	.640	9960	827.33	812.14	818.53	1.00	1.00	228.4	38.4	3.10	1960.	8150.	1810.
34	1	.660	10577	827.30	811.66	818.87	1.00	1.00	245.4	39.6	3.10	1960.	8790.	1788.
35	1	.680	11220	827.28	811.18	819.20	1.00	1.00	263.4	40.8	3.10	1960.	9457.	1764.
36	1	.700	11890	827.26	810.70	819.53	1.00	1.00	282.5	42.0	3.10	1960.	10150.	1738.
37	1	.720	12587	827.24	810.22	819.87	1.00	1.00	302.7	43.2	3.10	1960.	10877.	1710.
38	1	.740	13310	827.21	809.74	820.21	1.00	1.40	324.1	44.4	3.10	1960.	11629.	1681.
39	1	.760	14060	827.19	809.26	820.54	1.00	1.00	346.8	45.6	3.10	1960.	12410.	1650.
40	1	.780	14836	827.16	808.78	820.88	1.70	1.40	370.6	46.8	3.10	1960.	13220.	1617.
41	1	.800	15638	827.12	808.30	821.16	1.00	1.00	395.8	48.0	3.10	1960.	14057.	1582.
42	1	.820	16465	827.09	807.82	821.64	1.00	1.00	422.3	49.2	3.10	1960.	14888.	1545.
43	1	.840	17185	827.06	807.34	821.99	.99	1.00	450.1	50.4	3.10	1960.	15679.	1507.
44	1	.860	17879	827.02	806.86	822.27	.98	1.00	479.1	51.6	3.10	1960.	16412.	1467.
45	1	.880	18514	826.98	806.38	822.51	.96	1.00	509.2	52.8	3.10	1960.	17089.	1426.
46	1	.900	19095	826.94	805.90	822.72	.94	1.00	540.3	54.0	3.10	1960.	17713.	1383.
47	1	.920	19617	826.90	805.42	822.91	.92	1.00	572.1	55.2	3.10	1960.	18279.	1340.
48	1	.940	20109	826.86	804.94	823.06	.89	1.00	605.1	56.4	3.10	1960.	18814.	1296.
49	1	.960	20564	826.81	804.46	823.20	.87	1.00	638.7	57.6	3.10	1960.	19314.	1251.
50	1	.982	20966	826.77	803.98	823.21	.84	1.00	677.0	58.8	3.10	1960.	19761.	1205.

RESERVOIR DEPLETION TABLE

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
91	1	1.000	21153	826.73	803.50	823.42	.81	1.00	737.9	60.0	3.10	1960.	20104.	1160.
92	1	1.020	21160	826.68	803.50	823.39	.81	1.00	743.0	60.0	3.10	1960.	20045.	1115.
93	1	1.040	21051	826.64	803.50	823.35	.81	1.00	777.9	60.0	3.10	1960.	19991.	1070.
94	1	1.060	22944	826.59	803.50	823.31	.82	1.00	812.6	60.0	3.10	1960.	19918.	1025.
95	1	1.080	20638	826.55	803.50	823.27	.82	1.00	847.1	60.0	3.10	1960.	19855.	984.
96	1	1.100	20731	826.50	803.50	823.23	.82	1.00	881.5	60.0	3.10	1960.	19791.	941.
97	1	1.120	20619	826.46	803.50	823.19	.82	1.00	915.6	60.0	3.10	1960.	19719.	900.
98	1	1.140	20525	826.41	803.50	823.15	.82	1.00	949.7	60.0	3.10	1960.	19666.	860.
99	1	1.160	20423	826.37	803.50	823.11	.82	1.00	983.5	60.0	3.10	1960.	19600.	820.
100	1	1.180	20323	826.33	803.50	823.08	.82	1.00	1017.1	60.0	3.10	1960.	19541.	782.
101	1	1.200	20223	826.28	803.50	823.04	.82	1.00	1050.7	60.0	3.10	1960.	19482.	744.
102	1	1.220	20124	826.24	803.50	823.01	.82	1.00	1084.0	60.0	3.10	1960.	19418.	707.
103	1	1.240	20027	826.20	803.50	822.97	.82	1.00	1117.1	60.0	3.10	1960.	19357.	670.
104	1	1.260	19930	826.16	803.50	822.94	.82	1.00	1150.2	60.0	3.10	1960.	19296.	635.
105	1	1.280	19835	826.11	803.50	822.90	.82	1.00	1183.1	60.0	3.10	1960.	19235.	600.
106	1	1.300	19740	826.07	803.50	822.86	.82	1.00	1215.8	60.0	3.10	1960.	19174.	566.
107	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

66	1	1.300	19745	826.27	803.50	821.86	.81	1.00	[illegible]	60.0	3.10	1960.	19745.	566.
67	1	1.320	19647	826.22	803.50	821.80	.81	1.00	1240.4	60.0	3.10	1960.	19114.	533.
68	1	1.340	19554	825.95	803.50	821.79	.81	1.00	1290.9	60.0	3.10	1960.	19054.	501.
69	1	1.360	19463	825.85	803.50	821.76	.81	1.00	1343.2	60.0	3.10	1960.	18994.	470.
70	1	1.380	19373	825.80	803.50	821.71	.81	1.00	1345.1	60.0	3.10	1960.	18934.	439.
71	1	1.400	19283	825.86	803.50	821.69	.81	1.00	1377.1	60.0	3.10	1960.	18874.	410.
72	1	1.420	19195	825.82	803.50	821.65	.81	1.00	1408.5	60.0	3.10	1960.	18815.	381.
73	1	1.440	19108	825.75	803.50	821.62	.81	1.00	1440.5	60.0	3.10	1960.	18755.	353.
74	1	1.460	19021	825.74	803.50	821.59	.81	1.00	1471.0	60.0	3.10	1960.	18696.	325.
75	1	1.480	18936	825.70	803.50	821.55	.81	1.00	1503.4	60.0	3.10	1960.	18637.	299.
76	1	1.500	1885.	825.66	803.50	821.52	.81	1.00	1534.6	60.0	3.10	1960.	18578.	274.
77	1	1.520	18768	825.61	803.50	821.48	.81	1.00	1565.7	60.0	3.10	1960.	18519.	248.
78	1	1.540	18685	825.58	803.50	821.45	.81	1.00	1596.7	60.0	3.10	1960.	18461.	225.
79	1	1.560	18604	825.54	803.50	821.42	.81	1.00	1627.5	60.0	3.10	1960.	18401.	202.
80	1	1.580	18523	825.50	803.50	821.39	.81	1.00	1658.1	60.0	3.10	1960.	18343.	180.
81	1	1.600	18444	825.46	803.50	821.35	.81	1.00	1688.7	60.0	3.10	1960.	18285.	160.
82	1	1.620	18365	825.42	803.50	821.32	.81	1.00	1719.1	60.0	3.10	1960.	18226.	140.
83	1	1.640	18288	825.38	803.50	821.29	.81	1.00	1749.4	60.0	3.10	1960.	18167.	121.
84	1	1.660	18211	825.34	803.50	821.26	.81	1.00	1779.6	60.0	3.10	1960.	18109.	103.
85	1	1.680	18135	825.30	803.50	821.23	.81	1.00	1809.6	60.0	3.10	1960.	18050.	86.
86	1	1.700	18061	825.27	803.50	821.20	.81	1.00	1839.6	60.0	3.10	1960.	17991.	70.
87	1	1.720	17987	825.23	803.50	821.16	.81	1.00	1869.3	60.0	3.10	1960.	17932.	55.
88	1	1.740	17914	825.19	803.50	821.13	.81	1.00	1899.0	60.0	3.10	1960.	17873.	41.
89	1	1.760	17843	825.15	803.50	821.10	.81	1.00	1928.6	60.0	3.10	1960.	17812.	30.
90	1	1.780	17772	825.11	803.50	821.07	.81	1.00	1958.0	60.0	3.10	1960.	17753.	19.
91	1	1.800	17703	825.07	803.50	821.04	.81	1.00	1987.3	60.0	3.10	1960.	17693.	10.
92	1	1.820	17635	825.04	803.50	821.02	.81	1.00	2016.5	60.0	3.10	1960.	17631.	4.
93	1	1.840	17569	825.00	803.50	821.99	.81	1.00	2045.6	60.0	3.10	1960.	17570.	0.
94	1	1.860	17505	824.96	803.50	821.96	.81	1.00	2074.6	60.0	3.10	1960.	17505.	0.
95	1	1.880	17441	824.92	803.50	821.93	.81	1.00	2103.5	60.0	3.10	1960.	17441.	0.
96	1	1.900	17378	824.89	803.50	821.91	.81	1.00	2132.3	60.0	3.10	1960.	17378.	0.
97	1	1.920	17316	824.85	803.50	821.88	.81	1.00	2160.9	60.0	3.10	1960.	17315.	0.
98	1	1.940	17252	824.81	803.50	821.85	.81	1.00	2189.5	60.0	3.10	1960.	17253.	0.
99	1	1.960	17190	824.79	803.50	821.82	.81	1.00	2218.0	60.0	3.10	1960.	17190.	0.
100	1	1.980	17128	824.74	803.50	821.80	.81	1.00	2246.3	60.0	3.10	1960.	17128.	0.

