FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

HYDRAULIC REPORT

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for

Floodplain Delineation Study

of

Upper Centennial Wash, Grass Wash and Aguila Farm Channel

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MAKING TECHNOLOGY WORK

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Hydraulic Report

for

Floodplain Delineation Study

of

Upper Centennial Wash, Grass Wash and Aguila Farm Channel

Contract No. FCD 88-54

May 1990

Prepared by:

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Registered Professional Engineer (Civil)
CERTIFICATE NO.
22910
SCOTT R.
SCHMUND
Date Signed 5/17/90
ARIZONA U.S.A.

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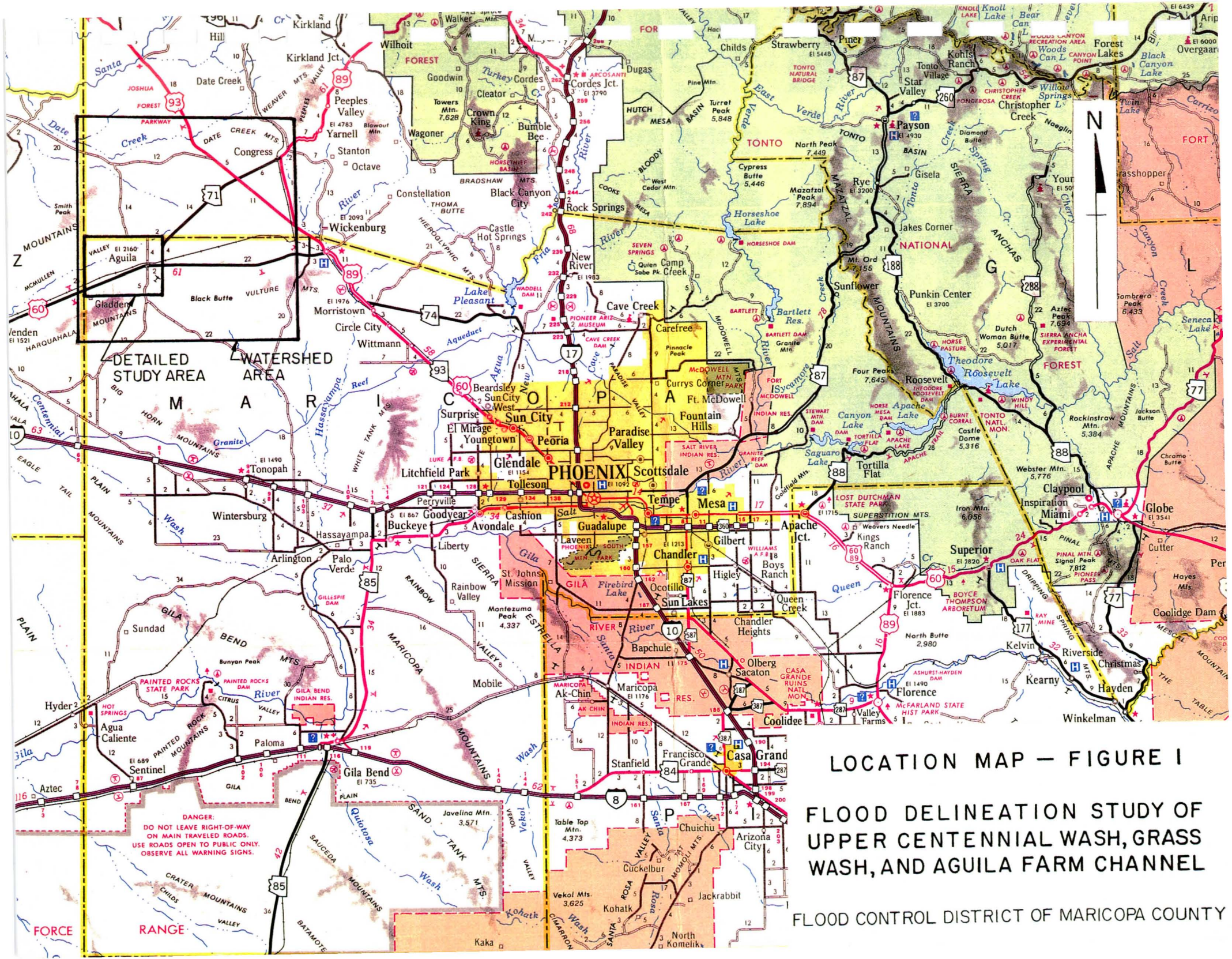
I. INTRODUCTION

URS Consultants was contracted by the Flood Control District of Maricopa County (the District) to perform detailed hydrologic and hydraulic analyses and floodplain mapping for the Upper Centennial Wash, Grass Wash and Aguila Farm Channel. The study was conducted in accordance with the Federal Emergency Management Agency's (FEMA), "Flood Insurance Study Guidelines and Specifications for Study Contractors, September 1985" (Reference 6). The study area is located surrounding the unincorporated community of Aguila, Arizona in the extreme northwest corner of Maricopa county (Figure 1). Aguila, Arizona is located approximately 25 miles west of Wickenburg, Arizona along U.S. Highway 60/70 and is centered within Township 7 North, Range 9 West, Gila and Salt River Base and Meridian.

The purpose of this report is to delineate the 10-, 50-, and 100-year flood profiles, the 100-year floodplain and floodway boundaries, and the base flood elevations and flood hazard zones associate with the 100-year flood. The 10-, 50-, and 100-year return frequency peak discharges were estimated by URS in a companion document entailed, "Hydrology Report for Floodplain Delineation Study of Upper Centennial Wash, Grass Wash and Aguila Farm Channel" (Reference 7). The estimated peak discharges presented in the "Hydrology Report" were utilized in performing this study.

A detailed study has been performed (1978) by FEMA along portions of the Aguila Farm Channel and Grass Wash which estimated 10-, 50-, and 100-year return frequency peak discharges and the associated flood profiles, floodplain boundaries, base flood elevations and flood hazard zones (References 4 and 5). Upper Centennial Wash was mapped using approximate methods and included what is defined in this study as the North Branch Upper Centennial Wash. Therefore, portions of Aguila Farm channel and Grass Wash study reaches are re-study areas, while the Upper Centennial Wash and it's North Branch are new detailed study reaches.



LOCATION MAP — FIGURE I

FLOOD DELINEATION STUDY OF UPPER CENTENNIAL WASH, GRASS WASH, AND AGUILA FARM CHANNEL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

II. AREA STUDIED

The contributing watershed and associated subbasins are located within the extreme northwest corner of Maricopa County, Arizona. The northern boundary of the watershed consists of the Harcuvar and Date Creek Mountains. The eastern boundary is defined by a natural topographic watershed division between the Sols Wash watershed (not part of this study) and the Upper Centennial Wash/Aguila Farm Channel watershed. The southern boundary of the watershed is formed by the Vulture and Harquahala Mountains. Runoff from the Aguila Farm Channel and Grass Wash join with the Upper Centennial Wash drainage system at the unincorporated town of Aguila. Runoff from the North Branch Upper Centennial Wash joins the main stem of the drainage system downstream of the town of Aguila. Runoff within the Upper Centennial Wash drains in the southwesterly direction where it exits Maricopa county and enters Yuma County. Runoff within the Upper Centennial Wash drainage system eventually turns southeasterly and re-enters Maricopa county where it is referred to as Lower Centennial Wash (previously studied, see Reference 2).

The following flooding sources were studied by detailed methods.

1. Upper Centennial Wash from the western Maricopa County line to a location approximately 6.1 miles upstream where it joins with the Aguila Farm Channel.

2. Aguila Farm Channel from the confluence with Upper Centennial Wash to a location approximately 11.3 miles upstream of the Maricopa County line near State Route 71.

3. North Branch Upper Centennial Wash from the confluence with the main stem of Upper Centennial Wash to a location approximately 9.4 miles upstream of the Maricopa County line near the northern Maricopa County line.

4. Grass Wash from the confluence with the Aguila Farm Channel (at the Atchinson Topeka and Santa Fe railroad trestle) to a location approximately 5.6 miles upstream.

The slope of the natural terrain in the watershed varies widely. The steeper foothills and mountain slopes range from approximately 5 to 60 percent. Less steep areas within the study area range from 0.2 to 5 percent. It should be noted that the slope of the major drainage channels being studied by detailed methods generally range from 0.2 to 0.3 percent. The majority of the contributing watershed is undeveloped arid climate range land. The unincorporated community of Aguila, Arizona, supports the surrounding agricultural farming which occurs in the flat, broad floodplains of the drainageways being studied.

Recent aerial photography flown as part of this study indicates an increase in land under cultivation since the previous flood study (Reference 3). Crops of cotton and melons were observed during field investigations.

The principal flood hazards within the study area result from a broad, sheet flow type of floodplain with multiple, distributory low flow channels or flow paths. Residents living in the area confirm this flow pattern. URS staff, along with Flood Control District staff, observed runoff following a rainstorm within the Grass Wash drainage area. Our observation illustrated the broad, undisciplined nature of the flow. We also noted sediment deposits occurring over hundreds of feet from runoff which crossed Eagle Eye Avenue from several low flow channels within the Grass Wash floodplain.

There are numerous man-made structures consisting of training dikes, spreader dikes, stock tanks, etc., located throughout the study area. These structures do not meet the FEMA criteria as identified in Chapter 2-7.e. of Reference 7 and, therefore, were not considered in this study. These structures generally consist of unprotected fill, some compacted and some not, are poorly maintained, and have no erosion protection. Historically, these structures have failed during significant flow events (Reference 1).

III. METHODOLOGY

The study reaches identified in Section II were analyzed using detailed riverine flooding methods. The Army Corps of Engineers computer program, HEC-2, was used to estimate the flood water surface elevations, water surface profiles, and delineate the 100-year floodplain and floodway boundaries (Reference 8). Specifically, this study analyzed the estimated 10-, 50-, and 100-year flood events shown in Table 1. Flood profiles are presented in Plates 1-11. HEC-2 multiple profile and floodway analyses output files are presented in Appendicies A-H.

Aerial topographic mapping was prepared for the detailed study area at a scale of 1:4,800 with a contour interval of 4 feet. HEC-2 cross-sections were digitized from the topographic mapping at selected intervals for each of the detailed study reaches.

A detailed field reconnaissance was made of the detailed study reaches to determine the hydraulic characteristics of the channels, measure hydraulic structures, and to estimate the hydraulic roughness coefficients (Manning's "n"). The majority of the Upper Centennial Wash and Aguila Farm Channel floodplains are in agricultural (tilled) production. The North Branch Upper Centennial Wash floodplain has some agricultural (tilled) production with the remainder being open rangeland with good ground cover. The Grass Wash floodplain has a significant amount of agricultural (tilled) production with open rangeland having good ground cover. Only the Aguila Farm Channel has a well defined, prismatic (man-made) channel which directs low flows through a residential and commercial area north of the intersection of U.S. Highways 60 & 70 and Eagle Eye Avenue.

Table 2 presents the range of hydraulic coefficients used in the hydraulic analyses. Appendix I contains representative photographs taken during field investigations of the detailed study reaches. Although there exists some small degree of variability in hydraulic roughness across the floodplains, an average Manning's "n" value sufficiently models the hydraulic roughness. This approach was based on the following:

1) that future Manning's "n" values are variable due to fields being cropped or fallow;
2) rangeland ground cover density is good, but will vary with season; and
3) initial sensitivity analyses of Manning's "n" showed an insignificant effect on WSE's for ranges from 0.035 to 0.045.

Table 1

Summary of Discharges

Flooding Source and Location	Drainage Area (Sq.Mi.)	Peak Discharge (Cubic Feet per Second) 10-yr	50-yr	100-yr
Grass Wash				
At U.S. Highways 60/70	**70.6** (83.0)	**3,340** (6,380)	**8,660** (11,400)	**11,100** (14,400)
At N.W. corner of Sec. 25, T7N, R9W	**39.9** N/A	**2,430** N/A	**5,950** N/A	**7,500** N/A
At S.E. corner of Sec.25, T7N, R9W	**23.9** N/A	**1,720** N/A	**3,900** N/A	**4,870** N/A
Aguila Farm Channel				
At Eagle Eye Ave	**239.6** (216.0)	**3,620** (5,450)	**12,700** (12,000)	**16,900** (16,000)
Below Grass Wash	**314.4** N/A	**4,130** N/A	**14,500** N/A	**19,300** N/A
Upper Centennial Wash				
At Maricopa/Yuma (LA PAZ) County Boundary	**451.5** N/A	**4,880** N/A	**16,400** N/A	**21,700** N/A
At S.W. corner of Sec.4, T7N, R9W	**41.1** N/A	**1,900** N/A	**5,410** N/A	**6,960** N/A

Bold - URS Study
(Regular) - Previous FEMA Study
N/A - Not estimated in Previous Study

TABLE 2
Range of Hydraulic Roughness Coefficients
(Manning's "n")

Flooding Source	Channel	Overbanks
Upper Centennial Wash	0.040	0.040
Aguila Farm Channel	0.030	0.040-0.050
North Branch Upper Centennial Wash	0.040	0.040
Grass Wash	0.030-0.040	0.040

The starting water surface elevations (WSE's) for Upper Centennial Wash were computed using the slope-area method. An "n" value of 0.040 was used for both the channel and the overbanks.

The Aguila Farm channel starting water surface elevations were taken from HEC-2 computed WSE's at the confluence with Upper Centennial Wash. The "n" value for the channel is 0.030, while the overbank "n" values range from 0.040 to 0.050.

The North Branch Upper Centennial Wash starting water surface elevations were computed using the slope-area method. An "n" value of 0.040 was used for both the channel and overbanks.

The starting water surface elevations for Grass Wash were estimated using an iterative approach beginning with the slope-area method. Immediately downstream (north) of the Atchison Topeka & Santa Fe railroad trestle over Grass Wash, is a uncompacted berm or training dike without erosion protection which serves to turn low flows to the west for several hundred feet. The berm "protects" a farm field from nuisance flooding. This study assumed that the berm would stay intact until over topping occurred. The HEC-2 analyses showed that a 10-year flood would not overtop the berm, however, the 50- and 100-year flood would. The analyses for the 50- and 100-year WSE's "backed-into" the starting WSE's at the AT & SF trestle by using the top of berm elevation as a starting WSE on subsequent HEC-2 runs. A total of three HEC-2 runs were made to determine the starting WSE's. A fourth and final run was made and is presented in this report. An "n" value used for the channel ranges from 0.030 to 0.040, while overbanks were modeled using 0.040.

Flood profiles and flood boundaries were not estimated for the 500-year flood for any of the detailed study reaches herein.

An approximate ZONE A flood hazard was included for a large stock pond because of its significant size and resultant ponding area. The flood boundary was estimated using the elevation at which overtopping would occur.

Floodways were computed for each of the detailed study reaches using equal reduction in conveyance. HEC-2 encroachment Method 4 was first used with a targeted WSE increase of 1 foot. Final floodways were computed using HEC-2 encroachment Method 1. Floodway boundaries were adjusted, smoothed, and centered about the hydraulic baseline using Method 1 and a 1 foot target WSE increase.

Provisional floodways (or conveyance areas) were delineated at two locations in order to ensure an adequate conveyance corridor for flood flows. The North Branch Upper Centennial Wash floodway was extended to join with the Upper Centennial Wash/Aguila Farm Channel floodway. The Grass Wash floodway was extended to join with Upper Centennial Wash/Aguila Farm Channel floodway. The Grass Wash floodway assumed a 4:1 expansion of the floodway width to convey the flood flows.

The study was limited to the uses of fixed-bed modeling for the hydraulic analyses. However, with the occurrence of a large flood, substantial changes in the floodplain may occur, particularly where the bottom slope is very non-uniform and/or where other structures, such as bridges, cause local increases in the velocity. Resultant changes in the water-surface elevations can be expected.

The hydraulic analyses for this study were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

All elevations are referenced to the National Geodetic Vertical Datum of 1929 (NGVD). Elevation reference marks used in this study are shown on the maps.

IV. OTHER STUDIES

As previously mentioned, a detailed flood insurance study which encompasses portions of the Aguila Farm Channel and Grass Wash, was conducted by Harris-Toups Associates for FEMA under contract No. H-4008 and was completed in February 1978 (References 4 and 5).

URS was unable to obtain copies of the Harris-Toups Associates detailed work files and work maps. The Flood Control District of Maricopa County supplied URS with HEC-2 data sets for the Aguila Farm Channel and Grass Wash from the Harris-Toups study. When the URS and Harris-Toups profiles are superimposed there are significant differences.

Below URS has summarized the apparent causes of the profile dissimilarities.

Aguila Farm Channel

1. The Harris-Toups Study estimated that the low flow channel could convey 5,000 cfs, removed this value from the peak discharges used in the analyses, and eliminated the low flow channel from the cross sectional area considered during hydraulic modeling. The URS study used the entire cross-sectional area and the entire estimated peak discharges.

2. It appears that the Harris-Toups cross-sections were truncated and artificial end elevations were inserted to prevent extended cross section errors from occurring. Doing so would raise the WSE's in the Harris-Toups study.

3. Recent aerial photos show an increase in tilled acreage since the Harris-Toups study. This generally involves laser leveling of the farm fields which may have changed (i.e., lowered) the topography within the study area.

Grass Wash

1. Downstream of the AT & SF railroad trestle is the floodplain for the Aguila Farm Channel. URS began the Grass Wash study at the confluence with the Aguila Farm Channel floodplain boundary (at the AT & SF trestle). This eliminates approximately 0.65 of the Harris-Toups study miles downstream of the trestle.

Also, downstream of the AT & SF trestle it appears that Harris-Toups cross sections were truncated and artificial end elevations inserted to contain the discharges. This would result in higher WSE's.

2. The higher WSE's in the URS study at the AT & SF trestle and US Highways 60 & 70 bridge are attributable to the influence of the berm immediately downstream of the two structures. The relatively flat water surface profile upstream of the highway bridge depicts the pool resulting from the backwater created by the berm and bridges (See discussion on page 8).

3. The peak discharges used in the Harris-Toups and URS studies are significantly different (See Hydrology Report, Reference 7). This would explain the lower WSE's the URS study has in the vicinity of Eagle Eye Avenue and upstream.

V. REFERENCES

1. Arizona Department of Water Resources, Engineering Section, Flood Management Department, Personal Communication with Mr. David E. Creighton, Jr., P.E. and Mr. Darrell Krull.

2. Cella Barr Associates, "Hydrologic Analysis of the Centennial Wash in Maricopa County, Arizona", revised January 6, 1989.

3. Cooper Aerial of Phoenix, Inc., 1:4,800 scale mapping with 4 foot contour intervals, 23 sheets, flown July 1989.

4. Federal Emergency Management Agency, Flood Insurance Rate Map Numbers: 04013C-0155D, -0160D, -0165D, and -0170D, April 15, 1988.

5. Federal Emergency Management Agency, "Flood Insurance Study - Maricopa County, Arizona and Incorporated Areas", April 15, 1988.

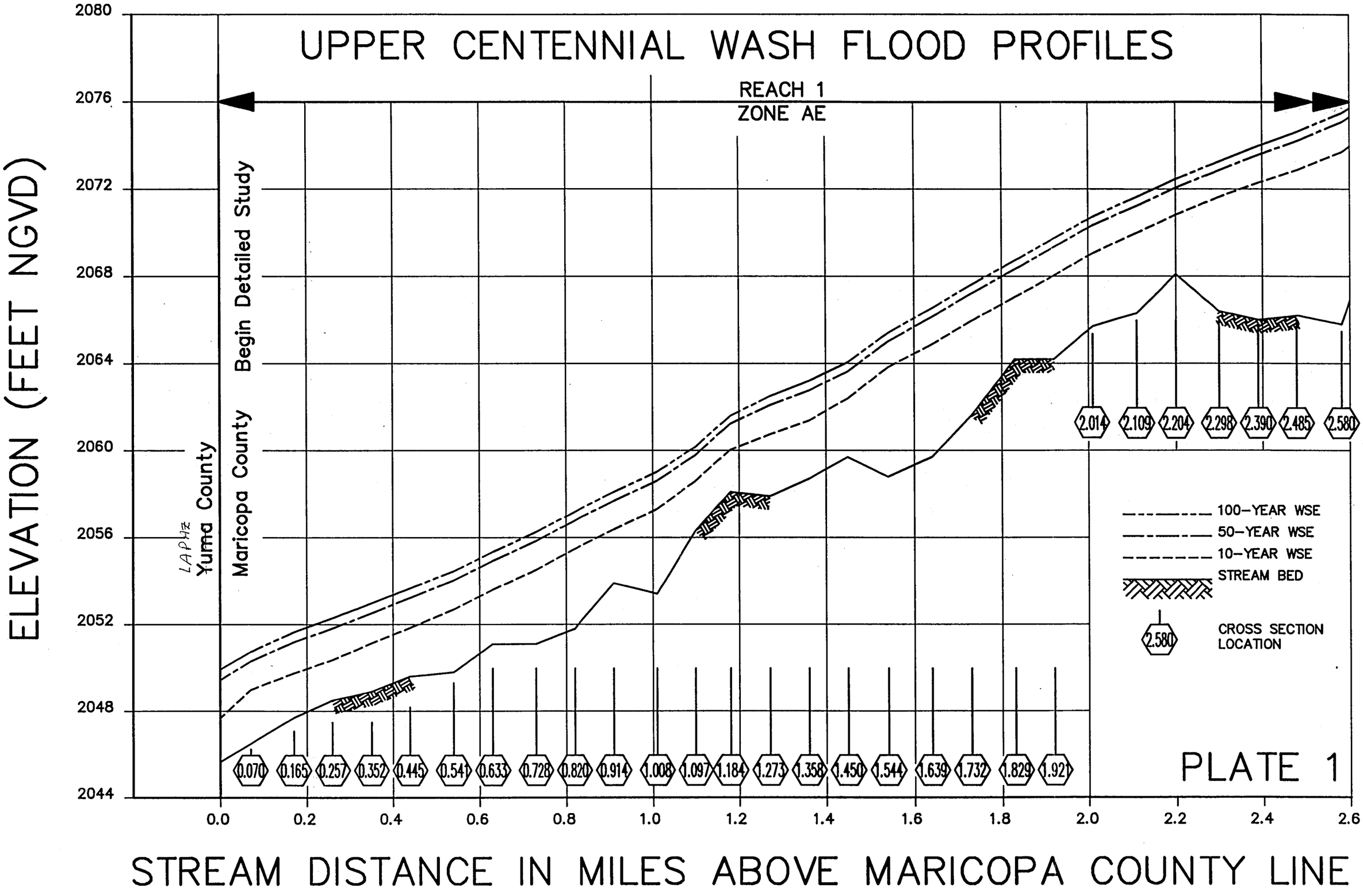
6. Federal Emergency Management Agency, Federal Insurance Administration, "Flood Insurance Study - Guidelines and Specifications for study Contractors", September 1985.

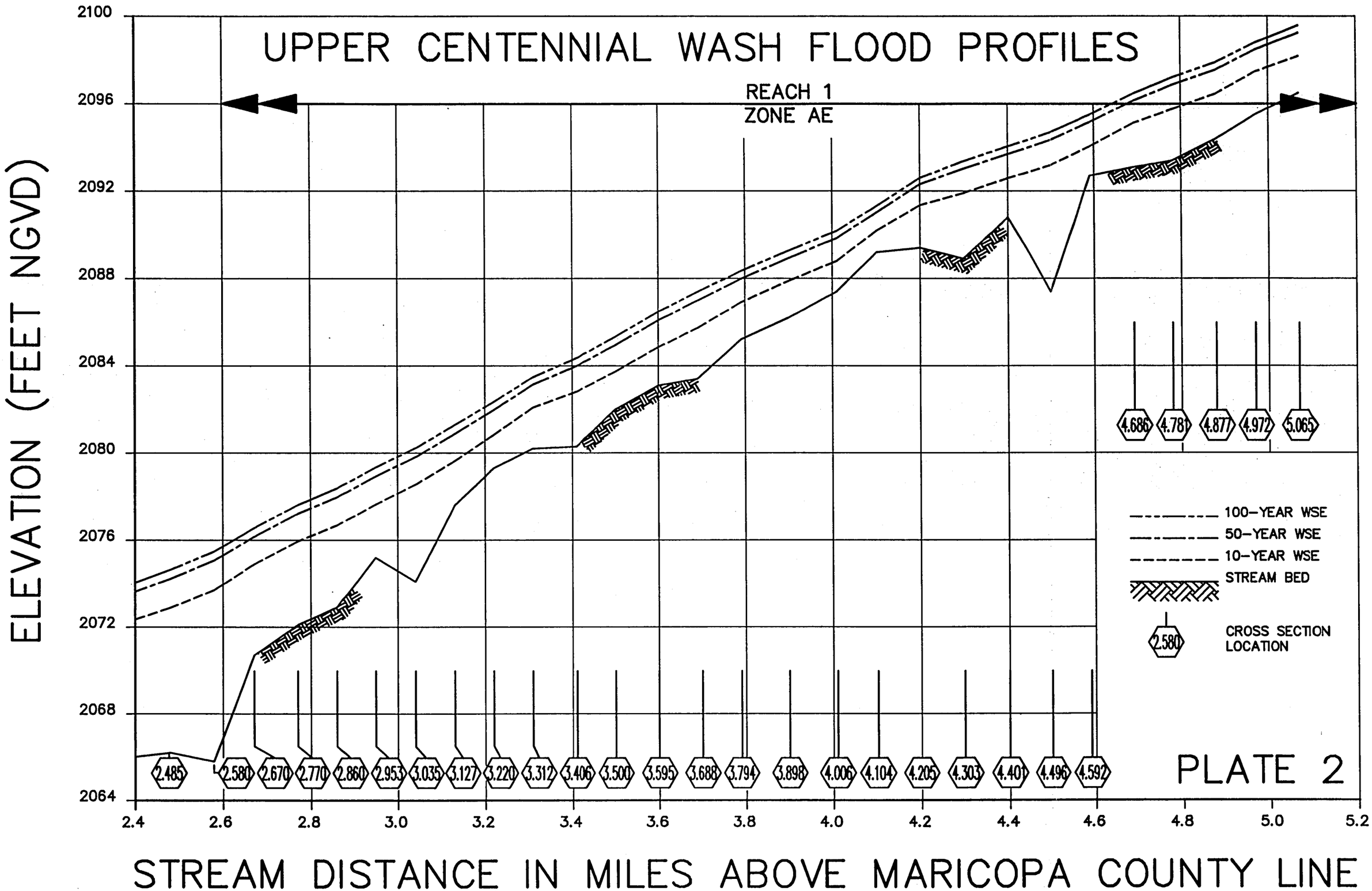
7. URS Consultants, Inc., "Hydrology Report for Floodplain Delineation Study of Upper Centennial Wash, Grass Wash, and Aguila Farm Channel," prepared for the Flood Control District of Maricopa Coutny, FCD Contrace No. 88-54, dated April 1990.

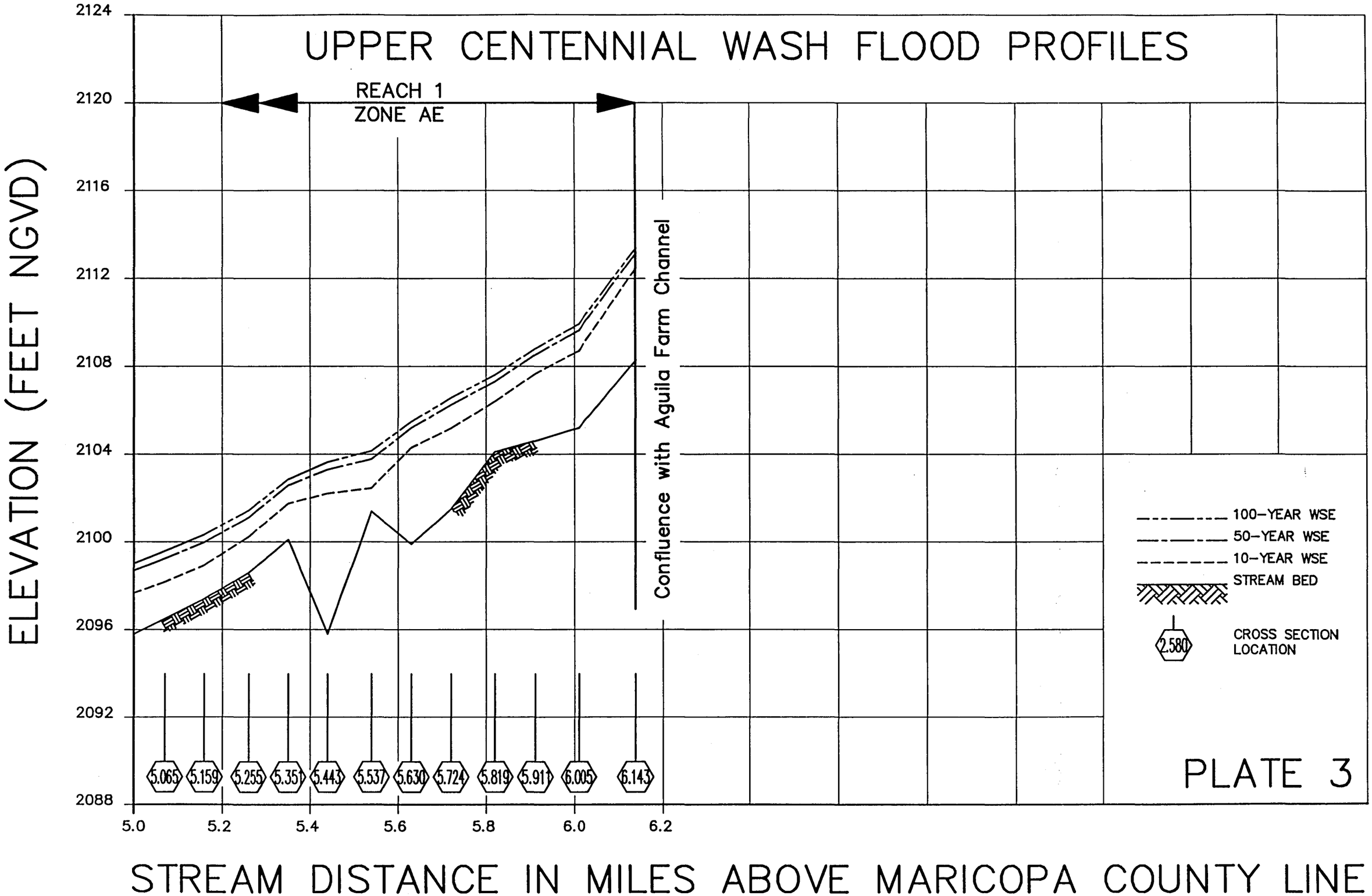
8. U.S. Army Corps of Engineers, "HEC-2 - Water Surface Profiles - Users Manual", September 1982, Computer program with September 1989 modifications.

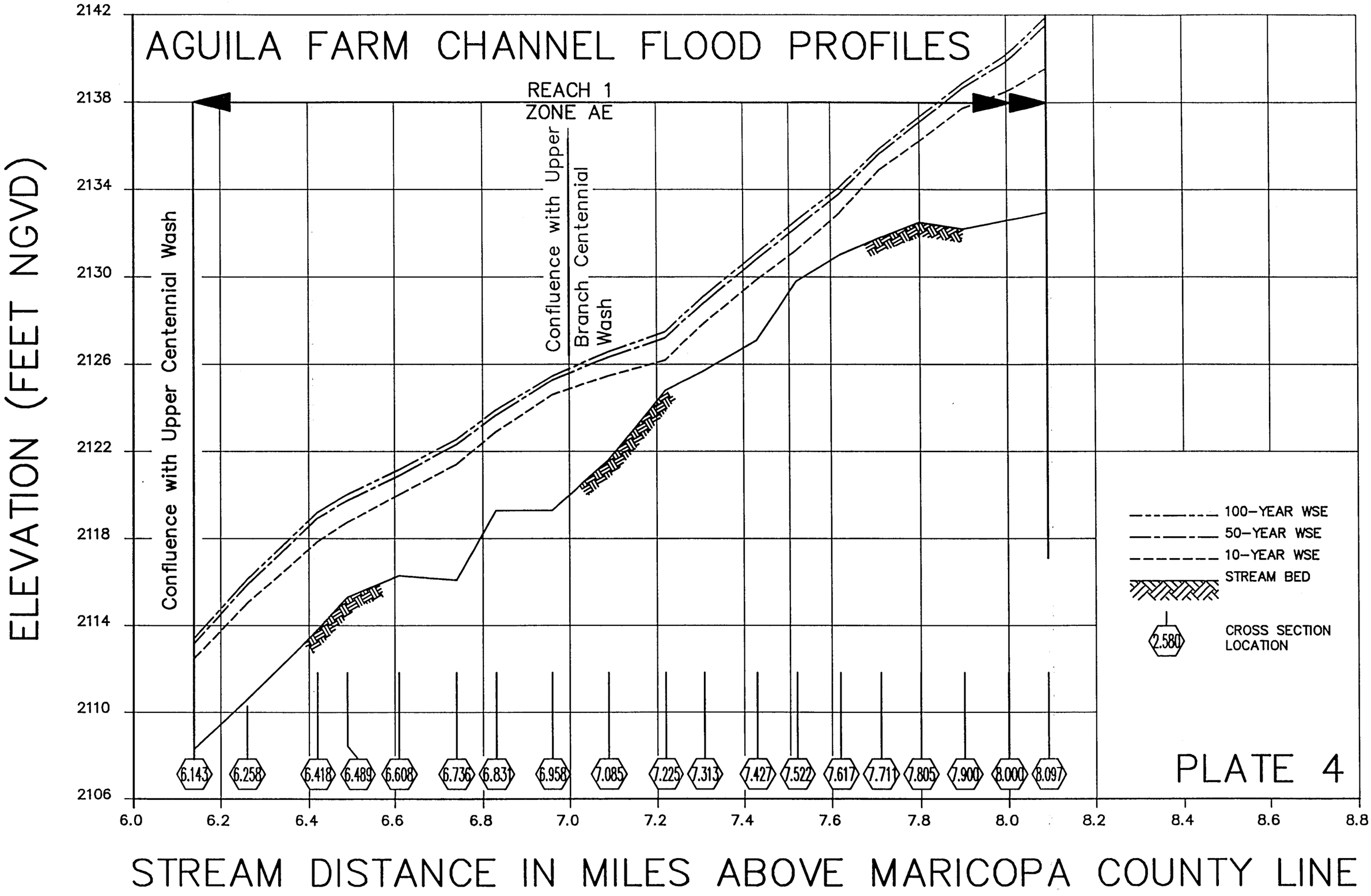
9. U.S.D.A. Soil Conservation Service, "Soil Survey of Aguila - Carefree Area, Portions of Maricopa and Pinal Counties, Arizona", April 1986.

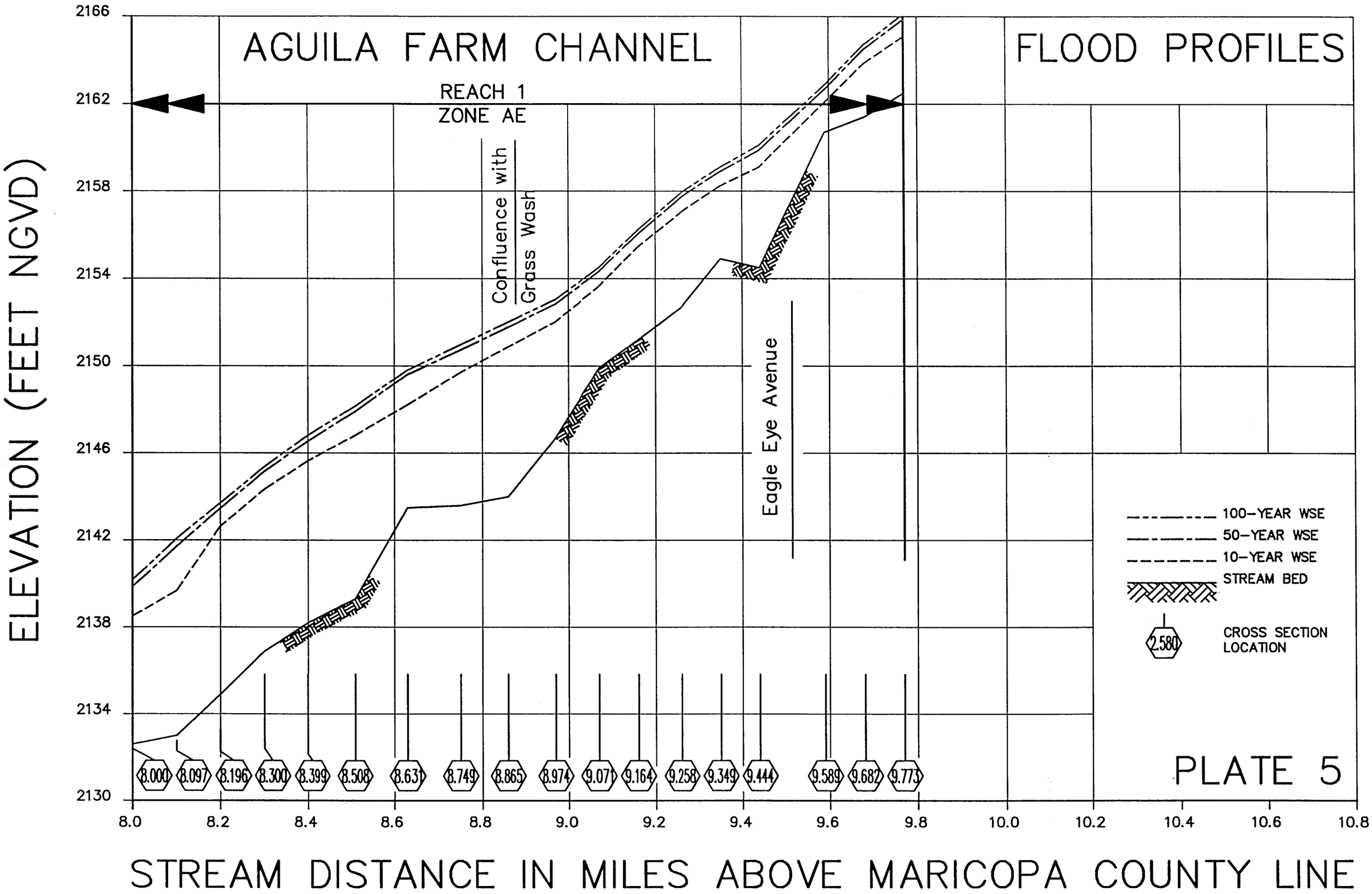
10. U.S.D.A. Soil Conservation Service, "Soil Survey of Yavapai County, Arizona, Western Part", April 1976.