[illegible] DEPLETION TABLE

I	J	TTS II	QII	HI	VB	D	SOS	VOVS	VOVVOL	BB	IOFF	DII	QBSOH	DSTL
101	1	1.920	17267	824.70	803.50	821.77	.80	1.00	2274.6	60.0	3.10	1960.	17267.	0.
102	1	1.940	17206	824.67	803.50	821.74	.80	1.00	2301.8	60.0	3.10	1960.	17206.	0.
103	1	1.961	16940	824.63	803.50	821.71	.80	1.00	2333.6	60.0	3.10	1960.	16941.	0.
104	1	1.966	16867	824.59	803.50	821.68	.80	1.00	2367.4	60.0	3.10	1960.	16869.	0.
105	1	1.993	16789	824.57	803.50	821.65	.80	1.00	2404.4	60.0	3.10	1960.	16788.	0.
106	1	2.122	16701	824.49	803.50	821.61	.80	1.00	2445.0	60.0	3.10	1960.	16701.	0.
107	1	2.154	16606	824.43	803.50	821.56	.80	1.00	2489.3	60.0	3.10	1960.	16607.	0.
108	1	2.190	16504	824.36	803.50	821.52	.80	1.00	2537.8	60.0	3.10	1960.	16504.	0.
109	1	2.229	16392	824.29	803.50	821.46	.80	1.00	2590.8	60.0	3.10	1960.	16392.	0.
110	1	2.272	16270	824.21	803.50	821.41	.80	1.00	2648.6	60.0	3.10	1960.	16271.	0.
111	1	2.319	16138	824.14	803.50	821.35	.80	1.00	2711.8	60.0	3.10	1960.	16139.	0.
112	1	2.371	15996	824.05	803.50	821.28	.79	1.00	2780.7	60.0	3.10	1960.	15996.	0.
113	1	2.428	15841	823.95	803.50	821.20	.79	1.00	2855.7	60.0	3.10	1960.	15842.	0.
114	1	2.490	15675	823.84	803.50	821.12	.79	1.00	2937.5	60.0	3.10	1960.	15675.	0.
115	1	2.559	15495	823.73	803.50	821.03	.79	1.00	3026.4	60.0	3.10	1960.	15496.	0.
116	2	2.635	15264	823.60	803.50	820.93	.79	1.00	3123.0	60.0	3.10	1960.	15265.	0.
117	2	2.719	15027	823.46	803.50	820.83	.78	1.00	3227.5	60.0	3.10	1960.	15027.	0.
118	2	2.811	14771	823.31	803.50	820.73	.78	1.00	3340.7	60.0	3.10	1960.	14771.	0.
119	2	2.912	14496	823.15	803.50	820.61	.77	1.00	3463.0	60.0	3.10	1960.	14497.	0.
120	2	3.023	14203	822.98	803.50	820.49	.77	1.00	3594.8	60.0	3.10	1960.	14203.	0.
121	2	3.145	13890	822.79	803.50	820.35	.76	1.00	3736.8	60.0	3.10	1960.	13890.	0.
122	2	3.280	13589	822.59	803.50	820.21	.76	1.00	3889.6	60.0	3.10	1960.	13590.	0.

123	2	3.428	13237	822.38	803.50	820.05	.75	1.00	4053.7	60.0	3.10	1960.	13237.	0.
124	2	3.591	12864	822.15	803.50	819.88	.75	1.00	4229.3	60.0	3.10	1960.	12865.	0.
125	2	3.770	12472	821.90	803.50	819.70	.74	1.00	4416.8	60.0	3.10	1960.	12472.	0.
126	2	3.967	12060	821.64	803.50	819.51	.73	1.00	4616.5	60.0	3.10	1960.	12060.	0.
127	2	4.184	11630	821.36	803.50	819.30	.73	1.00	4828.6	60.0	3.10	1960.	11630.	0.
128	2	4.422	11183	821.06	803.50	819.07	.72	1.00	5053.3	60.0	3.10	1960.	11183.	0.
129	2	4.684	10721	820.75	803.50	818.84	.71	1.00	5290.7	60.0	3.10	1960.	10722.	0.
130	2	4.973	10247	820.42	803.50	818.59	.70	1.00	5540.6	60.0	3.10	1960.	10247.	0.
131	2	5.290	9763	820.08	803.50	818.32	.69	1.00	5802.9	60.0	3.10	1960.	9763.	0.
132	2	5.639	9271	819.72	803.50	818.05	.68	1.00	6077.4	60.0	3.10	1960.	9272.	0.
133	2	6.023	8776	819.35	803.50	817.76	.66	1.00	6363.7	60.0	3.10	1960.	8777.	0.
134	2	6.445	8248	818.96	803.50	817.45	.65	1.00	6660.8	60.0	3.10	1960.	8248.	0.
135	2	6.910	7763	818.57	803.50	817.14	.64	1.00	6968.1	60.0	3.10	1960.	7764.	0.
136	1	7.420	7315	818.16	803.50	816.82	.63	1.00	7286.5	60.0	3.10	1960.	7316.	0.
137	1	7.982	6845	817.75	803.50	816.48	.61	1.00	7615.4	60.0	3.10	1960.	6845.	0.
138	1	8.601	6390	817.33	803.50	816.14	.60	1.00	7952.5	60.0	3.10	1960.	6390.	0.
139	1	9.281	5924	816.91	803.50	815.79	.59	1.00	8299.6	60.0	3.10	1960.	5924.	0.
140	1	10.025	5456	816.50	803.50	815.45	.57	1.00	8651.4	60.0	3.10	1960.	5457.	0.

PARAMETER	UNITS	VARIABLE	VALUE
INITIAL FLOW	CFS	[illegible]	2020.
MAX FLOW	CFS	QM	21364.
FINAL FLOW	CFS	[illegible]	5457.
TIME TO MAX FLOW	HRS	TP	1.00
NUMBER OF TIME STEPS		NTS	140
TOTAL VOLUME DISCHARGED FROM RESERVOIR	AC-FT	DISVOL	8651.

RESERVOIR AND BREACH PARAMETERS FOR DAM
DOWNSTREAM FROM [illegible] FINAL LAKE DAM

PARAMETER	UNITS	VARIABLE	VALUE
SIDE SLOPE OF BREACH		Z	0.00
ELEVATION OF BOTTOM OF BREACH	FT	[illegible]	0.00
WIDTH OF BASE OF BREACH	FT	BW	0.00
TIME TO MAXIMUM BREACH SIZE	HR	TFAIL	10.00
ELEVATION OF WATER WHEN BREACHED	FT	WSF	10.00
ELEVATION OF TOP OF DAM	FT	HD	800.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FT	HSP	795.00

ELEVATION OF UNCONTROLLED SPILLWAY CREST	F	HS	785.00
ELEVATION OF CENTER OF GATE OPENINGS	FT	HT	0.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	335.00
DISCHARGE COEF. FOR GATE FLOW		CG	0.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	2500.00
DISCHARGE THRU TURBINES	CFS	QT	0.00

INITIAL CONDITIONS FOR GORGE FAIL BRANCH
YELLOW GORGE FAIL LAKE DAM

PARAMETER	UNITS	VARIABLE	VALUE
CRITICAL DEPTH OF UPSTREAM FLOWS	FT	YCRSH	0.00
SLOPE OF DOWNSTREAM CHANNEL	FT/MI	SLOP	10.0000
AVE MANNINGS N FOR DOWNSTREAM CHANNEL		CMN	.0600
NUMBER OF INTERMEDIATE STATIONS		NNINST	25
NUMBER OF TIME STEPS		NNU	140

TIME PARAMETERS OF OUTFLOW HYDROGRAPH IMMEDIATELY DOWNSTREAM OF DAM

PARAMETER	UNITS	VARIABLE	VALUE
TIME TO FAILURE	HR	TFAIL	.000
TIME TO START OF RISING LIMB OF HYDROGRAPH	HR	TH	0.000
TIME TO PEAK	HR	TP	.000
TIME STEP SIZE	HR	DTHT	.250

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	V2	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
25	1	0.000	8244.9	794.61	10.00	790.56	1.00	0.0	.0	2019.9	0.0	8211.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	V2	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
26	0	0.000	8244.9	794.61	10.00	788.55	.07	0.0	.0	2019.9	0.0	8219.0

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
29	1	9.950	15263.7	798.99	0.00	799.12	.07	10576.2	.0	5505.9	48.7	15215.0

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
29	1	10.000	15235.3	798.97	0.00	799.09	.07	10639.2	.0	5474.6	48.7	15186.7

ROUTING COMPLETED.

*TIME=207 ALLOWABLE *TIME= 699 TT= 10.0

PROFILE OF CRESTS AND TIMES FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

RVR MILE FROM DAM	MAX ELEV (FT)	MAX FLOW (CFS)	TIME MAX ELEV(HR)	MAX VEL (FT/SEC)	MAX VEL (MI/HR)	FLOOD ELEV (FT)	TIME FLOOD ELEV (HR)
.050	822.31	21262	1.650	4.49	3.06	0.00	0.00
.163	821.99	20591	1.850	4.14	2.83	0.00	0.00
.275	821.37	19851	2.000	3.69	2.51	0.00	0.00
.388	820.91	19071	2.050	3.13	2.13	0.00	0.00
.500	820.10	18311	2.100	2.49	1.69	0.00	0.00
.600	820.33	17771	2.150	2.39	1.63	0.00	0.00
.700	820.03	17420	2.200	2.79	1.63	0.00	0.00
.800	819.71	17178	2.200	2.41	1.65	0.00	0.00
.900	819.75	17004	2.750	2.52	1.72	0.00	0.00
1.000	818.97	16871	2.300	2.66	1.81	0.00	0.00
1.200	818.15	16668	2.400	2.63	1.80	0.00	0.00
1.400	817.23	16510	2.500	2.65	1.81	0.00	0.00
1.600	816.17	16367	2.600	2.75	1.87	0.00	0.00
1.800	814.88	16217	2.750	2.96	2.02	0.00	0.00
2.025	813.04	15961	3.000	3.39	2.31	0.00	0.00
2.250	811.19	15679	3.250	3.61	2.46	0.00	0.00
2.500	809.09	21525	4.300	4.45	3.04	0.00	0.00
2.750	807.88	20735	5.150	3.80	2.59	0.00	0.00
3.000	807.34	19253	5.600	2.74	1.87	0.00	0.00
3.200	807.09	17923	5.700	2.49	1.70	0.00	0.00
3.400	806.84	16915	5.800	2.33	1.58	0.00	0.00
3.600	806.58	16370	5.850	2.21	1.51	0.00	0.00
3.800	806.28	16170	5.900	2.31	1.58	0.00	0.00
4.000	805.91	16101	7.000	2.56	1.75	0.00	0.00
4.332	804.90	16050	7.100	2.55	1.74	0.00	0.00
4.667	803.76	16007	7.200	2.53	1.76	0.00	0.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

PROFILE OF CRESTS AND TIMES FOR GOOSE POND BROOK
BELOW GOOSE POND DA

RVR MILE FROM DAM	MAX ELEV (FT)	MAX FLOW (CFS)	TIME MAX ELEV(HR)	MAX VEL (FT/SEC)	MAX VEL (MI/HR)	FLOOD ELEV (FT)	TIME FLOOD ELEV (HR)
0.050	823.06	22623	1.700	4.57	3.11	0.00	0.00
0.162	822.25	21561	1.850	4.18	2.85	0.00	0.00
0.275	821.63	20812	2.000	3.90	2.66	0.00	0.00
0.387	821.17	19833	2.050	3.30	2.25	0.00	0.00
0.500	820.85	18966	2.100	2.50	1.70	0.00	0.00
0.600	820.59	18400	2.150	2.41	1.65	0.00	0.00
0.700	820.21	18042	2.200	2.40	1.64	0.00	0.00
0.800	819.96	17800	2.250	2.45	1.67	0.00	0.00
0.900	819.61	17630	2.250	2.55	1.74	0.00	0.00
1.000	819.21	17503	2.300	2.67	1.82	0.00	0.00
1.200	818.33	17298	2.400	2.65	1.81	0.00	0.00
1.400	817.45	17133	2.500	2.69	1.83	0.00	0.00
1.600	816.39	16979	2.600	2.77	1.89	0.00	0.00
1.800	815.19	16821	2.800	2.97	2.02	0.00	0.00
2.025	813.31	16555	3.000	3.35	2.29	0.00	0.00
2.250	811.51	16253	3.350	3.55	2.45	0.00	0.00
2.500	809.76	22003	5.800	4.34	2.96	0.00	0.00
2.750	808.93	21040	6.750	3.53	2.40	0.00	0.00
3.000	808.55	19315	7.050	2.45	1.67	0.00	0.00
3.200	808.39	17826	7.150	2.18	1.49	0.00	0.00
3.400	808.21	16842	7.200	1.95	1.33	0.00	0.00
3.600	808.02	16403	7.300	1.90	1.29	0.00	0.00
3.800	807.81	16241	7.350	1.99	1.36	0.00	0.00
4.000	807.55	16180	7.350	2.20	1.50	0.00	0.00
4.333	806.83	16129	7.500	2.08	1.42	0.00	0.00
4.667	806.19	16082	7.600	1.96	1.33	0.00	0.00
5.000	805.46	16044	7.700	1.83	1.25	0.00	0.00
5.300	804.84	16022	7.750	1.74	1.19	0.00	0.00
5.600	804.23	16014	7.750	1.66	1.13	0.00	0.00