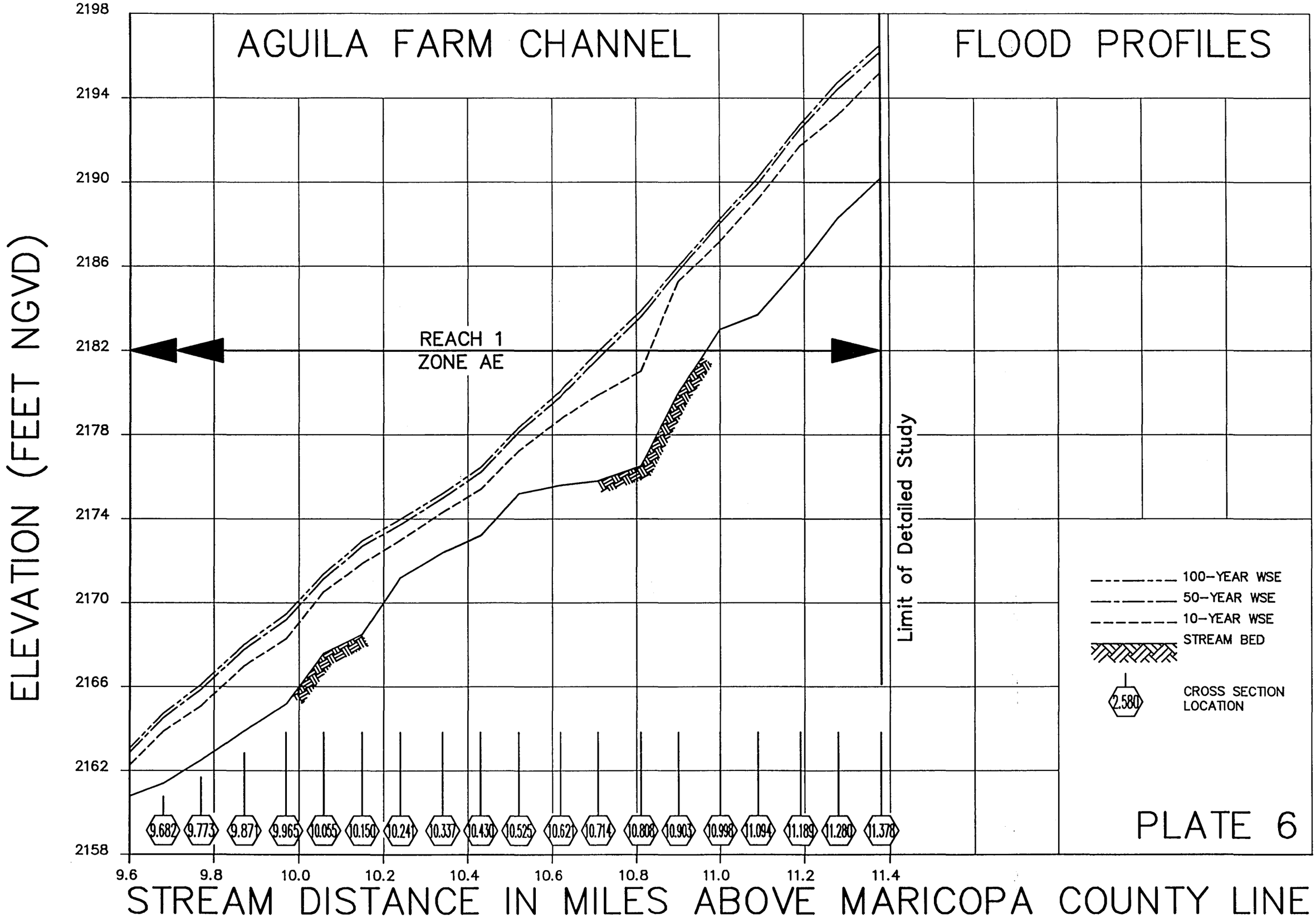

UPPER CENTENNIAL WASH FLOOD PROFILES
REACH 1
ZONE AE
Begin Detailed Study
Maricopa County
Yuma County
LAPHZ
ELEVATION (FEET NGVD)
2080
2076
2072
2068
2064
2060
2056
2052
2048
2044
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
0.070
0.165
0.257
0.352
0.445
0.541
0.633
0.728
0.820
0.914
1.008
1.097
1.184
1.273
1.358
1.450
1.544
1.639
1.732
1.829
1.921
2.014
2.109
2.204
2.298
2.390
2.485
2.580
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
CROSS SECTION LOCATION
PLATE 1
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE

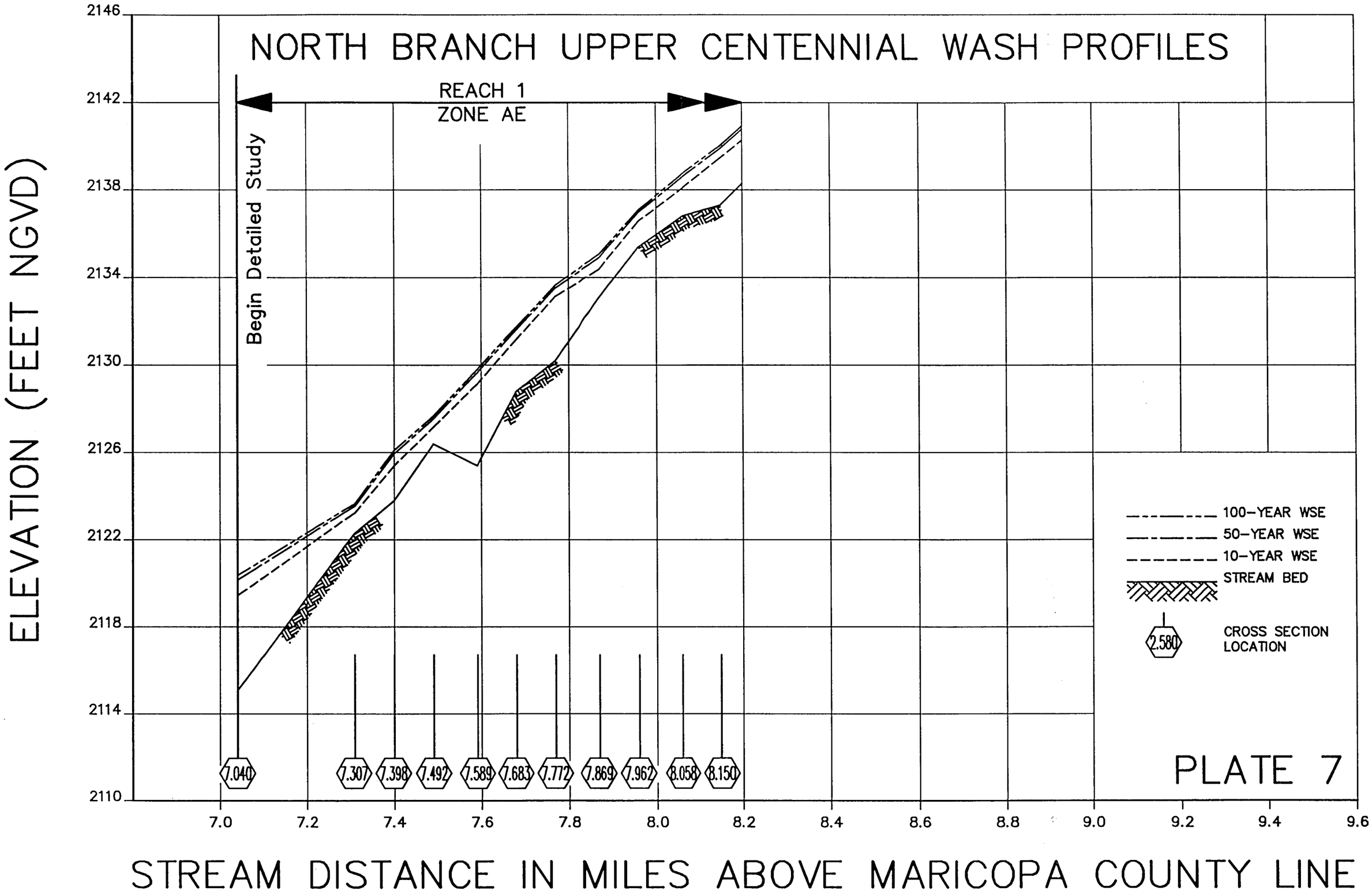

UPPER CENTENNIAL WASH FLOOD PROFILES
REACH 1
ZONE AE
ELEVATION (FEET NGVD)
2100
2096
2092
2088
2084
2080
2076
2072
2068
2064
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE
2.485
2.580
2.670
2.770
2.860
2.953
3.035
3.127
3.220
3.312
3.406
3.500
3.595
3.688
3.794
3.898
4.006
4.104
4.205
4.303
4.401
4.496
4.592
4.686
4.781
4.877
4.972
5.065
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
CROSS SECTION LOCATION
PLATE 2

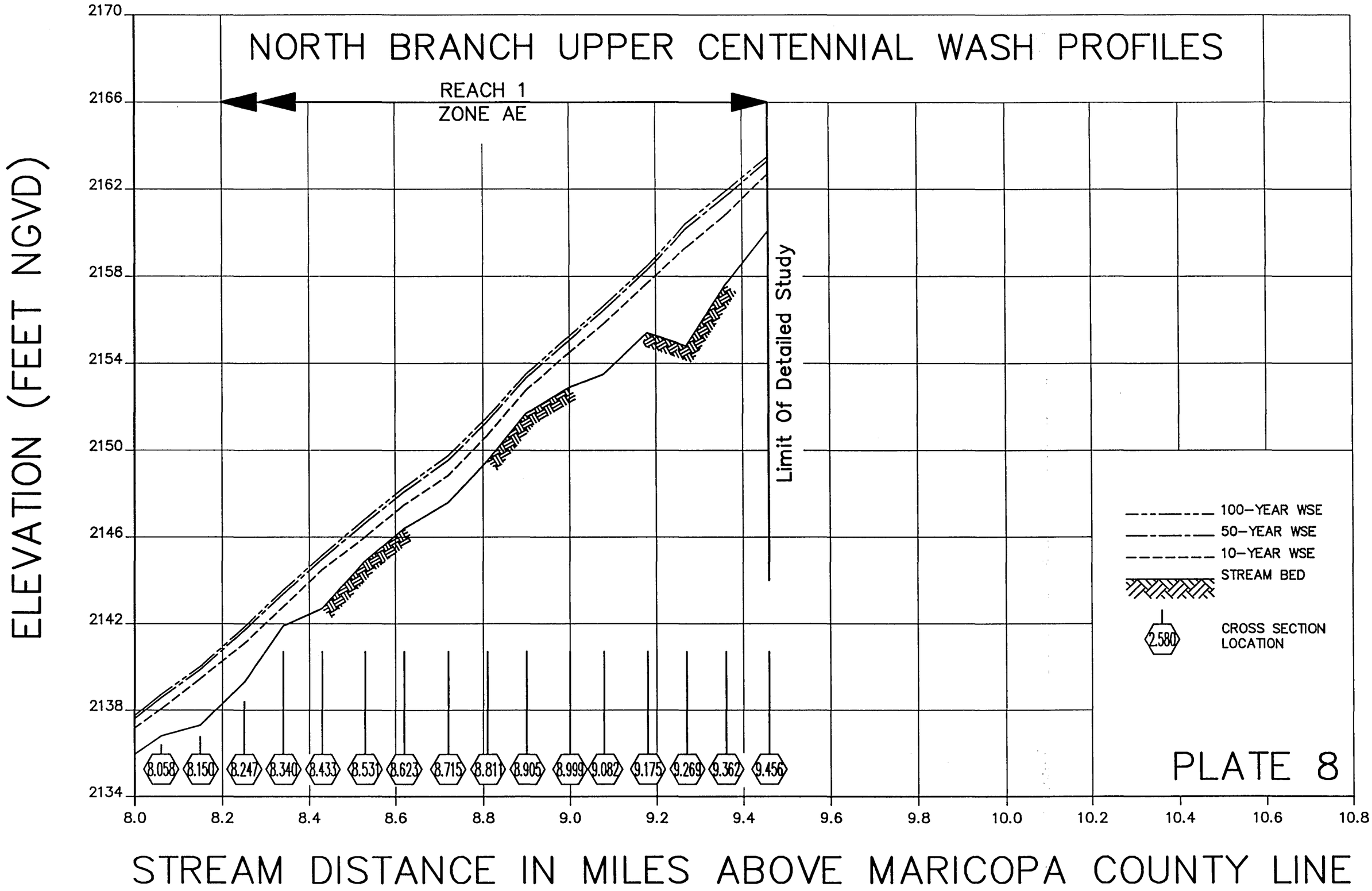

UPPER CENTENNIAL WASH FLOOD PROFILES
REACH 1
ZONE AE
Confluence with Aguila Farm Channel
ELEVATION (FEET NGVD)
2124
2120
2116
2112
2108
2104
2100
2096
2092
2088
5.0
5.2
5.4
5.6
5.8
6.0
6.2
5.065
5.159
5.255
5.351
5.443
5.537
5.630
5.724
5.819
5.911
6.005
6.143
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
PLATE 3
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE


AGUILA FARM CHANNEL FLOOD PROFILES
REACH 1
ZONE AE
Confluence with Upper Centennial Wash
Confluence with Upper Branch Centennial Wash
ELEVATION (FEET NGVD)
2142
2138
2134
2130
2126
2122
2118
2114
2110
2106
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
6.143
6.258
6.418
6.489
6.608
6.736
6.831
6.958
7.085
7.225
7.313
7.427
7.522
7.617
7.711
7.805
7.900
8.000
8.097
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
PLATE 4
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE


AGUILA FARM CHANNEL
FLOOD PROFILES
REACH 1
ZONE AE
Confluence with Grass Wash
Eagle Eye Avenue
ELEVATION (FEET NGVD)
2166
2162
2158
2154
2150
2146
2142
2138
2134
2130
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
9.6
9.8
10.0
10.2
10.4
10.6
10.8
8.000
8.097
8.196
8.300
8.399
8.508
8.631
8.749
8.865
8.974
9.071
9.164
9.258
9.349
9.444
9.589
9.682
9.773
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
PLATE 5
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE


AGUILA FARM CHANNEL
FLOOD PROFILES
ELEVATION (FEET NGVD)
2198
2194
2190
2186
2182
2178
2174
2170
2166
2162
2158
REACH 1
ZONE AE
Limit of Detailed Study
9.682
9.773
9.87
9.965
10.055
10.150
10.24
10.337
10.430
10.525
10.62
10.714
10.808
10.903
10.998
11.094
11.189
11.280
11.378
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
PLATE 6


NORTH BRANCH UPPER CENTENNIAL WASH PROFILES
REACH 1
ZONE AE
Begin Detailed Study
ELEVATION (FEET NGVD)
2146
2142
2138
2134
2130
2126
2122
2118
2114
2110
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
9.6
7.040
7.307
7.398
7.492
7.589
7.683
7.772
7.869
7.962
8.058
8.150
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
PLATE 7
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE


NORTH BRANCH UPPER CENTENNIAL WASH PROFILES
REACH 1
ZONE AE
Limit Of Detailed Study
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
CROSS SECTION LOCATION
2.580
8.058
8.150
8.247
8.340
8.433
8.531
8.623
8.715
8.811
8.905
8.999
9.082
9.175
9.269
9.362
9.456
ELEVATION (FEET NGVD)
2170
2166
2162
2158
2154
2150
2146
2142
2138
2134
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
9.6
9.8
10.0
10.2
10.4
10.6
10.8
STREAM DISTANCE IN MILES ABOVE MARICOPA COUNTY LINE
PLATE 8

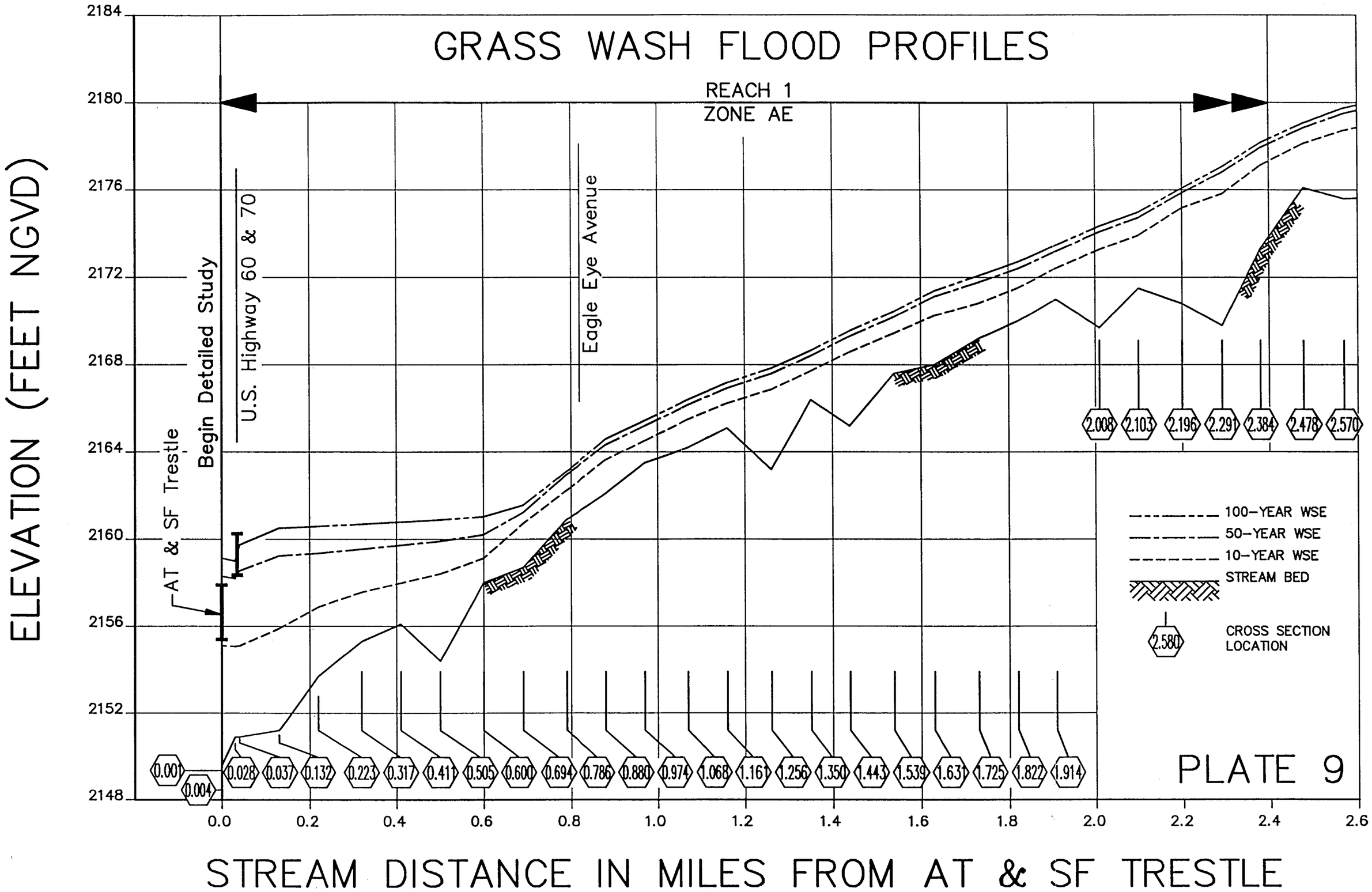
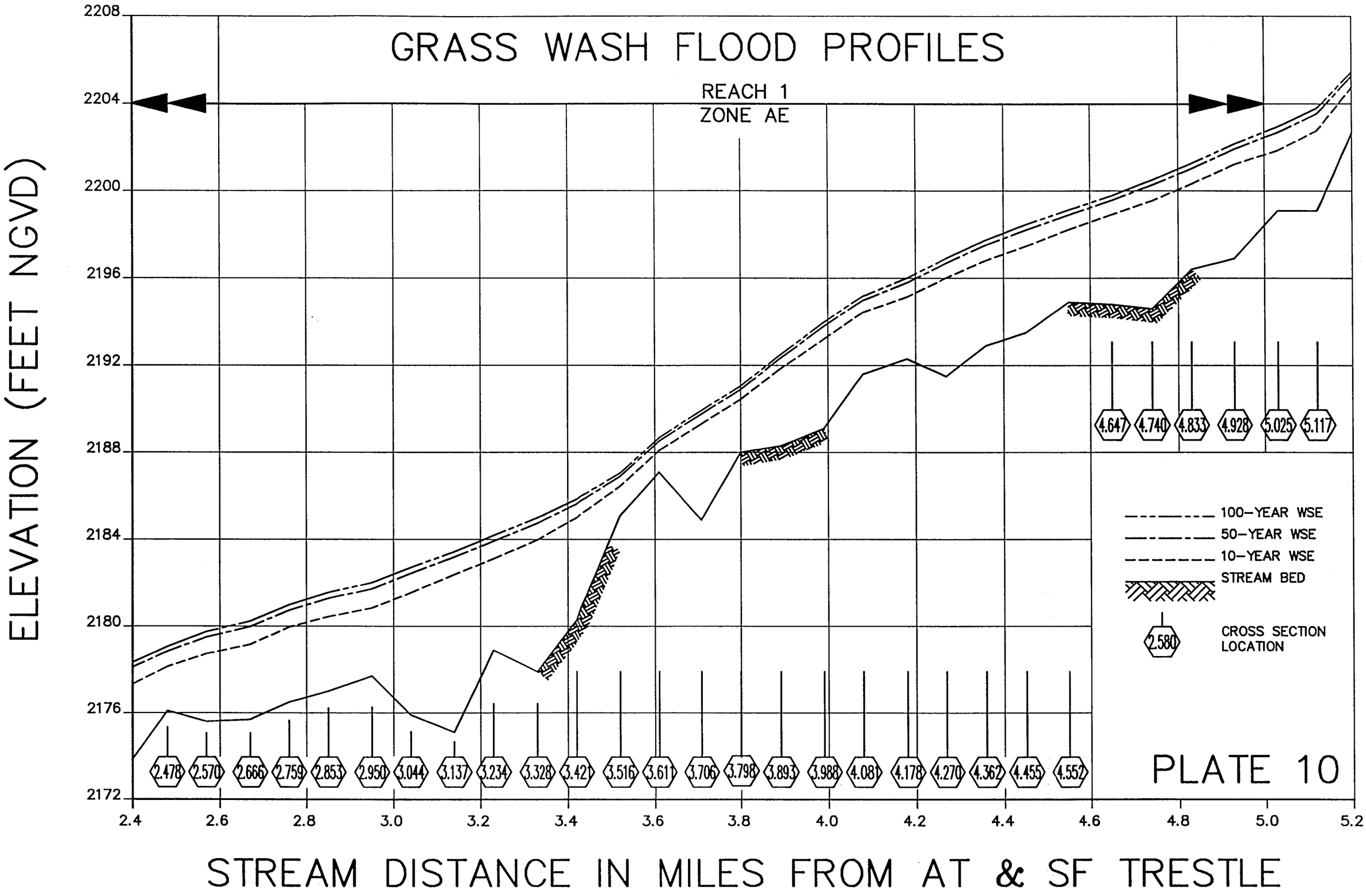
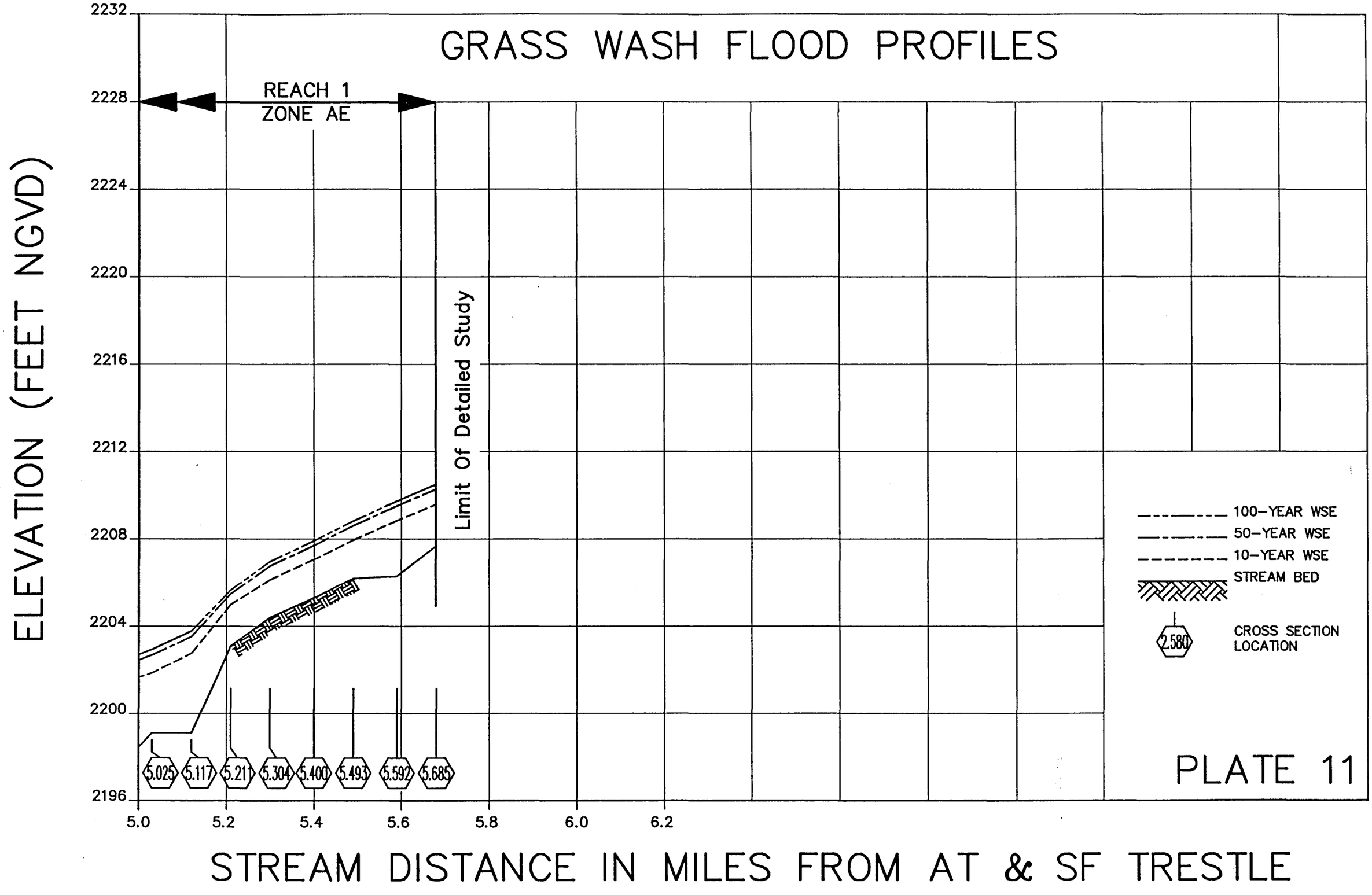

GRASS WASH FLOOD PROFILES
REACH 1
ZONE AE
ELEVATION (FEET NGVD)
2184
2180
2176
2172
2168
2164
2160
2156
2152
2148
AT & SF Trestle
Begin Detailed Study
U.S. Highway 60 & 70
Eagle Eye Avenue
0.001
0.004
0.028
0.037
0.132
0.223
0.317
0.411
0.505
0.600
0.694
0.786
0.880
0.974
1.068
1.161
1.256
1.350
1.443
1.539
1.631
1.725
1.822
1.914
2.008
2.103
2.196
2.291
2.384
2.478
2.570
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
STREAM DISTANCE IN MILES FROM AT & SF TRESTLE

PLATE 9


GRASS WASH FLOOD PROFILES
REACH 1
ZONE AE
ELEVATION (FEET NGVD)
2208
2204
2200
2196
2192
2188
2184
2180
2176
2172
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
STREAM DISTANCE IN MILES FROM AT & SF TRESTLE
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
CROSS SECTION LOCATION
2.580
2.478
2.570
2.666
2.759
2.853
2.950
3.044
3.137
3.234
3.328
3.421
3.516
3.611
3.706
3.798
3.893
3.988
4.081
4.178
4.270
4.362
4.455
4.552
4.647
4.740
4.833
4.928
5.025
5.117
PLATE 10


GRASS WASH FLOOD PROFILES
REACH 1
ZONE AE
Limit Of Detailed Study
ELEVATION (FEET NGVD)
2232
2228
2224
2220
2216
2212
2208
2204
2200
2196
5.0
5.2
5.4
5.6
5.8
6.0
6.2
5.025
5.117
5.211
5.304
5.400
5.493
5.592
5.685
100-YEAR WSE
50-YEAR WSE
10-YEAR WSE
STREAM BED
2.580
CROSS SECTION LOCATION
PLATE 11
STREAM DISTANCE IN MILES FROM AT & SF TRESTLE