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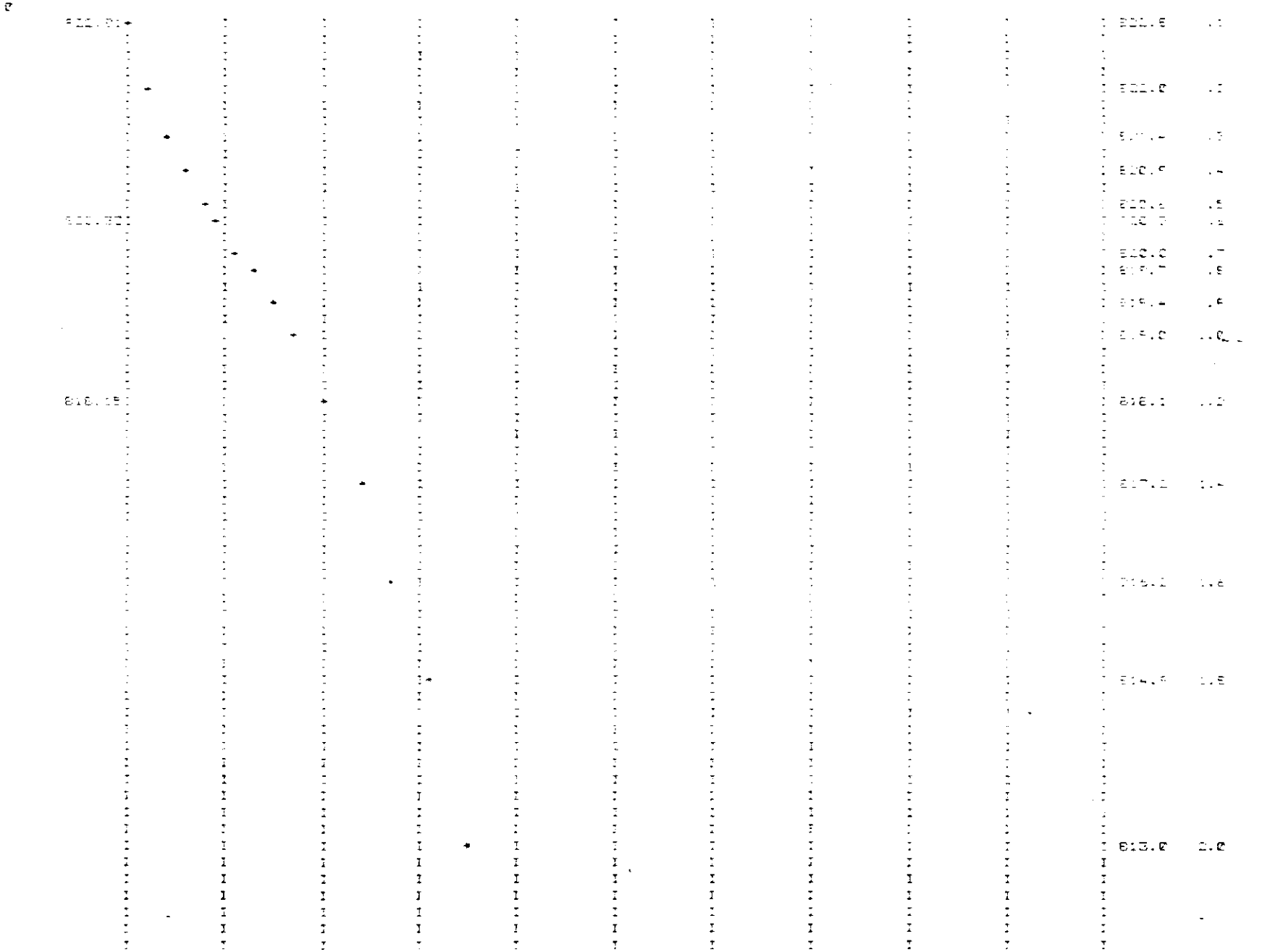
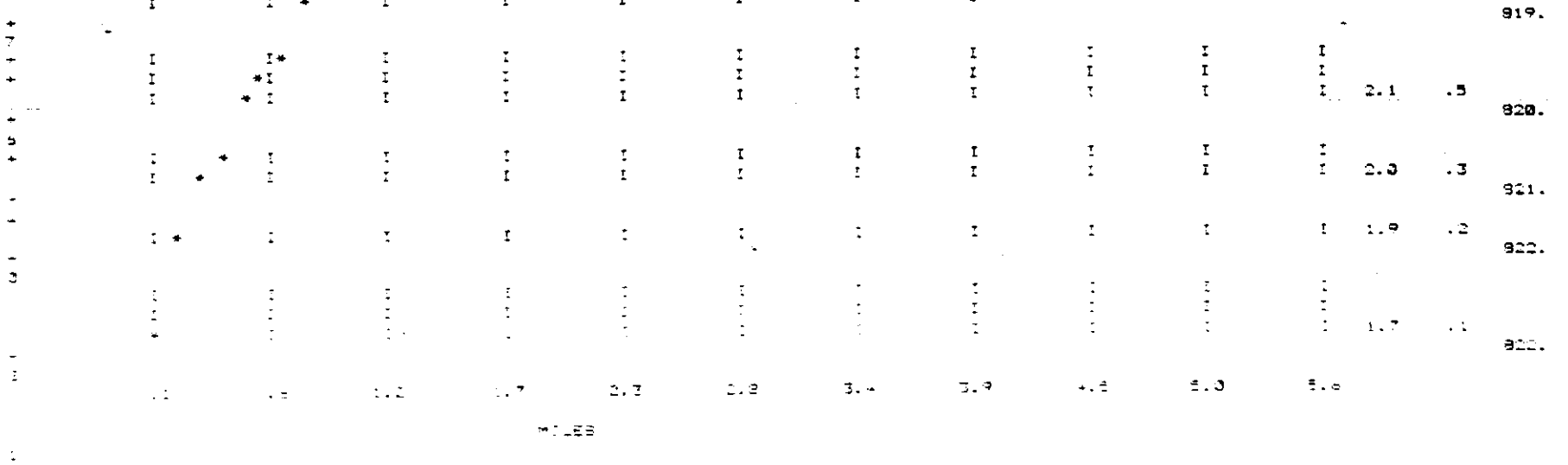
CORRECTED MARCH 86

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.00	0.00
5.000	801.41	[illegible]	7.000	[illegible]	[illegible]	0.00	0.00
5.500	801.00	[illegible]	7.400	[illegible]	[illegible]	0.00	0.00
5.600	795.41	[illegible]	7.500	[illegible]	[illegible]	0.00	0.00