APPENDICES

APPENDIX A

Upper Centennial Wash
HEC-2 Multiple Profiles

THIS RUN EXECUTED 5/16/90 14:39:12

```
**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      CENTENNIAL WASH MULTIPLE PROFILE
T2      10-YEAR DISCHARGE
T3      URS FILE: CENTEN.MPL CENTEN.OUT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0      .003       0        0        0   2044.84       0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        2       40        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        8       42       26       43       14       39       53       54

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

   -10      -10

QT       3     4880    16400    21700
NC    .040     .040     .040       .1       .3
X1   -.304       54  20775.1  21466.0       .0       .0       .0
GR  2059.7  17048.2   2059.5  17201.9   2060.2  17258.2   2056.6  17267.6   2056.6  17311.4
GR  2062.7  17347.1   2069.2  17368.4   2069.2  17381.8   2061.3  17403.9   2060.2  17459.4
GR  2059.0  17587.5   2056.2  17606.3   2058.4  17618.2   2058.8  17649.4   2057.6  17673.3
GR  2048.0  18815.3   2050.2  18825.5   2050.2  18835.3   2048.1  18839.5   2044.3  20000.0
GR  2044.6  20000.1   2044.4  20037.1   2048.2  20060.2   2048.3  20078.1   2054.3  20084.6
GR  2044.4  20102.4   2044.4  20116.3   2037.1  20126.8   2037.1  20191.6   2045.2  20202.5
GR  2045.2  20213.4   2052.8  20225.1   2049.9  20232.8   2049.1  20255.7   2043.6  20270.8
GR  2044.3  20304.2   2044.8  20775.0   2044.2  20775.1   2045.4  21414.8   2043.3  21429.1
GR  2043.2  21458.7   2044.3  21466.0   2048.6  22697.5   2049.8  22702.1   2049.7  22727.8
GR  2052.5  22747.3   2049.7  22771.3   2049.3  22796.5   2051.1  22817.0   2047.8  22825.4
GR  2050.7  22840.3   2050.9  23257.3   2053.2  23338.2   2056.6  24117.2

X1   -.212       57  20558.0  21460.0       500       470       485
GR  2065.0  16869.1   2060.8  17407.5   2056.8  17425.1   2056.9  17448.0   2059.9  17494.1
GR  2067.4  17534.3   2067.4  17546.1   2059.6  17565.5   2058.1  17596.3   2058.2  17618.0
GR  2059.7  17637.7   2059.6  17658.1   2058.3  17673.3   2048.7  18854.0   2050.9  18862.1
GR  2050.9  18871.0   2048.8  18878.2   2045.5  20000.0   2045.0  20000.1   2045.7  20018.7
GR  2049.8  20041.3   2050.2  20060.6   2054.4  20068.6   2045.9  20089.5   2046.0  20103.4
GR  2037.9  20113.8   2037.6  20177.0   2045.7  20187.3   2045.8  20199.4   2053.6  20210.7
GR  2050.3  20219.7   2050.1  20244.9   2045.4  20263.9   2045.4  20557.9   2044.7  20558.0
GR  2045.3  21387.0   2047.2  21395.5   2044.5  21407.7   2044.5  21445.9   2043.2  21452.4
GR  2044.9  21460.0   2049.0  22741.9   2051.2  22751.2   2050.0  22755.7   2050.1  22770.2
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GR   2051.6   22877.7   2051.6   22891.0   2051.3   23477.0   2054.3   23958.9   2055.3   24033.2
GR   2056.5   24220.9   2056.7   24321.7

X1   -.119       55   20369.0   21451.6    480      485      490
GR   2065.6   17010.1   2061.2   17501.8   2060.5   17532.8   2057.0   17554.3   2066.7   17611.4
GR   2066.7   17628.5   2059.4   17665.8   2060.3   17674.1   2060.3   17709.9   2058.0   17717.6
GR   2057.6   17855.5   2058.4   17861.0   2058.4   17874.1   2056.8   17886.0   2057.1   17922.1
GR   2049.9   18900.2   2051.4   18907.9   2051.4   18916.3   2050.0   18924.4   2046.7   20000.0
GR   2046.2   20000.1   2046.3   20011.7   2050.9   20031.5   2051.0   20060.1   2054.3   20068.9
GR   2046.7   20085.9   2046.7   20099.4   2038.6   20112.8   2037.9   20164.6   2045.6   20181.3
GR   2046.7   20194.7   2056.0   20208.9   2051.2   20218.8   2050.9   20248.1   2046.1   20263.2
GR   2045.7   20286.1   2045.9   20368.9   2045.3   20369.0   2045.9   21376.7   2047.6   21389.2
GR   2045.3   21397.4   2045.3   21441.6   2044.4   21445.5   2045.6   21451.6   2049.9   22799.4
GR   2051.2   22806.2   2051.4   22843.7   2057.5   22856.1   2051.4   22880.1   2052.8   22911.8
GR   2052.8   22922.2   2053.0   22939.1   2052.2   23352.7   2053.8   23721.0   2057.0   24175.9

X1   -.024       49   20258.1   21459.2    510      500      500
GR   2065.9   17156.7   2063.6   17439.3   2059.5   17521.7   2059.5   17555.0   2063.2   17579.1
GR   2068.1   17596.8   2068.0   17607.0   2060.9   17629.7   2061.3   17638.7   2061.2   17672.8
GR   2059.8   17678.5   2051.5   18924.8   2052.7   18932.1   2052.7   18938.8   2051.2   18947.3
GR   2048.1   19780.2   2046.2   19800.1   2048.1   19828.7   2047.8   20000.0   2047.4   20000.1
GR   2050.8   20025.0   2051.2   20068.9   2046.7   20093.7   2038.2   20110.9   2038.2   20156.9
GR   2046.2   20168.4   2044.3   20168.5   2050.3   20197.6   2051.1   20242.6   2046.9   20258.1
GR   2046.7   21371.5   2048.1   21382.0   2045.8   21397.1   2045.7   21437.2   2046.9   21459.2
GR   2051.4   22894.7   2058.1   22910.9   2051.2   22941.5   2053.1   22961.5   2052.9   22975.9
GR   2052.9   22989.1   2054.1   23006.7   2052.4   23030.3   2054.1   23200.6   2054.7   23395.1
GR   2061.4   23408.1   2052.4   23438.1   2055.2   23470.2   2056.7   23768.0

        Maricopa County Boundary located immediately downstream.
X1    0.070       39   20083.8   21509.2    495      500      495
GR   2064.6   17135.3   2062.5   17469.8   2060.3   17488.8   2060.2   17530.7   2068.6   17564.8
GR   2068.3   17578.8   2060.5   17596.7   2061.9   17608.8   2062.4   17640.8   2060.5   17648.0
GR   2052.8   18945.7   2051.5   18950.5   2048.4   20000.0   2047.6   20000.1   2047.4   20064.4
GR   2049.2   20075.9   2047.3   20083.8   2047.4   21280.3   2049.1   21309.5   2046.5   21332.5
GR   2048.7   21355.4   2048.8   21455.8   2049.9   21479.4   2048.3   21509.2   2053.4   22860.8
GR   2051.4   22910.6   2053.3   22955.6   2061.1   22974.1   2053.9   22996.6   2053.9   23016.9
GR   2053.9   23031.0   2056.7   23050.4   2053.1   23067.8   2054.9   23088.6   2055.3   23173.1
GR   2061.3   23192.0   2052.3   23230.4   2054.7   23263.9   2061.6   24091.1

X1    0.165       34   19811.3   21349.9    505      500      500
GR   2064.0   17197.5   2063.3   17453.9   2061.2   17463.7   2060.8   17511.5   2068.7   17546.2
GR   2068.2   17557.5   2061.6   17585.1   2061.8   17609.1   2062.7   17615.7   2062.2   17626.1
GR   2054.1   18953.9   2055.8   18960.2   2052.6   18970.3   2049.1   19811.2   2048.5   19811.3
GR   2047.7   20000.0   2047.8   20000.1   2048.3   21331.3   2049.6   21341.7   2048.3   21349.9
GR   2052.6   22701.9   2055.5   22717.7   2054.3   22722.0   2054.3   22756.3   2054.3   22772.9
GR   2054.3   22803.3   2056.2   22821.1   2053.6   22832.2   2056.2   22978.6   2061.5   22990.2
GR   2053.1   23021.5   2052.6   23073.2   2056.5   23097.8   2060.5   23881.2

X1    0.257       33   20000.0   21586.2    485      485      485
GR   2069.0   16754.3   2064.8   17451.5   2062.7   17476.3   2062.1   17534.3   2069.2   17565.0
GR   2069.4   17571.3   2063.2   17595.7   2063.9   17603.0   2064.3   17635.8   2063.5   17640.4
GR   2054.8   18999.7   2055.9   19016.3   2053.1   19025.4   2051.0   19674.0   2049.7   19674.1
GR   2048.5   20000.0   2048.7   20000.1   2049.2   21586.2   2052.8   22645.6   2055.3   22655.6
GR   2054.6   22691.2   2050.5   22711.6   2051.3   22727.0   2060.7   22768.3   2054.7   22785.7
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GR	2055.1	22817.3	2059.8	22830.8	2054.6	22858.0	2053.3	22888.6	2053.3	22910.2
GR	2054.8	22932.7	2056.2	22995.3	2060.8	23749.8				
X1	0.352	41	20833.4	22147.4	505	505	505			
GR	2068.8	17076.0	2066.4	17422.8	2064.7	17475.1	2061.9	17491.5	2061.8	17535.0
GR	2072.0	17570.2	2072.0	17581.8	2064.7	17602.9	2065.9	17610.0	2065.9	17638.9
GR	2064.7	17645.7	2056.2	18996.5	2054.9	19004.5	2055.9	19012.1	2056.1	19063.4
GR	2053.9	19072.1	2052.3	19517.7	2051.7	19517.8	2048.9	20000.0	2049.5	20000.1
GR	2049.8	20833.4	2049.6	21354.0	2051.9	22147.4	2052.9	22543.8	2055.8	22556.7
GR	2054.6	22562.9	2054.0	22582.9	2054.0	22602.2	2054.0	22615.0	2060.5	22647.6
GR	2053.9	22665.6	2053.9	22679.0	2060.2	22708.6	2056.9	22759.1	2056.9	22765.4
GR	2056.9	22778.8	2056.9	22797.9	2054.6	22826.0	2056.8	22900.9	2059.8	23051.0
GR	2061.1	23165.5								
X1	0.445	37	20708.0	21369.1	485	490	490			
GR	2068.3	17346.7	2067.7	17415.9	2065.0	17465.9	2062.7	17482.8	2062.3	17523.2
GR	2072.4	17564.3	2072.4	17574.9	2064.8	17590.6	2064.5	17601.5	2066.1	17607.2
GR	2066.1	17641.2	2064.7	17647.5	2056.6	19022.7	2054.7	19029.5	2056.2	19039.4
GR	2056.4	19093.6	2054.8	19100.8	2053.7	19355.5	2053.1	19355.6	2049.6	20000.0
GR	2049.7	20000.1	2050.6	20708.0	2050.4	21369.1	2053.1	22471.6	2055.7	22488.3
GR	2054.8	22521.8	2054.1	22587.4	2056.3	22602.6	2054.8	22621.5	2054.8	22634.7
GR	2054.8	22649.2	2060.3	22662.2	2054.4	22708.9	2054.4	22719.8	2055.6	22753.0
GR	2059.3	23411.4	2060.9	23448.1						
X1	0.541	41	20815.8	21368.6	505	500	505			
GR	2069.0	17193.2	2067.9	17440.3	2065.6	17488.0	2062.9	17508.8	2062.9	17535.5
GR	2066.8	17580.2	2072.7	17596.4	2073.2	17611.4	2064.3	17630.5	2066.0	17638.7
GR	2066.6	17669.0	2064.8	17675.7	2056.4	19054.9	2054.8	19063.0	2056.4	19069.8
GR	2056.8	19124.0	2055.0	19135.2	2055.0	19183.8	2054.6	19183.9	2051.8	19913.2
GR	2049.8	19999.6	2049.8	20000.0	2050.0	20000.1	2051.3	20032.5	2051.4	20815.8
GR	2051.5	21368.6	2054.4	22532.4	2055.7	22553.4	2055.8	22598.7	2054.6	22626.4
GR	2056.1	22650.5	2061.5	22662.8	2057.5	22675.2	2056.7	22707.0	2055.5	22726.6
GR	2055.5	22740.1	2055.5	22754.4	2057.5	23078.7	2059.6	23153.0	2058.3	23237.7
GR	2064.4	24080.1								
X1	0.633	35	20694.6	21315.0	485	485	485			
GR	2068.4	17463.1	2067.9	17558.9	2066.5	17601.4	2064.5	17609.6	2064.5	17662.5
GR	2074.0	17698.5	2073.6	17713.2	2065.6	17733.6	2066.8	17744.4	2067.4	17777.0
GR	2065.7	17784.2	2057.4	19041.8	2056.9	19041.9	2057.3	19172.5	2055.4	19186.4
GR	2051.9	19972.8	2051.2	20000.0	2051.1	20000.1	2052.3	20694.6	2052.5	21297.0
GR	2054.1	21306.0	2052.4	21315.0	2055.1	22501.8	2056.3	22512.0	2056.3	22554.4
GR	2063.8	22577.7	2056.2	22605.1	2056.8	22650.8	2059.0	22672.9	2056.6	22733.2
GR	2056.8	22864.4	2064.9	22956.0	2061.3	23029.6	2062.3	23202.8	2066.7	23280.3
X1	0.728	33	20828.4	21611.7	510	505	505			
GR	2068.2	17650.1	2066.5	17719.6	2064.5	17728.8	2064.2	17758.2	2074.0	17797.8
GR	2074.3	17815.7	2066.1	17835.7	2067.6	17843.9	2068.0	17873.8	2066.2	17878.3
GR	2059.9	18874.3	2058.9	18874.4	2057.3	19206.5	2056.2	19213.0	2053.0	19985.5
GR	2052.1	20000.0	2051.9	20000.1	2051.1	20028.9	2052.5	20075.4	2053.5	20828.4
GR	2054.1	21611.7	2055.8	22392.8	2057.0	22400.9	2056.8	22432.6	2056.8	22457.8
GR	2065.4	22473.5	2058.9	22516.8	2058.9	22539.6	2059.9	22775.6	2064.1	22809.6
GR	2059.5	22855.4	2061.3	23366.5	2065.6	23493.2				

X1	0.820	40	20886.3	21335.0	480	490	485			
GR	2071.7	17513.6	2070.6	17705.8	2067.2	17809.0	2063.8	17834.4	2063.6	17848.9
GR	2069.5	17880.0	2075.7	17894.5	2075.6	17907.3	2067.9	17938.6	2068.1	17971.1
GR	2066.8	17975.0	2061.8	18713.6	2061.2	18713.7	2056.9	19189.1	2058.1	19199.8
GR	2058.1	19243.7	2057.2	19250.2	2053.7	19922.6	2051.8	19962.7	2053.3	20000.0
GR	2053.1	20000.1	2053.9	20032.3	2054.2	20886.3	2054.3	21312.5	2055.8	21326.5
GR	2054.1	21335.0	2056.7	22293.3	2057.9	22300.6	2057.9	22308.2	2057.9	22328.5
GR	2060.3	22357.4	2064.8	22368.2	2061.2	22388.9	2061.2	22443.8	2061.2	22452.3
GR	2061.2	22476.3	2061.6	22561.4	2059.3	22626.4	2061.1	23074.6	2064.5	23689.4
X1	0.914	37	20785.2	21270.2	490	495	495			
GR	2069.4	17859.2	2068.1	17934.2	2065.0	17956.4	2064.6	17968.2	2074.6	18006.5
GR	2074.6	18016.7	2068.1	18039.0	2068.7	18080.9	2067.3	18100.1	2065.4	18570.1
GR	2064.5	18570.2	2058.2	19234.8	2058.9	19242.5	2059.3	19281.8	2057.9	19289.3
GR	2054.9	19801.4	2053.9	19841.6	2054.7	20000.0	2055.0	20000.1	2055.1	20785.2
GR	2055.1	21201.4	2056.3	21212.9	2054.5	21222.3	2055.6	21270.2	2057.4	22293.1
GR	2059.6	22311.5	2059.6	22320.7	2059.6	22338.2	2064.2	22370.1	2059.2	22386.3
GR	2059.4	22415.3	2055.4	22421.4	2060.4	22436.1	2063.3	22942.6	2061.4	22957.1
GR	2063.9	22984.7	2064.2	23098.5						
X1	1.008	53	20808.1	21350.0	500	495	500			
GR	2072.1	17817.2	2071.4	17882.8	2067.6	18019.3	2064.6	18050.6	2075.1	18107.0
GR	2075.3	18117.5	2068.0	18135.8	2068.6	18167.6	2066.9	18176.3	2065.4	18555.6
GR	2063.0	18572.1	2064.2	18590.1	2060.2	19255.6	2060.9	19261.3	2060.9	19276.0
GR	2058.3	19284.7	2060.4	19294.4	2060.6	19323.9	2058.7	19330.9	2059.4	19393.2
GR	2059.1	19393.3	2059.2	19439.7	2061.6	19468.8	2056.3	19500.3	2059.5	19557.9
GR	2059.7	19636.3	2056.7	19674.9	2056.6	19710.2	2058.4	19728.8	2056.7	19757.5
GR	2053.4	19767.8	2056.5	19782.9	2055.8	20000.0	2055.6	20000.1	2055.8	20808.1
GR	2055.7	21060.9	2057.2	21070.0	2054.3	21079.2	2055.6	21083.8	2055.6	21101.3
GR	2057.5	21108.2	2056.0	21120.7	2056.4	21350.0	2058.1	22309.2	2061.2	22322.0
GR	2059.1	22331.8	2059.1	22349.4	2061.3	22405.5	2064.9	22419.3	2061.5	22456.0
GR	2061.5	22493.9	2066.4	23412.5	2068.3	23458.3				
X1	1.097	41	20603.3	21250.0	455	460	465			
GR	2072.0	17790.7	2068.2	17904.6	2068.7	17958.4	2064.2	17967.3	2064.0	17980.7
GR	2077.1	18025.6	2068.9	18057.2	2069.0	18086.9	2066.7	18098.0	2063.1	18863.7
GR	2061.0	18878.4	2062.9	18899.5	2061.5	19202.2	2060.1	19210.1	2060.0	19244.7
GR	2061.0	19252.3	2059.9	19262.2	2058.1	20000.0	2057.9	20000.1	2057.0	20603.3
GR	2057.2	20603.4	2056.3	20655.2	2060.1	20747.6	2057.4	20797.5	2058.7	20811.5
GR	2057.2	20905.3	2058.6	20942.6	2056.9	20969.3	2057.6	21250.0	2059.8	22191.3
GR	2062.1	22206.6	2060.0	22218.0	2060.1	22234.0	2062.1	22243.1	2062.1	22272.6
GR	2066.3	22305.1	2061.9	22352.4	2061.9	22373.7	2063.2	22423.8	2066.3	23145.1
GR	2067.6	23321.2								
X1	1.184	29	20000.1	21140.0	475	460	460			
GR	2072.0	17673.1	2069.0	17729.8	2069.0	17772.1	2064.6	17784.2	2064.6	17802.8
GR	2069.7	17815.7	2071.1	17832.9	2076.8	17848.1	2068.7	17873.0	2069.5	17913.0
GR	2066.7	17922.7	2061.5	19158.3	2060.1	19167.4	2058.3	20000.0	2058.2	20000.1
GR	2058.1	20621.1	2059.3	21140.0	2061.0	21855.2	2060.6	21855.3	2061.7	22058.8
GR	2062.9	22074.3	2061.9	22089.3	2061.9	22162.1	2068.0	22181.5	2061.7	22205.7
GR	2061.7	22243.9	2063.8	22333.8	2067.1	22856.4	2068.3	22943.1		

X1	1.273	23	20000.0	21023.3	475	470	470			
GR	2072.0	17484.9	2069.9	17573.4	2066.4	17599.9	2066.4	17608.8	2077.2	17666.0
GR	2069.4	17696.2	2069.7	17733.8	2067.9	17740.7	2061.3	19068.7	2058.7	20000.0
GR	2058.6	20000.1	2058.4	20207.1	2059.1	20213.3	2059.1	20312.9	2057.9	20318.6
GR	2057.9	20346.8	2058.9	20356.9	2059.5	21023.3	2063.1	22038.7	2070.3	22060.8
GR	2063.1	22086.1	2065.8	22516.8	2069.1	22986.7				
X1	1.358	36	20000.0	21299.1	450	450	450			
GR	2072.0	17312.8	2070.3	17388.1	2067.1	17415.5	2067.1	17437.1	2077.6	17485.3
GR	2077.7	17494.1	2069.4	17514.8	2069.5	17569.5	2068.0	17576.6	2068.0	17596.9
GR	2064.7	18244.7	2062.4	18847.8	2061.1	18959.5	2063.5	18968.5	2061.3	18978.8
GR	2059.2	20000.0	2059.2	20000.1	2059.7	20065.9	2058.9	20071.2	2058.9	20095.1
GR	2059.7	20103.9	2058.7	20112.9	2061.3	21299.1	2063.6	21796.7	2064.4	21809.7
GR	2064.4	21829.4	2064.4	21848.8	2064.7	21936.3	2072.8	21953.6	2064.6	21974.4
GR	2064.8	22074.0	2067.0	22461.4	2066.9	22461.5	2069.0	22936.5	2070.6	23185.3
GR	2072.3	23377.2								
X1	1.450	41	20017.7	20941.7	485	485	485			
GR	2072.4	17124.0	2070.5	17190.4	2071.3	17218.5	2068.5	17254.5	2068.5	17268.4
GR	2078.1	17320.2	2069.8	17348.3	2070.3	17392.3	2068.8	17401.6	2064.0	18464.2
GR	2063.5	18764.8	2061.4	18824.6	2061.7	18866.9	2062.6	18875.7	2060.4	19953.0
GR	2060.7	19961.8	2059.8	19971.2	2059.8	20000.0	2060.5	20000.1	2060.5	20004.1
GR	2060.5	20008.4	2059.7	20017.7	2061.1	20239.4	2061.9	20542.7	2062.7	20941.7
GR	2063.7	21353.4	2065.2	21679.3	2066.0	21701.1	2066.0	21757.0	2066.2	21808.2
GR	2072.0	21836.0	2065.8	21866.0	2065.3	21908.3	2065.3	21924.8	2066.4	21938.0
GR	2067.4	22009.3	2068.2	22146.8	2066.9	22146.9	2068.9	22483.7	2070.5	22726.4
GR	2071.0	22920.0								
X1	1.544	42	20000.0	20775.6	500	505	500			
GR	2072.0	17041.4	2071.9	17158.3	2069.5	17184.3	2069.5	17206.2	2079.6	17246.3
GR	2079.6	17258.3	2070.9	17276.7	2070.8	17323.8	2069.6	17337.6	2065.8	18132.6
GR	2064.0	18768.7	2061.5	18834.0	2063.8	18895.5	2062.4	20000.0	2061.0	20000.1
GR	2061.3	20140.2	2058.8	20147.8	2060.1	20157.8	2060.1	20173.3	2061.6	20185.5
GR	2059.2	20197.4	2061.2	20228.6	2062.3	20317.7	2063.1	20775.6	2064.6	21190.0
GR	2066.0	21553.4	2067.1	21644.7	2068.1	21650.5	2066.1	21669.2	2067.2	21694.4
GR	2067.8	21760.6	2069.1	21777.4	2073.8	21787.9	2067.9	21812.9	2067.6	21839.2
GR	2064.7	21862.6	2067.6	21884.4	2067.9	21908.8	2067.2	21908.9	2068.3	21943.5
GR	2071.1	22439.0	2072.1	22789.4						
X1	1.639	42	20000.0	21064.4	500	495	500			
GR	2072.0	16991.7	2072.1	17007.8	2074.1	17047.2	2073.3	17077.6	2069.6	17100.6
GR	2069.5	17123.4	2073.8	17141.8	2073.7	17153.4	2080.4	17187.9	2080.6	17197.2
GR	2071.2	17218.4	2072.0	17235.0	2072.6	17266.7	2071.0	17280.7	2070.1	17550.6
GR	2064.6	18769.0	2065.2	18791.0	2062.6	18829.2	2064.2	18877.5	2065.6	18886.4
GR	2064.4	18892.5	2063.1	20000.0	2062.9	20000.1	2061.9	20192.9	2059.7	20206.7
GR	2061.6	20213.9	2061.6	20233.4	2063.7	20335.0	2065.4	21064.4	2067.6	21748.2
GR	2066.9	21748.3	2066.8	21942.7	2069.2	21961.5	2067.8	21979.1	2067.8	21999.0
GR	2068.1	22011.5	2073.8	22032.3	2066.8	22088.4	2067.4	22133.4	2069.1	22172.4
GR	2071.4	22634.2	2072.2	22849.2						

X1	1.732	48	20000.0	20902.2	490	495	490			
GR	2072.0	16932.4	2079.0	16960.7	2071.7	16978.1	2072.8	17003.7	2074.3	17050.5
GR	2071.1	17067.1	2071.7	17092.9	2079.6	17129.6	2079.6	17145.8	2072.1	17166.2
GR	2072.1	17190.6	2074.5	17199.9	2071.8	17212.6	2070.0	17780.0	2066.2	18786.1
GR	2062.8	18810.6	2062.9	18856.8	2066.6	18864.4	2065.8	18881.3	2064.3	20000.0
GR	2063.7	20000.1	2063.3	20178.8	2061.6	20185.8	2063.2	20194.6	2063.2	20210.0
GR	2064.2	20220.3	2062.5	20227.4	2064.4	20283.3	2065.1	20548.4	2066.1	20902.2
GR	2067.4	21309.9	2067.9	21562.7	2067.3	21562.8	2068.2	21952.8	2069.4	21965.6
GR	2069.4	21982.9	2070.1	21996.6	2067.8	22072.6	2076.5	22096.3	2069.4	22128.8
GR	2071.8	22170.9	2071.3	22187.3	2071.3	22216.7	2071.8	22287.4	2070.4	22514.2
GR	2073.8	22587.7	2071.0	22615.2	2076.8	23085.0				
X1	1.829	46	20000.0	20771.8	505	500	510			
GR	2077.4	16678.9	2076.1	16875.7	2072.9	16909.9	2072.9	16929.9	2078.3	16961.4
GR	2074.3	16978.5	2074.1	17010.9	2075.4	17040.5	2075.7	17088.9	2073.2	17098.7
GR	2073.2	17138.1	2080.4	17162.9	2080.4	17182.8	2072.8	17206.4	2073.3	17232.1
GR	2074.2	17249.3	2072.5	17309.7	2066.9	18788.9	2064.8	18812.4	2064.6	18849.6
GR	2067.6	18861.1	2066.9	18867.9	2065.3	20000.0	2065.0	20000.1	2064.2	20225.2
GR	2065.3	20336.0	2066.9	20771.8	2067.7	21082.3	2068.4	21411.4	2067.8	21411.5
GR	2069.3	21924.0	2070.6	21935.7	2068.6	21954.1	2070.8	21982.2	2069.3	22010.9
GR	2070.7	22122.9	2077.8	22152.8	2070.5	22179.5	2070.2	22204.3	2070.2	22211.6
GR	2070.2	22234.0	2071.4	22243.2	2072.1	22387.7	2074.7	22437.2	2076.3	22623.3
GR	2077.0	22633.9								
X1	1.921	48	19999.9	20549.7	490	505	490			
GR	2081.0	16294.8	2076.3	16828.7	2073.7	16844.8	2074.4	16867.0	2081.4	16894.8
GR	2075.5	16917.0	2075.3	16964.5	2076.8	16999.0	2077.2	17045.1	2080.6	17061.0
GR	2072.9	17090.7	2073.3	17115.8	2082.1	17165.6	2073.8	17196.9	2073.8	17222.0
GR	2075.8	17232.8	2072.7	17246.7	2068.2	18611.2	2070.0	18663.3	2067.0	18715.9
GR	2066.6	18826.3	2068.7	18839.7	2066.1	19999.9	2066.3	20000.0	2065.7	20153.4
GR	2064.2	20194.0	2065.5	20216.2	2066.9	20549.7	2068.4	21016.8	2069.2	21236.0
GR	2068.4	21236.1	2070.6	21922.1	2071.9	21931.5	2071.6	21952.0	2071.6	21971.3
GR	2070.4	21986.6	2072.9	22149.2	2079.4	22161.4	2071.9	22180.1	2072.4	22223.6
GR	2070.6	22245.9	2070.6	22272.1	2072.7	22284.9	2073.6	22307.7	2074.7	22611.8
GR	2080.4	22912.5	2079.9	23132.6	2081.6	23285.4				
X1	2.014	44	19999.9	21038.3	490	495	490			
GR	2081.0	16223.2	2077.0	16762.9	2074.7	16781.8	2074.9	16802.0	2081.9	16835.0
GR	2075.7	16857.9	2075.8	16902.9	2077.7	16959.7	2079.2	16976.3	2074.5	17009.2
GR	2074.3	17037.5	2078.6	17052.9	2078.9	17072.1	2082.7	17090.0	2082.8	17096.8
GR	2074.4	17126.2	2074.2	17158.2	2072.0	17606.4	2069.1	18827.4	2069.7	18836.0
GR	2069.0	18856.0	2067.1	19999.9	2067.0	20000.0	2066.7	20144.1	2067.6	20156.3
GR	2066.1	20175.7	2065.7	20215.8	2067.0	20289.1	2069.2	21038.3	2069.4	21082.8
GR	2069.0	21082.9	2071.7	21938.0	2073.2	21949.1	2073.2	21970.9	2073.2	22037.5
GR	2074.2	22069.0	2079.6	22099.8	2071.5	22136.7	2071.5	22154.6	2071.5	22173.8
GR	2076.5	22199.8	2077.3	22436.0	2079.7	22873.1	2081.3	23174.5		
X1	2.109	48	20000.0	20803.2	510	495	500			
GR	2080.0	16263.0	2078.8	16712.1	2075.2	16744.7	2079.2	16826.4	2076.8	16856.9
GR	2078.8	16899.5	2073.9	16928.7	2074.0	16942.3	2082.9	17004.9	2074.8	17033.7
GR	2075.3	17080.2	2069.8	18715.7	2068.1	18728.6	2068.8	18736.1	2069.2	18762.4
GR	2070.4	18770.3	2069.3	18778.5	2068.7	19453.9	2070.9	19518.1	2068.1	19540.5
GR	2070.1	19571.1	2070.1	19620.7	2068.5	19654.3	2068.4	20000.0	2068.3	20000.1

GR	2068.0	20133.8	2068.9	20139.0	2068.7	20159.8	2066.3	20174.3	2067.4	20181.6
GR	2067.4	20214.5	2068.4	20274.3	2069.0	20803.2	2069.5	20925.1	2069.3	20925.2
GR	2071.4	21609.9	2073.2	22100.3	2074.2	22111.4	2071.9	22137.8	2082.1	22171.1
GR	2073.6	22196.2	2073.6	22222.2	2073.6	22236.0	2074.6	22262.1	2075.8	22288.0
GR	2077.2	22558.2	2079.8	22898.4	2083.0	23140.4				
X1	2.204	43	20000.0	20774.2	500	495	500			
GR	2080.6	16413.5	2079.0	16699.1	2076.4	16722.2	2078.4	16740.5	2081.2	16806.3
GR	2077.2	16826.2	2077.1	16888.7	2083.8	16914.2	2084.0	16924.0	2076.3	16952.6
GR	2076.5	16992.7	2073.6	17654.4	2071.3	18256.3	2070.6	18597.3	2069.0	18602.9
GR	2069.1	18639.1	2070.9	18646.8	2068.6	20000.0	2068.6	20000.1	2068.5	20102.0
GR	2069.9	20118.8	2069.9	20140.9	2072.0	20157.3	2069.8	20170.6	2070.3	20225.9
GR	2068.1	20246.8	2070.3	20292.8	2069.0	20330.1	2069.7	20709.5	2069.7	20774.1
GR	2069.9	20774.2	2072.4	21702.8	2074.2	22169.8	2075.4	22177.8	2072.9	22200.8
GR	2083.1	22235.8	2076.1	22258.4	2075.6	22300.4	2075.6	22309.6	2076.3	22321.7
GR	2076.5	22370.0	2076.9	22734.0	2081.5	23495.0				
X1	2.298	52	19958.9	20589.6	505	500	500			
GR	2080.0	16391.9	2080.0	16463.3	2078.3	16493.4	2080.2	16592.3	2079.1	16625.6
GR	2080.4	16707.8	2077.2	16716.0	2077.8	16762.6	2085.7	16801.0	2077.7	16838.6
GR	2078.8	16878.1	2077.4	16890.4	2074.0	17583.3	2071.7	18443.4	2069.9	18449.9
GR	2070.5	18481.2	2072.1	18493.3	2071.5	18504.6	2069.6	19947.6	2070.7	19958.9
GR	2069.5	19969.1	2069.5	20000.0	2069.8	20000.1	2069.8	20012.3	2074.2	20025.4
GR	2073.4	20154.0	2066.7	20167.4	2066.4	20225.3	2073.4	20237.8	2074.4	20299.2
GR	2073.1	20356.7	2069.8	20376.1	2070.4	20589.5	2070.4	20589.6	2071.5	21104.5
GR	2072.4	21537.5	2073.8	21566.1	2070.8	21591.4	2073.1	21618.2	2075.2	22186.4
GR	2076.5	22200.2	2073.5	22215.1	2073.7	22229.8	2084.0	22259.4	2076.9	22295.9
GR	2076.9	22376.6	2076.9	22389.3	2077.9	22417.3	2078.5	22494.0	2077.4	22820.4
GR	2078.3	22881.1	2084.7	22931.6						
X1	2.390	59	19827.7	20992.3	485	495	485			
GR	2085.3	15914.8	2082.0	16514.2	2080.1	16532.9	2081.8	16619.8	2078.8	16630.9
GR	2078.8	16688.3	2085.5	16715.8	2085.3	16726.0	2078.8	16747.8	2079.8	16764.2
GR	2080.4	16793.5	2078.0	17067.5	2074.2	17861.6	2072.9	18308.0	2071.2	18317.0
GR	2071.1	18354.6	2072.9	18366.4	2072.4	18377.3	2070.5	19795.8	2070.8	19810.1
GR	2069.3	19818.1	2070.8	19827.7	2070.0	19835.2	2070.4	19999.9	2070.3	20000.0
GR	2070.3	20044.8	2069.3	20055.0	2071.2	20068.8	2070.4	20078.7	2070.5	20096.3
GR	2072.7	20107.2	2072.7	20131.2	2066.0	20140.2	2066.2	20194.2	2073.3	20207.7
GR	2073.3	20219.8	2068.6	20235.8	2069.1	20253.8	2070.4	20264.2	2069.9	20283.8
GR	2070.8	20421.9	2070.8	20422.0	2071.8	20992.3	2073.9	21639.6	2076.1	22093.5
GR	2077.3	22104.0	2077.3	22142.8	2076.3	22148.8	2077.3	22375.4	2078.4	22388.3
GR	2076.4	22412.9	2078.4	22485.2	2084.0	22523.6	2076.6	22592.8	2078.2	22652.0
GR	2075.3	22664.5	2075.8	22693.2	2081.5	22721.7	2085.7	23346.5		
X1	2.485	53	19706.5	20962.8	505	500	500			
GR	2084.6	16275.2	2084.2	16413.5	2081.8	16472.8	2081.4	16496.7	2082.4	16529.8
GR	2079.6	16538.4	2080.1	16611.5	2086.8	16631.0	2086.8	16641.4	2080.2	16666.7
GR	2080.7	16698.5	2080.6	16762.8	2078.1	17104.5	2075.8	17574.2	2074.1	18182.8
GR	2072.4	18199.4	2072.4	18233.1	2074.0	18243.4	2071.9	19327.3	2071.2	19691.6
GR	2070.1	19699.7	2071.4	19706.5	2071.6	19999.9	2071.4	20000.0	2071.4	20040.0
GR	2073.3	20052.8	2073.3	20088.0	2075.6	20096.3	2075.6	20115.6	2066.3	20131.8
GR	2066.2	20176.9	2075.5	20194.4	2075.0	20216.2	2071.4	20247.5	2071.4	20266.6
GR	2070.8	20266.7	2072.1	20962.8	2077.1	22107.8	2080.7	22659.6	2082.7	22677.0
GR	2080.1	22688.0	2080.7	22771.1	2085.5	22803.2	2079.5	22829.8	2079.2	22883.8

GR	2077.3	22894.4	2077.1	22936.1	2083.6	22951.2	2085.3	23314.4	2082.6	23330.5
GR	2083.2	23446.9	2085.9	23462.8	2086.1	23501.5				
X1	2.580	48	19608.8	20919.8	495	505	505			
GR	2084.6	16349.5	2082.6	16425.3	2083.0	16463.2	2078.7	16484.2	2078.9	16508.4
GR	2088.5	16567.7	2081.4	16592.5	2081.5	16616.1	2083.9	16633.5	2081.7	16655.9
GR	2078.2	17273.6	2075.5	18072.1	2073.0	18083.3	2075.4	18091.2	2074.3	18810.6
GR	2072.4	19608.8	2072.5	20000.0	2072.3	20000.1	2072.3	20024.4	2074.1	20036.7
GR	2074.2	20059.2	2079.0	20084.7	2079.0	20102.0	2072.1	20115.1	2071.9	20115.2
GR	2065.9	20124.3	2065.8	20168.1	2077.3	20189.6	2078.4	20220.2	2073.4	20238.5
GR	2071.7	20290.1	2072.8	20919.8	2077.1	21950.5	2078.7	21963.8	2077.3	21973.7
GR	2079.6	22474.2	2083.2	22940.9	2084.5	22954.5	2082.9	22962.1	2082.9	23009.7
GR	2089.9	23036.3	2078.8	23069.2	2086.3	23107.2	2077.8	23140.9	2077.8	23167.3
GR	2085.5	23202.6	2084.1	23212.8	2085.1	23302.8				
X1	2.670	38	19425.3	20939.4	480	480	475			
GR	2088.0	16005.0	2088.0	16146.0	2089.7	16175.0	2085.6	16194.7	2088.6	16211.0
GR	2089.0	16261.6	2087.0	16338.6	2084.1	16360.4	2084.0	16412.1	2080.5	16426.2
GR	2080.5	16498.3	2089.5	16535.8	2083.0	16568.4	2084.9	16603.5	2078.5	17520.7
GR	2077.1	18009.2	2075.5	18726.9	2074.0	19425.3	2073.7	20000.0	2072.7	20000.1
GR	2072.5	20062.4	2070.7	20068.3	2072.9	20078.7	2073.0	20102.6	2075.1	20122.6
GR	2077.3	20261.5	2073.4	20309.8	2073.8	20939.4	2078.2	22072.6	2084.5	23177.7
GR	2085.3	23188.3	2083.6	23197.3	2084.5	23224.9	2091.5	23245.4	2078.6	23319.3
GR	2078.7	23352.6	2086.1	23419.0	2089.5	23870.0				
X1	2.770	44	19615.2	20949.7	520	525	525			
GR	2088.0	16228.4	2087.4	16303.4	2085.6	16340.9	2086.3	16394.7	2082.9	16413.7
GR	2082.0	16463.9	2091.3	16490.4	2091.1	16498.7	2085.1	16525.3	2082.9	17019.1
GR	2079.4	17775.1	2077.6	18331.9	2077.4	18715.7	2075.6	18723.2	2074.3	19615.2
GR	2074.8	19883.7	2074.1	19883.8	2074.1	20000.0	2073.9	20000.1	2073.6	20108.6
GR	2072.1	20116.9	2074.0	20127.5	2074.9	20949.7	2077.0	21759.2	2078.6	22128.1
GR	2079.8	22142.3	2078.4	22148.8	2078.4	22166.2	2080.2	22590.2	2082.4	22931.5
GR	2084.3	23380.1	2086.0	23403.5	2084.2	23417.8	2083.9	23450.3	2091.3	23474.6
GR	2079.7	23534.7	2079.5	23563.0	2085.3	23584.7	2085.6	23774.9	2088.5	23814.7
GR	2086.5	23844.2	2087.9	23958.1	2088.2	24121.8	2089.3	24165.3		
X1	2.860	44	19766.9	21038.6	480	475	475			
GR	2088.0	16303.2	2082.9	16363.0	2082.4	16390.9	2093.1	16458.7	2086.1	16487.4
GR	2086.7	16522.8	2081.9	17386.2	2080.0	17920.1	2077.8	18844.1	2078.2	19095.3
GR	2076.1	19102.7	2075.7	19766.8	2075.3	19766.9	2074.6	20000.0	2075.2	20000.1
GR	2075.3	20167.3	2073.2	20173.7	2075.5	20182.7	2075.7	20220.2	2072.9	20229.5
GR	2075.2	20246.8	2075.3	20739.2	2076.1	21038.6	2078.1	21826.0	2079.0	22217.6
GR	2080.4	22226.9	2078.5	22234.8	2078.5	22251.2	2080.0	22259.5	2078.8	22267.9
GR	2080.0	22432.2	2082.7	23098.2	2083.9	23583.5	2086.9	23612.4	2084.0	23625.7
GR	2084.3	23651.9	2091.2	23679.1	2080.3	23723.6	2080.3	23754.6	2084.9	23770.6
GR	2087.2	24033.2	2090.1	24076.2	2088.4	24122.4	2088.4	24218.5		
X1	2.953	42	20000.0	21085.3	505	495	490			
GR	2088.0	16242.3	2083.4	16310.0	2083.5	16353.1	2097.4	16428.6	2087.4	16461.0
GR	2088.6	16490.4	2086.9	16510.3	2084.6	17193.6	2081.8	17802.0	2082.9	17812.5
GR	2079.5	18801.9	2081.6	18886.0	2078.1	19037.5	2078.3	19328.5	2077.0	19333.8
GR	2076.6	19674.7	2076.4	19674.8	2075.2	19999.9	2075.7	20000.0	2075.7	20013.1
GR	2076.6	20016.5	2076.6	20050.0	2075.4	20059.1	2077.3	21043.5	2075.7	21085.3
GR	2079.7	22309.8	2081.1	22322.5	2079.1	22329.5	2079.2	22352.6	2080.2	22361.0

GR	2081.3	22914.7	2081.6	23131.0	2085.4	23680.7	2086.4	23690.7	2084.7	23706.3
GR	2084.7	23731.4	2092.1	23754.0	2079.9	23829.1	2079.9	23840.4	2086.5	23855.7
GR	2087.4	23879.4	2088.7	24312.9						
X1	3.035	56	20000.1	21082.3	530	390	435			
GR	2096.2	15417.7	2092.8	15866.3	2088.4	15893.8	2089.1	16003.9	2101.0	16062.4
GR	2101.0	16088.2	2087.8	16101.5	2087.7	16179.1	2090.7	16225.5	2098.1	16243.8
GR	2089.6	16275.6	2089.8	16580.0	2089.8	16580.1	2089.5	16710.1	2090.4	16729.8
GR	2089.0	16739.9	2085.9	17357.8	2085.3	17710.2	2084.8	17710.3	2084.2	18116.2
GR	2082.4	18134.8	2085.0	18148.7	2084.8	18331.5	2082.3	18348.6	2084.2	18386.1
GR	2084.6	18475.8	2083.7	18555.7	2080.4	19086.0	2078.1	19323.9	2079.1	19418.6
GR	2078.0	19424.7	2078.0	19457.6	2077.6	19457.7	2077.1	19678.5	2074.1	19694.7
GR	2077.7	19707.6	2077.8	19735.6	2075.8	19746.3	2077.3	19766.4	2077.1	20000.0
GR	2077.8	20000.1	2077.1	21082.3	2081.6	22320.2	2080.1	22323.9	2080.5	22352.3
GR	2082.6	23064.1	2085.0	23662.1	2086.5	23675.1	2084.6	23698.9	2085.0	23713.0
GR	2090.5	23733.7	2080.6	23804.1	2080.7	23816.3	2087.2	23831.2	2088.3	23873.6
GR	2089.1	24306.6								
X1	3.127	55	20000.1	21065.6	490	480	485			
GR	2096.0	15527.8	2094.8	15762.4	2089.6	15789.2	2089.2	15873.4	2099.9	15930.7
GR	2099.9	15955.5	2088.6	15977.7	2088.6	16054.6	2090.6	16069.5	2090.7	16086.7
GR	2100.6	16125.0	2090.6	16153.3	2091.6	16357.8	2092.0	16357.9	2090.6	16461.8
GR	2094.7	16483.8	2091.1	16504.8	2086.1	17780.4	2086.8	17808.6	2085.7	17820.6
GR	2085.6	17927.6	2088.2	18048.6	2088.3	18126.3	2086.9	18222.0	2087.7	18288.9
GR	2083.2	18382.4	2082.1	18676.3	2084.7	18762.6	2083.7	18815.4	2083.7	18815.5
GR	2080.5	19217.9	2078.7	19218.0	2078.7	19330.3	2079.9	19335.7	2080.7	19373.3
GR	2078.5	19387.0	2079.6	19478.7	2080.6	19490.8	2081.6	19547.4	2078.4	19564.6
GR	2077.8	20000.0	2077.9	20000.1	2078.9	21023.2	2077.6	21065.6	2080.9	22047.5
GR	2081.6	22307.7	2079.7	22311.4	2086.5	23628.8	2084.5	23660.6	2092.6	23676.4
GR	2086.5	23735.3	2086.5	23753.0	2083.5	23786.6	2087.5	23858.8	2088.6	24079.9
X1	3.220	52	20000.1	21057.1	500	495	490			
GR	2100.4	14866.4	2098.3	15316.2	2095.3	15651.9	2090.6	15686.9	2090.1	15729.1
GR	2101.9	15805.6	2101.9	15824.9	2090.4	15842.6	2088.8	15923.2	2092.6	15935.6
GR	2092.9	15948.5	2101.1	15979.2	2092.8	16010.3	2093.6	16138.3	2093.1	16138.4
GR	2093.4	16239.8	2095.8	16254.7	2092.4	16274.9	2087.0	17559.8	2088.7	17582.7
GR	2086.7	17597.9	2087.0	17699.1	2088.2	17747.6	2086.7	17799.9	2082.3	18442.7
GR	2080.5	19303.7	2081.8	19321.9	2079.9	19334.1	2079.9	19376.5	2081.6	19392.1
GR	2079.9	19422.1	2079.7	19924.3	2079.9	19924.4	2079.9	20000.0	2080.0	20000.1
GR	2079.8	20564.6	2081.8	20629.9	2080.0	20645.9	2079.3	21057.1	2080.7	21667.7
GR	2082.5	22274.4	2083.9	22285.3	2081.4	22290.5	2081.4	22318.8	2082.5	22335.7
GR	2084.3	22928.4	2087.9	23575.7	2086.1	23594.0	2093.6	23622.3	2086.7	23677.9
GR	2089.4	23740.7	2089.1	23872.8						
X1	3.312	47	20000.0	20994.8	495	490	490			
GR	2100.4	14863.0	2098.5	15261.5	2096.5	15507.5	2091.3	15547.2	2091.5	15605.3
GR	2097.2	15639.9	2098.3	15666.2	2095.3	15700.2	2088.4	15732.5	2088.4	15750.6
GR	2100.9	15810.7	2101.2	15825.9	2093.3	15863.1	2093.5	15909.0	2094.2	15909.1
GR	2094.2	16015.0	2096.6	16029.8	2093.7	16050.7	2088.1	17326.8	2089.5	17350.0
GR	2087.9	17374.8	2088.1	17536.4	2091.1	17650.1	2085.1	17797.5	2083.6	18179.6
GR	2082.2	18977.7	2080.6	20000.0	2080.2	20000.1	2080.8	20617.1	2080.6	20994.7
GR	2081.2	20994.8	2081.3	21660.7	2083.1	22297.3	2085.5	22307.6	2083.1	22315.8
GR	2083.2	22345.9	2080.9	22348.5	2082.7	22357.4	2086.9	23341.2	2088.3	23601.9
GR	2090.8	23616.8	2088.4	23621.7	2088.1	23651.7	2093.1	23676.0	2088.5	23710.7

GR	2091.8	24206.9	2092.6	24287.0						
X1	3.406	54	20000.0	21395.3	490	495	495			
GR	2100.6	14909.4	2097.8	15272.6	2096.1	15286.3	2096.1	15315.2	2098.0	15327.8
GR	2095.4	15360.4	2092.9	15377.3	2092.1	15440.0	2102.8	15481.5	2102.7	15499.7
GR	2091.8	15531.3	2091.5	15561.0	2102.7	15628.7	2095.1	15681.6	2095.6	15681.7
GR	2096.3	15719.2	2096.3	15784.8	2098.7	15808.3	2095.6	15826.1	2090.5	16831.3
GR	2088.8	17586.1	2091.6	17692.2	2086.1	17835.9	2084.9	18513.7	2084.4	18875.8
GR	2087.7	18968.5	2084.6	19059.7	2082.7	19283.9	2082.0	19490.4	2082.0	19552.1
GR	2083.3	19564.4	2081.7	19581.2	2081.9	20000.0	2081.4	20000.1	2081.1	20571.1
GR	2081.4	21395.3	2083.3	22076.5	2083.3	22078.2	2084.0	22078.3	2084.7	22377.8
GR	2083.4	22379.9	2083.4	22411.1	2080.3	22415.3	2083.5	22426.7	2086.6	22895.4
GR	2088.3	23357.5	2089.8	23666.5	2091.1	23679.6	2089.5	23705.8	2095.4	23732.1
GR	2090.3	23760.8	2090.9	23874.7	2091.6	24156.5	2093.3	24362.7		
X1	3.500	50	20000.1	21208.0	500	495	495			
GR	2100.4	14976.8	2098.8	15157.9	2094.0	15178.0	2093.4	15239.2	2097.1	15246.6
GR	2104.4	15268.6	2104.4	15287.1	2092.4	15330.6	2092.3	15369.5	2103.5	15425.9
GR	2096.1	15457.2	2096.9	15466.1	2097.3	15466.2	2099.4	15542.3	2097.4	15565.4
GR	2096.7	15742.5	2098.3	15781.0	2096.5	15790.3	2091.2	16720.3	2091.1	17178.6
GR	2088.7	17548.2	2086.8	17568.3	2089.4	17578.6	2087.9	17589.6	2087.1	17934.7
GR	2086.2	18463.0	2086.8	18685.4	2090.5	18854.6	2085.0	19082.0	2086.6	19351.5
GR	2083.2	19475.3	2082.6	19560.3	2083.1	19582.6	2082.8	20000.0	2082.9	20000.1
GR	2082.0	20636.6	2083.0	21208.0	2084.3	21968.7	2085.9	22535.7	2088.7	23203.5
GR	2088.6	23203.6	2090.9	23723.3	2098.8	23749.5	2088.9	23793.5	2091.1	23858.0
GR	2092.6	24104.9	2094.2	24490.0	2091.0	24510.5	2093.9	24543.8	2093.9	24586.2
X1	3.595	49	20000.0	21018.5	500	500	500			
GR	2100.6	14827.2	2100.8	14920.8	2094.7	14938.9	2095.8	14997.2	2106.1	15027.7
GR	2106.1	15054.7	2094.7	15103.6	2094.7	15146.5	2105.1	15206.0	2097.2	15230.4
GR	2099.1	15244.5	2099.2	15249.0	2098.8	15249.1	2100.1	15316.8	2097.9	15337.8
GR	2096.0	15909.5	2098.1	15934.2	2095.1	15945.4	2093.3	16646.9	2089.9	17395.8
GR	2088.6	17863.3	2087.6	18495.4	2090.2	18696.0	2089.4	18804.6	2090.6	18965.8
GR	2090.7	19079.1	2085.3	19443.2	2083.4	19707.4	2084.4	19719.0	2083.8	20000.0
GR	2083.1	20000.1	2083.1	21018.5	2085.0	21701.8	2085.9	22319.1	2090.1	23381.1
GR	2091.3	23381.2	2091.5	23665.8	2100.7	23693.1	2089.4	23749.4	2089.9	23781.9
GR	2093.0	23794.4	2093.0	23815.9	2089.6	23826.6	2092.0	23840.4	2094.7	24282.6
GR	2094.7	24318.8	2094.1	24318.9	2096.5	24684.9	2096.5	24772.4		
X1	3.688	52	20000.0	21230.0	495	500	495			
GR	2103.4	14468.4	2101.6	14741.5	2098.7	14831.4	2096.2	14843.0	2096.0	14917.9
GR	2107.5	14971.7	2099.0	14996.0	2100.7	15008.7	2101.1	15027.2	2100.5	15027.3
GR	2101.0	15088.0	2099.5	15098.0	2095.1	16056.5	2097.2	16083.6	2095.1	16100.0
GR	2094.4	16535.8	2092.4	16967.6	2091.4	17183.2	2094.4	17463.3	2094.1	17584.6
GR	2091.0	17676.8	2090.5	17959.9	2093.3	18062.5	2089.8	18235.3	2090.1	18341.5
GR	2091.5	18422.7	2087.7	18631.1	2085.0	19732.3	2083.4	19754.2	2083.4	19771.8
GR	2085.2	19789.1	2085.1	20000.0	2084.7	20000.1	2084.2	20766.6	2084.5	21230.0
GR	2085.0	21930.0	2084.4	21986.3	2087.4	22044.9	2085.6	22060.3	2086.3	22236.1
GR	2090.0	23162.0	2091.1	23162.1	2091.7	23504.5	2100.2	23539.5	2090.8	23620.7
GR	2090.6	23649.6	2093.7	23662.6	2093.7	23696.5	2091.7	23704.4	2093.5	23713.0
GR	2095.4	24263.5	2098.4	24654.3						

X1	3.794	55	20000.0	21498.4	460	630	560			
GR	2104.0	14425.2	2102.4	14659.9	2098.9	14761.3	2096.3	14788.0	2096.0	14867.2
GR	2106.9	14903.3	2099.4	14931.8	2101.0	14960.4	2100.1	14960.5	2101.7	15015.2
GR	2100.1	15030.9	2095.7	16115.7	2097.7	16144.6	2094.9	16163.2	2093.5	16678.6
GR	2092.6	16953.6	2090.6	16966.9	2093.3	16981.1	2092.9	17044.4	2095.5	17171.6
GR	2095.1	17324.1	2092.5	17470.5	2092.1	17593.6	2094.1	17841.1	2091.0	18073.8
GR	2090.6	18263.7	2086.9	18506.8	2086.7	18820.7	2087.6	18863.2	2086.2	18902.9
GR	2086.0	19500.7	2085.8	19999.2	2085.9	20000.0	2086.3	20000.1	2086.3	20110.5
GR	2085.2	20136.9	2085.5	20835.4	2086.7	21498.4	2087.6	22099.3	2086.3	22109.3
GR	2086.3	22134.5	2087.3	22149.3	2090.4	22845.7	2090.8	22845.8	2092.9	23397.5
GR	2100.9	23427.7	2091.7	23486.7	2089.6	23509.9	2089.5	23533.8	2094.4	23544.9
GR	2094.4	23570.3	2091.4	23578.7	2094.5	23590.0	2095.7	23971.4	2098.6	24369.3
X1	3.898	49	20000.1	21467.8	440	620	545			
GR	2104.0	14341.8	2102.1	14604.3	2099.4	14664.9	2095.3	14684.2	2094.9	14719.3
GR	2098.9	14759.3	2107.4	14804.4	2100.7	14827.5	2100.9	14864.2	2101.6	14864.3
GR	2100.9	14902.7	2102.1	14915.3	2100.4	14928.5	2097.1	15616.1	2095.4	16139.2
GR	2096.8	16153.3	2096.9	16194.9	2095.2	16206.9	2094.9	16578.6	2096.5	16864.6
GR	2092.4	17026.2	2089.1	18052.5	2087.3	18747.7	2086.2	19461.6	2086.3	19787.3
GR	2087.4	19860.4	2086.6	19941.1	2086.6	20000.0	2086.9	20000.1	2087.0	21355.2
GR	2088.9	21414.2	2087.2	21467.8	2088.5	22016.8	2089.2	22027.0	2087.6	22035.4
GR	2087.6	22059.6	2088.1	22070.4	2090.3	22567.4	2090.6	22567.5	2093.4	23339.5
GR	2102.3	23384.4	2090.5	23454.4	2090.5	23487.4	2095.3	23510.8	2095.3	23540.3
GR	2091.7	23547.2	2095.3	23558.7	2097.9	24005.4	2097.9	24012.6		
X1	4.006	63	20000.0	21204.6	440	650	570			
GR	2104.0	14310.0	2102.7	14547.4	2099.1	14608.5	2095.1	14642.3	2094.8	14666.0
GR	2100.1	14711.9	2107.7	14756.9	2101.8	14771.9	2101.6	14809.2	2100.9	14809.3
GR	2102.2	14857.9	2099.6	14903.6	2097.8	15449.9	2095.5	16180.8	2095.5	16222.8
GR	2096.4	16237.8	2096.3	16274.8	2094.4	16284.1	2095.4	16395.1	2097.7	16476.7
GR	2096.8	16503.9	2094.8	16533.7	2093.7	16607.4	2092.2	17076.0	2091.7	17505.7
GR	2089.6	17995.3	2087.8	18602.3	2087.7	18882.7	2089.6	18949.6	2087.8	18996.2
GR	2087.8	19079.0	2088.9	19127.2	2087.4	19204.3	2087.5	19584.6	2089.9	19656.3
GR	2089.7	19722.4	2090.5	19792.3	2088.1	19930.5	2088.1	20000.0	2087.7	20000.1
GR	2087.6	20523.1	2087.6	21204.6	2089.1	22047.1	2090.5	22069.1	2088.8	22081.1
GR	2088.1	22102.9	2088.9	22107.1	2090.2	22360.6	2090.8	22360.7	2092.3	22954.5
GR	2094.1	23317.7	2097.2	23325.0	2093.7	23333.7	2094.6	23353.3	2101.5	23367.6
GR	2101.6	23389.0	2090.3	23445.5	2090.3	23470.0	2096.2	23488.4	2098.1	23524.5
GR	2092.5	23531.2	2096.4	23538.1	2099.1	23778.6				
X1	4.104	55	25222.9	26840.1	410	590	520			
GR	2104.0	19531.0	2103.2	19728.6	2096.3	19798.1	2095.3	19853.3	2106.3	19946.7
GR	2102.3	19955.5	2102.5	19988.3	2106.0	20000.0	2101.1	20036.3	2101.2	20055.4
GR	2102.7	20066.6	2102.7	20092.2	2100.5	20099.9	2097.3	21081.6	2095.5	21559.1
GR	2096.3	21565.6	2096.2	21617.7	2095.3	21632.3	2097.2	21725.8	2094.5	21787.4
GR	2093.9	22062.9	2093.1	22318.5	2091.7	22781.5	2094.6	22862.4	2090.2	22980.4
GR	2089.9	23386.1	2089.4	23850.7	2092.9	23958.8	2090.1	24047.3	2090.3	24557.8
GR	2092.1	24684.7	2089.6	24897.8	2089.3	25221.9	2089.2	25222.0	2089.2	25222.5
GR	2089.2	25222.9	2089.3	25991.6	2089.4	26840.1	2090.6	27353.9	2089.3	27393.1
GR	2090.6	27464.4	2090.1	27464.5	2092.3	28017.1	2095.0	28497.2	2104.6	28539.3
GR	2099.2	28572.6	2099.2	28590.2	2093.1	28613.6	2092.4	28646.1	2092.4	28671.2
GR	2095.8	28689.9	2097.5	28739.8	2092.7	28751.2	2097.4	28760.0	2097.9	28912.8

X1	4.205	69	20110.5	21717.8	420	600	535			
GR	2104.0	14316.0	2103.5	14452.5	2102.0	14482.2	2096.9	14544.8	2096.9	14566.5
GR	2103.6	14603.7	2097.5	14624.9	2096.2	14705.3	2099.0	14722.9	2099.0	14748.8
GR	2100.3	14752.1	2099.0	14752.2	2105.5	14772.9	2100.9	14787.7	2105.5	14806.3
GR	2101.4	14822.1	2101.2	14897.0	2102.4	14919.0	2100.5	14931.1	2097.6	15755.6
GR	2096.5	16252.6	2095.7	16492.8	2096.7	16501.8	2096.7	16526.9	2094.9	16541.8
GR	2094.4	16994.5	2096.9	17089.3	2092.8	17261.4	2092.3	17394.2	2093.0	17483.4
GR	2095.6	17541.1	2091.6	17643.3	2091.4	18038.2	2094.4	18105.8	2091.7	18157.6
GR	2091.2	18277.6	2093.7	18435.9	2091.8	18528.4	2091.9	18726.2	2093.9	18800.1
GR	2092.9	19076.4	2092.0	19275.1	2091.5	19457.2	2090.1	19529.4	2089.8	20000.0
GR	2089.7	20000.1	2089.4	20100.5	2090.3	20110.5	2089.7	20928.3	2090.5	21717.8
GR	2091.3	22169.7	2091.1	22169.8	2090.8	22242.3	2092.5	22249.2	2091.9	22285.2
GR	2090.4	22289.7	2092.2	22704.8	2096.1	23469.5	2103.3	23500.6	2100.4	23538.9
GR	2101.2	23554.3	2093.6	23581.2	2093.6	23609.0	2093.6	23634.0	2096.9	23706.0
GR	2094.9	23717.2	2097.5	23729.4	2099.3	24226.9	2101.9	24679.2		
X1	4.303	49	20224.1	21394.8	400	590	515			
GR	2103.9	14387.8	2102.1	14482.7	2096.6	14540.2	2096.7	14554.9	2106.1	14595.3
GR	2100.5	14618.0	2104.7	14645.4	2097.3	14664.6	2096.9	14713.7	2099.8	14725.8
GR	2099.8	14744.2	2098.7	14752.2	2097.7	14752.3	2097.7	14799.4	2107.9	14872.2
GR	2101.8	14898.3	2101.6	14953.8	2101.9	14974.9	2100.7	14991.9	2097.2	15787.2
GR	2095.8	16429.2	2095.3	16864.2	2096.1	17138.9	2094.8	17457.8	2094.0	17967.2
GR	2095.1	18013.8	2093.8	18096.2	2095.1	18547.3	2092.2	19033.1	2091.2	19305.9
GR	2089.8	19700.9	2089.8	19806.3	2092.0	19825.2	2089.6	19856.8	2088.9	19977.7
GR	2092.7	19988.0	2092.8	19999.9	2092.5	20000.0	2092.6	20072.5	2091.5	20146.4
GR	2090.9	20224.1	2090.6	20846.5	2091.0	21394.8	2091.1	22138.9	2092.0	22668.0
GR	2096.0	23764.0	2100.0	23808.0	2100.0	24028.0	2104.0	25048.0		
X1	4.401	51	20523.1	21429.1	500	520	520			
GR	2104.0	14762.7	2102.3	15058.4	2107.6	15077.7	2096.2	15115.9	2095.1	15129.3
GR	2106.6	15187.7	2101.2	15207.3	2101.1	15256.2	2102.7	15278.1	2100.6	15291.3
GR	2098.7	16056.4	2096.9	16854.7	2098.8	17010.1	2096.6	17080.9	2096.0	17221.9
GR	2098.3	17351.9	2093.4	17475.5	2092.2	17703.3	2093.9	17865.8	2096.4	17947.6
GR	2094.6	18011.0	2094.4	18232.9	2092.2	18250.8	2094.6	18262.3	2093.0	18909.4
GR	2091.0	19526.2	2091.1	19956.7	2091.4	19999.9	2091.8	20000.0	2092.8	20066.9
GR	2092.9	20167.5	2092.1	20523.1	2091.3	21061.8	2090.8	21366.9	2092.0	21371.7
GR	2092.1	21429.1	2091.9	22150.4	2091.5	22150.5	2091.7	22675.2	2093.3	22679.5
GR	2093.9	23326.3	2096.8	23985.1	2099.0	23996.1	2100.2	24015.6	2108.0	24025.6
GR	2100.5	24070.1	2100.5	24115.5	2097.0	24131.0	2099.6	24629.9	2103.5	25188.9
GR	2104.8	25444.1								
X1	4.496	60	20621.6	22152.6	500	495	500			
GR	2105.5	14826.8	2103.0	15379.8	2110.2	15399.9	2107.4	15458.1	2107.4	15516.7
GR	2101.4	15527.1	2101.4	15542.9	2102.8	15560.5	2101.2	15573.7	2100.5	16012.5
GR	2099.1	16538.3	2098.1	16829.1	2099.1	16969.2	2100.0	17024.9	2097.5	17116.7
GR	2096.8	17227.2	2097.5	17324.3	2096.1	17385.3	2096.1	17484.9	2099.3	17568.6
GR	2096.9	17764.7	2095.5	17803.9	2097.1	17880.6	2096.4	17936.3	2096.3	18078.4
GR	2094.7	18130.1	2099.1	18253.3	2100.5	18348.8	2089.6	18429.3	2087.4	18547.2
GR	2090.9	18587.1	2101.4	18636.6	2093.8	18678.6	2093.6	18786.2	2093.7	19224.3
GR	2092.1	19583.3	2092.1	19744.4	2093.0	19845.5	2096.2	19976.4	2096.0	20000.0
GR	2096.1	20000.1	2095.9	20091.8	2093.4	20109.0	2092.6	20621.6	2091.8	21169.7
GR	2092.4	22152.6	2092.8	22152.7	2092.4	22667.6	2093.9	22672.3	2094.4	23067.3
GR	2096.5	23994.7	2100.0	24004.0	2101.2	24018.5	2110.5	24030.7	2100.6	24071.7

GR	2100.6	24111.9	2097.5	24152.3	2100.1	24791.5	2103.2	25325.9	2105.0	25635.9
X1	4.592	50	20873.0	21373.9	500	500	505			
GR	2105.6	14990.7	2102.4	15596.4	2108.1	15616.0	2108.1	15683.9	2108.8	15743.4
GR	2101.8	15763.8	2101.5	15790.8	2103.1	15812.7	2101.7	15828.3	2100.1	16625.5
GR	2098.2	17170.8	2096.5	17684.2	2095.9	18086.9	2095.9	18427.0	2093.5	18462.0
GR	2099.0	18502.5	2095.2	18521.2	2095.6	18705.2	2094.0	18748.0	2096.2	18759.0
GR	2094.5	19251.5	2094.2	19907.3	2096.5	19975.3	2095.3	20000.0	2095.4	20000.1
GR	2094.1	20051.7	2093.9	20113.2	2094.9	20117.8	2094.9	20149.4	2093.9	20161.1
GR	2092.9	20873.0	2092.7	21363.2	2093.4	21373.9	2093.0	22160.5	2093.3	22160.6
GR	2093.2	22672.9	2094.3	22677.5	2094.8	23490.0	2094.8	24008.3	2099.8	24016.5
GR	2100.4	24033.3	2109.2	24043.7	2099.1	24087.0	2099.1	24124.0	2098.6	24156.4
GR	2101.1	24983.1	2102.8	25293.7	2104.8	25305.6	2102.8	25342.0	2104.6	25733.7
X1	4.686	55	20638.2	22144.8	500	495	495			
GR	2107.4	14934.7	2104.6	15394.3	2101.9	15972.1	2107.3	15991.3	2107.3	16066.1
GR	2108.0	16120.9	2101.2	16140.8	2101.1	16175.1	2102.9	16198.2	2101.4	16214.2
GR	2100.2	16905.7	2097.7	17466.7	2097.0	18022.1	2096.6	18489.8	2096.4	18533.9
GR	2093.6	18538.3	2096.5	18551.7	2096.8	18724.3	2096.7	19111.6	2097.2	19168.9
GR	2095.4	19211.4	2097.2	19251.9	2096.8	19410.6	2095.5	19536.2	2093.1	19547.9
GR	2093.5	19622.1	2095.2	19627.6	2094.6	20000.0	2093.8	20000.1	2094.1	20103.4
GR	2095.1	20108.9	2095.1	20147.3	2094.0	20153.5	2093.8	20638.2	2093.5	21090.7
GR	2093.1	21348.8	2094.1	21356.1	2094.5	22144.8	2094.4	22144.9	2093.5	22663.4
GR	2094.5	22668.4	2095.4	22735.6	2095.9	23531.2	2097.1	24012.8	2101.1	24020.2
GR	2101.3	24035.4	2109.6	24045.7	2098.5	24083.7	2098.5	24124.7	2099.5	24483.2
GR	2100.9	24932.8	2103.1	25282.3	2104.5	25297.9	2103.0	25312.6	2103.8	25591.8
X1	4.781	48	20692.1	22135.3	505	510	505			
GR	2106.2	15407.7	2104.6	15809.6	2102.6	16411.6	2109.3	16439.2	2108.3	16510.4
GR	2108.3	16560.8	2101.7	16578.3	2101.3	16600.6	2103.0	16617.8	2101.7	16629.9
GR	2100.4	17222.7	2098.7	17912.9	2097.9	18384.2	2099.3	18418.2	2098.0	18461.7
GR	2099.4	18541.3	2099.2	18602.6	2097.7	18654.3	2098.6	18675.1	2097.4	18911.3
GR	2096.9	19226.4	2096.7	19319.5	2095.3	19361.1	2096.0	19448.1	2095.1	20000.0
GR	2094.7	20000.1	2094.7	20096.1	2095.6	20104.1	2096.0	20135.6	2095.1	20148.3
GR	2094.3	20692.1	2093.4	21343.6	2094.8	21348.1	2094.8	22135.3	2095.2	22135.4
GR	2094.5	22655.1	2095.8	22658.5	2095.6	22943.5	2096.5	23703.8	2097.2	24008.3
GR	2100.1	24018.8	2100.6	24033.2	2109.3	24048.7	2099.5	24086.4	2099.5	24142.5
GR	2100.6	24766.8	2103.5	25282.4	2105.1	25679.2				
X1	4.877	41	20800.9	22126.0	510	500	505			
GR	2108.2	15300.7	2106.3	15942.1	2103.3	16691.4	2110.0	16713.0	2109.2	16764.8
GR	2109.2	16819.6	2102.0	16835.2	2101.7	16859.1	2103.6	16875.7	2100.9	17516.4
GR	2099.3	18188.1	2098.2	18730.5	2099.5	18760.1	2098.1	18766.2	2096.8	19471.8
GR	2096.8	20000.0	2096.3	20000.1	2095.6	20101.6	2096.7	20108.5	2096.7	20139.4
GR	2095.6	20147.7	2094.5	20800.9	2094.4	21343.0	2095.9	21356.9	2096.1	22126.0
GR	2095.7	22126.1	2095.4	22656.9	2095.9	22660.3	2096.9	23326.5	2097.8	24017.1
GR	2099.9	24024.1	2100.0	24041.3	2109.4	24052.9	2099.3	24078.4	2099.3	24112.5
GR	2099.3	24142.0	2100.4	24633.1	2102.8	25284.9	2104.3	25296.8	2103.5	25313.9
GR	2105.9	25774.5								

X1	4.972	40	21123.3	22119.4	500	495	500			
GR	2109.1	15371.8	2108.9	15533.1	2109.6	15539.3	2109.6	15579.7	2108.2	15583.0
GR	2105.5	16129.0	2103.5	16960.8	2108.9	16985.7	2108.9	17047.1	2109.4	17144.3
GR	2102.5	17186.2	2102.5	17219.4	2104.1	17233.9	2101.8	17243.6	2099.0	18723.2
GR	2097.8	18732.3	2099.6	18758.3	2098.3	20000.0	2097.0	20000.1	2097.8	20091.0
GR	2097.9	20126.3	2096.2	20143.7	2096.0	21123.3	2095.5	21336.1	2096.6	21341.6
GR	2096.6	21378.9	2097.4	22119.4	2097.7	22119.5	2097.0	22709.7	2097.0	23476.4
GR	2098.6	24006.1	2100.8	24017.4	2101.0	24032.3	2109.4	24044.3	2099.1	24075.7
GR	2099.1	24099.5	2101.0	24803.4	2103.9	25276.1	2104.4	25377.1	2105.2	25718.3
X1	5.065	36	20970.0	22120.6	490	500	495			
GR	2111.4	15317.5	2108.6	15992.9	2109.8	16004.0	2110.3	16042.0	2107.8	16055.9
GR	2105.3	17282.1	2108.3	17300.2	2108.3	17339.7	2109.2	17402.5	2102.9	17416.9
GR	2104.0	17471.2	2100.5	18718.5	2099.5	18742.7	2100.9	18768.4	2099.0	20000.0
GR	2098.1	20000.1	2098.6	20139.3	2096.9	20151.3	2096.6	20970.0	2096.5	21336.2
GR	2097.6	21342.4	2097.9	21383.6	2096.6	21391.5	2097.1	22120.6	2097.2	22120.7
GR	2097.3	22718.8	2097.5	23543.6	2099.0	24000.8	2101.2	24013.5	2101.5	24028.8
GR	2107.8	24036.6	2100.4	24063.2	2100.4	24144.6	2101.4	24682.5	2104.6	25290.9
GR	2104.9	25456.5								
X1	5.159	55	20815.9	22121.9	500	495	495			
GR	2110.3	15674.5	2109.4	16048.8	2110.5	16058.5	2110.5	16089.7	2108.2	16091.9
GR	2106.9	16441.3	2108.3	16447.0	2108.3	16476.3	2105.6	16480.4	2108.2	16496.4
GR	2108.5	16526.5	2107.1	16537.5	2105.6	17126.3	2106.9	17230.6	2106.9	17349.3
GR	2106.6	17401.3	2105.3	17488.1	2107.0	17529.1	2103.5	17542.5	2110.9	17579.1
GR	2110.1	17645.6	2110.1	17721.9	2103.3	17741.1	2102.9	17885.4	2105.6	17916.1
GR	2103.3	17927.0	2101.4	18850.4	2100.6	19775.1	2100.4	20000.0	2099.9	20000.1
GR	2100.4	20134.3	2098.5	20144.7	2097.6	20815.9	2097.6	21334.6	2098.9	21346.7
GR	2098.9	21384.1	2097.9	21390.7	2098.6	22121.9	2098.6	22122.0	2098.5	22730.1
GR	2098.8	23554.3	2099.9	23996.2	2097.5	24004.5	2100.5	24014.4	2100.5	24053.9
GR	2097.4	24065.5	2100.8	24101.7	2108.2	24140.2	2100.0	24188.5	2099.9	24274.6
GR	2102.4	24325.7	2101.2	24353.3	2101.2	24661.0	2103.1	25155.7	2107.9	26165.0
X1	5.255	45	20870.4	22109.2	505	505	505			
GR	2113.0	15501.7	2110.2	16052.4	2108.4	16560.1	2106.5	17360.5	2107.4	17374.5
GR	2107.5	17395.9	2106.6	17400.5	2104.8	17879.9	2112.9	17901.4	2110.8	17954.0
GR	2110.8	18012.8	2104.3	18032.4	2102.3	19155.4	2103.6	19209.6	2100.5	19243.6
GR	2103.5	19290.3	2101.8	19522.5	2102.8	19639.6	2101.2	19670.3	2101.7	20000.0
GR	2101.3	20000.1	2101.6	20125.8	2099.3	20134.4	2098.8	20870.4	2098.8	21335.3
GR	2101.2	21369.9	2098.6	21380.4	2099.7	22109.2	2099.7	22109.3	2099.6	22727.3
GR	2099.8	23678.5	2100.7	24023.7	2102.5	24034.7	2099.5	24055.8	2100.4	24170.0
GR	2103.4	24902.5	2110.1	24980.1	2108.2	25075.3	2108.2	25187.0	2103.6	25201.8
GR	2104.3	25287.8	2106.3	25305.8	2104.2	25323.8	2107.5	26008.5	2107.6	26139.3
X1	5.351	44	20800.0	22111.5	510	505	510			
GR	2116.0	15518.1	2112.3	16104.8	2109.0	16816.1	2107.7	17357.8	2108.6	17361.4
GR	2108.6	17379.9	2109.9	17390.4	2108.9	17401.9	2106.4	17930.9	2112.3	17948.8
GR	2110.5	17994.3	2110.5	18041.2	2105.7	18068.6	2102.6	20000.0	2102.6	20000.1
GR	2102.3	20141.0	2101.5	20800.0	2100.9	21323.5	2102.2	21330.0	2102.1	21369.3
GR	2100.9	21383.2	2100.9	22111.5	2100.8	22111.6	2100.9	22666.7	2103.0	22677.6
GR	2101.9	22683.9	2101.1	23963.2	2102.2	23967.3	2102.2	23988.3	2100.1	23996.2
GR	2101.3	24009.6	2104.2	25195.9	2106.1	25206.1	2106.1	25238.9	2109.8	25250.3
GR	2103.2	25271.7	2103.1	25337.3	2105.0	25357.8	2111.1	25371.5	2105.9	25394.0

GR	2106.1	25407.1	2103.7	25417.6	2107.2	25425.3	2110.0	26630.4		
X1	5.443	60	20710.0	22105.3	475	485	485			
GR	2113.8	15921.1	2114.2	16039.1	2113.2	16044.7	2114.6	16052.4	2114.8	16085.7
GR	2113.9	16091.1	2111.5	16912.7	2109.8	17345.7	2111.6	17357.1	2111.4	17378.2
GR	2110.9	17383.7	2109.2	18037.2	2107.1	18048.1	2113.5	18069.8	2103.9	18125.1
GR	2104.1	18148.7	2113.6	18225.4	2108.0	18259.3	2108.9	18295.1	2107.7	18307.3
GR	2108.4	18317.1	2106.2	19271.9	2104.7	20000.0	2104.2	20000.1	2104.0	20096.5
GR	2104.6	20101.9	2104.5	20121.5	2103.7	20130.1	2101.7	20710.0	2100.5	21049.6
GR	2102.3	21316.6	2103.2	21322.4	2103.5	21355.0	2102.1	21385.6	2102.1	22105.3
GR	2100.7	22105.4	2099.9	22627.3	2101.5	22638.7	2101.5	22665.2	2100.0	22669.3
GR	2099.4	23930.4	2100.8	23936.0	2100.8	23976.8	2095.8	23984.5	2100.7	23994.6
GR	2102.0	24410.3	2104.4	25203.9	2106.5	25213.9	2105.2	25225.5	2105.2	25233.3
GR	2110.6	25256.7	2103.7	25278.4	2103.7	25302.6	2103.7	25336.8	2105.3	25356.2
GR	2111.4	25372.3	2105.9	25387.5	2106.7	25849.6	2111.6	26768.6	2112.6	26943.8
X1	5.537	49	20630.0	21653.7	495	495	495			
GR	2114.8	16302.5	2111.5	17368.3	2112.7	17373.0	2112.6	17397.3	2111.8	17405.9
GR	2110.2	18630.2	2107.3	18637.8	2110.9	18646.1	2110.9	18666.7	2108.2	18672.2
GR	2111.1	18681.4	2110.4	18699.4	2115.1	18712.5	2115.1	18748.7	2115.1	18776.0
GR	2115.6	18817.1	2109.2	18852.7	2107.8	19353.5	2106.6	20000.0	2106.5	20000.1
GR	2106.4	20106.7	2105.7	20116.1	2105.7	20148.3	2103.0	20630.0	2102.1	20786.8
GR	2103.8	21330.0	2104.1	21371.7	2103.3	21395.0	2103.7	21653.7	2103.4	22109.0
GR	2102.1	22109.1	2101.9	22706.2	2101.6	23704.1	2101.4	23949.1	2102.2	24078.8
GR	2104.6	25219.1	2107.5	25228.8	2104.8	25239.2	2106.6	25262.2	2110.4	25277.8
GR	2106.7	25297.8	2106.7	25328.2	2106.7	25349.2	2106.7	25376.9	2111.5	25388.8
GR	2106.7	25403.6	2107.8	25975.2	2111.1	26315.2	2113.2	26959.9		
X1	5.630	60	20142.9	21793.3	490	490	490			
GR	2115.2	16570.0	2112.9	17321.3	2111.6	17330.4	2113.7	17342.4	2113.7	17380.2
GR	2113.4	17390.2	2110.9	18612.5	2107.8	18619.8	2111.1	18630.5	2111.2	18647.0
GR	2113.5	18657.1	2110.9	18663.2	2110.6	19215.3	2108.4	19231.9	2115.6	19289.2
GR	2114.7	19356.8	2114.7	19388.0	2114.7	19468.1	2109.6	19500.4	2109.6	19532.2
GR	2108.1	19557.3	2107.8	20000.0	2107.8	20000.1	2108.0	20083.5	2106.9	20093.1
GR	2108.9	20104.7	2108.5	20131.8	2106.8	20142.9	2105.7	20557.2	2104.4	21243.2
GR	2105.3	21298.8	2103.2	21309.3	2105.8	21320.0	2105.9	21358.1	2104.3	21384.6
GR	2104.6	21793.3	2104.5	22100.3	2103.3	22100.4	2102.8	22659.8	2103.1	23536.7
GR	2103.1	23936.4	2099.9	23948.0	2103.2	23954.9	2103.3	23974.8	2104.6	23982.2
GR	2102.5	23991.2	2104.3	24641.9	2105.7	25199.4	2106.7	25210.4	2106.6	25240.4
GR	2111.4	25261.9	2111.4	25282.7	2111.4	25305.5	2111.4	25348.8	2111.8	25364.2
GR	2106.9	25393.2	2108.6	25860.6	2111.4	26627.8	2115.0	27276.3	2115.0	27315.2
X1	5.724	56	20620.0	21853.7	500	500	500			
GR	2114.7	16846.0	2113.7	17345.6	2115.0	17361.4	2115.1	17393.7	2114.5	17403.5
GR	2113.0	18038.2	2111.4	18625.8	2108.5	18635.5	2112.3	18643.9	2112.6	18673.3
GR	2111.7	18684.8	2110.9	19709.6	2109.3	19722.2	2115.7	19757.9	2115.7	19795.2
GR	2115.7	19812.3	2116.4	19859.9	2109.8	19884.1	2108.9	19938.9	2108.7	20000.0
GR	2108.9	20000.1	2108.2	20113.1	2109.1	20117.7	2109.1	20154.2	2106.6	20160.3
GR	2105.8	20620.0	2104.5	21325.3	2105.7	21333.9	2106.4	21373.7	2105.5	21384.8
GR	2105.3	21853.7	2105.5	22099.7	2104.0	22099.8	2103.8	22672.3	2104.4	23487.5
GR	2104.4	23949.6	2101.5	23960.6	2103.7	23967.3	2103.8	23982.4	2105.6	23991.8
GR	2103.4	24000.0	2105.1	24472.3	2106.7	25218.1	2108.6	25226.0	2106.1	25231.2
GR	2106.9	25255.9	2110.8	25270.8	2104.4	25290.2	2103.2	25308.3	2103.7	25351.1
GR	2112.1	25393.4	2107.6	25407.3	2108.4	25679.8	2109.6	26259.4	2112.5	26673.3

GR	2116.1	27412.2	2							
X1	5.819	51	20690.0	21892.3	500	505	500			
GR	2116.0	16790.7	2115.3	17347.1	2116.3	17382.4	2115.0	17386.5	2113.8	17979.8
GR	2112.4	18612.4	2110.2	18620.7	2113.7	18630.2	2113.1	18656.4	2110.9	18662.8
GR	2113.8	18671.4	2112.3	18679.2	2111.8	19924.1	2118.0	19942.3	2116.6	19986.8
GR	2116.6	20000.0	2116.6	20000.1	2116.6	20059.8	2109.4	20088.1	2109.4	20109.5
GR	2110.2	20113.7	2110.2	20142.2	2107.7	20151.0	2106.8	20690.0	2105.8	21322.0
GR	2107.1	21328.2	2107.8	21365.0	2106.4	21373.3	2106.3	21892.3	2106.1	22095.0
GR	2105.7	22095.1	2104.8	22658.9	2106.1	22666.9	2105.4	23591.5	2105.9	23990.0
GR	2104.2	24008.8	2106.2	24656.1	2107.5	25212.8	2111.0	25218.8	2108.4	25225.4
GR	2108.8	25247.2	2112.6	25258.8	2106.4	25278.3	2104.5	25313.3	2104.1	25349.0
GR	2113.0	25385.9	2108.9	25403.5	2109.4	25830.9	2112.4	26587.0	2114.9	27131.7
GR	2117.2	27605.6								
X1	5.911	49	20760.0	21950.1	495	490	490			
GR	2117.6	16908.8	2116.1	17335.4	2117.5	17344.7	2118.1	17376.1	2115.8	17382.4
GR	2114.4	18181.6	2113.8	18652.1	2111.8	18657.9	2115.7	18670.6	2113.7	18683.6
GR	2111.7	19899.9	2113.0	19904.5	2113.0	19921.4	2118.1	19935.7	2106.0	20000.0
GR	2105.4	20000.1	2105.4	20008.9	2116.6	20071.8	2111.1	20092.2	2111.1	20139.7
GR	2109.2	20147.8	2108.0	20760.0	2107.0	21313.2	2108.8	21355.4	2107.4	21371.2
GR	2107.6	21950.1	2107.4	22086.9	2106.9	22087.0	2105.9	22651.4	2107.3	22660.2
GR	2106.4	23950.0	2107.5	24718.8	2108.8	25202.2	2111.5	25213.4	2109.3	25221.1
GR	2109.4	25238.8	2113.4	25254.7	2105.7	25290.5	2104.6	25319.0	2104.6	25338.8
GR	2109.6	25357.8	2115.1	25377.0	2109.3	25401.7	2109.8	25873.4	2113.1	26650.8
GR	2114.8	26660.1	2113.8	26669.4	2116.2	27313.5	2116.5	27572.9		
X1	6.005	61	20820.0	21926.8	490	490	490			
GR	2118.8	16824.3	2117.7	17331.1	2116.7	17337.3	2118.3	17342.7	2118.3	17375.7
GR	2117.4	17381.8	2115.9	18075.7	2114.7	18637.1	2115.4	18653.3	2114.4	18657.9
GR	2112.3	19637.8	2112.0	19891.8	2110.7	19898.1	2112.9	19905.3	2112.9	19905.5
GR	2113.6	19920.6	2119.4	19938.3	2107.3	19998.9	2107.3	20000.0	2119.8	20000.1
GR	2107.7	20005.1	2107.7	20019.4	2110.9	20031.3	2111.3	20050.2	2117.8	20073.6
GR	2111.3	20095.2	2112.2	20139.1	2110.1	20145.7	2108.7	20820.0	2107.7	21290.3
GR	2108.3	21295.5	2106.8	21314.5	2108.4	21320.6	2109.1	21353.1	2108.5	21362.2
GR	2109.0	21926.8	2109.1	22088.6	2108.3	22088.7	2107.3	22651.7	2108.9	22661.7
GR	2107.4	23479.1	2107.1	24040.1	2109.5	25201.9	2110.9	25210.3	2111.0	25243.4
GR	2115.4	25254.3	2106.7	25277.9	2105.2	25304.4	2105.4	25333.1	2110.1	25363.2
GR	2116.3	25382.9	2111.0	25403.2	2110.5	25418.3	2108.6	25421.4	2113.9	26651.2
GR	2115.9	26657.8	2114.4	26667.1	2119.1	27905.0	2120.7	27912.2	2121.3	27946.4
GR	2121.3	27946.5								

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T1       50- YEAR DISCHARGE
T2
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                           .002                            2046.77

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     2                  -1
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T1      100-YEAR DISCHARGE
T2
T3

J1  ICHECK   INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                          .002                              2047.23

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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THIS RUN EXECUTED 5/16/90 14:40: 6

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HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE: CENTEN.MPL CEN

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	-.304	2044.84	7.74	2037.10	1.19	4880.00	205.34	.00	19835.12	21620.63
	-.304	2046.77	9.67	2037.10	2.70	16400.00	3842.29	.00	19245.69	22173.38
	-.304	2047.23	10.13	2037.10	3.08	21700.00	5361.15	.00	19105.23	22305.11
*	-.212	2046.09	8.49	2037.60	1.38	4880.00	1391.96	485.00	19797.67	21833.69
	-.212	2047.66	10.06	2037.60	2.75	16400.00	6624.43	485.00	19267.31	22321.50
	-.212	2048.12	10.52	2037.60	3.10	21700.00	8765.21	485.00	19109.17	22466.95
	-.119	2046.66	8.76	2037.90	1.44	4880.00	1646.62	490.00	20000.01	21781.54
	-.119	2048.36	10.46	2037.90	2.82	16400.00	8429.32	490.00	19457.94	22317.67
	-.119	2048.85	10.95	2037.90	3.18	21700.00	11165.12	490.00	19299.75	22469.81
*	-.024	2047.31	9.11	2038.20	1.22	4880.00	806.69	500.00	19788.49	21589.62
	-.024	2049.18	10.98	2038.20	2.98	16400.00	8648.30	500.00	19491.11	22185.26
	-.024	2049.68	11.48	2038.20	3.35	21700.00	11726.07	500.00	19356.70	22344.85
	.070	2048.98	2.48	2046.50	2.21	4880.00	4556.01	495.00	19803.13	21689.79