PEAK ELEVATION PROFILE

MILES

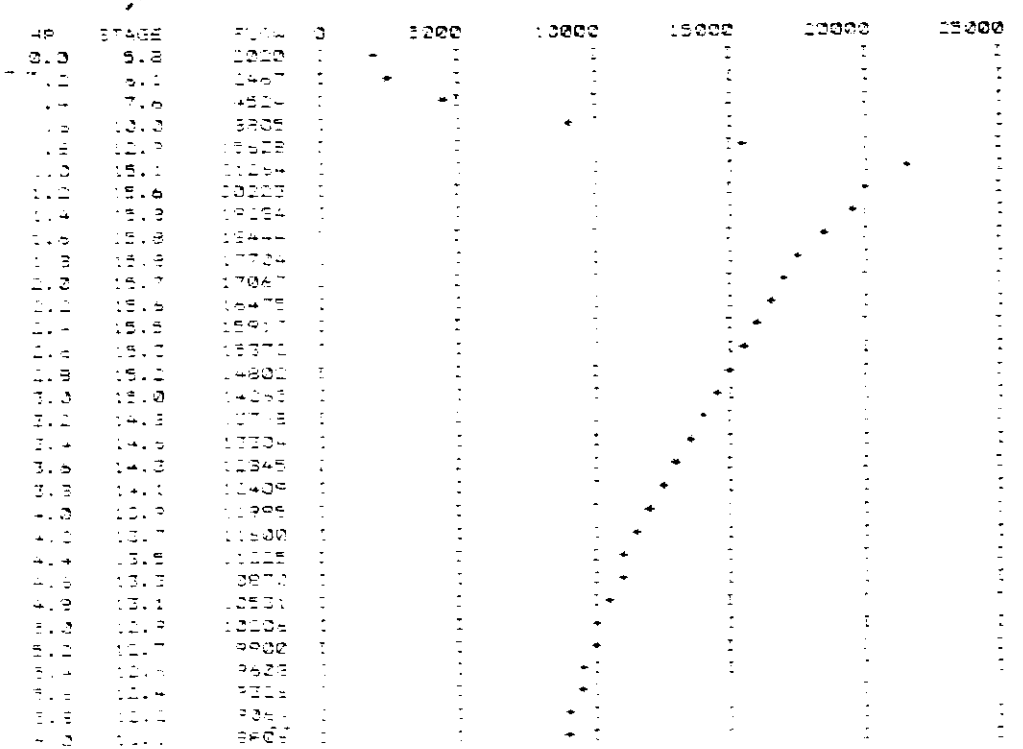




HYDROGRAPH FOR GOOSE POND BROOK ... STATION NUMBER 1
BELOW GOOSE POND LAKE DAM AT MILE .25

BASE ZERO = 807.00 MAX ELEVATION REACHED BY FLOOD WATER = 822.81
FLOOD STAGE NOT AVAILABLE
MAX STAGE = 15.81 AT TIME = 1.650 HOURS
MAX FLOW = 21264 AT TIME = 1.300 HOURS

HR	STAGE	FLOW
0.0	5.8	2050
0.2	6.1	2467
0.4	7.6	4524
0.6	10.0	8805
0.8	12.9	15628
1.0	15.1	21264
1.2	15.6	20223
1.4	15.9	19194
1.6	15.8	18444
1.8	15.8	17724
2.0	15.7	17067
2.2	15.6	16475
2.4	15.5	15917
2.6	15.2	15371
2.8	15.2	14802
3.0	15.0	14253
3.2	14.8	13718
3.4	14.6	13204
3.6	14.3	12845
3.8	14.1	12409
4.0	13.9	11995
4.2	13.7	11600
4.4	13.5	11225
4.6	13.3	10870
4.8	13.1	10531
5.0	12.9	10206
5.2	12.7	9900
5.4	12.6	9623
5.6	12.4	9356
5.8	12.2	9096
6.0	12.1	8845



[illegible]	[illegible]	[illegible]
6.0	11.[illegible]	8806
6.2	11.9	8355
6.4	11.7	8304
6.6	11.6	8096
6.8	11.4	7875
7.0	11.3	7684
7.2	11.2	7505
7.4	11.0	7334
7.6	10.9	7166
7.8	10.8	6998
8.0	10.7	6832
8.2	10.5	6685
8.4	10.4	6538
8.6	10.3	6391
8.8	10.2	6254
9.0	10.1	[illegible]
9.2	10.0	5980
9.4	9.9	5850
9.6	9.8	5725
9.8	9.7	5600

* DISCHARGE HYDROGRAPH FOR GOOSE POND [illegible] ... STATION NUMBER [illegible]
BELOW GOOSE POND LAKE DAM AT MILE 3.00

GAGE ZERO = 793.00 MAX ELEVATION REACHED BY FLOOD WAVE = 807.34
FLOOD STAGE NOT AVAILABLE
MAX STAGE = [illegible] AT TIME = 6.600 HOURS
MAX FLOW = 19254 AT TIME = 3.550 HOURS

HR	STAGE	FLOW
0.0	9.9	8145
.2	9.9	8145
.4	9.9	8145
.6	9.9	8145
.8	9.9	8149
1.0	9.9	8295
1.2	9.9	8470
1.4	10.0	[illegible]
1.6	10.1	10015
1.8	10.3	11596
2.0	10.6	13404
2.2	11.0	15099
2.4	11.4	16501
2.6	11.7	17516
2.8	12.0	18269
3.0	12.3	18780
3.2	12.6	19086
3.4	12.9	19229
3.6	13.1	19249
3.8	13.3	19181
4.0	13.4	19053
4.2	13.6	18875
4.4	13.7	18661
4.6	13.9	18425
4.8	14.0	18190
5.0	14.0	17951
5.2	14.1	17715
5.4	14.2	17484
5.6	14.2	17259
5.8	14.3	17040
6.0	14.3	16826
6.2	14.3	16620
[illegible]	[illegible]	[illegible]

6.6	14.3	16226	I	I	I	I *	I	I
6.8	14.3	16036	I	I	I	I *	I	I
7.0	14.3	15851	I	I	I	I *	I	I
7.2	14.3	15669	I	I	I	I*	I	I
7.4	14.3	15486	I	I	I	I*	I	I
7.6	14.3	15309	I	I	I	I*	I	I
7.8	14.2	15141	I	I	I	*	I	I
8.0	14.2	14979	I	I	I	*	I	I
8.2	14.2	14824	I	I	I	*	I	I
8.4	14.1	14674	I	I	I	*I	I	I
8.6	14.1	14527	I	I	I	*I	I	I
8.8	14.0	14382	I	I	I	*I	I	I
9.0	14.0	14242	I	I	I	* I	I	I
9.2	13.9	14106	I	I	I	* I	I	I
9.4	13.9	13974	I	I	I	* I	I	I
9.6	13.8	13843	I	I	I	* I	I	I
9.8	13.8	13715	I	I	I	* I	I	I

DISCHARGE HYDROGRAPH FOR GOOSE POND BROOK ... STATION NUMBER 19
BELOW GOOSE POND LAKE DAM AT MILE 5.60

GAGE DEPO = 781.00 MAX ELEVATION REACHED BY FLOOD WAVE = 799.41
FLOOD STAGE NOT AVAILABLE
MAX STAGE = 18.41 AT TIME = 7.400 HOURS
MAX FLOW = 18955 AT TIME = 7.400 HRS