	.070	2050.30	3.80	2046.50	3.49	16400.00	13674.35	495.00	19358.71	22037.70
	.070	2050.74	4.24	2046.50	3.82	21700.00	17360.99	495.00	19209.94	22154.17
	.165	2049.75	2.05	2047.70	1.74	4880.00	4520.55	500.00	19654.59	21806.40
	.165	2051.19	3.49	2047.70	2.81	16400.00	13485.29	500.00	19309.04	22258.60
	.165	2051.65	3.95	2047.70	3.12	21700.00	17173.18	500.00	19199.35	22402.15
	.257	2050.36	1.86	2048.50	1.79	4880.00	4003.08	485.00	19674.05	21927.53
	.257	2051.82	3.32	2048.50	2.72	16400.00	12361.45	485.00	19421.78	22729.27
	.257	2052.28	3.78	2048.50	3.00	21700.00	15873.68	485.00	19277.54	22731.32
	.352	2051.14	2.24	2048.90	1.58	4880.00	1813.51	505.00	19616.22	21881.25
	.352	2052.52	3.62	2048.90	2.40	16400.00	6883.13	505.00	19456.77	22392.73
	.352	2052.97	4.07	2048.90	2.68	21700.00	9296.02	505.00	19329.95	22544.13

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	.445	2051.84	2.24	2049.60	1.63	4880.00	1455.55	490.00	19585.65	21961.42
	.445	2053.22	3.62	2049.60	2.67	16400.00	4785.87	490.00	19355.58	22472.31
	.445	2053.66	4.06	2049.60	2.92	21700.00	6075.28	490.00	19355.51	22475.13
	.541	2052.69	2.89	2049.80	2.10	4880.00	1437.10	505.00	19682.69	21844.19
	.541	2054.03	4.23	2049.80	3.15	16400.00	4494.11	505.00	19333.21	22382.69
	.541	2054.45	4.65	2049.80	3.46	21700.00	5735.64	505.00	19223.77	22533.16
	.633	2053.60	2.50	2051.10	1.58	4880.00	1158.69	485.00	19590.13	21843.80
	.633	2054.93	3.83	2051.10	2.76	16400.00	4279.08	485.00	19292.71	22425.61
	.633	2055.35	4.25	2051.10	3.07	21700.00	5556.18	485.00	19198.80	22503.88
	.728	2054.51	3.41	2051.10	1.46	4880.00	822.27	505.00	19618.79	21804.20
	.728	2055.84	4.74	2051.10	2.73	16400.00	4370.76	505.00	19298.52	22393.11
	.728	2056.25	5.15	2051.10	3.04	21700.00	5856.63	505.00	19212.66	22395.88
	.820	2055.48	3.68	2051.80	1.69	4880.00	911.43	485.00	19579.32	21846.14
	.820	2056.78	4.98	2051.80	2.87	16400.00	3203.08	485.00	19330.92	22293.79
	.820	2057.18	5.38	2051.80	3.19	21700.00	4144.20	485.00	19157.84	22296.24
	.914	2056.37	2.47	2053.90	1.98	4880.00	1211.12	495.00	19549.77	22424.26
	.914	2057.68	3.78	2053.90	3.08	16400.00	3841.59	495.00	19326.10	22428.12
	.914	2058.09	4.19	2053.90	3.38	21700.00	4879.05	495.00	19288.28	22429.31
	1.008	2057.31	3.91	2053.40	1.84	4880.00	1336.63	500.00	19494.29	21864.45
	1.008	2058.61	5.21	2053.40	2.96	16400.00	4229.01	500.00	19283.66	22311.31
	1.008	2059.02	5.62	2053.40	3.30	21700.00	5439.53	500.00	19282.29	22312.99
*	1.097	2058.59	2.29	2056.30	3.30	4880.00	2189.82	465.00	19799.64	21673.07
*	1.097	2059.78	3.48	2056.30	4.32	16400.00	5992.77	465.00	19311.14	22182.94
*	1.097	2060.16	3.86	2056.30	4.50	21700.00	7349.71	465.00	19209.75	22234.28
*	1.184	2060.03	1.93	2058.10	2.07	4880.00	3851.19	460.00	19198.46	21448.35
*	1.184	2061.23	3.13	2058.10	3.28	16400.00	10588.64	460.00	19160.06	21971.66
*	1.184	2061.59	3.49	2058.10	3.67	21700.00	13344.68	460.00	19137.07	22038.34
	1.273	2060.74	2.84	2057.90	2.02	4880.00	3603.35	470.00	19268.43	21373.72
	1.273	2062.08	4.18	2057.90	3.16	16400.00	9970.52	470.00	18911.15	21751.83
	1.273	2062.49	4.59	2057.90	3.50	21700.00	12530.21	470.00	18828.28	21868.00
	1.358	2061.37	2.67	2058.70	1.72	4880.00	3204.14	450.00	18936.17	21314.58
	1.358	2062.75	4.05	2058.70	2.65	16400.00	9708.06	450.00	18754.91	21613.68
	1.358	2063.19	4.49	2058.70	2.96	21700.00	12516.62	450.00	18640.13	21708.39
*	1.450	2062.39	2.69	2059.70	2.40	4880.00	1847.62	485.00	18796.50	20785.48
*	1.450	2063.63	3.93	2059.70	3.42	16400.00	6478.28	485.00	18685.98	21325.06
*	1.450	2064.05	4.35	2059.70	3.72	21700.00	8493.36	485.00	18452.36	21430.21
*	1.544	2063.83	5.03	2058.80	2.48	4880.00	3462.81	500.00	18773.23	20976.26
	1.544	2065.01	6.21	2058.80	3.66	16400.00	8515.07	500.00	18407.55	21865.02
	1.544	2065.40	6.60	2058.80	4.02	21700.00	10505.96	500.00	18275.47	21867.83

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	1.639	2064.87	5.17	2059.70	2.08	4880.00	2386.92	500.00	18708.91	20837.61
	1.639	2066.13	6.43	2059.70	2.95	16400.00	7169.12	500.00	18430.11	21291.27
	1.639	2066.53	6.83	2059.70	3.29	21700.00	9382.76	500.00	18341.04	21416.24
	1.732	2065.94	4.34	2061.60	2.21	4880.00	2561.87	490.00	18787.95	20846.49
	1.732	2067.20	5.60	2061.60	3.32	16400.00	7591.95	490.00	18521.08	21247.49
	1.732	2067.60	6.00	2061.60	3.66	21700.00	9705.94	490.00	18414.43	21694.42
	1.829	2067.05	2.85	2064.20	2.27	4880.00	2786.93	510.00	18747.69	20832.35
	1.829	2068.32	4.12	2064.20	3.38	16400.00	7435.00	510.00	18415.26	21587.25
	1.829	2068.72	4.52	2064.20	3.69	21700.00	9241.14	510.00	18310.67	21955.51
	1.921	2068.03	3.83	2064.20	2.68	4880.00	3005.12	490.00	18697.75	20903.29
	1.921	2069.33	5.14	2064.20	3.81	16400.00	6994.20	490.00	18267.19	21527.49
	1.921	2069.73	5.53	2064.20	4.08	21700.00	8370.73	490.00	18146.22	21651.87
	2.014	2069.04	3.34	2065.70	2.12	4880.00	2999.28	490.00	18854.76	21096.66
	2.014	2070.33	4.63	2065.70	3.04	16400.00	8370.64	490.00	18306.64	21506.31
	2.014	2070.72	5.02	2065.70	3.36	21700.00	10606.84	490.00	18143.71	21628.87
	2.109	2069.98	3.68	2066.30	2.02	4880.00	2459.62	500.00	18664.88	21143.96
	2.109	2071.22	4.92	2066.30	3.02	16400.00	6710.93	500.00	18292.09	21552.74
	2.109	2071.63	5.33	2066.30	3.30	21700.00	8395.95	500.00	18171.43	21672.69
	2.204	2070.82	2.72	2068.10	1.96	4880.00	2189.57	500.00	18484.66	21120.16
	2.204	2072.06	3.96	2068.10	2.85	16400.00	5870.36	500.00	18057.22	21576.84
	2.204	2072.46	4.36	2068.10	3.11	21700.00	7362.90	500.00	17952.76	21718.38
	2.298	2071.63	5.23	2066.40	2.46	4880.00	1941.08	500.00	18443.66	21601.05
	2.298	2072.86	6.46	2066.40	3.28	16400.00	4085.91	500.00	18006.18	21615.51
	2.298	2073.26	6.86	2066.40	3.49	21700.00	4873.59	500.00	17857.74	21663.12
	2.390	2072.28	6.28	2066.00	1.75	4880.00	3354.98	485.00	18311.31	21138.53
	2.390	2073.56	7.56	2066.00	2.62	16400.00	8886.04	485.00	18082.49	21533.79
	2.390	2073.97	7.97	2066.00	2.89	21700.00	11175.73	485.00	17941.83	21653.30
	2.485	2072.89	6.69	2066.20	1.95	4880.00	3691.94	500.00	18194.67	21142.49
	2.485	2074.22	8.02	2066.20	2.94	16400.00	10190.50	500.00	18139.27	21448.64
	2.485	2074.64	8.44	2066.20	3.21	21700.00	12703.70	500.00	17990.33	21543.91
	2.580	2073.69	7.89	2065.80	2.25	4880.00	4365.52	505.00	18080.20	21133.46
	2.580	2075.06	9.26	2065.80	3.34	16400.00	11957.36	505.00	18074.08	21460.99
	2.580	2075.47	9.67	2065.80	3.64	21700.00	14866.74	505.00	18072.22	21560.23
	2.670	2074.89	4.19	2070.70	2.61	4880.00	4405.07	475.00	19009.60	21220.85
	2.670	2076.15	5.45	2070.70	3.58	16400.00	12266.23	475.00	18434.19	21545.30
	2.670	2076.55	5.85	2070.70	3.85	21700.00	15369.72	475.00	18256.24	21647.48
*	2.770	2075.94	3.84	2072.10	1.70	4880.00	3596.99	525.00	18721.75	21353.70
*	2.770	2077.21	5.11	2072.10	2.68	16400.00	10180.99	525.00	18716.50	21806.99
*	2.770	2077.61	5.51	2072.10	2.98	21700.00	12904.46	525.00	18328.73	21899.91

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	2.860	2076.67	3.77	2072.90	2.27	4880.00	4039.39	475.00	19100.68	21264.57
	2.860	2077.96	5.06	2072.90	3.35	16400.00	11423.10	475.00	18778.37	21769.48
	2.860	2078.37	5.47	2072.90	3.66	21700.00	14370.26	475.00	18606.10	21942.01
	2.953	2077.64	2.44	2075.20	1.72	4880.00	2393.56	490.00	19331.20	21678.42
	2.953	2078.93	3.73	2075.20	2.80	16400.00	7823.30	490.00	19001.61	22073.85
	2.953	2079.34	4.14	2075.20	3.12	21700.00	10110.13	490.00	18983.74	22353.79
	3.035	2078.55	4.45	2074.10	2.09	4880.00	2499.73	435.00	19276.98	21482.17
	3.035	2079.81	5.71	2074.10	3.29	16400.00	8369.06	435.00	19148.08	21824.96
	3.035	2080.22	6.12	2074.10	3.64	21700.00	10884.71	435.00	19105.60	22331.74
	3.127	2079.63	2.03	2077.60	1.78	4880.00	2339.92	485.00	19217.95	21669.59
	3.127	2080.88	3.28	2077.60	2.92	16400.00	7730.13	485.00	19169.85	22540.42
	3.127	2081.29	3.69	2077.60	3.20	21700.00	9876.34	485.00	19118.71	22619.22
*	3.220	2080.83	1.53	2079.30	2.31	4880.00	2375.10	490.00	19146.40	21711.15
	3.220	2081.97	2.67	2079.30	3.18	16400.00	7032.62	490.00	18603.27	22327.47
	3.220	2082.34	3.04	2079.30	3.44	21700.00	8961.79	490.00	18437.03	22333.22
*	3.312	2082.08	1.88	2080.20	2.06	4880.00	3097.72	490.00	19048.68	22354.38
	3.312	2083.13	2.93	2080.20	3.09	16400.00	7833.76	490.00	18448.46	22457.77
	3.312	2083.47	3.27	2080.20	3.35	21700.00	9648.59	490.00	18255.44	22537.08
	3.406	2082.81	2.51	2080.30	1.74	4880.00	3798.66	495.00	19270.59	22424.25
	3.406	2083.99	3.69	2080.30	2.82	16400.00	10733.25	495.00	19132.75	22499.41
	3.406	2084.35	4.05	2080.30	3.17	21700.00	13661.38	495.00	19090.15	22554.01
*	3.500	2083.73	1.73	2082.00	2.57	4880.00	3909.64	495.00	19455.95	21635.99
	3.500	2084.94	2.94	2082.00	3.59	16400.00	10682.10	495.00	19412.12	22193.84
	3.500	2085.32	3.32	2082.00	3.91	21700.00	13460.37	495.00	19068.68	22330.98
*	3.595	2084.86	1.76	2083.10	2.07	4880.00	3714.89	500.00	19504.64	21650.79
	3.595	2086.09	2.99	2083.10	3.26	16400.00	9911.94	500.00	19390.13	22366.45
	3.595	2086.48	3.38	2083.10	3.58	21700.00	12335.73	500.00	19363.57	22466.02
	3.688	2085.72	2.32	2083.40	2.00	4880.00	3196.23	495.00	19443.23	22087.59
	3.688	2086.98	3.58	2083.40	2.85	16400.00	8971.09	495.00	18927.34	22404.66
	3.688	2087.38	3.98	2083.40	3.11	21700.00	11347.02	495.00	18762.14	22506.02
	3.794	2086.90	1.70	2085.20	1.91	4880.00	3251.91	560.00	18515.23	22143.30
	3.794	2087.97	2.77	2085.20	2.79	16400.00	9189.01	560.00	18437.25	22297.22
	3.794	2088.33	3.13	2085.20	3.00	21700.00	11598.08	560.00	18412.36	22382.35
	3.898	2087.88	1.68	2086.20	1.46	4880.00	1881.92	545.00	18521.40	22065.78
	3.898	2088.92	2.72	2086.20	2.41	16400.00	6693.88	545.00	18120.01	22256.82
	3.898	2089.26	3.06	2086.20	2.68	21700.00	8780.38	545.00	18001.02	22333.71
	4.006	2088.79	1.39	2087.40	1.76	4880.00	2467.71	570.00	18268.88	22106.52
	4.006	2089.84	2.44	2087.40	2.62	16400.00	6991.39	570.00	17940.31	22289.62
	4.006	2090.17	2.77	2087.40	2.88	21700.00	8827.46	570.00	17862.33	22354.84

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	4.104	2090.19	.99	2089.20	2.51	4880.00	3580.87	520.00	23000.87	27485.78
*	4.104	2091.02	1.82	2089.20	3.34	16400.00	9261.94	520.00	22958.43	27695.39
*	4.104	2091.31	2.11	2089.20	3.56	21700.00	11552.68	520.00	22950.65	27768.24
*	4.205	2091.35	1.95	2089.40	1.52	4880.00	3172.33	535.00	18241.56	22508.82
*	4.205	2092.31	2.91	2089.40	2.61	16400.00	9459.40	535.00	17392.06	22726.01
*	4.205	2092.60	3.20	2089.40	2.92	21700.00	11985.97	535.00	17313.34	22784.12
	4.303	2091.90	3.00	2088.90	1.35	4880.00	1779.17	515.00	19114.69	22609.72
	4.303	2093.02	4.12	2088.90	2.23	16400.00	5876.92	515.00	18895.49	22947.89
	4.303	2093.36	4.46	2088.90	2.52	21700.00	7640.78	515.00	18838.27	23041.47
	4.401	2092.59	1.79	2090.80	1.61	4880.00	1596.37	520.00	17628.68	22677.60
	4.401	2093.70	2.90	2090.80	2.35	16400.00	4665.14	520.00	17468.05	23105.44
	4.401	2094.05	3.25	2090.80	2.55	21700.00	5883.57	520.00	17459.08	23360.57
	4.496	2093.19	5.79	2087.40	1.17	4880.00	1901.25	500.00	18402.76	22670.09
	4.496	2094.34	6.94	2087.40	2.17	16400.00	7334.55	500.00	18394.29	23020.63
	4.496	2094.69	7.29	2087.40	2.44	21700.00	9574.80	500.00	18391.66	23198.51
*	4.592	2094.04	1.34	2092.70	2.83	4880.00	1748.29	505.00	18454.13	22676.41
*	4.592	2095.15	2.45	2092.70	3.28	16400.00	3843.83	505.00	18437.96	24008.87
	4.592	2095.49	2.79	2092.70	3.41	21700.00	4575.38	505.00	18433.03	24009.43
*	4.686	2095.12	2.02	2093.10	1.45	4880.00	2607.21	495.00	18535.90	22715.09
	4.686	2096.14	3.04	2093.10	2.47	16400.00	8228.09	495.00	18534.31	23626.32
	4.686	2096.45	3.35	2093.10	2.79	21700.00	10569.71	495.00	18523.09	23751.53
	4.781	2095.75	2.35	2093.40	1.64	4880.00	3277.61	505.00	19347.71	23070.56
	4.781	2096.85	3.45	2093.40	2.41	16400.00	8624.22	505.00	19250.39	23855.36
	4.781	2097.20	3.80	2093.40	2.64	21700.00	10754.77	505.00	19041.00	24005.75
	4.877	2096.46	2.06	2094.40	1.59	4880.00	2339.35	505.00	20000.07	23036.66
	4.877	2097.55	3.15	2094.40	2.47	16400.00	7177.00	505.00	19063.28	23827.36
	4.877	2097.89	3.49	2094.40	2.70	21700.00	9073.47	505.00	18879.23	24017.41
	4.972	2097.46	1.96	2095.50	1.59	4880.00	1192.56	500.00	20000.06	23630.85
	4.972	2098.46	2.96	2095.50	2.59	16400.00	4499.63	500.00	18727.31	23959.06
	4.972	2098.78	3.28	2095.50	2.86	21700.00	5907.50	500.00	18724.84	24007.04
*	5.065	2098.18	1.68	2096.50	1.33	4880.00	2116.44	495.00	20000.09	23750.47
*	5.065	2099.25	2.75	2096.50	2.18	16400.00	6160.53	495.00	19839.21	24002.23
*	5.065	2099.59	3.09	2096.50	2.45	21700.00	7885.86	495.00	18740.48	24004.21
*	5.159	2098.94	1.54	2097.40	2.37	4880.00	2874.95	495.00	20142.29	24081.91
*	5.159	2099.98	2.58	2097.40	2.94	16400.00	7556.38	495.00	20000.08	24276.23
*	5.159	2100.33	2.93	2097.40	3.15	21700.00	9535.52	495.00	20000.02	24283.30
*	5.255	2100.24	1.64	2098.60	1.68	4880.00	2495.12	505.00	20130.88	24149.89
	5.255	2101.12	2.52	2098.60	2.66	16400.00	6841.21	505.00	19236.78	24346.33
	5.255	2101.43	2.83	2098.60	2.94	21700.00	8671.32	505.00	19233.39	24421.62

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	5.351	2101.75	1.65	2100.10	2.78	4880.00	2554.73	510.00	20589.85	24195.76
*	5.351	2102.58	2.48	2100.10	3.51	16400.00	6997.65	510.00	20006.18	24536.13
*	5.351	2102.86	2.76	2100.10	3.75	21700.00	8810.04	510.00	19839.52	24646.79
*	5.443	2102.21	6.41	2095.80	.37	4880.00	246.29	485.00	20563.40	24478.28
*	5.443	2103.29	7.49	2095.80	1.15	16400.00	2456.00	485.00	20246.41	24839.80
*	5.443	2103.63	7.83	2095.80	1.40	21700.00	3644.15	485.00	20148.65	24951.29
*	5.537	2102.46	1.06	2101.40	1.50	4880.00	48.66	495.00	20723.63	24203.61
*	5.537	2103.77	2.37	2101.40	1.84	16400.00	1311.07	495.00	20492.05	24826.24
*	5.537	2104.15	2.75	2101.40	2.15	21700.00	2347.28	495.00	20424.58	25005.91
*	5.630	2104.31	4.41	2099.90	.93	4880.00	5.10	490.00	21303.82	24640.58
	5.630	2105.20	5.30	2099.90	1.21	16400.00	623.01	490.00	20822.97	24998.82
	5.630	2105.48	5.58	2099.90	1.49	21700.00	1212.66	490.00	20666.83	25116.66
	5.724	2105.18	3.68	2101.50	.84	4880.00	105.19	500.00	20960.00	25358.52
	5.724	2106.25	4.75	2101.50	1.58	16400.00	1868.25	500.00	20367.36	25363.89
	5.724	2106.57	5.07	2101.50	1.89	21700.00	2987.83	500.00	20181.76	25365.52
	5.819	2106.40	2.30	2104.10	.56	4880.00	76.49	500.00	20945.52	25358.52
	5.819	2107.31	3.21	2104.10	1.79	16400.00	2048.81	500.00	20384.67	25362.31
	5.819	2107.61	3.51	2104.10	2.09	21700.00	3135.37	500.00	20205.69	25363.55
	5.911	2107.66	3.06	2104.60	.70	4880.00	158.73	490.00	19991.13	25350.46
	5.911	2108.52	3.92	2104.60	1.88	16400.00	2241.99	490.00	19986.61	25353.70
	5.911	2108.80	4.20	2104.60	2.21	21700.00	3369.53	490.00	19985.11	25354.77
	6.005	2108.71	3.51	2105.20	.86	4880.00	261.65	490.00	19991.82	25447.74
	6.005	2109.64	4.44	2105.20	1.83	16400.00	2331.83	490.00	19987.18	25662.63
	6.005	2109.92	4.72	2105.20	2.11	21700.00	3374.90	490.00	19985.73	25729.70

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     -.212  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     -.024  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     -.024  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     1.097  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.097  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.097  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.184  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.184  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.184  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.450  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.450  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.450  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.544  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.770  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.770  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.770  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.220  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.312  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.595  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.104  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.104  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.104  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.205  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.205  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.205  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.592  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.592  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.686  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.065  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.159  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     5.159  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.159  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.255  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.351  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.351  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.351  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.443  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.443  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.443  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.537  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.537  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.537  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.630  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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APPENDIX B

Upper Centennial Wash HEC-2 Floodway

THIS RUN EXECUTED 5/16/90 15: 3:21

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      CENTENNIAL WASH FLOODWAY ANALYSIS
T2      UNENCROACHED METHOD
T3      URS FILE: CENTEN .FW1 CENTEN.OFW

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0      .002       0        0        0    2047.23      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      0        0       -1        2       40        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        8       42       26       43       14       39       53       54
   200

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

   -10      -10

QT       2    21700    21700
NC    .040     .040     .040       .1       .3
ET                      9.1                                                        20355    22055
X1   -.304       54  20775.1  21466.0       .0       .0       .0
GR  2059.7  17048.2   2059.5  17201.9   2060.2  17258.2   2056.6  17267.6   2056.6  17311.4
GR  2062.7  17347.1   2069.2  17368.4   2069.2  17381.8   2061.3  17403.9   2060.2  17459.4
GR  2059.0  17587.5   2056.2  17606.3   2058.4  17618.2   2058.8  17649.4   2057.6  17673.3
GR  2048.0  18815.3   2050.2  18825.5   2050.2  18835.3   2048.1  18839.5   2044.3  20000.0
GR  2044.6  20000.1   2044.4  20037.1   2048.2  20060.2   2048.3  20078.1   2054.3  20084.6
GR  2044.4  20102.4   2044.4  20116.3   2037.1  20126.8   2037.1  20191.6   2045.2  20202.5
GR  2045.2  20213.4   2052.8  20225.1   2049.9  20232.8   2049.1  20255.7   2043.6  20270.8
GR  2044.3  20304.2   2044.8  20775.0   2044.2  20775.1   2045.4  21414.8   2043.3  21429.1
GR  2043.2  21458.7   2044.3  21466.0   2048.6  22697.5   2049.8  22702.1   2049.7  22727.8
GR  2052.5  22747.3   2049.7  22771.3   2049.3  22796.5   2051.1  22817.0   2047.8  22825.4
GR  2050.7  22840.3   2050.9  23257.3   2053.2  23338.2   2056.6  24117.2

ET                      9.1                                                        20320    22020
X1   -.212       57  20558.0  21460.0      500      470      485
GR  2065.0  16869.1   2060.8  17407.5   2056.8  17425.1   2056.9  17448.0   2059.9  17494.1
GR  2067.4  17534.3   2067.4  17546.1   2059.6  17565.5   2058.1  17596.3   2058.2  17618.0
GR  2059.7  17637.7   2059.6  17658.1   2058.3  17673.3   2048.7  18854.0   2050.9  18862.1
GR  2050.9  18871.0   2048.8  18878.2   2045.5  20000.0   2045.0  20000.1   2045.7  20018.7
GR  2049.8  20041.3   2050.2  20060.6   2054.4  20068.6   2045.9  20089.5   2046.0  20103.4
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GR	2037.9	20113.8	2037.6	20177.0	2045.7	20187.3	2045.8	20199.4	2053.6	20210.7
GR	2050.3	20219.7	2050.1	20244.9	2045.4	20263.9	2045.4	20557.9	2044.7	20558.0
GR	2045.3	21387.0	2047.2	21395.5	2044.5	21407.7	2044.5	21445.9	2043.2	21452.4
GR	2044.9	21460.0	2049.0	22741.9	2051.2	22751.2	2050.0	22755.7	2050.1	22770.2
GR	2057.6	22792.0	2051.3	22808.1	2049.9	22834.7	2052.2	22853.2	2051.6	22870.4
GR	2051.6	22877.7	2051.6	22891.0	2051.3	23477.0	2054.3	23958.9	2055.3	24033.2
GR	2056.5	24220.9	2056.7	24321.7						
ET			9.1						20390	21890
X1	-.119	55	20369.0	21451.6	480	485	490			
GR	2065.6	17010.1	2061.2	17501.8	2060.5	17532.8	2057.0	17554.3	2066.7	17611.4
GR	2066.7	17628.5	2059.4	17665.8	2060.3	17674.1	2060.3	17709.9	2058.0	17717.6
GR	2057.6	17855.5	2058.4	17861.0	2058.4	17874.1	2056.8	17886.0	2057.1	17922.1
GR	2049.9	18900.2	2051.4	18907.9	2051.4	18916.3	2050.0	18924.4	2046.7	20000.0
GR	2046.2	20000.1	2046.3	20011.7	2050.9	20031.5	2051.0	20060.1	2054.3	20068.9
GR	2046.7	20085.9	2046.7	20099.4	2038.6	20112.8	2037.9	20164.6	2045.6	20181.3
GR	2046.7	20194.7	2056.0	20208.9	2051.2	20218.8	2050.9	20248.1	2046.1	20263.2
GR	2045.7	20286.1	2045.9	20368.9	2045.3	20369.0	2045.9	21376.7	2047.6	21389.2
GR	2045.3	21397.4	2045.3	21441.6	2044.4	21445.5	2045.6	21451.6	2049.9	22799.4
GR	2051.2	22806.2	2051.4	22843.7	2057.5	22856.1	2051.4	22880.1	2052.8	22911.8
GR	2052.8	22922.2	2053.0	22939.1	2052.2	23352.7	2053.8	23721.0	2057.0	24175.9
ET			9.1						20355	21855
X1	-.024	49	20258.1	21459.2	510	500	500			
GR	2065.9	17156.7	2063.6	17439.3	2059.5	17521.7	2059.5	17555.0	2063.2	17579.1
GR	2068.1	17596.8	2068.0	17607.0	2060.9	17629.7	2061.3	17638.7	2061.2	17672.8
GR	2059.8	17678.5	2051.5	18924.8	2052.7	18932.1	2052.7	18938.8	2051.2	18947.3
GR	2048.1	19780.2	2046.2	19800.1	2048.1	19828.7	2047.8	20000.0	2047.4	20000.1
GR	2050.8	20025.0	2051.2	20068.9	2046.7	20093.7	2038.2	20110.9	2038.2	20156.9
GR	2046.2	20168.4	2044.3	20168.5	2050.3	20197.6	2051.1	20242.6	2046.9	20258.1
GR	2046.7	21371.5	2048.1	21382.0	2045.8	21397.1	2045.7	21437.2	2046.9	21459.2
GR	2051.4	22894.7	2058.1	22910.9	2051.2	22941.5	2053.1	22961.5	2052.9	22975.9
GR	2052.9	22989.1	2054.1	23006.7	2052.4	23030.3	2054.1	23200.6	2054.7	23395.1
GR	2061.4	23408.1	2052.4	23438.1	2055.2	23470.2	2056.7	23768.0		
ET			9.1						20345	21845
X1	.070	39	20083.8	21509.2	495	500	495			
GR	2064.6	17135.3	2062.5	17469.8	2060.3	17488.8	2060.2	17530.7	2068.6	17564.8
GR	2068.3	17578.8	2060.5	17596.7	2061.9	17608.8	2062.4	17640.8	2060.5	17648.0
GR	2052.8	18945.7	2051.5	18950.5	2048.4	20000.0	2047.6	20000.1	2047.4	20064.4
GR	2049.2	20075.9	2047.3	20083.8	2047.4	21280.3	2049.1	21309.5	2046.5	21332.5
GR	2048.7	21355.4	2048.8	21455.8	2049.9	21479.4	2048.3	21509.2	2053.4	22860.8
GR	2051.4	22910.6	2053.3	22955.6	2061.1	22974.1	2053.9	22996.6	2053.9	23016.9
GR	2053.9	23031.0	2056.7	23050.4	2053.1	23067.8	2054.9	23088.6	2055.3	23173.1
GR	2061.3	23192.0	2052.3	23230.4	2054.7	23263.9	2061.6	24091.1		
ET			9.1						20325	21825
X1	.165	34	19811.3	21349.9	505	500	500			
GR	2064.0	17197.5	2063.3	17453.9	2061.2	17463.7	2060.8	17511.5	2068.7	17546.2
GR	2068.2	17557.5	2061.6	17585.1	2061.8	17609.1	2062.7	17615.7	2062.2	17626.1
GR	2054.1	18953.9	2055.8	18960.2	2052.6	18970.3	2049.1	19811.2	2048.5	19811.3
GR	2047.7	20000.0	2047.8	20000.1	2048.3	21331.3	2049.6	21341.7	2048.3	21349.9
GR	2052.6	22701.9	2055.5	22717.7	2054.3	22722.0	2054.3	22756.3	2054.3	22772.9
GR	2054.3	22803.3	2056.2	22821.1	2053.6	22832.2	2056.2	22978.6	2061.5	22990.2

GR	2053.1	23021.5	2052.6	23073.2	2056.5	23097.8	2060.5	23881.2		
ET			9.1						20355	21855
X1	.257	33	20000.0	21586.2	485	485	485			
GR	2069.0	16754.3	2064.8	17451.5	2062.7	17476.3	2062.1	17534.3	2069.2	17565.0
GR	2069.4	17571.3	2063.2	17595.7	2063.9	17603.0	2064.3	17635.8	2063.5	17640.4
GR	2054.8	18999.7	2055.9	19016.3	2053.1	19025.4	2051.0	19674.0	2049.7	19674.1
GR	2048.5	20000.0	2048.7	20000.1	2049.2	21586.2	2052.8	22645.6	2055.3	22655.6
GR	2054.6	22691.2	2050.5	22711.6	2051.3	22727.0	2060.7	22768.3	2054.7	22785.7
GR	2055.1	22817.3	2059.8	22830.8	2054.6	22858.0	2053.3	22888.6	2053.3	22910.2
GR	2054.8	22932.7	2056.2	22995.3	2060.8	23749.8				
ET			9.1						20315	21915
X1	.352	41	20833.4	22147.4	505	505	505			
GR	2068.8	17076.0	2066.4	17422.8	2064.7	17475.1	2061.9	17491.5	2061.8	17535.0
GR	2072.0	17570.2	2072.0	17581.8	2064.7	17602.9	2065.9	17610.0	2065.9	17638.9
GR	2064.7	17645.7	2056.2	18996.5	2054.9	19004.5	2055.9	19012.1	2056.1	19063.4
GR	2053.9	19072.1	2052.3	19517.7	2051.7	19517.8	2048.9	20000.0	2049.5	20000.1
GR	2049.8	20833.4	2049.6	21354.0	2051.9	22147.4	2052.9	22543.8	2055.8	22556.7
GR	2054.6	22562.9	2054.0	22582.9	2054.0	22602.2	2054.0	22615.0	2060.5	22647.6
GR	2053.9	22665.6	2053.9	22679.0	2060.2	22708.6	2056.9	22759.1	2056.9	22765.4
GR	2050.4	22778.8	2056.9	22797.9	2054.6	22826.0	2056.8	22900.9	2059.8	23051.0
GR	2061.1	23165.5								
ET			9.1						20260	21960
X1	.445	37	20708.0	21369.1	485	490	490			
GR	2068.3	17346.7	2067.7	17415.9	2065.0	17465.9	2062.7	17482.8	2062.3	17523.2
GR	2072.4	17564.3	2072.4	17574.9	2064.8	17590.6	2064.5	17601.5	2066.1	17607.2
GR	2066.1	17641.2	2064.7	17647.5	2056.6	19022.7	2054.7	19029.5	2056.2	19039.4
GR	2056.4	19093.6	2054.8	19100.8	2053.7	19355.5	2053.1	19355.6	2049.6	20000.0
GR	2049.7	20000.1	2050.6	20708.0	2050.4	21369.1	2053.1	22471.6	2055.7	22488.3
GR	2054.8	22521.8	2054.1	22587.4	2056.3	22602.6	2054.8	22621.5	2054.8	22634.7
GR	2054.8	22649.2	2060.3	22662.2	2054.4	22708.9	2054.4	22719.8	2055.6	22753.0
GR	2059.3	23411.4	2060.9	23448.1						
ET			9.1						20260	21960
X1	.541	41	20815.8	21368.6	505	500	505			
GR	2069.0	17193.2	2067.9	17440.3	2065.6	17488.0	2062.9	17508.8	2062.9	17535.5
GR	2066.8	17580.2	2072.7	17596.4	2073.2	17611.4	2064.3	17630.5	2066.0	17638.7
GR	2066.6	17669.0	2064.8	17675.7	2056.4	19054.9	2054.8	19063.0	2056.4	19069.8
GR	2056.8	19124.0	2055.0	19135.2	2055.0	19183.8	2054.6	19183.9	2051.8	19913.2
GR	2049.8	19999.6	2049.8	20000.0	2050.0	20000.1	2051.3	20032.5	2051.4	20815.8
GR	2051.5	21368.6	2054.4	22532.4	2055.7	22553.4	2055.8	22598.7	2054.6	22626.4
GR	2056.1	22650.5	2061.5	22662.8	2057.5	22675.2	2056.7	22707.0	2055.5	22726.6
GR	2055.5	22740.1	2055.5	22754.4	2057.5	23078.7	2059.6	23153.0	2058.3	23237.7
GR	2064.4	24080.1								
ET			9.1						20280	21980
X1	.633	35	20694.6	21315.0	485	485	485			
GR	2068.4	17463.1	2067.9	17558.9	2066.5	17601.4	2064.5	17609.6	2064.5	17662.5
GR	2074.0	17698.5	2073.6	17713.2	2065.6	17733.6	2066.8	17744.4	2067.4	17777.0
GR	2065.7	17784.2	2057.4	19041.8	2056.9	19041.9	2057.3	19172.5	2055.4	19186.4
GR	2051.9	19972.8	2051.2	20000.0	2051.1	20000.1	2052.3	20694.6	2052.5	21297.0
GR	2054.1	21306.0	2052.4	21315.0	2055.1	22501.8	2056.3	22512.0	2056.3	22554.4

GR	2063.8	22577.7	2056.2	22605.1	2056.8	22650.8	2059.0	22672.9	2056.6	22733.2
GR	2056.8	22864.4	2064.9	22956.0	2061.3	23029.6	2062.3	23202.8	2066.7	23280.3
ET			9.1						20280	21980
X1	.728	33	20828.4	21611.7	510	505	505			
GR	2068.2	17650.1	2066.5	17719.6	2064.5	17728.8	2064.2	17758.2	2074.0	17797.8
GR	2074.3	17815.7	2066.1	17835.7	2067.6	17843.9	2068.0	17873.8	2066.2	17878.3
GR	2059.9	18874.3	2058.9	18874.4	2057.3	19206.5	2056.2	19213.0	2053.0	19985.5
GR	2052.1	20000.0	2051.9	20000.1	2051.1	20028.9	2052.5	20075.4	2053.5	20828.4
GR	2054.1	21611.7	2055.8	22392.8	2057.0	22400.9	2056.8	22432.6	2056.8	22457.8
GR	2065.4	22473.5	2058.9	22516.8	2058.9	22539.6	2059.9	22775.6	2064.1	22809.6
GR	2059.5	22855.4	2061.3	23366.5	2065.6	23493.2				
ET			9.1						20285	21985
X1	.820	40	20886.3	21335.0	480	490	485			
GR	2071.7	17513.6	2070.6	17705.8	2067.2	17809.0	2063.8	17834.4	2063.6	17848.9
GR	2069.5	17880.0	2075.7	17894.5	2075.6	17907.3	2067.9	17938.6	2068.1	17971.1
GR	2066.8	17975.0	2061.8	18713.6	2061.2	18713.7	2056.9	19189.1	2058.1	19199.8
GR	2058.1	19243.7	2057.2	19250.2	2053.7	19922.6	2051.8	19962.7	2053.3	20000.0
GR	2053.1	20000.1	2053.9	20032.3	2054.2	20886.3	2054.3	21312.5	2055.8	21326.5
GR	2054.1	21335.0	2056.7	22293.3	2057.9	22300.6	2057.9	22308.2	2057.9	22328.5
GR	2060.3	22357.4	2064.8	22368.2	2061.2	22388.9	2061.2	22443.8	2061.2	22452.3
GR	2061.2	22476.3	2061.6	22561.4	2059.3	22626.4	2061.1	23074.6	2064.5	23689.4
ET			9.1						20510	22310
X1	.914	37	20785.2	21270.2	490	495	495			
GR	2069.4	17859.2	2068.1	17934.2	2065.0	17956.4	2064.6	17968.2	2074.6	18006.5
GR	2074.6	18016.7	2068.1	18039.0	2068.7	18080.9	2067.3	18100.1	2065.4	18570.1
GR	2064.5	18570.2	2058.2	19234.8	2058.9	19242.5	2059.3	19281.8	2057.9	19289.3
GR	2054.9	19801.4	2053.9	19841.6	2054.7	20000.0	2055.0	20000.1	2055.1	20785.2
GR	2055.1	21201.4	2056.3	21212.9	2054.5	21222.3	2055.6	21270.2	2057.4	22293.1
GR	2059.6	22311.5	2059.6	22320.7	2059.6	22338.2	2064.2	22370.1	2059.2	22386.3
GR	2059.4	22415.3	2055.4	22421.4	2060.4	22436.1	2063.3	22942.6	2061.4	22957.1
GR	2063.9	22984.7	2064.2	23098.5						
ET			9.1						20200	22100
X1	1.008	53	20808.1	21350.0	500	495	500			
GR	2072.1	17817.2	2071.4	17882.8	2067.6	18019.3	2064.6	18050.6	2075.1	18107.0
GR	2075.3	18117.5	2068.0	18135.8	2068.6	18167.6	2066.9	18176.3	2065.4	18555.6
GR	2063.0	18572.1	2064.2	18590.1	2060.2	19255.6	2060.9	19261.3	2060.9	19276.0
GR	2058.3	19284.7	2060.4	19294.4	2060.6	19323.9	2058.7	19330.9	2059.4	19393.2
GR	2059.1	19393.3	2059.2	19439.7	2061.6	19468.8	2056.3	19500.3	2059.5	19557.9
GR	2059.7	19636.3	2056.7	19674.9	2056.6	19710.2	2058.4	19728.8	2056.7	19757.5
GR	2053.4	19767.8	2056.5	19782.9	2055.8	20000.0	2055.6	20000.1	2055.8	20808.1
GR	2055.7	21060.9	2057.2	21070.0	2054.3	21079.2	2055.6	21083.8	2055.6	21101.3
GR	2057.5	21108.2	2056.0	21120.7	2056.4	21350.0	2058.1	22309.2	2061.2	22322.0
GR	2059.1	22331.8	2059.1	22349.4	2061.3	22405.5	2064.9	22419.3	2061.5	22456.0
GR	2061.5	22493.9	2066.4	23412.5	2068.3	23458.3				

ET			9.1						20210	21810
X1	1.097	41	20603.3	21250.0	455	460	465			
GR	2072.0	17790.7	2068.2	17904.6	2068.7	17958.4	2064.2	17967.3	2064.0	17980.7
GR	2077.1	18025.6	2068.9	18057.2	2069.0	18086.9	2066.7	18098.0	2063.1	18863.7
GR	2061.0	18878.4	2062.9	18899.5	2061.5	19202.2	2060.1	19210.1	2060.0	19244.7
GR	2061.0	19252.3	2059.9	19262.2	2058.1	20000.0	2057.9	20000.1	2057.0	20603.3
GR	2057.2	20603.4	2056.3	20655.2	2060.1	20747.6	2057.4	20797.5	2058.7	20811.5
GR	2057.2	20905.3	2058.6	20942.6	2056.9	20969.3	2057.6	21250.0	2059.8	22191.3
GR	2062.1	22206.6	2060.0	22218.0	2060.1	22234.0	2062.1	22243.1	2062.1	22272.6
GR	2066.3	22305.1	2061.9	22352.4	2061.9	22373.7	2063.2	22423.8	2066.3	23145.1
GR	2067.6	23321.2								

ET			9.1						20150	21550
X1	1.184	29	20000.1	21140.0	475	460	460			
GR	2072.0	17673.1	2069.0	17729.8	2069.0	17772.1	2064.6	17784.2	2064.6	17802.8
GR	2069.7	17815.7	2071.1	17832.9	2076.8	17848.1	2068.7	17873.0	2069.5	17913.0
GR	2066.7	17922.7	2061.5	19158.3	2060.1	19167.4	2058.3	20000.0	2058.2	20000.1
GR	2058.1	20621.1	2059.3	21140.0	2061.0	21855.2	2060.6	21855.3	2061.7	22058.8
GR	2062.9	22074.3	2061.9	22089.3	2061.9	22162.1	2068.0	22181.5	2061.7	22205.7
GR	2061.7	22243.9	2063.8	22333.8	2067.1	22856.4	2068.3	22943.1		

ET			9.1						19975	21375
X1	1.273	23	20000.0	21023.3	475	470	470			
GR	2072.0	17484.9	2069.9	17573.4	2066.4	17599.9	2066.4	17608.8	2077.2	17666.0
GR	2069.4	17696.2	2069.7	17733.8	2067.9	17740.7	2061.3	19068.7	2058.7	20000.0
GR	2058.6	20000.1	2058.4	20207.1	2059.1	20213.3	2059.1	20312.9	2057.9	20318.6
GR	2057.9	20346.8	2058.9	20356.9	2059.5	21023.3	2063.1	22038.7	2070.3	22060.8
GR	2063.1	22086.1	2065.8	22516.8	2069.1	22986.7				

ET			9.1						19820	21220
X1	1.358	36	20000.0	21299.1	450	450	450			
GR	2072.0	17312.8	2070.3	17388.1	2067.1	17415.5	2067.1	17437.1	2077.6	17485.3
GR	2077.7	17494.1	2069.4	17514.8	2069.5	17569.5	2068.0	17576.6	2068.0	17596.9
GR	2064.7	18244.7	2062.4	18847.8	2061.1	18959.5	2063.5	18968.5	2061.3	18978.8
GR	2059.2	20000.0	2059.2	20000.1	2059.7	20065.9	2058.9	20071.2	2058.9	20095.1
GR	2059.7	20103.9	2058.7	20112.9	2061.3	21299.1	2063.6	21796.7	2064.4	21809.7
GR	2064.4	21829.4	2064.4	21848.8	2064.7	21936.3	2072.8	21953.6	2064.6	21974.4
GR	2064.8	22074.0	2067.0	22461.4	2066.9	22461.5	2069.0	22936.5	2070.6	23185.3
GR	2072.3	23377.2								

ET			9.1						19655	21055
X1	1.450	41	20017.7	20941.7	485	485	485			
GR	2072.4	17124.0	2070.5	17190.4	2071.3	17218.5	2068.5	17254.5	2068.5	17268.4
GR	2078.1	17320.2	2069.8	17348.3	2070.3	17392.3	2068.8	17401.6	2064.0	18464.2
GR	2063.5	18764.8	2061.4	18824.6	2061.7	18866.9	2062.6	18875.7	2060.4	19953.0
GR	2060.7	19961.8	2059.8	19971.2	2059.8	20000.0	2060.5	20000.1	2060.5	20004.1
GR	2060.5	20008.4	2059.7	20017.7	2061.1	20239.4	2061.9	20542.7	2062.7	20941.7
GR	2063.7	21353.4	2065.2	21679.3	2066.0	21701.1	2066.0	21757.0	2066.2	21808.2
GR	2072.0	21836.0	2065.8	21866.0	2065.3	21908.3	2065.3	21924.8	2066.4	21938.0
GR	2067.4	22009.3	2068.2	22146.8	2066.9	22146.9	2068.9	22483.7	2070.5	22726.4
GR	2071.0	22920.0								

ET			9.1						19590	20990
X1	1.544	42	20000.0	20775.6	500	505	500			
GR	2072.0	17041.4	2071.9	17158.3	2069.5	17184.3	2069.5	17206.2	2079.6	17246.3
GR	2079.6	17258.3	2070.9	17276.7	2070.8	17323.8	2069.6	17337.6	2065.8	18132.6
GR	2064.0	18768.7	2061.5	18834.0	2063.8	18895.5	2062.4	20000.0	2061.0	20000.1
GR	2061.3	20140.2	2058.8	20147.8	2060.1	20157.8	2060.1	20173.3	2061.6	20185.5
GR	2059.2	20197.4	2061.2	20228.6	2062.3	20317.7	2063.1	20775.6	2064.6	21190.0
GR	2066.0	21553.4	2067.1	21644.7	2068.1	21650.5	2066.1	21669.2	2067.2	21694.4
GR	2067.8	21760.6	2069.1	21777.4	2073.8	21787.9	2067.9	21812.9	2067.6	21839.2
GR	2067.6	21862.6	2067.6	21884.4	2067.9	21908.8	2067.2	21908.9	2068.3	21943.5
GR	2071.1	22439.0	2072.1	22789.4						

ET			9.1						19600	21000
X1	1.639	42	20000.0	21064.4	500	495	500			
GR	2072.0	16991.7	2072.1	17007.8	2074.1	17047.2	2073.3	17077.6	2069.6	17100.6
GR	2069.5	17123.4	2073.8	17141.8	2073.7	17153.4	2080.4	17187.9	2080.6	17197.2
GR	2071.2	17218.4	2072.0	17235.0	2072.6	17266.7	2071.0	17280.7	2070.1	17550.6
GR	2064.6	18769.0	2065.2	18791.0	2062.6	18829.2	2064.2	18877.5	2065.6	18886.4
GR	2064.4	18892.5	2063.1	20000.0	2062.9	20000.1	2061.9	20192.9	2059.7	20206.7
GR	2061.6	20213.9	2061.6	20233.4	2063.7	20335.0	2065.4	21064.4	2067.6	21748.2
GR	2066.9	21748.3	2066.8	21942.7	2069.2	21961.5	2067.8	21979.1	2067.8	21999.0
GR	2068.1	22011.5	2073.8	22032.3	2066.8	22088.4	2067.4	22133.4	2069.1	22172.4
GR	2071.4	22634.2	2072.2	22849.2						

ET			9.1						19590	20990
X1	1.732	48	20000.0	20902.2	490	495	490			
GR	2072.0	16932.4	2079.0	16960.7	2071.7	16978.1	2072.8	17003.7	2074.3	17050.5
GR	2071.1	17067.1	2071.7	17092.9	2079.6	17129.6	2079.6	17145.8	2072.1	17166.2
GR	2072.1	17190.6	2074.5	17199.9	2071.8	17212.6	2070.0	17780.0	2066.2	18786.1
GR	2062.8	18810.6	2062.9	18856.8	2066.6	18864.4	2065.8	18881.3	2064.3	20000.0
GR	2063.7	20000.1	2063.3	20178.8	2061.6	20185.8	2063.2	20194.6	2063.2	20210.0
GR	2064.2	20220.3	2062.5	20227.4	2064.4	20283.3	2065.1	20548.4	2066.1	20902.2
GR	2067.4	21309.9	2067.9	21562.7	2067.3	21562.8	2068.2	21952.8	2069.4	21965.6
GR	2069.4	21982.9	2070.1	21996.6	2067.8	22072.6	2076.5	22096.3	2069.4	22128.8
GR	2071.8	22170.9	2071.3	22187.3	2071.3	22216.7	2071.8	22287.4	2070.4	22514.2
GR	2073.8	22587.7	2071.0	22615.2	2076.8	23085.0				

ET			9.1						19615	21015
X1	1.829	46	20000.0	20771.8	505	500	510			
GR	2077.4	16678.9	2076.1	16875.7	2072.9	16909.9	2072.9	16929.9	2078.3	16961.4
GR	2074.3	16978.5	2074.1	17010.9	2075.4	17040.5	2075.7	17088.9	2073.2	17098.7
GR	2073.2	17138.1	2080.4	17162.9	2080.4	17182.8	2072.8	17206.4	2073.3	17232.1
GR	2074.2	17249.3	2072.5	17309.7	2066.9	18788.9	2064.8	18812.4	2064.6	18849.6
GR	2067.6	18861.1	2066.9	18867.9	2065.3	20000.0	2065.0	20000.1	2064.2	20225.2
GR	2065.3	20336.0	2066.9	20771.8	2067.7	21082.3	2068.4	21411.4	2067.8	21411.5
GR	2069.3	21924.0	2070.6	21935.7	2068.6	21954.1	2070.8	21982.2	2069.3	22010.9
GR	2070.7	22122.9	2077.8	22152.8	2070.5	22179.5	2070.2	22204.3	2070.2	22211.6
GR	2070.2	22234.0	2071.4	22243.2	2072.1	22387.7	2074.7	22437.2	2076.3	22623.3
GR	2077.0	22633.9								

ET			9.1						19600	21000
X1	1.921	48	19999.9	20549.7	490	505	490			
GR	2081.0	16294.8	2076.3	16828.7	2073.7	16844.8	2074.4	16867.0	2081.4	16894.8
GR	2075.5	16917.0	2075.3	16964.5	2076.8	16999.0	2077.2	17045.1	2080.6	17061.0
GR	2072.9	17090.7	2073.3	17115.8	2082.1	17165.6	2073.8	17196.9	2073.8	17222.0
GR	2075.8	17232.8	2072.7	17246.7	2068.2	18611.2	2070.0	18663.3	2067.0	18715.9
GR	2066.6	18826.3	2068.7	18839.7	2066.1	19999.9	2066.3	20000.0	2065.7	20153.4
GR	2064.2	20194.0	2065.5	20216.2	2066.9	20549.7	2068.4	21016.8	2069.2	21236.0
GR	2068.4	21236.1	2070.6	21922.1	2071.9	21931.5	2071.6	21952.0	2071.6	21971.3
GR	2070.4	21986.6	2072.9	22149.2	2079.4	22161.4	2071.9	22180.1	2072.4	22223.6
GR	2070.6	22245.9	2070.6	22272.1	2072.7	22284.9	2073.6	22307.7	2074.7	22611.8
GR	2080.4	22912.5	2079.9	23132.6	2081.6	23285.4				

ET			9.1						19620	21020
X1	2.014	44	19999.9	21038.3	490	495	490			
GR	2081.0	16223.2	2077.0	16762.9	2074.7	16781.8	2074.9	16802.0	2081.9	16835.0
GR	2075.7	16857.9	2075.8	16902.9	2077.7	16959.7	2079.2	16976.3	2074.5	17009.2
GR	2074.3	17037.5	2078.6	17052.9	2078.9	17072.1	2082.7	17090.0	2082.8	17096.8
GR	2074.4	17126.2	2074.2	17158.2	2072.0	17606.4	2069.1	18827.4	2069.7	18836.0
GR	2069.0	18856.0	2067.1	19999.9	2067.0	20000.0	2066.7	20144.1	2067.6	20156.3
GR	2066.1	20175.7	2065.7	20215.8	2067.0	20289.1	2069.2	21038.3	2069.4	21082.8
GR	2069.0	21082.9	2071.7	21938.0	2073.2	21949.1	2073.2	21970.9	2073.7	22037.5
GR	2074.2	22069.0	2079.6	22099.8	2071.5	22136.7	2071.5	22154.6	2071.5	22173.8
GR	2076.5	22199.8	2077.3	22436.0	2079.7	22873.1	2081.3	23174.5		

ET			9.1						19925	21525
X1	2.109	48	20000.0	20803.2	510	495	500			
GR	2080.0	16263.0	2078.8	16712.1	2075.2	16744.7	2079.2	16826.4	2076.8	16856.9
GR	2078.8	16899.5	2073.9	16928.7	2074.0	16942.3	2082.9	17004.9	2074.8	17033.7
GR	2075.3	17080.2	2069.8	18715.7	2068.1	18728.6	2068.8	18736.1	2069.2	18762.4
GR	2070.4	18770.3	2069.3	18778.5	2068.7	19453.9	2070.9	19518.1	2068.1	19540.5
GR	2070.1	19571.1	2070.1	19620.7	2068.5	19654.3	2068.4	20000.0	2068.3	20000.1
GR	2068.0	20133.8	2068.9	20139.0	2068.7	20159.8	2066.3	20174.3	2067.4	20181.6
GR	2067.4	20214.5	2068.4	20274.3	2069.0	20803.2	2069.5	20925.1	2069.3	20925.2
GR	2071.4	21609.9	2073.2	22100.3	2074.2	22111.4	2071.9	22137.8	2082.1	22171.1
GR	2073.6	22196.2	2073.6	22222.2	2073.6	22236.0	2074.6	22262.1	2075.8	22288.0
GR	2077.2	22558.2	2079.8	22898.4	2083.0	23140.4				

ET			9.1						19495	21195
X1	2.204	43	20000.0	20774.2	500	495	500			
GR	2080.6	16413.5	2079.0	16699.1	2076.4	16722.2	2078.4	16740.5	2081.2	16806.3
GR	2077.2	16826.2	2077.1	16888.7	2083.8	16914.2	2084.0	16924.0	2076.3	16952.6
GR	2076.5	16992.7	2073.6	17654.4	2071.3	18256.3	2070.6	18597.3	2069.0	18602.9
GR	2069.1	18639.1	2070.9	18646.8	2068.6	20000.0	2068.6	20000.1	2068.5	20102.0
GR	2069.9	20118.8	2069.9	20140.9	2072.0	20157.3	2069.8	20170.6	2070.3	20225.9
GR	2068.1	20246.8	2070.3	20292.8	2069.0	20330.1	2069.7	20709.5	2069.7	20774.1
GR	2069.9	20774.2	2072.4	21702.8	2074.2	22169.8	2075.4	22177.8	2072.9	22200.8
GR	2083.1	22235.8	2076.1	22258.4	2075.6	22300.4	2075.6	22309.6	2076.3	22321.7
GR	2076.5	22370.0	2076.9	22734.0	2081.5	23495.0				

ET			9.1						19480	21180
X1	2.298	52	19958.9	20589.6	505	500	500			
GR	2080.0	16391.9	2080.0	16463.3	2078.3	16493.4	2080.2	16592.3	2079.1	16625.6
GR	2080.4	16707.8	2077.2	16716.0	2077.8	16762.6	2085.7	16801.0	2077.7	16838.6
GR	2078.8	16878.1	2077.4	16890.4	2074.0	17583.3	2071.7	18443.4	2069.9	18449.9
GR	2070.5	18481.2	2072.1	18493.3	2071.5	18504.6	2069.6	19947.6	2070.7	19958.9
GR	2069.5	19969.1	2069.5	20000.0	2069.8	20000.1	2069.8	20012.3	2074.2	20025.4
GR	2073.4	20154.0	2066.7	20167.4	2066.4	20225.3	2073.4	20237.8	2074.4	20299.2
GR	2073.1	20356.7	2069.8	20376.1	2070.4	20589.5	2070.4	20589.6	2071.5	21104.5
GR	2072.4	21537.5	2073.8	21566.1	2070.8	21591.4	2073.1	21618.2	2075.2	22186.4
GR	2076.5	22200.2	2073.5	22215.1	2073.7	22229.8	2084.0	22259.4	2076.9	22295.9
GR	2076.9	22376.6	2076.9	22389.3	2077.9	22417.3	2078.5	22494.0	2077.4	22820.4
GR	2078.3	22881.1	2084.7	22931.6						

ET			9.1						19485	21185
X1	2.390	59	19827.7	20992.3	485	495	485			
GR	2085.3	15914.8	2082.0	16514.2	2080.1	16532.9	2081.8	16619.8	2078.8	16630.9
GR	2078.8	16688.3	2085.5	16715.8	2085.3	16726.0	2078.8	16747.8	2079.8	16764.2
GR	2080.4	16793.5	2078.0	17067.5	2074.2	17861.6	2072.9	18308.0	2071.2	18317.0
GR	2071.1	18354.6	2072.9	18366.4	2072.4	18377.3	2070.5	19795.8	2070.8	19810.1
GR	2069.3	19818.1	2070.8	19827.7	2070.0	19835.2	2070.4	19999.9	2070.3	20000.0
GR	2070.3	20044.8	2069.3	20055.0	2071.2	20068.8	2070.4	20078.7	2070.5	20096.3
GR	2072.7	20107.2	2072.7	20131.2	2066.0	20140.2	2066.2	20194.2	2073.3	20207.7
GR	2073.3	20219.8	2068.6	20235.8	2069.1	20253.8	2070.4	20264.2	2069.9	20283.8
GR	2070.8	20421.9	2070.8	20422.0	2071.8	20992.3	2073.9	21639.6	2076.1	22093.5
GR	2077.3	22104.0	2077.3	22142.8	2076.3	22148.8	2077.3	22375.4	2078.4	22388.3
GR	2076.4	22412.9	2078.4	22485.2	2084.0	22523.6	2076.6	22592.8	2078.2	22652.0
GR	2075.3	22664.5	2075.8	22693.2	2081.5	22721.7	2085.7	23346.5		

ET			9.1						19645	21045
X1	2.485	53	19706.5	20962.8	505	500	500			
GR	2084.6	16275.2	2084.2	16413.5	2081.8	16472.8	2081.4	16496.7	2082.4	16529.8
GR	2079.6	16538.4	2080.1	16611.5	2086.8	16631.0	2086.8	16641.4	2080.2	16666.7
GR	2080.7	16698.5	2080.6	16762.8	2078.1	17104.5	2075.8	17574.2	2074.1	18182.8
GR	2072.4	18199.4	2072.4	18233.1	2074.0	18243.4	2071.9	19327.3	2071.2	19691.6
GR	2070.1	19699.7	2071.4	19706.5	2071.6	19999.9	2071.4	20000.0	2071.4	20040.0
GR	2073.3	20052.8	2073.3	20088.0	2075.6	20096.3	2075.6	20115.6	2066.3	20131.8
GR	2066.2	20176.9	2075.5	20194.4	2075.0	20216.2	2071.4	20247.5	2071.4	20266.6
GR	2070.8	20266.7	2072.1	20962.8	2077.1	22107.8	2080.7	22659.6	2082.7	22677.0
GR	2080.1	22688.0	2080.7	22771.1	2085.5	22803.2	2079.5	22829.8	2079.2	22883.8
GR	2077.3	22894.4	2077.1	22936.1	2083.6	22951.2	2085.3	23314.4	2082.6	23330.5
GR	2083.2	23446.9	2085.9	23462.8	2086.1	23501.5				

ET			9.1						19670	21070
X1	2.580	48	19608.8	20919.8	495	505	505			
GR	2084.6	16349.5	2082.6	16425.3	2083.0	16463.2	2078.7	16484.2	2078.9	16508.4
GR	2088.5	16567.7	2081.4	16592.5	2081.5	16616.1	2083.9	16633.5	2081.7	16655.9
GR	2078.2	17273.6	2075.5	18072.1	2073.0	18083.3	2075.4	18091.2	2074.3	18810.6
GR	2072.4	19608.8	2072.5	20000.0	2072.3	20000.1	2072.3	20024.4	2074.1	20036.7
GR	2074.2	20059.2	2079.0	20084.7	2079.0	20102.0	2072.1	20115.1	2071.9	20115.2
GR	2065.9	20124.3	2065.8	20168.1	2077.3	20189.6	2078.4	20220.2	2073.4	20238.5
GR	2071.7	20290.1	2072.8	20919.8	2077.1	21950.5	2078.7	21963.8	2077.3	21973.7
GR	2079.6	22474.2	2083.2	22940.9	2084.5	22954.5	2082.9	22962.1	2082.9	23009.7

GR	2089.9	23036.3	2078.8	23069.2	2086.3	23107.2	2077.8	23140.9	2077.8	23167.3
GR	2085.5	23202.6	2084.1	23212.8	2085.1	23302.8				
ET			9.1						19735	21135
X1	2.670	38	19425.3	20939.4	480	480	475			
GR	2088.0	16005.0	2088.0	16146.0	2089.7	16175.0	2085.6	16194.7	2088.6	16211.0
GR	2089.0	16261.6	2087.0	16338.6	2084.1	16360.4	2084.0	16412.1	2080.5	16426.2
GR	2080.5	16498.3	2089.5	16535.8	2083.0	16568.4	2084.9	16603.5	2078.5	17520.7
GR	2077.1	18009.2	2075.5	18726.9	2074.0	19425.3	2073.7	20000.0	2072.7	20000.1
GR	2072.5	20062.4	2070.7	20068.3	2072.9	20078.7	2073.0	20102.6	2075.1	20122.6
GR	2077.3	20261.5	2073.4	20309.8	2073.8	20939.4	2078.2	22072.6	2084.5	23177.7
GR	2085.3	23188.3	2083.6	23197.3	2084.5	23224.9	2091.5	23245.4	2078.6	23319.3
GR	2078.7	23352.6	2086.1	23419.0	2089.5	23870.0				
ET			9.1						19740	21240
X1	2.770	44	19615.2	20949.7	520	525	525			
GR	2088.0	16228.4	2087.4	16303.4	2085.6	16340.9	2086.3	16394.7	2082.9	16413.7
GR	2082.0	16463.9	2091.3	16490.4	2091.1	16498.7	2085.1	16525.3	2082.9	17019.1
GR	2079.4	17775.1	2077.6	18331.9	2077.4	18715.7	2075.6	18723.2	2074.3	19615.2
GR	2074.8	19883.7	2074.1	19883.8	2074.1	20000.0	2073.9	20000.1	2073.6	20108.6
GR	2072.1	20116.9	2074.0	20127.5	2074.9	20949.7	2077.0	21759.2	2078.6	22128.1
GR	2079.8	22142.3	2078.4	22148.8	2078.4	22166.2	2080.2	22590.2	2082.4	22931.5
GR	2084.3	23380.1	2086.0	23403.5	2084.2	23417.8	2083.9	23450.3	2091.3	23474.6
GR	2079.7	23534.7	2079.5	23563.0	2085.3	23584.7	2085.6	23774.9	2088.5	23814.7
GR	2086.5	23844.2	2087.9	23958.1	2088.2	24121.8	2089.3	24165.3		
ET			9.1						19795	21295
X1	2.860	44	19766.9	21038.6	480	475	475			
GR	2088.0	16303.2	2082.9	16363.0	2082.4	16390.9	2093.1	16458.7	2086.1	16487.4
GR	2086.7	16522.8	2081.9	17386.2	2080.0	17920.1	2077.8	18844.1	2078.2	19095.3
GR	2076.1	19102.7	2075.7	19766.8	2075.3	19766.9	2074.6	20000.0	2075.2	20000.1
GR	2075.3	20167.3	2073.2	20173.7	2075.5	20182.7	2075.7	20220.2	2072.9	20229.5
GR	2075.2	20246.8	2075.3	20739.2	2076.1	21038.6	2078.1	21826.0	2079.0	22217.6
GR	2080.4	22226.9	2078.5	22234.8	2078.5	22251.2	2080.0	22259.5	2078.8	22267.9
GR	2080.0	22432.2	2082.7	23098.2	2083.9	23583.5	2086.9	23612.4	2084.0	23625.7
GR	2084.3	23651.9	2091.2	23679.1	2080.3	23723.6	2080.3	23754.6	2084.9	23770.6
GR	2087.2	24033.2	2090.1	24076.2	2088.4	24122.4	2088.4	24218.5		
ET			9.1						19910	21310
X1	2.953	42	20000.0	21085.3	505	495	490			
GR	2088.0	16242.3	2083.4	16310.0	2083.5	16353.1	2097.4	16428.6	2087.4	16461.0
GR	2088.6	16490.4	2086.9	16510.3	2084.6	17193.6	2081.8	17802.0	2082.9	17812.5
GR	2079.5	18801.9	2081.6	18886.0	2078.1	19037.5	2078.3	19328.5	2077.0	19333.8
GR	2076.6	19674.7	2076.4	19674.8	2075.2	19999.9	2075.7	20000.0	2075.7	20013.1
GR	2076.6	20016.5	2076.6	20050.0	2075.4	20059.1	2077.3	21043.5	2075.7	21085.3
GR	2079.7	22309.8	2081.1	22322.5	2079.1	22329.5	2079.2	22352.6	2080.2	22361.0
GR	2081.3	22914.7	2081.6	23131.0	2085.4	23680.7	2086.4	23690.7	2084.7	23706.3
GR	2084.7	23731.4	2092.1	23754.0	2079.9	23829.1	2079.9	23840.4	2086.5	23855.7
GR	2087.4	23879.4	2088.7	24312.9						

ET			9.1						19910	21310
X1	3.035	56	20000.1	21082.3	530	390	435			
GR	2096.2	15417.7	2092.8	15866.3	2088.4	15893.8	2089.1	16003.9	2101.0	16062.4
GR	2101.0	16088.2	2087.8	16101.5	2087.7	16179.1	2090.7	16225.5	2098.1	16243.8
GR	2089.6	16275.6	2089.8	16580.0	2089.8	16580.1	2089.5	16710.1	2090.4	16729.8
GR	2089.0	16739.9	2085.9	17357.8	2085.3	17710.2	2084.8	17710.3	2084.2	18116.2
GR	2082.4	18134.8	2085.0	18148.7	2084.8	18331.5	2082.3	18348.6	2084.2	18386.1
GR	2084.6	18475.8	2083.7	18555.7	2080.4	19086.0	2078.1	19323.9	2079.1	19418.6
GR	2078.0	19424.7	2078.0	19457.6	2077.6	19457.7	2077.1	19678.5	2074.1	19694.7
GR	2077.7	19707.6	2077.8	19735.6	2075.8	19746.3	2077.3	19766.4	2077.1	20000.0
GR	2077.8	20000.1	2077.1	21082.3	2081.6	22320.2	2080.1	22323.9	2080.5	22352.3
GR	2082.6	23064.1	2085.0	23662.1	2086.5	23675.1	2084.6	23698.9	2085.0	23713.0
GR	2090.5	23733.7	2080.6	23804.1	2080.7	23816.3	2087.2	23831.2	2088.3	23873.6
GR	2089.1	24306.6								

ET			9.1						19940	21340
X1	3.127	55	20000.1	21065.6	490	480	485			
GR	2096.0	15527.8	2094.8	15762.4	2089.6	15789.2	2089.2	15873.4	2099.9	15930.7
GR	2099.9	15955.5	2088.6	15977.7	2088.6	16054.6	2090.6	16069.5	2090.7	16086.7
GR	2100.6	16125.0	2090.6	16153.3	2091.6	16357.8	2092.0	16357.9	2090.6	16461.8
GR	2094.7	16483.8	2091.1	16504.8	2086.1	17780.4	2086.8	17808.6	2085.7	17820.6
GR	2085.6	17927.6	2088.2	18048.6	2088.3	18126.3	2086.9	18222.0	2087.7	18288.9
GR	2083.2	18382.4	2082.1	18676.3	2084.7	18762.6	2083.7	18815.4	2083.7	18815.5
GR	2080.5	19217.9	2078.7	19218.0	2078.7	19330.3	2079.9	19335.7	2080.7	19373.3
GR	2078.5	19387.0	2079.6	19478.7	2080.6	19490.8	2081.6	19547.4	2078.4	19564.6
GR	2077.8	20000.0	2077.9	20000.1	2078.9	21023.2	2077.6	21065.6	2080.9	22047.5
GR	2081.6	22307.7	2079.7	22311.4	2086.5	23628.8	2084.5	23660.6	2092.6	23676.4
GR	2086.5	23735.3	2086.5	23753.0	2083.5	23786.6	2087.5	23858.8	2088.6	24079.9

ET			9.1						19900	21400
X1	3.220	52	20000.1	21057.1	500	495	490			
GR	2100.4	14866.4	2098.3	15316.2	2095.3	15651.9	2090.6	15686.9	2090.1	15729.1
GR	2101.9	15805.6	2101.9	15824.9	2090.4	15842.6	2088.8	15923.2	2092.6	15935.6
GR	2092.9	15948.5	2101.1	15979.2	2092.8	16010.3	2093.6	16138.3	2093.1	16138.4
GR	2093.4	16239.8	2095.8	16254.7	2092.4	16274.9	2087.0	17559.8	2088.7	17582.7
GR	2086.7	17597.9	2087.0	17699.1	2088.2	17747.6	2086.7	17799.9	2082.3	18442.7
GR	2080.5	19303.7	2081.8	19321.9	2079.9	19334.1	2079.9	19376.5	2081.6	19392.1
GR	2079.9	19422.1	2079.7	19924.3	2079.9	19924.4	2079.9	20000.0	2080.0	20000.1
GR	2079.8	20564.6	2081.8	20629.9	2080.0	20645.9	2079.3	21057.1	2080.7	21667.7
GR	2082.5	22274.4	2083.9	22285.3	2081.4	22290.5	2081.4	22318.8	2082.5	22335.7
GR	2084.3	22928.4	2087.9	23575.7	2086.1	23594.0	2093.6	23622.3	2086.7	23677.9
GR	2089.4	23740.7	2089.1	23872.8						

ET			9.1						19920	21420
X1	3.312	47	20000.0	20994.8	495	490	490			
GR	2100.4	14863.0	2098.5	15261.5	2096.5	15507.5	2091.3	15547.2	2091.5	15605.3
GR	2097.2	15639.9	2098.3	15666.2	2095.3	15700.2	2088.4	15732.5	2088.4	15750.6
GR	2100.9	15810.7	2101.2	15825.9	2093.3	15863.1	2093.5	15909.0	2094.2	15909.1
GR	2094.2	16015.0	2096.6	16029.8	2093.7	16050.7	2088.1	17326.8	2089.5	17350.0
GR	2087.9	17374.8	2088.1	17536.4	2091.1	17650.1	2085.1	17797.5	2083.6	18179.6
GR	2082.2	18977.7	2080.6	20000.0	2080.2	20000.1	2080.8	20617.1	2080.6	20994.7
GR	2081.2	20994.8	2081.3	21660.7	2083.1	22297.3	2085.5	22307.6	2083.1	22315.8
GR	2083.2	22345.9	2080.9	22348.5	2082.7	22357.4	2086.9	23341.2	2088.3	23601.9

GR	2090.8	23616.8	2088.4	23621.7	2088.1	23651.7	2093.1	23676.0	2088.5	23710.7
GR	2091.8	24206.9	2092.6	24287.0						
ET			9.1						19940	21440
X1	3.406	54	20000.0	21395.3	490	495	495			
GR	2100.6	14909.4	2097.8	15272.6	2096.1	15286.3	2096.1	15315.2	2098.0	15327.8
GR	2095.4	15360.4	2092.9	15377.3	2092.1	15440.0	2102.8	15481.5	2102.7	15499.7
GR	2091.8	15531.3	2091.5	15561.0	2102.7	15628.7	2095.1	15681.6	2095.6	15681.7
GR	2096.3	15719.2	2096.3	15784.8	2098.7	15808.3	2095.6	15826.1	2090.5	16831.3
GR	2088.8	17586.1	2091.6	17692.2	2086.1	17835.9	2084.9	18513.7	2084.4	18875.8
GR	2087.7	18968.5	2084.6	19059.7	2082.7	19283.9	2082.0	19490.4	2082.0	19552.1
GR	2083.3	19564.4	2081.7	19581.2	2081.9	20000.0	2081.4	20000.1	2081.1	20571.1
GR	2081.4	21395.3	2083.3	22076.5	2083.3	22078.2	2084.0	22078.3	2084.7	22377.8
GR	2083.4	22379.9	2083.4	22411.1	2080.3	22415.3	2083.5	22426.7	2086.6	22895.4
GR	2088.3	23357.5	2089.8	23666.5	2091.1	23679.6	2089.5	23705.8	2095.4	23732.1
GR	2090.3	23760.8	2090.9	23874.7	2091.6	24156.5	2093.3	24362.7		
ET			9.1						19955	21455
X1	3.500	50	20000.1	21208.0	500	495	495			
GR	2100.4	14976.8	2098.8	15157.9	2094.0	15178.0	2093.4	15239.2	2097.1	15246.6
GR	2104.4	15268.6	2104.4	15287.1	2092.4	15330.6	2092.3	15369.5	2103.5	15425.9
GR	2096.1	15457.2	2096.9	15466.1	2097.3	15466.2	2099.4	15542.3	2097.4	15565.4
GR	2096.7	15742.5	2098.3	15781.0	2096.5	15790.3	2091.2	16720.3	2091.1	17178.6
GR	2088.7	17548.2	2086.8	17568.3	2089.4	17578.6	2087.9	17589.6	2087.1	17934.7
GR	2086.2	18463.0	2086.8	18685.4	2090.5	18854.6	2085.0	19082.0	2086.6	19351.5
GR	2083.2	19475.3	2082.6	19560.3	2083.1	19582.6	2082.8	20000.0	2082.9	20000.1
GR	2082.0	20636.6	2083.0	21208.0	2084.3	21968.7	2085.9	22535.7	2088.7	23203.5
GR	2088.6	23203.6	2090.9	23723.3	2098.8	23749.5	2088.9	23793.5	2091.1	23858.0
GR	2092.6	24104.9	2094.2	24490.0	2091.0	24510.5	2093.9	24543.8	2093.9	24586.2
ET			9.1						19985	21485
X1	3.595	49	20000.0	21018.5	500	500	500			
GR	2100.6	14827.2	2100.8	14920.8	2094.7	14938.9	2095.8	14997.2	2106.1	15027.7
GR	2106.1	15054.7	2094.7	15103.6	2094.7	15146.5	2105.1	15206.0	2097.2	15230.4
GR	2099.1	15244.5	2099.2	15249.0	2098.8	15249.1	2100.1	15316.8	2097.9	15337.8
GR	2096.0	15909.5	2098.1	15934.2	2095.1	15945.4	2093.3	16646.9	2089.9	17395.8
GR	2088.6	17863.3	2087.6	18495.4	2090.2	18696.0	2089.4	18804.6	2090.6	18965.8
GR	2090.7	19079.1	2085.3	19443.2	2083.4	19707.4	2084.4	19719.0	2083.8	20000.0
GR	2083.1	20000.1	2083.1	21018.5	2085.0	21701.8	2085.9	22319.1	2090.1	23381.1
GR	2091.3	23381.2	2091.5	23665.8	2100.7	23693.1	2089.4	23749.4	2089.9	23781.9
GR	2093.0	23794.4	2093.0	23815.9	2089.6	23826.6	2092.0	23840.4	2094.7	24282.6
GR	2094.7	24318.8	2094.1	24318.9	2096.5	24684.9	2096.5	24772.4		
ET			9.1						19995	21495
X1	3.688	52	20000.0	21230.0	495	500	495			
GR	2103.4	14468.4	2101.6	14741.5	2098.7	14831.4	2096.2	14843.0	2096.0	14917.9
GR	2107.5	14971.7	2099.0	14996.0	2100.7	15008.7	2101.1	15027.2	2100.5	15027.3
GR	2101.0	15088.0	2099.5	15098.0	2095.1	16056.5	2097.2	16083.6	2095.1	16100.0
GR	2094.4	16535.8	2092.4	16967.6	2091.4	17183.2	2094.4	17463.3	2094.1	17584.6
GR	2091.0	17676.8	2090.5	17959.9	2093.3	18062.5	2089.8	18235.3	2090.1	18341.5
GR	2091.5	18422.7	2087.7	18631.1	2085.0	19732.3	2083.4	19754.2	2083.4	19771.8
GR	2085.2	19789.1	2085.1	20000.0	2084.7	20000.1	2084.2	20766.6	2084.5	21230.0
GR	2085.0	21930.0	2084.4	21986.3	2087.4	22044.9	2085.6	22060.3	2086.3	22236.1
GR	2090.0	23162.0	2091.1	23162.1	2091.7	23504.5	2100.2	23539.5	2090.8	23620.7

GR	2090.6	23649.6	2093.7	23662.6	2093.7	23696.5	2091.7	23704.4	2093.5	23713.0
GR	2095.4	24263.5	2098.4	24654.3						
ET			9.1						19885	21685
X1	3.794	55	20000.0	21498.4	460	630	560			
GR	2104.0	14425.2	2102.4	14659.9	2098.9	14761.3	2096.3	14788.0	2096.0	14867.2
GR	2106.9	14903.3	2099.4	14931.8	2101.0	14960.4	2100.1	14960.5	2101.7	15015.2
GR	2100.1	15030.9	2095.7	16115.7	2097.7	16144.6	2094.9	16163.2	2093.5	16678.6
GR	2092.6	16953.6	2090.6	16966.9	2093.3	16981.1	2092.9	17044.4	2095.5	17171.6
GR	2095.1	17324.1	2092.5	17470.5	2092.1	17593.6	2094.1	17841.1	2091.0	18073.8
GR	2090.6	18263.7	2086.9	18506.8	2086.7	18820.7	2087.6	18863.2	2086.2	18902.9
GR	2086.0	19500.7	2085.8	19999.2	2085.9	20000.0	2086.3	20000.1	2086.3	20110.5
GR	2085.2	20136.9	2085.5	20835.4	2086.7	21498.4	2087.6	22099.3	2086.3	22109.3
GR	2086.3	22134.5	2087.3	22149.3	2090.4	22845.7	2090.8	22845.8	2092.9	23397.5
GR	2100.9	23427.7	2091.7	23486.7	2089.6	23509.9	2089.5	23533.8	2094.4	23544.9
GR	2094.4	23570.3	2091.4	23578.7	2094.5	23590.0	2095.7	23971.4	2098.6	24369.3
ET			9.1						19710	21810
X1	3.898	49	20000.1	21467.8	440	620	545			
GR	2104.0	14341.8	2102.1	14604.3	2099.4	14664.9	2095.3	14684.2	2094.9	14719.3
GR	2098.9	14759.3	2107.4	14804.4	2100.7	14827.5	2100.9	14864.2	2101.6	14864.3
GR	2100.9	14902.7	2102.1	14915.3	2100.4	14928.5	2097.1	15616.1	2095.4	16139.2
GR	2096.8	16153.3	2096.9	16194.9	2095.2	16206.9	2094.9	16578.6	2096.5	16864.6
GR	2092.4	17026.2	2089.1	18052.5	2087.3	18747.7	2086.2	19461.6	2086.3	19787.3
GR	2087.4	19860.4	2086.6	19941.1	2086.6	20000.0	2086.9	20000.1	2087.0	21355.2
GR	2088.9	21414.2	2087.2	21467.8	2088.5	22016.8	2089.2	22027.0	2087.6	22035.4
GR	2087.6	22059.6	2088.1	22070.4	2090.3	22567.4	2090.6	22567.5	2093.4	23339.5
GR	2102.3	23384.4	2090.5	23454.4	2090.5	23487.4	2095.3	23510.8	2095.3	23540.3
GR	2091.7	23547.2	2095.3	23558.7	2097.9	24005.4	2097.9	24012.6		
ET			9.1						19710	21910
X1	4.006	63	20000.0	21204.6	440	650	570			
GR	2104.0	14310.0	2102.7	14547.4	2099.1	14608.5	2095.1	14642.3	2094.8	14666.0
GR	2100.1	14711.9	2107.7	14756.9	2101.8	14771.9	2101.6	14809.2	2100.9	14809.3
GR	2102.2	14857.9	2099.6	14903.6	2097.8	15449.9	2095.5	16180.8	2095.5	16222.8
GR	2096.4	16237.8	2096.3	16274.8	2094.4	16284.1	2095.4	16395.1	2097.7	16476.7
GR	2096.8	16503.9	2094.8	16533.7	2093.7	16607.4	2092.2	17076.0	2091.7	17505.7
GR	2089.6	17995.3	2087.8	18602.3	2087.7	18882.7	2089.6	18949.6	2087.8	18996.2
GR	2087.8	19079.0	2088.9	19127.2	2087.4	19204.3	2087.5	19584.6	2089.9	19656.3
GR	2089.7	19722.4	2090.5	19792.3	2088.1	19930.5	2088.1	20000.0	2087.7	20000.1
GR	2087.6	20523.1	2087.6	21204.6	2089.1	22047.1	2090.5	22069.1	2088.8	22081.1
GR	2088.1	22102.9	2088.9	22107.1	2090.2	22360.6	2090.8	22360.7	2092.3	22954.5
GR	2094.1	23317.7	2097.2	23325.0	2093.7	23333.7	2094.6	23353.3	2101.5	23367.6
GR	2101.6	23389.0	2090.3	23445.5	2090.3	23470.0	2096.2	23488.4	2098.1	23524.5
GR	2092.5	23531.2	2096.4	23538.1	2099.1	23778.6				
ET			9.1						25085	27085
X1	4.104	55	25222.9	26840.1	410	590	520			
GR	2104.0	19531.0	2103.2	19728.6	2096.3	19798.1	2095.3	19853.3	2106.3	19946.7
GR	2102.3	19955.5	2102.5	19988.3	2106.0	20000.0	2101.1	20036.3	2101.2	20055.4
GR	2102.7	20066.6	2102.7	20092.2	2100.5	20099.9	2097.3	21081.6	2095.5	21559.1
GR	2096.3	21565.6	2096.2	21617.7	2095.3	21632.3	2097.2	21725.8	2094.5	21787.4
GR	2093.9	22062.9	2093.1	22318.5	2091.7	22781.5	2094.6	22862.4	2090.2	22980.4
GR	2089.9	23386.1	2089.4	23850.7	2092.9	23958.8	2090.1	24047.3	2090.3	24557.8

GR	2092.1	24684.7	2089.6	24897.8	2089.3	25221.9	2089.2	25222.0	2089.2	25222.5
GR	2089.2	25222.9	2089.3	25991.6	2089.4	26840.1	2090.6	27353.9	2089.3	27393.1
GR	2090.6	27464.4	2090.1	27464.5	2092.3	28017.1	2095.0	28497.2	2104.6	28539.3
GR	2099.2	28572.6	2099.2	28590.2	2093.1	28613.6	2092.4	28646.1	2092.4	28671.2
GR	2095.8	28689.9	2097.5	28739.8	2092.7	28751.2	2097.4	28760.0	2097.9	28912.8
ET			9.1						19965	21965
X1	4.205	69	20110.5	21717.8	420	600	535			
GR	2104.0	14316.0	2103.5	14452.5	2102.0	14482.2	2096.9	14544.8	2096.9	14566.5
GR	2103.6	14603.7	2097.5	14624.9	2096.2	14705.3	2099.0	14722.9	2099.0	14748.8
GR	2100.3	14752.1	2099.0	14752.2	2105.5	14772.9	2100.9	14787.7	2105.5	14806.3
GR	2101.4	14822.1	2101.2	14897.0	2102.4	14919.0	2100.5	14931.1	2097.6	15755.6
GR	2096.5	16252.6	2095.7	16492.8	2096.7	16501.8	2096.7	16526.9	2094.9	16541.8
GR	2094.4	16994.5	2096.9	17089.3	2092.8	17261.4	2092.3	17394.2	2093.0	17483.4
GR	2095.6	17541.1	2091.6	17643.3	2091.4	18038.2	2094.4	18105.8	2091.7	18157.6
GR	2091.2	18277.6	2093.7	18435.9	2091.8	18528.4	2091.9	18726.2	2093.9	18800.1
GR	2092.9	19076.4	2092.0	19275.1	2091.5	19457.2	2090.1	19529.4	2089.8	20000.0
GR	2089.7	20000.1	2089.4	20100.5	2090.3	20110.5	2089.7	20928.3	2090.5	21717.8
GR	2091.3	22169.7	2091.1	22169.8	2090.8	22242.3	2092.5	22249.2	2091.9	22285.2
GR	2090.4	22289.7	2092.2	22704.8	2096.1	23469.5	2103.3	23500.6	2100.4	23538.9
GR	2101.2	23554.3	2093.6	23581.2	2093.6	23609.0	2093.6	23634.0	2096.9	23706.0
GR	2094.9	23717.2	2097.5	23729.4	2099.3	24226.9	2101.9	24679.2		