HR	STAGE	FLOW	0	5000	10000	15000	20000	25000
.2	13.6	8245	I	I	* I	I	I	I
.4	13.6	8245	I	I	* I	I	I	I
.6	13.6	8245	I	I	* I	I	I	I
.8	13.6	8245	I	I	* I	I	I	I
1.0	13.6	8245	I	I	* I	I	I	I
1.2	13.6	8245	I	I	* I	I	I	I
1.4	13.6	8245	I	I	* I	I	I	I
1.6	13.6	8245	I	I	* I	I	I	I
1.8	13.6	8262	I	I	* I	I	I	I
2.0	13.7	8314	I	I	* I	I	I	I
2.2	13.8	8429	I	I	* I	I	I	I
2.4	13.9	8639	I	I	* I	I	I	I
2.6	14.1	8962	I	I	* I	I	I	I
2.8	14.4	9402	I	I	*I	I	I	I
3.0	14.8	9937	I	I	*	I	I	I
3.2	15.2	10539	I	I	I*	I	I	I
3.4	15.6	11170	I	I	I *	I	I	I
3.6	16.0	11803	I	I	I *	I	I	I
3.8	16.3	12353	I	I	I *	I	I	I
4.0	16.6	12781	I	I	I *	I	I	I
4.2	16.8	13175	I	I	I *	I	I	I
4.4	17.0	13551	I	I	I *	I	I	I
4.6	17.2	13902	I	I	I *	I	I	I
4.8	17.4	14223	I	I	I *	I	I	I
5.0	17.6	14523	I	I	I *	I	I	I
5.2	17.7	14787	I	I	I *	I	I	I
5.4	17.9	15019	I	I	I *	I	I	I
5.6	18.0	15221	I	I	I *	I	I	I
5.8	18.1	15394	I	I	I *	I	I	I
6.0	18.2	15540	I	I	I *	I	I	I
6.2	18.2	15660	I	I	I *	I	I	I
6.4	18.3	15757	I	I	I *	I	I	I
6.6	18.3	15833	I	I	I *	I	I	I
6.8	18.4	15889	I	I	I *	I	I	I
7.0	18.4	15926	I	I	I *	I	I	I
7.2	18.4	15948	I	I	I *	I	I	I
7.4	18.4	15955	I	I	I	I	I	I

DISCHARGE HYDROGRAPH FOR GOOSE POND BROOK ... STATION NUMBER 29
BELOW GOOSE POND DA AT MILE 5.60

GAGE ZERO = 781.00 MAX ELEVATION REACHED BY FLOOD WAVE = 804.26
FLOOD STAGE NOT AVAILABLE
MAX STAGE = 23.26 AT TIME = 7.75 HOURS
MAX FLOW = 16015 AT TIME = 7.75 HOURS

HR	STAGE	FLOW	0	5000	10000	15000	20000	25000
0.2	19.5	8245	I	I	* I	I	I	I
0.4	19.5	8245	I	I	* I	I	I	I
0.6	19.5	8245	I	I	* I	I	I	I
0.8	19.5	8245	I	I	* I	I	I	I
1.0	19.5	8245	I	I	* I	I	I	I
1.2	19.5	8245	I	I	* I	I	I	I
1.4	19.5	8245	I	I	* I	I	I	I
1.6	19.5	8254	I	I	* I	I	I	I
1.8	19.5	8290	I	I	* I	I	I	I
2.0	19.6	8373	I	I	* I	I	I	I
2.2	19.7	8529	I	I	* I	I	I	I
2.4	19.8	8772	I	I	* I	I	I	I
2.6	20.0	9096	I	I	* I	I	I	I
2.8	20.2	9490	I	I	*I	I	I	I
3.0	20.4	9941	I	I	*	I	I	I
3.2	20.7	10429	I	I	I*	I	I	I
3.4	20.9	10936	I	I	I *	I	I	I
3.6	21.2	11446	I	I	I *	I	I	I
3.8	21.4	11946	I	I	I *	I	I	I
4.0	21.6	12425	I	I	I *	I	I	I
4.2	21.8	12875	I	I	I *	I	I	I
4.4	22.0	13293	I	I	I *	I	I	I
4.6	22.2	13676	I	I	I *	I	I	I
4.8	22.4	14024	I	I	I *	I	I	I
5.0	22.5	14338	I	I	I *	I	I	I
5.2	22.7	14617	I	I	I *	I	I	I
5.4	22.8	14864	I	I	I	*	I	I
5.6	22.9	15081	I	I	I	*	I	I
5.8	22.9	15270	I	I	I	I*	I	I
6.0	23.0	15433	I	I	I	I*	I	I
6.2	23.1	15571	I	I	I	I*	I	I
6.4	23.1	15688	I	I	I	I*	I	I
6.6	23.2	15785	I	I	I	I *	I	I
6.8	23.2	15862	I	I	I	I *	I	I
7.0	23.2	15922	I	I	I	I *	I	I
7.2	23.3	15967	I	I	I	I *	I	I
7.4	23.3	15996	I	I	I	I *	I	I
7.6	23.3	16012	I	I	I	I *	I	I
7.8	23.3	16015	I	I	I	I *	I	I
8.0	23.3	16006	I	I	I	I *	I	I
8.2	23.3	15987	I	I	I	I *	I	I
8.4	23.3	15958	I	I	I	I *	I	I
8.6	23.2	15920	I	I	I	I *	I	I
8.8	23.2	15875	I	I	I	I *	I	I
9.0	23.2	15822	I	I	I	I *	I	I
9.2	23.2	15762	I	I	I	I *	I	I
9.4	23.1	15697	I	I	I	I*	I	I
9.6	23.1	15627	I	I	I	I*	I	I
9.8	23.1	15552	I	I	I	I*	I	I
10.0	23.0	15474	I	I	I	I	I	I

B-18 CORRECTED MARCH 86

[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]						
[illegible]	18.4	15645						
[illegible]	18.4	15615						
5.0	18.4	15585						
5.1	18.4	15550						
5.4	18.3	15610						
5.6	18.3	15750						
5.8	18.3	15670						
6.0	17.1	15620						
6.1	18.7	15545						
6.4	18.	15460						
6.6	19.	15397						
6.8	18.0	15296						
7.0	17.7	15225						

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+++++++++++++++++++++++++++++++++++++++
+++ +++
+++ S MMARY F INPUT DATA +++
+++ +++
+++++++++++++++++++++++++++++++++++++++
+++++++++++++++++++++++++++++++++++++++

INPUT CONTROL PARAMETERS F R GOOSE POND LA E DAM

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC R UTING REACHES		4
TYPE OF RESERV IN R TING	KOD	2
MULTIPLE FAN MODIFIER	MFAN	
PRINTING INTERVALS IN F R INPUT SUMMARY	IPR	7
NUM OF RESERVOIR INFL W HYDROGRAPH BLOCKS	ITEM	1
INTERVAL OF INTERPOLATION IN INPUT BLOCK EI IT WHEN ON RA DIST		0
FLOOD-PLAIN MODEL PARAMETER	FLP	2
LANDSLIDE PARAMETER	KSL	0

CROSS-SECTIONAL PARAMETERS FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	2

MAXIMUM NUMBER OF TOP WIDTHS	NCS	8
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	1
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	0
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)
****

2

CROSS-SECTIONAL VARIABLES FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	UNITS	VARIABLE
LOCATION OF CROSS-SECTION	MI	XS(I)
ELEVATION (MSL) OF FLOODING AT CROSS-SECTION	FT	FSTG(I)
ELEV. CORRESPONDING TO EACH TOP WIDTH	FT	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV (ACTIVE FLOW PORTION)	FT	BS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV (OFF-CHANNEL PORTION)	FT	BSS(K,I)
SURFACE AREA CORRESPONDING TO EACH ELEV (ACTIVE FLOW PORTION)	ACRES	DSA(K,I)
SURFACE AREA CORRESPONDING TO EACH ELEV (OFF-CHANNEL PORTION)	ACRES	SSA(K,I)
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		