ET			9.1						20090	22090
X1	4.303	49	20224.1	21394.8	400	590	515			
GR	2103.9	14387.8	2102.1	14482.7	2096.6	14540.2	2096.7	14554.9	2106.1	14595.3
GR	2100.5	14618.0	2104.7	14645.4	2097.3	14664.6	2096.9	14713.7	2099.8	14725.8
GR	2099.8	14744.2	2098.7	14752.2	2097.7	14752.3	2097.7	14799.4	2107.9	14872.2
GR	2101.8	14898.3	2101.6	14953.8	2101.9	14974.9	2100.7	14991.9	2097.2	15787.2
GR	2095.8	16429.2	2095.3	16864.2	2096.1	17138.9	2094.8	17457.8	2094.0	17967.2
GR	2095.1	18013.8	2093.8	18096.2	2095.1	18547.3	2092.2	19033.1	2091.2	19305.9
GR	2089.8	19700.9	2089.8	19806.3	2092.0	19825.2	2089.6	19856.8	2088.9	19977.7
GR	2092.7	19988.0	2092.8	19999.9	2092.5	20000.0	2092.6	20072.5	2091.5	20146.4
GR	2090.9	20224.1	2090.6	20846.5	2091.0	21394.8	2091.1	22138.9	2092.0	22668.0
GR	2096.0	23764.0	2100.0	23808.0	2100.0	24028.0	2104.0	25048.0		
ET			9.1						20295	22495
X1	4.401	51	20523.1	21429.1	500	520	520			
GR	2104.0	14762.7	2102.3	15058.4	2107.6	15077.7	2096.2	15115.9	2095.1	15129.3
GR	2106.6	15187.7	2101.2	15207.3	2101.1	15256.2	2102.7	15278.1	2100.6	15291.3
GR	2098.7	16056.4	2096.9	16854.7	2098.8	17010.1	2096.6	17080.9	2096.0	17221.9
GR	2098.3	17351.9	2093.4	17475.5	2092.2	17703.3	2093.9	17865.8	2096.4	17947.6
GR	2094.6	18011.0	2094.4	18232.9	2092.2	18250.8	2094.6	18262.3	2093.0	18909.4
GR	2091.0	19526.2	2091.1	19956.7	2091.4	19999.9	2091.8	20000.0	2092.8	20066.9
GR	2092.9	20167.5	2092.1	20523.1	2091.3	21061.8	2090.8	21366.9	2092.0	21371.7
GR	2092.1	21429.1	2091.9	22150.4	2091.5	22150.5	2091.7	22675.2	2093.3	22679.5
GR	2093.9	23326.3	2096.8	23985.1	2099.0	23996.1	2100.2	24015.6	2108.0	24025.6
GR	2100.5	24070.1	2100.5	24115.5	2097.0	24131.0	2099.6	24629.9	2103.5	25188.9
GR	2104.8	25444.1								

ET			9.1						20115	22415
X1	4.496	60	20621.6	22152.6	500	495	500			
GR	2105.5	14826.8	2103.0	15379.8	2110.2	15399.9	2107.4	15458.1	2107.4	15516.7
GR	2101.4	15527.1	2101.4	15542.9	2102.8	15560.5	2101.2	15573.7	2100.5	16012.5
GR	2099.1	16538.3	2098.1	16829.1	2099.1	16969.2	2100.0	17024.9	2097.5	17116.7
GR	2096.8	17227.2	2097.5	17324.3	2096.1	17385.3	2096.1	17484.9	2099.3	17568.6
GR	2096.9	17764.7	2095.5	17803.9	2097.1	17880.6	2096.4	17936.3	2096.3	18078.4
GR	2094.7	18130.1	2099.1	18253.3	2100.5	18348.8	2089.6	18429.3	2087.4	18547.2
GR	2090.9	18587.1	2101.4	18636.6	2093.8	18678.6	2093.6	18786.2	2093.7	19224.3
GR	2092.1	19583.3	2092.1	19744.4	2093.0	19845.5	2096.2	19976.4	2096.0	20000.0
GR	2096.1	20000.1	2095.9	20091.8	2093.4	20109.0	2092.6	20621.6	2091.8	21169.7
GR	2092.4	22152.6	2092.8	22152.7	2092.4	22667.6	2093.9	22672.3	2094.4	23067.3
GR	2096.5	23994.7	2100.0	24004.0	2101.2	24018.5	2110.5	24030.7	2100.6	24071.7
GR	2100.6	24111.9	2097.5	24152.3	2100.1	24791.5	2103.2	25325.9	2105.0	25635.9

ET			9.1						20230	22430
X1	4.592	50	20873.0	21373.9	500	500	505			
GR	2105.6	14990.7	2102.4	15596.4	2108.1	15616.0	2108.1	15683.9	2108.8	15743.4
GR	2101.8	15763.8	2101.5	15790.8	2103.1	15812.7	2101.7	15828.3	2100.1	16625.5
GR	2098.2	17170.8	2096.5	17684.2	2095.9	18086.9	2095.9	18427.0	2093.5	18462.0
GR	2099.0	18502.5	2095.2	18521.2	2095.6	18705.2	2094.0	18748.0	2096.2	18759.0
GR	2094.5	19251.5	2094.2	19907.3	2096.5	19975.3	2095.3	20000.0	2095.4	20000.1
GR	2094.1	20051.7	2093.9	20113.2	2094.9	20117.8	2094.9	20149.4	2093.9	20161.1
GR	2092.9	20873.0	2092.7	21363.2	2093.4	21373.9	2093.0	22160.5	2093.3	22160.6
GR	2093.2	22672.9	2094.3	22677.5	2094.8	23490.0	2096.3	24008.3	2099.8	24016.5
GR	2100.4	24033.3	2109.2	24043.7	2099.1	24087.0	2099.1	24124.0	2098.6	24156.4
GR	2101.1	24983.1	2102.8	25293.7	2104.8	25305.6	2102.8	25342.0	2104.6	25733.7

ET			9.1						20325	22325
X1	4.686	55	20638.2	22144.8	500	495	495			
GR	2107.4	14934.7	2104.6	15394.3	2101.9	15972.1	2107.3	15991.3	2107.3	16066.1
GR	2108.0	16120.9	2101.2	16140.8	2101.1	16175.1	2102.9	16198.2	2101.4	16214.2
GR	2100.2	16905.7	2097.7	17466.7	2097.0	18022.1	2096.6	18489.8	2096.4	18533.9
GR	2093.6	18538.3	2096.5	18551.7	2096.8	18724.3	2096.7	19111.6	2097.2	19168.9
GR	2095.4	19211.4	2097.2	19251.9	2096.8	19410.6	2095.5	19536.2	2093.1	19547.9
GR	2093.5	19622.1	2095.2	19627.6	2094.6	20000.0	2093.8	20000.1	2094.1	20103.4
GR	2095.1	20108.9	2095.1	20147.3	2094.0	20153.5	2093.8	20638.2	2093.5	21090.7
GR	2093.1	21348.8	2094.1	21356.1	2094.5	22144.8	2094.4	22144.9	2093.5	22663.4
GR	2094.5	22668.4	2095.4	22735.6	2095.9	23531.2	2097.1	24012.8	2101.1	24020.2
GR	2101.3	24035.4	2109.6	24045.7	2098.5	24083.7	2098.5	24124.7	2099.5	24483.2
GR	2100.9	24932.8	2103.1	25282.3	2104.5	25297.9	2103.0	25312.6	2103.8	25591.8

ET			9.1						20320	22320
X1	4.781	48	20692.1	22135.3	505	510	505			
GR	2106.2	15407.7	2104.6	15809.6	2102.6	16411.6	2109.3	16439.2	2108.3	16510.4
GR	2108.3	16560.8	2101.7	16578.3	2101.3	16600.6	2103.0	16617.8	2101.7	16629.9
GR	2100.4	17222.7	2098.7	17912.9	2097.9	18384.2	2099.3	18418.2	2098.0	18461.7
GR	2099.4	18541.3	2099.2	18602.6	2097.7	18654.3	2098.6	18675.1	2097.4	18911.3
GR	2096.9	19226.4	2096.7	19319.5	2095.3	19361.1	2096.0	19448.1	2095.1	20000.0
GR	2094.7	20000.1	2094.7	20096.1	2095.6	20104.1	2096.0	20135.6	2095.1	20148.3
GR	2094.3	20692.1	2093.4	21343.6	2094.8	21348.1	2094.8	22135.3	2095.2	22135.4
GR	2094.5	22655.1	2095.8	22658.5	2095.6	22943.5	2096.5	23703.8	2097.2	24008.3
GR	2100.1	24018.8	2100.6	24033.2	2109.3	24048.7	2099.5	24086.4	2099.5	24142.5

GR	2100.6	24766.8	2103.5	25282.4	2105.1	25679.2				
ET			9.1						20320	22320
X1	4.877	41	20800.9	22126.0	510	500	505			
GR	2108.2	15300.7	2106.3	15942.1	2103.3	16691.4	2110.0	16713.0	2109.2	16764.8
GR	2109.2	16819.6	2102.0	16835.2	2101.7	16859.1	2103.6	16875.7	2100.9	17516.4
GR	2099.3	18188.1	2098.2	18730.5	2099.5	18760.1	2098.1	18766.2	2096.8	19471.8
GR	2096.8	20000.0	2096.3	20000.1	2095.6	20101.6	2096.7	20108.5	2096.7	20139.4
GR	2095.6	20147.7	2094.5	20800.9	2094.4	21343.0	2095.9	21356.9	2096.1	22126.0
GR	2095.7	22126.1	2095.4	22656.9	2095.9	22660.3	2096.9	23326.5	2097.8	24017.1
GR	2099.9	24024.1	2100.0	24041.3	2109.4	24052.9	2099.3	24078.4	2099.3	24112.5
GR	2099.3	24142.0	2100.4	24633.1	2102.8	25284.9	2104.3	25296.8	2103.5	25313.9
GR	2105.9	25774.5								
ET			9.1						20315	22315
X1	4.972	40	21123.3	22119.4	500	495	500			
GR	2109.1	15371.8	2108.9	15533.1	2109.6	15539.3	2109.6	15579.7	2108.2	15583.0
GR	2105.5	16129.0	2103.5	16960.8	2108.9	16985.7	2108.9	17047.1	2109.4	17144.3
GR	2102.5	17186.2	2102.5	17219.4	2104.1	17233.9	2101.8	17243.6	2099.0	18723.2
GR	2097.8	18732.3	2099.6	18758.3	2098.3	20000.0	2097.0	20000.1	2097.8	20091.0
GR	2097.9	20126.3	2096.2	20143.7	2096.0	21123.3	2095.5	21336.1	2096.6	21341.6
GR	2096.6	21378.9	2097.4	22119.4	2097.7	22119.5	2097.0	22709.7	2097.0	23476.4
GR	2098.6	24006.1	2100.8	24017.4	2101.0	24032.3	2109.4	24044.3	2099.1	24075.7
GR	2099.1	24099.5	2101.0	24803.4	2103.9	25276.1	2104.4	25377.1	2105.2	25718.3
ET			9.1						20310	22310
X1	5.065	36	20970.0	22120.6	490	500	495			
GR	2111.4	15317.5	2108.6	15992.9	2109.8	16004.0	2110.3	16042.0	2107.8	16055.9
GR	2105.3	17282.1	2108.3	17300.2	2108.3	17339.7	2109.2	17402.5	2102.9	17416.9
GR	2104.0	17471.2	2100.5	18718.5	2099.5	18742.7	2100.9	18768.4	2099.0	20000.0
GR	2098.1	20000.1	2098.6	20139.3	2096.9	20151.3	2096.6	20970.0	2096.5	21336.2
GR	2097.6	21342.4	2097.9	21383.6	2096.6	21391.5	2097.1	22120.6	2097.2	22120.7
GR	2097.3	22718.8	2097.5	23543.6	2099.0	24000.8	2101.2	24013.5	2101.5	24028.8
GR	2107.8	24036.6	2100.4	24063.2	2100.4	24144.6	2101.4	24682.5	2104.6	25290.9
GR	2104.9	25456.5								
ET			9.1						20320	22320
X1	5.159	55	20815.9	22121.9	500	495	495			
GR	2110.3	15674.5	2109.4	16048.8	2110.5	16058.5	2110.5	16089.7	2108.2	16091.9
GR	2106.9	16441.3	2108.3	16447.0	2108.3	16476.3	2105.6	16480.4	2108.2	16496.4
GR	2108.5	16526.5	2107.1	16537.5	2105.6	17126.3	2106.9	17230.6	2106.9	17349.3
GR	2106.6	17401.3	2105.3	17488.1	2107.0	17529.1	2103.5	17542.5	2110.9	17579.1
GR	2110.1	17645.6	2110.1	17721.9	2103.3	17741.1	2102.9	17885.4	2105.6	17916.1
GR	2103.3	17927.0	2101.4	18850.4	2100.6	19775.1	2100.4	20000.0	2099.9	20000.1
GR	2100.4	20134.3	2098.5	20144.7	2097.6	20815.9	2097.6	21334.6	2098.9	21346.7
GR	2098.9	21384.1	2097.9	21390.7	2098.6	22121.9	2098.6	22122.0	2098.5	22730.1
GR	2098.8	23554.3	2099.9	23996.2	2097.5	24004.5	2100.5	24014.4	2100.5	24053.9
GR	2097.4	24065.5	2100.8	24101.7	2108.2	24140.2	2100.0	24188.5	2099.9	24274.6
GR	2102.4	24325.7	2101.2	24353.3	2101.2	24661.0	2103.1	25155.7	2107.9	26165.0

ET			9.1						20205	22405
X1	5.255	45	20870.4	22109.2	505	505	505			
GR	2113.0	15501.7	2110.2	16052.4	2108.4	16560.1	2106.5	17360.5	2107.4	17374.5
GR	2107.5	17395.9	2106.6	17400.5	2104.8	17879.9	2112.9	17901.4	2110.8	17954.0
GR	2110.8	18012.8	2104.3	18032.4	2102.3	19155.4	2103.6	19209.6	2100.5	19243.6
GR	2103.5	19290.3	2101.8	19522.5	2102.8	19639.6	2101.2	19670.3	2101.7	20000.0
GR	2101.3	20000.1	2101.6	20125.8	2099.3	20134.4	2098.8	20870.4	2098.8	21335.3
GR	2101.2	21369.9	2098.6	21380.4	2099.7	22109.2	2099.7	22109.3	2099.6	22727.3
GR	2099.8	23678.5	2100.7	24023.7	2102.5	24034.7	2099.5	24055.8	2100.4	24170.0
GR	2103.4	24902.5	2110.1	24980.1	2108.2	25075.3	2108.2	25187.0	2103.6	25201.8
GR	2104.3	25287.8	2106.3	25305.8	2104.2	25323.8	2107.5	26008.5	2107.6	26139.3

ET			9.1						20185	22685
X1	5.351	44	20800.0	22111.5	510	505	510			
GR	2116.0	15518.1	2112.3	16104.8	2109.0	16816.1	2107.7	17357.8	2108.6	17361.4
GR	2108.6	17379.9	2109.9	17390.4	2108.9	17401.9	2106.4	17930.9	2112.3	17948.8
GR	2110.5	17994.3	2110.5	18041.2	2105.7	18068.6	2102.6	20000.0	2102.6	20000.1
GR	2102.3	20141.0	2101.5	20800.0	2100.9	21323.5	2102.2	21330.0	2102.1	21369.3
GR	2100.9	21383.2	2100.9	22111.5	2100.8	22111.6	2100.9	22666.7	2103.0	22677.6
GR	2101.9	22683.9	2101.1	23963.2	2102.2	23967.3	2102.2	23988.3	2100.1	23996.2
GR	2101.3	24009.6	2104.2	25195.9	2106.1	25206.1	2106.1	25238.9	2109.8	25250.3
GR	2103.2	25271.7	2103.1	25337.3	2105.0	25357.8	2111.1	25371.5	2105.9	25394.0
GR	2106.1	25407.1	2103.7	25417.6	2107.2	25425.3	2110.0	26630.4		

ET			9.1						20155	22955
X1	5.443	60	20710.0	22105.3	475	485	485			
GR	2113.8	15921.1	2114.2	16039.1	2113.2	16044.7	2114.6	16052.4	2114.8	16085.7
GR	2113.9	16091.1	2111.5	16912.7	2109.8	17345.7	2111.6	17357.1	2111.4	17378.2
GR	2110.9	17383.7	2109.2	18037.2	2107.1	18048.1	2113.5	18069.8	2103.9	18125.1
GR	2104.1	18148.7	2113.6	18225.4	2108.0	18259.3	2108.9	18295.1	2107.7	18307.3
GR	2108.4	18317.1	2106.2	19271.9	2104.7	20000.0	2104.2	20000.1	2104.0	20096.5
GR	2104.6	20101.9	2104.5	20121.5	2103.7	20130.1	2101.7	20710.0	2100.5	21049.6
GR	2102.3	21316.6	2103.2	21322.4	2103.5	21355.0	2102.1	21385.6	2102.1	22105.3
GR	2100.7	22105.4	2099.9	22627.3	2101.5	22638.7	2101.5	22665.2	2100.0	22669.3
GR	2099.4	23930.4	2100.8	23936.0	2100.8	23976.8	2095.8	23984.5	2100.7	23994.6
GR	2102.0	24410.3	2104.4	25203.9	2106.5	25213.9	2105.2	25225.5	2105.2	25233.3
GR	2110.6	25256.7	2103.7	25278.4	2103.7	25302.6	2103.7	25336.8	2105.3	25356.2
GR	2111.4	25372.3	2105.9	25387.5	2106.7	25849.6	2111.6	26768.6	2112.6	26943.8

ET			9.1						20145	23145
X1	5.537	49	20630.0	21653.7	495	495	495			
GR	2114.8	16302.5	2111.5	17368.3	2112.7	17373.0	2112.6	17397.3	2111.8	17405.9
GR	2110.2	18630.2	2107.3	18637.8	2110.9	18646.1	2110.9	18666.7	2108.2	18672.2
GR	2111.1	18681.4	2110.4	18699.4	2115.1	18712.5	2115.1	18748.7	2115.1	18776.0
GR	2115.6	18817.1	2109.2	18852.7	2107.8	19353.5	2106.6	20000.0	2106.5	20000.1
GR	2106.4	20106.7	2105.7	20116.1	2105.7	20148.3	2103.0	20630.0	2102.1	20786.8
GR	2103.8	21330.0	2104.1	21371.7	2103.3	21395.0	2103.7	21653.7	2103.4	22109.0
GR	2102.1	22109.1	2101.9	22706.2	2101.6	23704.1	2101.4	23949.1	2102.2	24078.8
GR	2104.6	25219.1	2107.5	25228.8	2104.8	25239.2	2106.6	25262.2	2110.4	25277.8
GR	2106.7	25297.8	2106.7	25328.2	2106.7	25349.2	2106.7	25376.9	2111.5	25388.8
GR	2106.7	25403.6	2107.8	25975.2	2111.1	26315.2	2113.2	26959.9		

ET			9.1						20105	23305
X1	5.630	60	20142.9	21793.3	490	490	490			
GR	2115.2	16570.0	2112.9	17321.3	2111.6	17330.4	2113.7	17342.4	2113.7	17380.2
GR	2113.4	17390.2	2110.9	18612.5	2107.8	18619.8	2111.1	18630.5	2111.2	18647.0
GR	2113.5	18657.1	2110.9	18663.2	2110.6	19215.3	2108.4	19231.9	2115.6	19289.2
GR	2114.7	19356.8	2114.7	19388.0	2114.7	19468.1	2109.6	19500.4	2109.6	19532.2
GR	2108.1	19557.3	2107.8	20000.0	2107.8	20000.1	2108.0	20083.5	2106.9	20093.1
GR	2108.9	20104.7	2108.5	20131.8	2106.8	20142.9	2105.7	20557.2	2104.4	21243.2
GR	2105.3	21298.8	2103.2	21309.3	2105.8	21320.0	2105.9	21358.1	2104.3	21384.6
GR	2104.6	21793.3	2104.5	22100.3	2103.3	22100.4	2102.8	22659.8	2103.1	23536.7
GR	2103.1	23936.4	2099.9	23948.0	2103.2	23954.9	2103.3	23974.8	2104.6	23982.2
GR	2102.5	23991.2	2104.3	24641.9	2105.7	25199.4	2106.7	25210.4	2106.6	25240.4
GR	2111.4	25261.9	2111.4	25282.7	2111.4	25305.5	2111.4	25348.8	2111.8	25364.2
GR	2106.9	25393.2	2108.6	25860.6	2111.4	26627.8	2115.0	27276.3	2115.0	27315.2

ET			9.1						20120	23320
X1	5.724	56	20620.0	21853.7	500	500	500			
GR	2114.7	16846.0	2113.7	17345.6	2115.0	17361.4	2115.1	17393.7	2114.5	17403.5
GR	2113.0	18038.2	2111.4	18625.8	2108.5	18635.5	2112.3	18643.9	2112.6	18673.3
GR	2111.7	18684.8	2110.9	19709.6	2109.3	19722.2	2115.7	19757.9	2115.7	19795.2
GR	2115.7	19812.3	2116.4	19859.9	2109.8	19884.1	2108.9	19938.9	2108.7	20000.0
GR	2108.9	20000.1	2108.2	20113.1	2109.1	20117.7	2109.1	20154.2	2106.6	20160.3
GR	2105.8	20620.0	2104.5	21325.3	2105.7	21333.9	2106.4	21373.7	2105.5	21384.8
GR	2105.3	21853.7	2105.5	22099.7	2104.0	22099.8	2103.8	22672.3	2104.4	23487.5
GR	2104.4	23949.6	2101.5	23960.6	2103.7	23967.3	2103.8	23982.4	2105.6	23991.8
GR	2103.4	24000.0	2105.1	24472.3	2106.7	25218.1	2108.6	25226.0	2106.1	25231.2
GR	2106.9	25255.9	2110.8	25270.8	2104.4	25290.2	2103.2	25308.3	2103.7	25351.1
GR	2112.1	25393.4	2107.6	25407.3	2108.4	25679.8	2109.6	26259.4	2112.5	26673.3
GR	2116.1	27412.2								

ET			9.1						20110	23310
X1	5.819	51	20690.0	21892.3	500	505	500			
GR	2116.0	16790.7	2115.3	17347.1	2116.3	17382.4	2115.0	17386.5	2113.8	17979.8
GR	2112.4	18612.4	2110.2	18620.7	2113.7	18630.2	2113.1	18656.4	2110.9	18662.8
GR	2113.8	18671.4	2112.3	18679.2	2111.8	19924.1	2118.0	19942.3	2116.6	19986.8
GR	2116.6	20000.0	2116.6	20000.1	2116.6	20059.8	2109.4	20088.1	2109.4	20109.5
GR	2110.2	20113.7	2110.2	20142.2	2107.7	20151.0	2106.8	20690.0	2105.8	21322.0
GR	2107.1	21328.2	2107.8	21365.0	2106.4	21373.3	2106.3	21892.3	2106.1	22095.0
GR	2105.7	22095.1	2104.8	22658.9	2106.1	22666.9	2105.4	23591.5	2105.9	23990.0
GR	2104.2	24008.8	2106.2	24656.1	2107.5	25212.8	2111.0	25218.8	2108.4	25225.4
GR	2108.8	25247.2	2112.6	25258.8	2106.4	25278.3	2104.5	25313.3	2104.1	25349.0
GR	2113.0	25385.9	2108.9	25403.5	2109.4	25830.9	2112.4	26587.0	2114.9	27131.7
GR	2117.2	27605.6								

ET			9.1						20110	23310
X1	5.911	49	20760.0	21950.1	495	490	490			
GR	2117.6	16908.8	2116.1	17335.4	2117.5	17344.7	2118.1	17376.1	2115.8	17382.4
GR	2114.4	18181.6	2113.8	18652.1	2111.8	18657.9	2115.7	18670.6	2113.7	18683.6
GR	2111.7	19899.9	2113.0	19904.5	2113.0	19921.4	2118.1	19935.7	2106.0	20000.0
GR	2105.4	20000.1	2105.4	20008.9	2116.6	20071.8	2111.1	20092.2	2111.1	20139.7
GR	2109.2	20147.8	2108.0	20760.0	2107.0	21313.2	2108.8	21355.4	2107.4	21371.2
GR	2107.6	21950.1	2107.4	22086.9	2106.9	22087.0	2105.9	22651.4	2107.3	22660.2
GR	2106.4	23950.0	2107.5	24718.8	2108.8	25202.2	2111.5	25213.4	2109.3	25221.1

GR	2109.4	25238.8	2113.4	25254.7	2105.7	25290.5	2104.6	25319.0	2104.6	25338.8
GR	2109.6	25357.8	2115.1	25377.0	2109.3	25401.7	2109.8	25873.4	2113.1	26650.8
GR	2114.8	26660.1	2113.8	26669.4	2116.2	27313.5	2116.5	27572.9		
ET			9.1						20105	23305
X1	6.005	61	20820.0	21926.8	490	490	490			
GR	2118.8	16824.3	2117.7	17331.1	2116.7	17337.3	2118.3	17342.7	2118.3	17375.7
GR	2117.4	17381.8	2115.9	18075.7	2114.7	18637.1	2115.4	18653.3	2114.4	18657.9
GR	2112.3	19637.8	2112.0	19891.8	2110.7	19898.1	2112.9	19905.3	2112.9	19905.5
GR	2113.6	19920.6	2119.4	19938.3	2107.3	19998.9	2107.3	20000.0	2119.8	20000.1
GR	2107.7	20005.1	2107.7	20019.4	2110.9	20031.3	2111.3	20050.2	2117.8	20073.6
GR	2111.3	20095.2	2112.2	20139.1	2110.1	20145.7	2108.7	20820.0	2107.7	21290.3
GR	2108.3	21295.5	2106.8	21314.5	2108.4	21320.6	2109.1	21353.1	2108.5	21362.2
GR	2109.0	21926.8	2109.1	22088.6	2108.3	22088.7	2107.3	22651.7	2108.9	22661.7
GR	2107.4	23479.1	2107.1	24040.1	2109.5	25201.9	2110.9	25210.3	2111.0	25243.4
GR	2115.4	25254.3	2106.7	25277.9	2105.2	25304.4	2105.4	25333.1	2110.1	25363.2
GR	2116.3	25382.9	2111.0	25403.2	2110.5	25418.3	2108.6	25421.4	2113.9	26651.2
GR	2115.9	26657.8	2114.4	26667.1	2119.1	27905.0	2120.7	27912.2	2121.3	27946.4
GR	2121.3	27946.5								

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T1      METHOD 1
T2      FLOODWAY ANALYSIS
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                           2048.23

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                 -1
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THIS RUN EXECUTED 5/16/90 15: 4: 1

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE: CENTEN .FW1 CE

SUMMARY PRINTOUT

SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
-.304	2047.23	10.13	2037.10	3.08	21700.00	5361.15	.00	19105.23	22305.11
-.304	2048.23	11.13	2037.10	3.95	21700.00	9595.62	.00	20355.00	22055.00
-.212	2048.12	10.52	2037.60	3.10	21700.00	8765.21	485.00	19109.17	22466.95
-.212	2049.10	11.50	2037.60	3.54	21700.00	13159.79	485.00	20320.00	22020.00
-.119	2048.85	10.95	2037.90	3.18	21700.00	11165.12	490.00	19299.75	22469.81
-.119	2049.79	11.89	2037.90	3.74	21700.00	16626.33	490.00	20390.00	21890.00
-.024	2049.68	11.48	2038.20	3.35	21700.00	11726.07	500.00	19356.70	22344.85
-.024	2050.63	12.43	2038.20	4.07	21700.00	17394.58	500.00	20355.00	21855.00
.070	2050.74	4.24	2046.50	3.82	21700.00	17360.99	495.00	19209.94	22154.17
.070	2051.59	5.09	2046.50	4.08	21700.00	18930.68	495.00	20345.00	21845.00
.165	2051.65	3.95	2047.70	3.12	21700.00	17173.18	500.00	19199.35	22402.15
.165	2052.46	4.76	2047.70	3.73	21700.00	16566.56	500.00	20325.00	21825.00
.257	2052.28	3.78	2048.50	3.00	21700.00	15873.68	485.00	19277.54	22731.32
.257	2053.16	4.66	2048.50	3.65	21700.00	18650.29	485.00	20355.00	21855.00
.352	2052.97	4.07	2048.90	2.68	21700.00	9284.73	505.00	19330.09	22786.36
.352	2053.89	4.99	2048.90	3.38	21700.00	13950.24	505.00	20315.00	21915.00
.445	2053.65	4.05	2049.60	2.92	21700.00	6075.78	490.00	19355.51	22475.13
.445	2054.56	4.96	2049.60	3.37	21700.00	9042.33	490.00	20260.00	21960.00
.541	2054.45	4.65	2049.80	3.46	21700.00	5735.81	505.00	19223.83	22533.16
.541	2055.27	5.47	2049.80	3.72	21700.00	7848.93	505.00	20260.00	21960.00
.633	2055.34	4.24	2051.10	3.07	21700.00	5556.10	485.00	19198.74	22503.88
.633	2056.10	5.00	2051.10	3.73	21700.00	8494.03	485.00	20280.00	21980.00

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	.728	2056.25	5.15	2051.10	3.04	21700.00	5856.64	505.00	19212.66	22395.88
	.728	2057.06	5.96	2051.10	3.76	21700.00	9595.33	505.00	20280.00	21980.00
	.820	2057.18	5.38	2051.80	3.19	21700.00	4144.15	485.00	19157.82	22296.24
	.820	2058.02	6.22	2051.80	3.73	21700.00	6238.77	485.00	20285.00	21985.00
	.914	2058.09	4.19	2053.90	3.38	21700.00	4879.29	495.00	19288.29	22429.31
	.914	2058.99	5.09	2053.90	4.48	21700.00	8410.34	495.00	20510.00	22306.34
	1.008	2059.02	5.62	2053.40	3.30	21700.00	5439.53	500.00	19282.29	22312.99
	1.008	2059.94	6.54	2053.40	3.31	21700.00	7120.90	500.00	20200.00	22100.00
*	1.097	2060.16	3.86	2056.30	4.50	21700.00	7349.42	465.00	19209.75	22234.29
*	1.097	2060.73	4.43	2056.30	4.68	21700.00	9357.80	465.00	20210.00	21810.00
*	1.184	2061.59	3.49	2058.10	3.67	21700.00	13345.08	460.00	19137.13	22038.29
	1.184	2062.21	4.11	2058.10	4.85	21700.00	18126.27	460.00	20150.00	21550.00
	1.273	2062.49	4.59	2057.90	3.50	21700.00	12529.85	470.00	18828.23	21868.07
	1.273	2063.33	5.43	2057.90	3.98	21700.00	17625.27	470.00	19975.00	21375.00
	1.358	2063.19	4.49	2058.70	2.96	21700.00	12516.62	450.00	18640.13	21708.39
	1.358	2064.04	5.34	2058.70	3.62	21700.00	18488.48	450.00	19820.00	21220.00
*	1.450	2064.05	4.35	2059.70	3.72	21700.00	8493.36	485.00	18452.36	21430.21
	1.450	2064.88	5.18	2059.70	4.29	21700.00	13088.21	485.00	19655.00	21055.00
	1.544	2065.40	6.60	2058.80	4.02	21700.00	10507.12	500.00	18275.38	21396.61
	1.544	2066.14	7.34	2058.80	4.44	21700.00	14172.94	500.00	19590.00	20990.00
	1.639	2066.53	6.83	2059.70	3.29	21700.00	9382.76	500.00	18341.04	21416.24
	1.639	2067.27	7.57	2059.70	4.17	21700.00	14655.43	500.00	19600.00	21000.00
	1.732	2067.60	6.00	2061.60	3.66	21700.00	9705.94	490.00	18414.43	21694.42
	1.732	2068.41	6.81	2061.60	4.26	21700.00	14379.56	490.00	19590.00	20990.00
	1.829	2068.72	4.52	2064.20	3.69	21700.00	9241.14	510.00	18310.67	21955.51
	1.829	2069.52	5.32	2064.20	4.34	21700.00	13583.41	510.00	19615.00	21015.00
	1.921	2069.73	5.53	2064.20	4.08	21700.00	8370.73	490.00	18146.22	21651.87
	1.921	2070.52	6.32	2064.20	4.42	21700.00	11006.93	490.00	19600.00	21000.00
	2.014	2070.72	5.02	2065.70	3.36	21700.00	10606.84	490.00	18143.71	21628.87
	2.014	2071.47	5.77	2065.70	3.95	21700.00	15384.99	490.00	19620.00	21020.00
	2.109	2071.63	5.33	2066.30	3.30	21700.00	8395.95	500.00	18171.43	21672.69
	2.109	2072.50	6.20	2066.30	4.51	21700.00	14618.15	500.00	19925.00	21525.00
	2.204	2072.46	4.36	2068.10	3.11	21700.00	7362.90	500.00	17952.76	21718.38
	2.204	2073.44	5.34	2068.10	3.34	21700.00	10453.16	500.00	19495.00	21195.00

SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
2.298	2073.26	6.86	2066.40	3.49	21700.00	4873.59	500.00	17857.74	21663.12
2.298	2074.18	7.78	2066.40	3.44	21700.00	6315.89	500.00	19480.00	21180.00
2.390	2073.97	7.97	2066.00	2.89	21700.00	11175.73	485.00	17941.83	21653.30
2.390	2074.94	8.94	2066.00	3.15	21700.00	15812.56	485.00	19485.00	21185.00
2.485	2074.64	8.44	2066.20	3.21	21700.00	12703.70	500.00	17990.33	21543.91
2.485	2075.54	9.34	2066.20	3.90	21700.00	19743.89	500.00	19645.00	21045.00
2.580	2075.47	9.67	2065.80	3.64	21700.00	14866.74	505.00	18072.22	21560.23
2.580	2076.39	10.59	2065.80	4.03	21700.00	20040.70	505.00	19670.00	21070.00
2.670	2076.55	5.85	2070.70	3.85	21700.00	15369.72	475.00	18256.24	21647.48
2.670	2077.39	6.69	2070.70	4.55	21700.00	19001.52	475.00	19735.00	21135.00
* 2.770	2077.61	5.51	2072.10	2.98	21700.00	12904.46	525.00	18328.73	21899.91
* 2.770	2078.56	6.46	2072.10	3.68	21700.00	18733.64	525.00	19740.00	21240.00
2.860	2078.37	5.47	2072.90	3.66	21700.00	14370.26	475.00	18606.10	21942.01
2.860	2079.30	6.40	2072.90	3.89	21700.00	19424.27	475.00	19795.00	21295.00
2.953	2079.34	4.14	2075.20	3.12	21700.00	10110.13	490.00	18983.74	22353.79
2.953	2080.16	4.96	2075.20	3.89	21700.00	16090.36	490.00	19910.00	21310.00
3.035	2080.22	6.12	2074.10	3.64	21700.00	10884.71	435.00	19105.60	22331.74
3.035	2081.05	6.95	2074.10	4.30	21700.00	16753.49	435.00	19910.00	21310.00
3.127	2081.29	3.69	2077.60	3.20	21700.00	9876.34	485.00	19118.71	22619.22
3.127	2082.14	4.54	2077.60	3.99	21700.00	15933.78	485.00	19940.00	21340.00
3.220	2082.34	3.04	2079.30	3.44	21700.00	8961.79	490.00	18437.03	22333.22
3.220	2083.23	3.93	2079.30	4.23	21700.00	15013.87	490.00	19900.00	21400.00
3.312	2083.47	3.27	2080.20	3.35	21700.00	9648.59	490.00	18255.44	22537.08
3.312	2084.39	4.19	2080.20	4.13	21700.00	15657.71	490.00	19920.00	21420.00
3.406	2084.35	4.05	2080.30	3.17	21700.00	13661.38	495.00	19090.15	22554.01
3.406	2085.30	5.00	2080.30	3.63	21700.00	20492.32	495.00	19940.00	21440.00
3.500	2085.32	3.32	2082.00	3.91	21700.00	13460.37	495.00	19068.68	22330.98
3.500	2086.15	4.15	2082.00	4.18	21700.00	18546.92	495.00	19955.00	21455.00
3.595	2086.48	3.38	2083.10	3.58	21700.00	12335.73	500.00	19363.57	22466.02
3.595	2087.16	4.06	2083.10	3.89	21700.00	16064.88	500.00	19985.00	21485.00
3.688	2087.38	3.98	2083.40	3.11	21700.00	11347.02	495.00	18762.14	22506.02
3.688	2088.07	4.67	2083.40	4.03	21700.00	18108.70	495.00	19995.00	21495.00
3.794	2088.33	3.13	2085.20	3.00	21700.00	11598.08	560.00	18412.36	22382.35
3.794	2089.23	4.03	2085.20	3.66	21700.00	19046.89	560.00	19885.00	21685.00

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	3.898	2089.26	3.06	2086.20	2.68	21700.00	8780.38	545.00	18001.02	22333.71
	3.898	2090.22	4.02	2086.20	3.31	21700.00	15511.65	545.00	19710.00	21810.00
	4.006	2090.17	2.77	2087.40	2.88	21700.00	8827.46	570.00	17862.33	22354.84
	4.006	2091.15	3.75	2087.40	3.36	21700.00	14267.53	570.00	19710.00	21910.00
*	4.104	2091.31	2.11	2089.20	3.56	21700.00	11552.68	520.00	22950.65	27768.24
	4.104	2092.15	2.95	2089.20	3.93	21700.00	18090.31	520.00	25085.00	27085.00
*	4.205	2092.60	3.20	2089.40	2.92	21700.00	11985.97	535.00	17313.34	22784.12
	4.205	2093.35	3.95	2089.40	3.37	21700.00	17882.02	535.00	19965.00	21965.00
	4.303	2093.36	4.46	2088.90	2.52	21700.00	7640.78	515.00	18838.27	23041.47
	4.303	2094.21	5.31	2088.90	3.39	21700.00	13623.59	515.00	20090.00	22090.00
	4.401	2094.05	3.25	2090.80	2.55	21700.00	5883.57	520.00	17459.08	23360.57
	4.401	2095.01	4.21	2090.80	3.19	21700.00	10139.08	520.00	20295.00	22495.00
	4.496	2094.69	7.29	2087.40	2.44	21700.00	9574.80	500.00	18391.66	23198.51
	4.496	2095.67	8.27	2087.40	3.00	21700.00	16257.85	500.00	20115.00	22415.00
	4.592	2095.49	2.79	2092.70	3.46	21700.00	4659.18	505.00	18432.95	23729.07
	4.592	2096.33	3.63	2092.70	3.34	21700.00	5902.66	505.00	20230.00	22430.00
	4.686	2096.47	3.37	2093.10	2.76	21700.00	10553.83	495.00	18519.54	23757.99
	4.686	2097.13	4.03	2093.10	3.43	21700.00	16524.95	495.00	20325.00	22325.00
	4.781	2097.20	3.80	2093.40	2.63	21700.00	10748.05	505.00	19038.54	24007.45
	4.781	2097.95	4.55	2093.40	3.18	21700.00	16437.72	505.00	20320.00	22320.00
	4.877	2097.89	3.49	2094.40	2.70	21700.00	9071.93	505.00	18878.57	24017.41
	4.877	2098.65	4.25	2094.40	3.16	21700.00	13804.45	505.00	20320.00	22320.00
	4.972	2098.78	3.28	2095.50	2.86	21700.00	5907.61	500.00	18724.85	24007.04
	4.972	2099.51	4.01	2095.50	3.48	21700.00	9687.35	500.00	20315.00	22315.00
*	5.065	2099.59	3.09	2096.50	2.45	21700.00	7885.86	495.00	18740.48	24004.21
	5.065	2100.38	3.88	2096.50	3.05	21700.00	12599.99	495.00	20310.00	22310.00
*	5.159	2100.33	2.93	2097.40	3.15	21700.00	9535.23	495.00	20000.02	24283.31
	5.159	2101.12	3.72	2097.40	3.56	21700.00	14452.23	495.00	20320.00	22320.00
	5.255	2101.43	2.83	2098.60	2.94	21700.00	8671.32	505.00	19233.39	24421.62
	5.255	2102.12	3.52	2098.60	3.35	21700.00	12730.77	505.00	20205.00	22405.00
*	5.351	2102.86	2.76	2100.10	3.75	21700.00	8810.04	510.00	19839.52	24646.79
*	5.351	2103.39	3.28	2100.10	4.14	21700.00	12573.12	510.00	20185.00	22685.00
*	5.443	2103.63	7.83	2095.80	1.40	21700.00	3644.15	485.00	20148.65	24951.29
*	5.443	2104.44	8.64	2095.80	2.33	21700.00	8658.25	485.00	20155.00	22955.00

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	5.537	2104.15	2.75	2101.40	2.15	21700.00	2347.28	495.00	20424.58	25005.91
*	5.537	2105.15	3.75	2101.40	2.91	21700.00	6133.75	495.00	20247.57	23145.00
	5.630	2105.48	5.58	2099.90	1.49	21700.00	1212.66	490.00	20666.83	25116.66
	5.630	2106.30	6.40	2099.90	2.14	21700.00	3967.46	490.00	20331.48	23305.00
	5.724	2106.57	5.07	2101.50	1.89	21700.00	2987.83	500.00	20181.76	25365.52
	5.724	2107.35	5.85	2101.50	2.39	21700.00	6104.50	500.00	20158.48	23320.00
	5.819	2107.61	3.51	2104.10	2.09	21700.00	3135.37	500.00	20205.69	25363.55
	5.819	2108.32	4.22	2104.10	2.94	21700.00	6896.40	500.00	20148.83	23310.00
	5.911	2108.80	4.20	2104.60	2.21	21700.00	3369.53	490.00	19985.11	25354.77
	5.911	2109.55	4.95	2104.60	2.97	21700.00	7176.64	490.00	20146.30	23310.00
	6.005	2109.92	4.72	2105.20	2.11	21700.00	3374.90	490.00	19985.73	25729.70
	6.005	2110.75	5.55	2105.20	3.08	21700.00	7729.19	490.00	20143.64	23305.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     1.097  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.097  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.184  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.450  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.770  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.770  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.104  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.205  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.159  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.351  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.351  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.443  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.443  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.537  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.537  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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FLOODWAY DATA, URS FILE: CENTEN .FW1 CE
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
-.304	1700.	5673.	3.8	2048.2	2047.2	1.0
-.212	1700.	6448.	3.4	2049.1	2048.1	1.0
-.119	1500.	5970.	3.6	2049.8	2048.8	1.0
-.024	1500.	5508.	3.9	2050.6	2049.7	.9
.070	1500.	5535.	3.9	2051.6	2050.7	.9
.165	1500.	6060.	3.6	2052.5	2051.6	.9