CROSS-SECTION NUMBER 1
****

XS(I) = 5.600 FSTG(I) = 0.00 XSL(I) = 0.0 XSR(I) = 0.0

HS ...	770.0	775.0	781.0	786.0	791.0	795.0	801.0	806.0
BS ...	40.0	73.0	134.0	169.0	189.0	324.0	357.0	390.0
BSS ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CROSS-SECTION NUMBER 2

XB I = 6.500 FETG I = 2.00 XSL I = 2.0 XSR I = 0.0

HS ...	750.0	55.0	765.0	772.0	775.0	786.0	791.0	800.0
BE ...	30.0	200.0	300.0	400.0	600.0	900.0	1287.0	1560.0
BEE ...	0.0	306.0	363.0	315.0	172.0	1[illegible]4.0	0.0	0.0

MAX [illegible] ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
[illegible] WHERE I = REACH NUMBER

REACH [illegible] ...	.040	.050	.060	.080	.100	.110	.120	.130

CROSS-SECTIONAL VARIABLES FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MI	DXM I
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FKC I

REACH NUMBER	DXM(I)	FKC I
1	.300	0.000

DOWNSTREAM FLOW PARAMETERS FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	0.0

MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS/FT	QLL	0.000
INITIAL SIZE OF TIME STEP	HR	DTHM	0.0000
INITIAL WATER SURFACE ELEVATION DOWNSTREAM	FT	YDN	0.00
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FT/MI	SOM	10.00
THETA WEIGHTING FACTOR		THETA	0.00
CONVERGENCE CRITERION FOR STAGE	FT	EPSY	0.000
TIME AT WHICH DAM STARTS TO FAIL	HR	TFI	0.00
NUMBER OF INTERMEDIATE STATIONS		NNINE	-
NUMBER OF TIME STEPS		NNU	203

TIME PARAMETERS OF OUTFLOW HYDROGRAPH IMMEDIATELY DOWNSTREAM OF DAM

PARAMETER	UNITS	VARIABLE	VALUE
TIME TO FAILURE	HR	TFH	10.000
TIME TO START OF RISING LIMB OF HYDROGRAPH	HR	TFO	0.000
TIME TO PEAK	HR	TP	7.400
TIME STEP SIZE	HR	DTHI	.500

RESERVOIR OUTFLOW INFORMATION

[illegible]	TT	[illegible]	H2	[illegible]	[illegible]	SUB	OUTVOL	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.000	[illegible]	760.38	0.00	[illegible]	.07	0.0	.0	[illegible]	0.0	[illegible]

RESERVOIR OUTFLOW INFORMATION

[illegible]	TT	[illegible]	H2	[illegible]	[illegible]	SUB	OUTVOL	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.000	[illegible]	760.38	0.00	[illegible]	.07	0.0	.0	[illegible]	0.0	[illegible]

RESERVOIR OUTFLOW INFORMATION

[illegible]	TT	[illegible]	H2	[illegible]	[illegible]	SUB	OUTVOL	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	.500	[illegible]	760.38	0.00	[illegible]	.07	0.0	.0	[illegible]	0.0	[illegible]

RESERVOIR OUTFLOW INFORMATION

[illegible]	TT	[illegible]	H2	[illegible]	[illegible]	SUB	OUTVOL	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	760.38	[illegible]	[illegible]	.07	0.0	.0	[illegible]	0.0	[illegible]

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	7.000	15833.7	763.78	0.00	799.09	.07	0.0	.0	15926.3	0.0	15186.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	7.500	15931.8	763.82	0.00	799.09	.07	0.0	.0	15953.1	0.0	15186.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	8.000	15932.0	763.82	0.00	799.09	.07	0.0	.0	15898.9	0.0	15186.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	8.500	15859.8	763.79	0.00	799.09	.07	0.0	.0	15782.0	0.0	15186.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	9.000	15709.1	763.73	0.00	799.09	.07	0.0	.0	15620.2	0.0	15186.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	9.500	15557.0	763.66	0.00	799.09	.07	0.0	.0	15424.4	0.0	15186.7

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	OUTVOL	BB	QU(1)	QBRECH	QSPIL
4	1	10.000	15366.0	763.58	0.00	799.09	.07	0.0	.0	15225.3	0.0	15186.7

ROUTING COMPLETED.

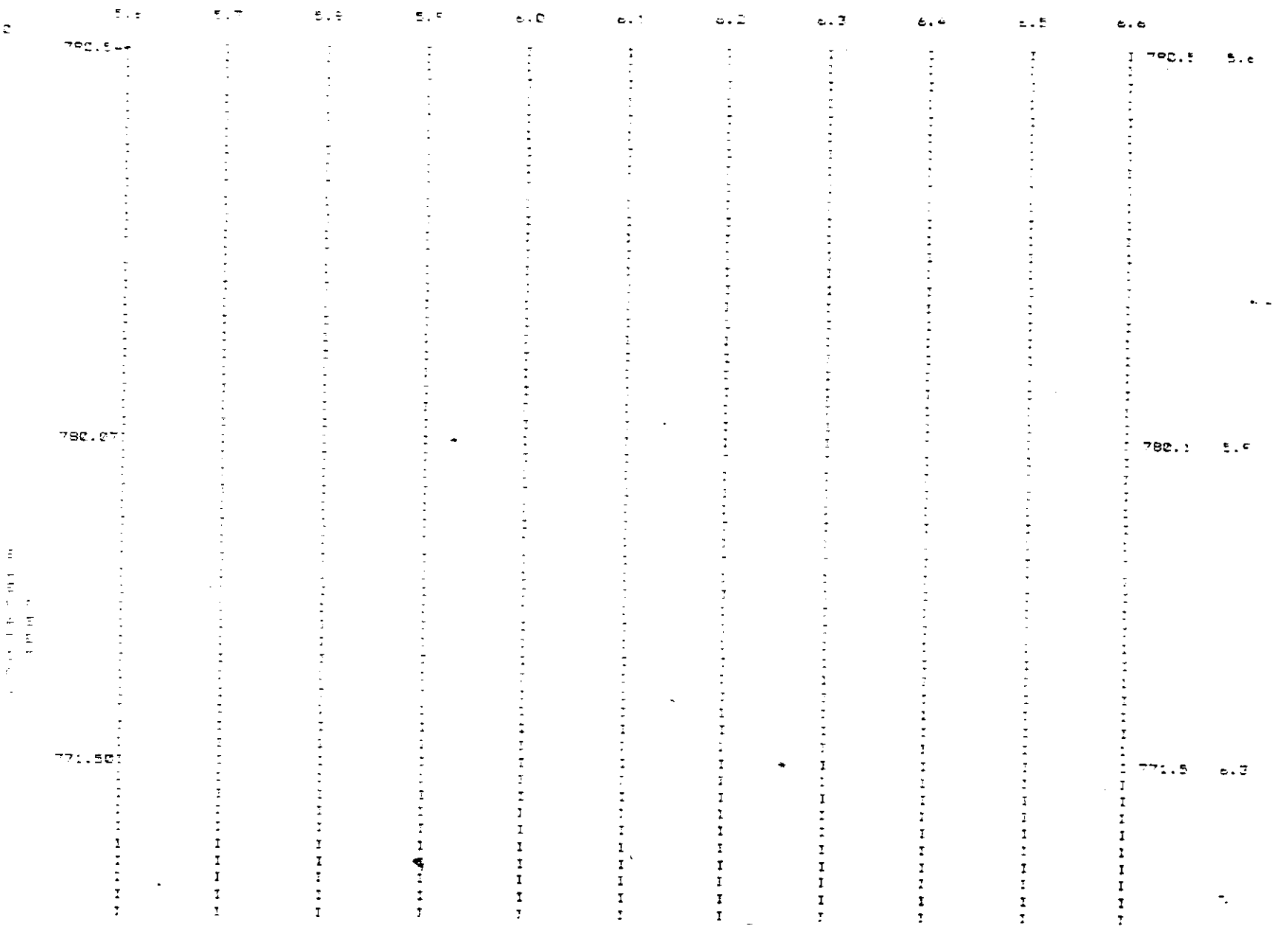
TIME= 13 ALLOWABLE TIME= 698 TT= 10.5

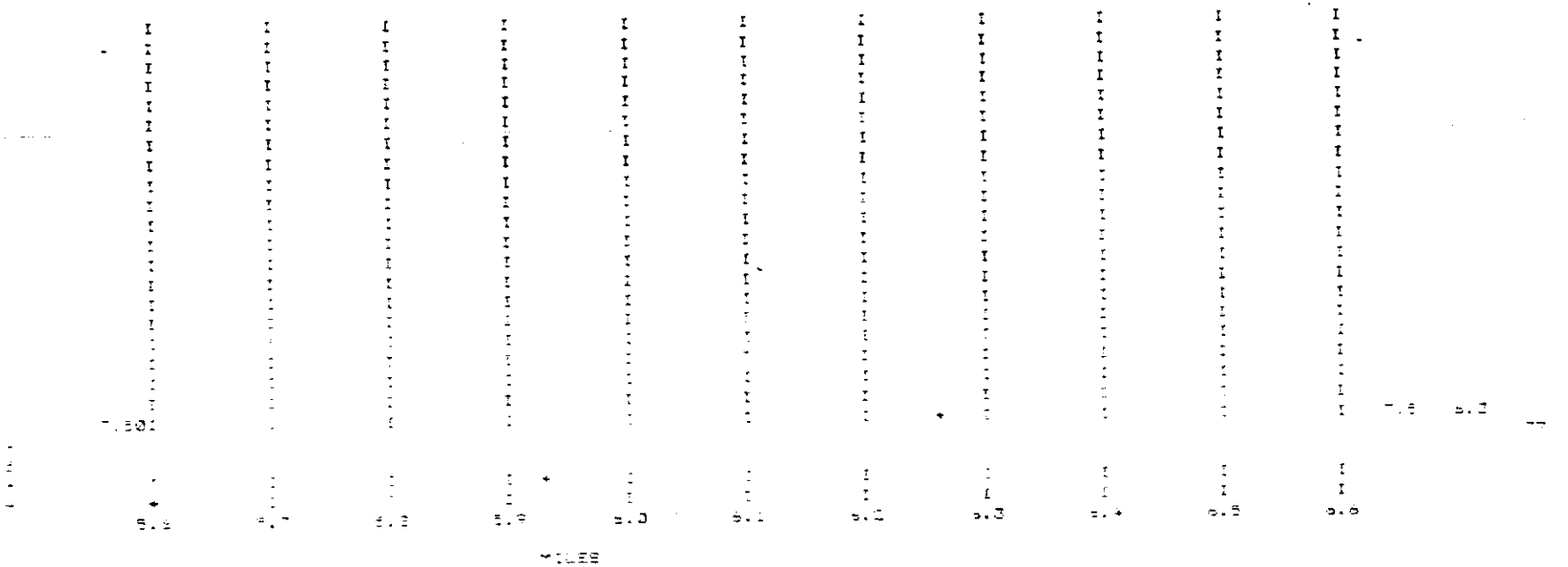
PROFILE OF CRESTS AND TIMES FOR GOOSE POND BROOK
BELOW GOOSE POND LAKE DAM

PUR MILE FROM DAM	MAX ELE	MAX FLOW	TIME MAX	MAX ELE	MAX ELE	FLOOD ELE	TIME FLOOD ELE
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5.600	790.54	.5953	7.500	5.77	3.53	0.00	0.00
5.973	780.07	.5950	7.500	6.62	4.51	0.00	0.00
6.267	771.50	.5943	7.500	6.86	4.68	0.00	0.00
6.630	763.82	.5933	8.000	6.95	4.67	0.00	0.00

FEA ELEVATION PROFILE





DISCHARGE HYDROGRAPH FOR GOOSE POND BROOK ... STATION NUMBER 4
BELOW GOOSE POND LAKE DAM AT MILE 6.60

GAGE ZERO = 750.00 MAX ELEVATION REACHED BY FLOOD WAVE = 763.81
FLOOD STAGE NOT AVAILABLE
MAX STAGE = 13.82 AT TIME = 8.000 HOURS
MAX FLOW = 15933 AT TIME = 8.000 HOURS

HR	STAGE	FLOW
.2	10.4	8277
.4	10.4	8271
.6	10.4	8270
.8	10.4	8275
1.0	10.4	8279
1.2	10.4	8276
1.4	10.4	8273
1.6	10.4	8277
1.8	10.4	8289
2.0	10.4	8300
2.2	10.4	8380
2.4	10.4	8418
2.6	10.5	8631
2.8	10.6	8899
3.0	10.7	9167
3.2	11.0	9684
3.4	11.2	10200
3.6	11.5	10740
3.8	11.8	11302
4.0	12.0	11866
4.2	12.3	12332
4.4	12.5	12799
4.6	12.7	13218
4.8	12.8	13539
5.0	13.0	13960
[illegible]	[illegible]	[illegible]

```
 5.0    13.0    13960  I          I          I          *I          I          I
 5.2    13.1    14254  I          I          I          *I          I          I
 5.4    13.2    14549  I          I          I          *I          I          I
 5.6    13.3    14806  I          I          I          *           I          I
 5.8    13.4    15026  I          I          I          *           I          I
 6.0    13.5    15246  I          I          I          *           I          I
 6.2    13.6    15394  I          I          I          I*          I          I
 6.4    13.7    15542  I          I          I          I*          I          I
 6.6    13.7    15659  I          I          I          I*          I          I
 6.8    13.7    15747  I          I          I          I*          I          I
 7.0    13.8    15834  I          I          I          I *         I          I
 7.2    13.8    15873  I          I          I          I *         I          I
 7.4    13.8    15912  I          I          I          I *         I          I
 7.6    13.8    15932  I          I          I          I *         I          I
 7.8    13.8    15933  I          I          I          I *         I          I
 8.0    13.8    15933  I          I          I          I *         I          I
 8.2    13.8    15904  I          I          I          I *         I          I
 8.4    13.8    15874  I          I          I          I *         I          I
 8.6    13.8    15834  I          I          I          I *         I          I
 8.8    13.8    15781  I          I          I          I *         I          I
 9.0    13.7    15729  I          I          I          I*          I          I
 9.2    13.7    15660  I          I          I          I*          I          I
 9.4    13.7    15592  I          I          I          I*          I          I
 9.6    13.6    15519  I          I          I          I*          I          I
 9.8    13.6    15442  I          I          I          I*          I          I
10.0    13.6    15366  I          I          I          I*          I          I
1
 READY.


B3846BB LOG OFF  11.16.47.
SBU =       1.636
TIC =  246977

IAF      CONNECT TIME 00.43.34.
LOGGED OUT.
```