.257	1500.	6058.	3.6	2053.2	2052.3	.9
.352	1600.	6299.	3.4	2053.9	2053.0	.9
.445	1700.	6617.	3.3	2054.6	2053.7	.9
.541	1700.	6074.	3.6	2055.3	2054.4	.9
.633	1700.	5959.	3.6	2056.1	2055.3	.8
.728	1700.	5652.	3.8	2057.1	2056.3	.8
.820	1700.	6001.	3.6	2058.0	2057.2	.8
.914	1796.	5500.	3.9	2059.0	2058.1	.9
1.008	1900.	6875.	3.2	2059.9	2059.0	.9
1.097	1600.	4743.	4.6	2060.7	2060.2	.5
1.184	1400.	4725.	4.6	2062.2	2061.6	.6
1.273	1400.	5669.	3.8	2063.3	2062.5	.8
1.358	1400.	5939.	3.7	2064.0	2063.2	.8
1.450	1400.	4838.	4.5	2064.9	2064.1	.8
1.544	1400.	5190.	4.2	2066.1	2065.4	.7
1.639	1400.	5089.	4.3	2067.3	2066.5	.8
1.732	1400.	5141.	4.2	2068.4	2067.6	.8
1.829	1400.	5211.	4.2	2069.5	2068.7	.8
1.921	1400.	5383.	4.0	2070.5	2069.7	.8
2.014	1400.	5431.	4.0	2071.5	2070.7	.8
2.109	1600.	5312.	4.1	2072.5	2071.6	.9
2.204	1700.	6606.	3.3	2073.4	2072.5	.9
2.298	1700.	5737.	3.8	2074.2	2073.3	.9
2.390	1700.	7028.	3.1	2074.9	2074.0	.9
2.485	1400.	5605.	3.9	2075.5	2074.6	.9
2.580	1400.	5468.	4.0	2076.4	2075.5	.9
2.670	1400.	4801.	4.5	2077.4	2076.6	.8
2.770	1500.	6039.	3.6	2078.6	2077.6	1.0
2.860	1500.	5728.	3.8	2079.3	2078.4	.9
2.953	1400.	5485.	4.0	2080.2	2079.3	.9
3.035	1400.	5052.	4.3	2081.0	2080.2	.8
3.127	1400.	5375.	4.0	2082.1	2081.3	.8
3.220	1500.	5107.	4.2	2083.2	2082.3	.9
3.312	1500.	5436.	4.0	2084.4	2083.5	.9
3.406	1500.	6028.	3.6	2085.3	2084.3	1.0
3.500	1500.	5316.	4.1	2086.1	2085.3	.8

FLOODWAY DATA, URS FILE: CENTEN .FW1 CE
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.595	1500.	5774.	3.8	2087.2	2086.5	.7
3.688	1500.	5434.	4.0	2088.1	2087.4	.7
3.794	1800.	6034.	3.6	2089.2	2088.3	.9
3.898	2100.	6601.	3.3	2090.2	2089.3	.9
4.006	2200.	6867.	3.2	2091.1	2090.2	.9
4.104	2000.	5595.	3.9	2092.2	2091.3	.9
4.205	2000.	6489.	3.3	2093.3	2092.6	.7
4.303	2000.	6583.	3.3	2094.2	2093.4	.8
4.401	2200.	7141.	3.0	2095.0	2094.1	.9
4.496	2300.	7547.	2.9	2095.7	2094.7	1.0
4.592	2200.	6966.	3.1	2096.3	2095.5	.8
4.686	2000.	6366.	3.4	2097.1	2096.5	.6
4.781	2000.	6945.	3.1	2097.9	2097.2	.7
4.877	2000.	6749.	3.2	2098.7	2097.9	.8
4.972	2000.	5936.	3.7	2099.5	2098.8	.7
5.065	2000.	7151.	3.0	2100.4	2099.6	.8
5.159	2000.	6137.	3.5	2101.1	2100.3	.8
5.255	2200.	6577.	3.3	2102.1	2101.4	.7
5.351	2500.	5397.	4.0	2103.4	2102.9	.5
5.443	2800.	8282.	2.6	2104.4	2103.6	.8
5.537	2897.	6572.	3.3	2105.1	2104.1	1.0
5.630	2974.	6392.	3.4	2106.3	2105.5	.8
5.724	3162.	7674.	2.8	2107.3	2106.6	.7
5.819	3161.	6689.	3.2	2108.3	2107.6	.7
5.911	3164.	6696.	3.2	2109.6	2108.8	.8
6.005	3161.	6966.	3.1	2110.7	2109.9	.8

APPENDIX C

Aguila Farm Channel
HEC-2 Multiple Profiles

THIS RUN EXECUTED 5/17/90 9:27:55

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
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T1      AGUILA FARM CHANNEL MULTIPLE PROFILE ANALYSIS
T2      10-YEAR DISCHARGE
T3      URS FILE : AGUILA.MPL AGUILA.OUT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0        0        0        0        0     2107.66     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      0        0       -1        2       40        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1        8       42       26       43       14       39       53       54

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

    -10      -10

QT       3     4880    16400    21700
NC    .040     .040     .040       .1       .3
X1   5.911       49  20760.0  21950.1      495      490      490
GR  2117.6  16908.8   2116.1  17335.4   2117.5  17344.7   2118.1  17376.1   2115.8  17382.4
GR  2114.4  18181.6   2113.8  18652.1   2111.8  18657.9   2115.7  18670.6   2113.7  18683.6
GR  2111.7  19899.9   2113.0  19904.5   2113.0  19921.4   2118.1  19935.7   2106.0  20000.0
GR  2105.4  20000.1   2105.4  20008.9   2116.6  20071.8   2111.1  20092.2   2111.1  20139.7
GR  2109.2  20147.8   2108.0  20760.0   2107.0  21313.2   2108.8  21355.4   2107.4  21371.2
GR  2107.6  21950.1   2107.4  22086.9   2106.9  22087.0   2105.9  22651.4   2107.3  22660.2
GR  2106.4  23950.0   2107.5  24718.8   2108.8  25202.2   2111.5  25213.4   2109.3  25221.1
GR  2109.4  25238.8   2113.4  25254.7   2105.7  25290.5   2104.6  25319.0   2104.6  25338.8
GR  2109.6  25357.8   2115.1  25377.0   2109.3  25401.7   2109.8  25873.4   2113.1  26650.8
GR  2114.8  26660.1   2113.8  26669.4   2116.2  27313.5   2116.5  27572.9

X1   6.005       61  20820.0  21926.8      490      490      490
GR  2118.8  16824.3   2117.7  17331.1   2116.7  17337.3   2118.3  17342.7   2118.3  17375.7
GR  2117.4  17381.8   2115.9  18075.7   2114.7  18637.1   2115.4  18653.3   2114.4  18657.9
GR  2112.3  19637.8   2112.0  19891.8   2110.7  19898.1   2112.9  19905.3   2112.9  19905.5
GR  2113.6  19920.6   2119.4  19938.3   2107.3  19998.9   2107.3  20000.0   2119.8  20000.1
GR  2107.7  20005.1   2107.7  20019.4   2110.9  20031.3   2111.3  20050.2   2117.8  20073.6
GR  2111.3  20095.2   2112.2  20139.1   2110.1  20145.7   2108.7  20820.0   2107.7  21290.3
GR  2108.3  21295.5   2106.8  21314.5   2108.4  21320.6   2109.1  21353.1   2108.5  21362.2
GR  2109.0  21926.8   2109.1  22088.6   2108.3  22088.7   2107.3  22651.7   2108.9  22661.7
GR  2107.4  23479.1   2107.1  24040.1   2109.5  25201.9   2110.9  25210.3   2111.0  25243.4
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GR	2115.9	26657.8	2114.4	26667.1	2119.1	27905.0	2120.7	27912.2	2121.3	27946.4
GR	2121.3	27946.5								
X1	6.143	17	19775	20070	500	1480	730			
GR	2116	17680	2114.6	18080	2113.3	19235	2122	19585	2108.3	19605
GR	2112	19640	2112	19775	2111.5	19930	2112	20070	2112	20995
GR	2111.7	21300	2112	22160	2112	24310	2114.5	24860	2112	25060
GR	2112	25260	2116	26430						
X1	6.258	23	19885	19950	530	1050	605			
GR	2116.5	18440	2116	18580	2114.4	18900	2114.2	19595	2112	19885
GR	2110.6	19915	2112	19950	2114.6	20260	2115	21400	2115.4	22100
GR	2116	22420	2118.5	22560	2116	22750	2114.9	23010	2115.4	24520
GR	2116	25405	2116	25465	2112.7	25505	2116	25560	2116	25610
GR	2115	25660	2116	26070	2118	26670				
QT	3	4130	14500	19300						
NC			.030							
X1	6.418	16	19955	20010	820	1720	845			
GR	2120	18740	2117.8	18940	2116	19955	2113.8	20000	2116	20010
GR	2120	20050	2120	20070	2116	20095	2118.3	20820	2118.8	22370
GR	2120	22785	2120	22865	2118.1	22950	2118.2	23620	2118	25595
GR	2120	26230								
X1	6.489	19	19975	20030	360	700	375			
GR	2121.4	17175	2120.2	18625	2120	18775	2118.8	19470	2116	19975
GR	2115.3	20000	2116	20030	2120	20060	2120	20085	2117.4	20110
GR	2118.7	21025	2120	22125	2120	22695	2118.7	22905	2118.6	23670
GR	2116.9	24330	2118.7	25880	2120	26595	2122	26755		
X1	6.608	15	19955	20060	550	980	630			
GR	2122.2	17880	2121.3	18820	2120.3	19910	2124	19920	2124	19935
GR	2120	19955	2116.3	20000	2120	20060	2120	20425	2120.4	21720
GR	2120	23570	2119.7	24250	2118.8	25855	2120	26440	2124	27535
X1	6.736	56	19891.4	20035.4	660	720	675			
GR	2127.9	15586.4	2125.3	16264.9	2126.3	16284.4	2127.2	16314.0	2125.3	16326.4
GR	2125.0	16973.0	2124.6	18045.0	2121.5	18984.0	2120.9	19569.8	2122.3	19587.1
GR	2122.2	19672.2	2121.4	19672.3	2122.0	19751.1	2120.8	19866.1	2125.6	19891.4
GR	2117.3	19936.7	2118.4	19978.1	2122.6	20000.0	2120.0	20000.1	2128.9	20035.4
GR	2121.7	20055.3	2122.0	21179.5	2123.3	21194.6	2123.3	21230.6	2121.8	21237.0
GR	2122.1	22933.9	2123.8	22964.5	2123.8	22986.7	2122.5	23022.6	2120.5	24491.6
GR	2121.8	24500.2	2121.8	24521.2	2120.0	24540.3	2120.0	24591.4	2122.6	24618.1
GR	2122.6	24645.0	2122.4	24678.9	2127.5	24701.6	2127.3	24861.7	2117.0	24881.7
GR	2117.1	24927.7	2129.6	24959.5	2127.6	25070.3	2128.5	25152.7	2131.3	25190.8
GR	2116.1	25238.6	2116.4	25335.4	2124.3	25362.1	2123.8	25394.7	2121.3	25403.5
GR	2120.7	26362.2	2126.3	27936.8	2127.9	27954.1	2127.8	28020.8	2125.9	28035.1
GR	2127.1	28066.3								

X1	6.831	39	19892.8	20030.6	480	505	505			
GR	2126.4	16634.8	2126.9	17453.5	2126.5	18236.6	2124.5	18247.8	2123.3	18947.1
GR	2124.4	18947.2	2125.1	19868.8	2129.5	19892.8	2119.5	19931.2	2119.3	19971.3
GR	2123.9	20000.0	2122.5	20000.1	2129.3	20030.6	2121.0	20057.1	2123.9	20333.9
GR	2122.4	20347.5	2122.0	21157.2	2124.8	21165.7	2124.8	21190.8	2123.4	21203.3
GR	2123.4	22302.0	2124.7	22311.6	2124.7	22328.3	2123.3	22337.3	2123.0	23222.4
GR	2124.0	23230.0	2124.3	23280.7	2123.1	23297.5	2122.6	24414.6	2121.6	24439.3
GR	2123.1	24474.6	2123.1	24519.6	2121.6	24535.4	2121.9	24599.3	2126.3	24656.6
GR	2124.5	24662.0	2123.5	25024.9	2122.0	26662.1	2127.2	27740.9		
X1	6.958	35	19899.2	20033.9	680	400	670			
GR	2129.9	16970.6	2130.7	17072.9	2129.1	17079.2	2128.1	17875.9	2127.8	17876.0
GR	2126.4	18625.9	2127.5	18633.9	2127.8	18669.0	2126.4	18671.4	2123.3	19867.4
GR	2130.1	19899.2	2120.6	19948.5	2119.3	19982.1	2123.0	20000.0	2124.0	20000.1
GR	2130.7	20033.9	2124.0	20060.4	2124.4	21104.9	2122.6	21115.4	2124.8	21125.4
GR	2124.6	22017.7	2125.8	22035.5	2124.6	23486.5	2126.0	23500.9	2126.0	23539.2
GR	2124.5	23546.9	2124.0	23927.0	2125.4	23958.3	2123.7	25097.9	2125.1	25105.7
GR	2125.1	25124.8	2124.2	25134.0	2123.7	26789.1	2125.3	26850.0	2128.0	27587.2
X1	7.085	37	19922.9	20058.3	670	400	670			
GR	2131.4	17562.2	2128.7	19099.4	2126.0	19889.4	2132.7	19922.9	2125.8	19945.9
GR	2125.6	19961.2	2121.6	19992.1	2122.6	20000.0	2122.4	20000.1	2125.1	20031.0
GR	2133.3	20058.3	2126.1	20082.1	2126.1	20125.5	2124.7	20147.2	2126.2	21094.0
GR	2128.2	21104.5	2128.2	21125.0	2126.2	21135.1	2126.0	22075.3	2127.4	22090.2
GR	2126.5	22106.3	2127.0	23115.9	2128.4	23143.0	2126.6	23173.3	2126.6	23232.3
GR	2127.8	23271.3	2127.1	23734.1	2124.8	23749.0	2127.5	23764.3	2127.5	23794.2
GR	2126.0	23806.3	2124.2	25366.3	2124.1	26888.6	2125.1	26901.6	2125.3	26952.4
GR	2126.6	27031.2	2131.0	28095.0						
X1	7.225	25	19914.1	20056.4	740	350	740			
GR	2136.0	17356.6	2131.3	18683.7	2130.1	19882.9	2136.0	19914.1	2130.4	19935.3
GR	2130.0	19957.3	2124.8	19980.6	2124.8	20000.0	2125.2	20000.1	2135.0	20056.4
GR	2129.4	20084.8	2128.1	21044.9	2130.2	21074.9	2127.8	21090.0	2127.9	22063.2
GR	2129.3	22090.4	2129.6	22161.5	2128.0	22181.1	2127.9	22480.4	2129.3	22491.2
GR	2127.0	24246.0	2125.6	25511.2	2124.8	26967.5	2126.3	27010.0	2131.2	27870.4
X1	7.313	41	19915.1	20056.4	465	470	465			
GR	2135.9	17644.5	2133.4	18212.2	2135.0	18226.8	2135.2	18253.9	2133.6	18262.8
GR	2131.8	19839.7	2129.8	19863.1	2131.6	19893.4	2138.1	19915.1	2130.2	19945.2
GR	2130.3	19965.8	2125.7	19985.7	2125.7	20000.0	2125.7	20000.1	2125.7	20022.9
GR	2135.9	20056.4	2130.9	20080.9	2133.2	20120.3	2130.2	20135.5	2128.9	21006.5
GR	2130.8	21022.4	2130.8	21040.6	2129.0	21056.0	2129.2	21236.6	2131.6	21282.0
GR	2128.9	21300.1	2128.9	22723.3	2130.7	22732.7	2127.8	24179.7	2126.6	24191.1
GR	2128.4	24235.0	2127.3	24251.7	2127.0	25728.0	2126.8	26951.6	2129.4	26978.5
GR	2129.8	27183.3	2131.4	27196.6	2131.2	27222.7	2128.6	27236.2	2130.4	27257.7
GR	2130.4	27436.1								
X1	7.427	38	19983.2	20109.9	600	585	600			
GR	2137.5	18222.1	2135.4	18556.2	2136.3	18563.6	2136.3	18588.9	2134.8	18591.8
GR	2132.9	19900.4	2131.5	19928.7	2132.9	19939.9	2133.2	19971.5	2137.7	19983.2
GR	2131.5	20000.0	2131.4	20000.1	2130.2	20022.9	2127.1	20030.6	2128.2	20077.1
GR	2137.5	20109.9	2134.2	20129.0	2135.2	20139.1	2135.2	20166.8	2133.2	20177.0
GR	2132.9	20216.5	2134.1	20232.5	2131.5	20993.8	2132.8	21000.8	2131.5	21953.6

GR	2132.3	21960.5	2130.1	23075.5	2132.1	23084.5	2129.5	24530.6	2127.1	24541.5
GR	2129.8	24588.1	2128.4	26032.9	2129.9	26042.7	2129.9	26093.8	2128.6	26102.7
GR	2131.8	27239.5	2133.3	27239.6	2135.0	27968.5				
X1	7.522	26	19985.9	20086.3	500	480	500			
GR	2137.3	18597.0	2136.4	18839.9	2137.6	18848.9	2137.7	18871.4	2135.8	18875.6
GR	2134.1	19985.9	2131.8	20000.0	2131.3	20000.1	2130.1	20007.5	2130.1	20033.9
GR	2137.3	20086.3	2133.9	20111.2	2132.4	20913.2	2134.3	20922.7	2132.1	21794.0
GR	2133.9	21803.1	2131.7	23320.1	2133.1	23326.2	2133.0	23359.7	2131.6	23371.7
GR	2129.8	24969.4	2130.0	26329.9	2130.9	26330.0	2132.5	26657.8	2134.5	27405.9
GR	2135.8	27716.1								
X1	7.617	27	19989.7	20084.9	505	520	505			
GR	2141.3	17975.6	2136.5	19125.4	2137.7	19148.7	2137.7	19162.7	2136.3	19166.7
GR	2135.2	19989.7	2133.8	20000.0	2134.0	20000.1	2131.0	20020.4	2131.0	20048.7
GR	2138.8	20084.9	2133.3	20106.2	2134.9	20148.8	2133.8	20865.9	2135.1	20871.1
GR	2133.1	22069.0	2135.1	22083.3	2131.8	23610.1	2133.9	23620.4	2131.6	25414.8
GR	2132.2	25414.9	2132.8	25856.3	2132.9	26269.1	2132.9	26571.4	2135.9	27248.1
GR	2138.4	27940.5	2141.3	28422.7						
X1	7.711	30	20000.0	20077.1	495	480	495			
GR	2141.0	18466.6	2137.3	19431.6	2135.6	20000.0	2135.3	20000.1	2135.3	20014.9
GR	2131.8	20025.7	2132.1	20058.0	2141.5	20077.1	2134.4	20104.7	2136.4	20150.6
GR	2134.2	20864.0	2132.9	20884.0	2135.4	20895.5	2133.7	22341.3	2136.2	22352.1
GR	2134.5	23122.6	2133.6	23884.1	2134.7	23893.5	2133.1	24519.8	2134.9	24519.9
GR	2134.0	25285.4	2132.7	25348.4	2134.4	25393.7	2134.4	25914.2	2138.0	25950.6
GR	2134.4	25977.1	2137.6	26894.2	2135.8	26907.7	2139.2	27790.4	2140.4	28176.7
X1	7.805	39	20000.0	20085.5	495	510	495			
GR	2145.1	18032.2	2143.4	18163.6	2139.6	18185.9	2144.0	18223.9	2145.9	18267.4
GR	2144.0	18276.2	2138.7	19313.8	2136.6	20000.0	2136.9	20000.1	2132.5	20022.1
GR	2132.6	20056.6	2141.7	20085.5	2136.2	20107.8	2137.6	20148.3	2136.0	21142.8
GR	2134.9	21168.7	2137.1	21180.8	2136.9	22114.6	2136.8	22643.1	2137.7	22650.5
GR	2137.7	22674.9	2136.6	22678.3	2136.9	23611.1	2135.6	23611.2	2136.0	24242.0
GR	2135.9	24959.2	2137.5	24987.9	2135.6	25020.5	2135.4	25584.2	2134.6	25681.5
GR	2137.3	26615.9	2139.0	27233.5	2141.4	27818.2	2143.0	27841.2	2141.1	27916.4
GR	2145.0	27989.8	2142.9	28104.0	2143.9	28123.9	2144.4	28590.1		
X1	7.900	47	19903.8	20072.5	505	490	505			
GR	2146.7	18112.6	2145.5	18226.7	2145.3	18226.8	2144.0	18425.9	2140.5	18447.1
GR	2140.5	18469.7	2145.0	18490.9	2146.1	18530.8	2143.4	18543.5	2139.5	19448.6
GR	2138.7	19903.8	2137.3	19960.3	2137.3	19992.6	2136.2	20000.0	2135.1	20000.1
GR	2133.1	20012.4	2133.1	20035.6	2143.4	20072.5	2137.2	20094.9	2138.7	20138.7
GR	2137.3	21029.5	2137.3	21436.4	2139.4	21444.7	2139.4	21468.6	2137.8	21476.0
GR	2136.6	22697.8	2136.6	22697.9	2139.3	22934.2	2138.4	23845.3	2138.0	24490.1
GR	2137.9	25259.9	2137.7	25858.6	2136.4	25907.1	2137.6	26266.4	2139.1	26883.9
GR	2140.6	26899.4	2140.6	26947.6	2139.3	26985.6	2141.1	27042.1	2148.0	27099.0
GR	2147.6	27129.0	2132.2	27177.3	2133.4	27264.3	2143.7	27297.5	2142.3	27396.7
GR	2143.7	27939.6	2144.4	28195.7						

X1	8.000	49	19973.5	20109.3	525	500	525			
GR	2144.0	18557.2	2144.0	18640.9	2141.2	18659.5	2141.3	18681.7	2144.5	18707.2
GR	2146.1	18751.6	2142.9	18767.3	2141.6	19295.0	2139.0	19973.5	2138.4	20000.0
GR	2138.2	20000.1	2138.2	20019.5	2132.8	20040.6	2132.8	20079.0	2144.7	20109.3
GR	2138.4	20127.3	2140.0	20181.7	2139.0	20723.0	2137.9	21643.2	2139.4	21652.1
GR	2139.1	21730.3	2139.7	21730.4	2141.9	22282.6	2140.7	23007.8	2140.3	23518.7
GR	2140.3	24213.1	2139.4	24645.4	2140.1	24656.3	2140.1	24677.9	2138.9	24684.8
GR	2139.3	25147.7	2139.6	25984.2	2141.2	26003.9	2141.2	26042.6	2147.0	26067.6
GR	2146.6	26097.1	2132.6	26161.0	2132.8	26225.1	2147.5	26296.0	2147.7	26332.0
GR	2142.1	26363.3	2142.5	26402.6	2140.7	26440.2	2142.8	27276.9	2143.4	27568.8
GR	2144.8	27591.5	2144.8	27610.4	2143.9	27624.8	2144.2	27800.9		
X1	8.097	43	20020.2	20141.3	515	505	515			
GR	2147.0	18190.6	2145.5	18579.6	2145.4	18579.7	2144.5	18751.9	2144.5	18789.5
GR	2145.4	18813.8	2145.9	18855.6	2143.3	18866.2	2141.3	19619.2	2139.3	19991.4
GR	2140.9	20000.0	2141.4	20000.1	2142.2	20020.2	2133.0	20081.3	2145.5	20141.3
GR	2139.5	20162.3	2141.6	20207.4	2139.7	20220.0	2139.5	20647.8	2140.8	20647.9
GR	2141.0	21156.3	2139.5	21748.4	2141.1	21758.2	2142.1	22231.5	2141.6	23277.8
GR	2141.8	24295.3	2141.7	24835.7	2144.1	24857.7	2144.3	24899.6	2145.9	24925.3
GR	2145.9	24986.6	2136.1	25008.6	2136.4	25082.5	2147.6	25110.1	2148.5	25208.3
GR	2142.1	25270.3	2142.6	26209.3	2143.4	26230.2	2142.3	26253.6	2145.0	27241.7
GR	2146.5	27752.0	2148.8	28236.0	2149.9	28524.1				
X1	8.196	43	19991.1	20142.4	520	500	520			
GR	2152.6	17229.2	2151.2	17486.3	2151.0	17546.6	2150.3	17546.7	2148.8	17805.4
GR	2148.9	18320.1	2144.5	18677.2	2144.6	18677.3	2144.2	18837.6	2140.9	18851.9
GR	2140.8	18871.0	2145.1	18895.6	2145.4	18937.1	2143.0	18949.2	2142.5	19588.5
GR	2142.6	19588.6	2142.2	19838.3	2141.9	19954.2	2145.3	19969.0	2145.3	19991.1
GR	2144.2	20000.0	2143.1	20000.1	2134.9	20058.0	2147.3	20142.4	2141.9	20160.4
GR	2141.8	20472.6	2142.7	21310.1	2141.3	21833.1	2142.9	21862.8	2143.1	22572.0
GR	2143.0	23372.8	2143.3	23904.7	2142.9	24703.8	2145.8	24758.5	2142.0	24770.9
GR	2142.0	24790.7	2144.3	24810.5	2142.2	24839.1	2143.0	25279.3	2144.0	25885.7
GR	2145.1	26322.7	2145.9	26805.2	2146.9	27171.1				
X1	8.300	36	19969.3	20101.2	550	495	550			
GR	2155.9	16603.1	2155.0	16650.9	2155.7	16824.0	2153.6	17173.5	2152.1	17442.1
GR	2150.4	17895.0	2146.8	18316.6	2145.2	18751.6	2145.2	18751.7	2145.0	18894.8
GR	2142.2	18932.6	2145.5	18962.6	2145.9	19002.4	2143.9	19008.8	2143.9	19931.0
GR	2146.6	19946.4	2146.3	19969.3	2141.1	20000.0	2141.2	20000.1	2136.9	20019.8
GR	2148.3	20101.2	2143.4	20122.1	2144.1	20407.1	2143.9	20970.4	2143.1	21882.5
GR	2145.3	21894.4	2145.7	21915.0	2144.3	21924.9	2144.8	22683.6	2144.0	23458.6
GR	2145.5	24163.3	2144.5	24912.1	2145.7	25576.1	2146.6	25972.2	2147.7	26394.5
GR	2148.7	26679.6								
X1	8.399	35	19986.0	20098.1	520	495	520			
GR	2157.3	16659.8	2155.6	16767.4	2161.0	16809.1	2153.6	16870.9	2155.3	16934.8
GR	2154.0	17259.9	2152.4	17656.7	2148.8	18187.3	2145.6	18821.9	2146.1	18822.0
GR	2146.1	18968.1	2143.5	18998.4	2147.7	19023.9	2147.8	19062.4	2145.3	19072.0
GR	2144.7	19949.8	2147.2	19958.5	2146.6	19986.0	2143.1	20000.0	2141.8	20000.1
GR	2138.2	20020.1	2151.3	20098.1	2145.0	20119.6	2145.4	20482.7	2145.0	21309.5
GR	2144.9	22020.6	2146.5	22027.3	2146.7	22064.0	2146.1	22659.1	2145.9	23493.2
GR	2146.5	24484.6	2147.0	25574.3	2149.2	26250.0	2150.0	26534.4	2152.4	27079.9

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X1    8.508      30   19947.6   20151.8      575      430      575
GR   2155.6 17010.8    2153.5   17095.2   2160.3 17144.2   2151.7 17210.2   2153.8 17260.4
GR   2150.9 17860.2    2149.5   18172.4   2147.6 18587.4   2146.7 18889.0   2147.5 18889.1
GR   2147.5 19024.1    2143.6   19058.7   2148.6 19089.6   2149.1 19128.3   2146.6 19139.7
GR   2146.1 19935.7    2149.0   19947.6   2143.6 20000.0   2143.1 20000.1   2139.3 20045.2
GR   2147.7 20151.8    2145.6   20179.6   2147.0 20312.2   2145.8 20372.1   2147.4 20785.0
GR   2147.7 22058.8    2147.7   23490.5   2147.3 24918.0   2150.8 26168.7   2152.5 26741.6

X1    8.631      31   19974.8   20163.2      650      300      650
GR   2152.0 17445.6    2159.3   17506.1   2152.2 17539.6   2151.6 17577.5   2153.5 17630.2
GR   2151.1 17888.4    2148.3   18412.0   2143.5 18509.1   2153.1 18616.9   2148.3 18665.4
GR   2148.3 18917.3    2148.7   18917.4   2149.2 19202.3   2148.1 19930.9   2151.6 19951.8
GR   2152.0 19974.8    2147.4   19985.1   2147.1 20000.0   2146.6 20000.1   2145.6 20042.9
GR   2143.8 20056.5    2143.8   20099.9   2151.9 20163.2   2146.3 20182.7   2148.7 20602.1
GR   2149.0 21993.7    2149.6   23363.5   2148.6 24780.7   2150.3 25607.5   2151.0 26186.6
GR   2151.9 26316.5

X1    8.749      36   19970.4   20165.0      630      265      625
GR   2158.1 17725.5    2158.1   17748.5   2158.1 17768.5   2158.1 17803.6   2158.1 17838.8
GR   2150.8 17867.2    2149.5   17889.4   2151.7 17944.4   2150.1 18167.1   2147.6 18200.6
GR   2153.9 18239.2    2149.4   18263.2   2149.7 18941.4   2150.5 18941.5   2150.5 19163.8
GR   2148.2 19171.4    2148.3   19934.6   2153.1 19970.4   2148.0 19989.4   2148.0 20000.0
GR   2147.9 20000.1    2147.2   20041.7   2143.6 20074.2   2148.5 20117.0   2154.6 20165.0
GR   2150.1 20176.8    2149.4   20523.5   2152.3 20534.6   2152.3 20563.7   2149.8 20574.8
GR   2150.4 22107.4    2150.4   23254.9   2149.4 24601.8   2150.3 25098.3   2151.3 25984.6
GR   2152.0 26026.1

X1    8.865      36   19957.3   20149.5      660      280      610
GR   2157.9 18019.0    2157.9   18043.1   2157.9 18102.9   2149.6 18137.2   2149.6 18194.3
GR   2148.2 18249.1    2156.8   18296.4   2149.4 18337.4   2149.6 18467.3   2156.4 18526.0
GR   2151.1 18556.6    2149.8   18713.6   2151.6 18964.8   2150.8 18964.9   2149.7 19220.5
GR   2152.4 19240.7    2151.7   19937.4   2155.3 19957.3   2149.7 20000.0   2149.9 20000.1
GR   2146.6 20039.8    2144.0   20061.1   2149.8 20098.5   2151.6 20128.1   2155.1 20149.5
GR   2151.0 20160.9    2151.9   20376.0   2151.8 20659.8   2149.9 21833.0   2151.4 21845.7
GR   2151.4 23165.7    2150.6   24042.7   2150.3 24503.2   2150.8 25328.2   2151.5 25854.0
GR   2152.1 25854.2

QT       3      3620     12700     16900
X1    8.974      29   19964.7   20150.4      610      290      580
GR   2158.3 18246.0    2158.3   18312.4   2158.3 18342.1   2156.3 18382.9   2151.1 18409.2
GR   2153.3 18422.3    2152.4   18719.0   2152.6 18991.7   2152.0 18991.8   2151.9 19430.2
GR   2152.0 19942.6    2156.6   19964.7   2150.2 20000.0   2150.6 20000.1   2146.7 20021.9
GR   2152.3 20116.0    2157.4   20150.4   2152.5 20158.4   2152.4 20593.8   2152.7 21834.5
GR   2152.5 22546.3    2152.4   23573.0   2151.3 24385.9   2149.3 24394.0   2150.4 24429.0
GR   2151.5 25401.5    2153.7   26303.0   2155.4 27075.6   2155.8 27170.7

NC     .050
X1    9.071      25   19963.0   20152.7      510      480      510
GR   2157.9 18411.9    2157.9   18447.5   2157.9 18485.8   2153.3 18510.0   2154.0 18999.3
GR   2153.1 18999.4    2154.1   19711.6   2154.1 19940.5   2157.4 19963.0   2153.5 19979.4
GR   2153.5 20000.0    2153.0   20000.1   2152.1 20036.4   2149.9 20051.3   2151.6 20095.3
GR   2158.2 20152.7    2155.0   20159.0   2154.9 20187.0   2153.4 20195.7   2153.7 20557.4
GR   2152.8 21823.3    2154.3   23123.8   2152.6 24439.7   2154.3 25745.1   2155.1 25905.0
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X1	9.164	33	19959.6	20143.7	490	480	490			
GR	2160.1	18569.2	2160.1	18615.6	2154.7	18641.9	2155.0	19005.8	2154.9	19005.9
GR	2155.7	19344.0	2157.6	19368.9	2157.1	19563.8	2155.0	19575.3	2155.0	19605.0
GR	2155.9	19619.2	2155.2	19932.5	2162.3	19959.6	2154.7	19987.0	2154.4	20000.0
GR	2154.5	20000.1	2153.9	20031.9	2151.2	20051.2	2153.7	20081.6	2155.1	20111.1
GR	2160.3	20143.7	2155.1	20151.6	2155.6	20355.5	2155.8	20567.5	2154.6	21821.3
GR	2155.8	23120.4	2154.5	23848.9	2154.8	24418.8	2156.4	25591.7	2156.2	25591.8
GR	2156.4	25820.5	2157.9	26776.0	2158.0	26930.7				
X1	9.258	27	19907.8	20087.1	500	480	500			
GR	2160.9	18625.7	2160.9	18655.5	2160.9	18697.1	2155.3	18721.8	2156.5	18810.3
GR	2156.6	18967.3	2156.0	18967.4	2157.0	19158.0	2156.8	19496.5	2157.3	19648.3
GR	2157.6	19885.0	2162.5	19907.8	2156.7	19935.7	2152.7	20000.0	2162.7	20087.1
GR	2156.9	20103.6	2157.1	20349.3	2157.2	20526.8	2157.3	21113.7	2156.9	21113.8
GR	2156.2	21765.7	2156.8	22370.7	2157.3	23053.5	2156.6	23949.6	2155.9	24351.8
GR	2159.1	25668.4	2160.9	26223.3						
X1	9.349	20	19958.5	20137.9	500	330	480			
GR	2162.4	18842.7	2162.4	18865.0	2162.4	18893.9	2158.4	18916.5	2158.4	19025.8
GR	2158.4	19025.9	2158.4	19585.5	2159.7	19940.7	2163.3	19958.5	2157.1	20000.0
GR	2158.1	20000.1	2154.9	20050.7	2162.2	20137.9	2157.6	20153.0	2159.3	20520.5
GR	2157.7	21805.0	2158.4	23093.1	2156.6	24341.9	2159.2	25714.2	2159.8	25870.5
X1	9.444	23	19961.2	20132.5	510	340	500			
GR	2164.3	18971.1	2164.3	19007.7	2164.3	19032.2	2162.0	19032.3	2165.2	19051.7
GR	2154.5	19110.1	2159.9	19146.9	2160.9	19594.7	2161.0	19935.4	2166.1	19961.2
GR	2159.9	19982.0	2159.8	20000.0	2159.5	20000.1	2156.8	20048.9	2164.0	20132.5
GR	2159.9	20153.4	2160.7	20534.2	2159.0	21797.9	2159.1	23090.2	2157.5	24361.9
GR	2159.1	25696.6	2159.3	25790.9	2162.8	26181				
X1	9.589	17	19979.8	20159.5	765	770	765			
GR	2168.0	19221.3	2168.0	19276.3	2162.6	19337.1	2163.7	19448.8	2162.1	19947.4
GR	2165.7	19979.8	2163.3	20000.0	2161.3	20000.1	2160.7	20124.9	2164.5	20159.5
GR	2161.3	20172.3	2161.5	20891.5	2161.9	21760.7	2161.7	22627.0	2162.1	23512.4
GR	2162.0	24355.6	2163.1	25596.1						
X1	9.682	21	20000.0	20186.2	490	500	490			
GR	2169.7	19362.4	2169.7	19387.6	2169.7	19411.8	2169.7	19455.7	2163.4	19479.3
GR	2163.6	19502.8	2165.4	19527.1	2163.8	19826.5	2163.8	19960.6	2167.4	20000.0
GR	2166.6	20000.1	2161.7	20044.7	2161.4	20140.3	2165.5	20186.2	2162.8	20197.6
GR	2162.9	20902.3	2163.4	21775.6	2163.4	22653.6	2163.5	23530.8	2163.4	24365.5
GR	2165.1	25724.6								
X1	9.773	19	20020.5	20211.2	485	475	480			
GR	2171.4	19529.3	2171.4	19572.6	2171.4	19597.7	2165.9	19614.7	2165.0	19998.4
GR	2166.1	20000.0	2164.8	20000.1	2169.8	20020.5	2162.5	20057.3	2162.9	20162.9
GR	2167.4	20211.2	2163.9	20219.7	2164.6	20916.0	2164.9	21800.0	2165.4	22672.8
GR	2165.1	23551.4	2165.7	24389.4	2169.2	25768.8	2169.3	25835.9		

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X1    9.871       19   20011.5   20188.1       520       515       520
GR   2171.6  19619.8    2171.6   19649.4    2171.6  19694.2    2165.6  19727.0    2166.6  19978.4
GR   2170.2  20000.0    2170.2   20000.1    2171.4  20011.5    2164.8  20032.1    2163.9  20133.2
GR   2168.9  20188.1    2166.1   20199.4    2166.0  20909.8    2166.8  21773.5    2166.8  22654.6
GR   2167.3  23537.6    2167.8   24373.8    2170.2  25744.2    2171.6  26428.4

NC     .040
X1    9.965       20   19974.4   20161.6       500       490       495
GR   2173.4  19735.0    2173.4   19752.6    2173.4  19787.9    2167.0  19825.2    2169.2  19945.1
GR   2172.4  19974.4    2168.4   19997.2    2168.1  19997.3    2168.1  20000.0    2165.2  20054.2
GR   2165.9  20134.4    2169.8   20161.6    2167.0  20175.0    2167.6  20851.2    2168.2  21749.0
GR   2168.4  22613.7    2168.8   23490.9    2169.4  24327.0    2172.4  25702.7    2172.4  25828.2

X1   10.055       19   19963.4   20131.7       475       450       475
GR   2174.9  19792.3    2174.9   19842.9    2169.0  19879.4    2170.8  19896.0    2169.0  19904.9
GR   2169.2  19946.0    2173.8   19963.4    2169.0  19990.1    2168.5  20000.0    2168.4  20000.1
GR   2167.6  20057.8    2167.9   20092.3    2173.8  20131.7    2169.5  20149.2    2170.4  21666.2
GR   2170.5  22541.9    2170.8   23420.2    2171.7  24253.2    2171.9  24934.5

X1   10.150       20   19971.6   20137.3       510       320       500
GR   2176.7  19798.8    2176.7   19819.7    2176.7  19850.0    2171.2  19881.7    2172.8  19905.4
GR   2170.6  19931.2    2175.8   19971.6    2171.2  19984.9    2171.2  20000.0    2171.6  20000.1
GR   2168.5  20011.7    2168.5   20104.7    2173.9  20137.3    2170.8  20154.9    2171.2  21548.6
GR   2171.8  22428.1    2171.9   23303.6    2172.1  24145.4    2174.1  25523.3    2174.3  25686.7

X1   10.241       20   19978.6   20176.6       490       340       485
GR   2178.3  19795.9    2178.3   19824.1    2178.3  19859.6    2171.4  19897.6    2171.6  19938.9
GR   2177.6  19978.6    2173.2   19989.2    2173.2  20000.0    2173.2  20000.1    2173.3  20019.1
GR   2171.2  20030.3    2171.7   20140.8    2175.7  20176.6    2172.6  20193.1    2172.2  21435.3
GR   2172.6  22316.0    2172.8   23204.9    2173.5  24050.5    2174.6  25436.7    2174.8  25517.4

X1   10.337       22   19958.7   20146.7       500       335       505
GR   2179.3  19787.3    2179.3   19813.4    2179.3  19833.4    2173.0  19872.3    2175.7  19911.3
GR   2176.0  19935.7    2178.7   19958.7    2175.6  19969.4    2175.6  19992.4    2173.8  20000.0
GR   2173.0  20000.1    2173.9   20038.1    2174.2  20111.4    2177.5  20146.7    2173.8  20170.8
GR   2173.8  21298.0    2173.9   22193.3    2174.6  23081.9    2172.4  23093.9    2173.9  23936.3
GR   2175.9  25341.0    2175.9   25495.5

X1   10.430       21   19950.1   20131.8       505       330       490
GR   2180.6  19773.8    2180.6   19798.6    2180.6  19831.9    2175.4  19858.5    2175.2  19911.6
GR   2180.9  19950.1    2177.5   19966.6    2177.5  19988.4    2175.6  20000.0    2174.8  20000.1
GR   2175.1  20092.1    2179.6   20131.8    2175.8  20150.1    2175.6  21172.9    2175.7  22082.3
GR   2175.0  22983.0    2173.2   23010.7    2175.0  23865.7    2176.3  25285.2    2176.3  25450.2
GR   2177.6    26045

X1   10.525       24   19961.8   20293.0       500       505       500
GR   2183.1  19775.8    2183.1   19807.5    2183.1  19833.6    2178.0  19853.5    2178.0  19910.8
GR   2181.9  19961.8    2177.9   20000.0    2178.3  20000.1    2175.5  20041.8    2180.9  20064.2
GR   2177.5  20075.9    2175.8   20227.5    2184.8  20293.0    2179.0  20316.2    2178.5  20389.3
GR   2177.5  21039.3    2177.7   21948.3    2177.7  22849.9    2175.2  22862.9    2176.4  23685.6
GR   2180.5  23708.6    2176.6   23741.3    2177.7  25147.5    2178.6  25431.6
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X1	10.621	33	19977.9	20057.2	510	495	510			
GR	2184.7	19771.3	2184.7	19800.4	2184.7	19825.0	2179.2	19850.8	2179.2	19889.7
GR	2180.0	19903.0	2180.1	19960.1	2182.9	19977.9	2179.3	20000.0	2177.9	20000.1
GR	2176.6	20012.8	2182.2	20057.2	2179.6	20068.1	2180.4	20271.5	2179.8	20271.6
GR	2179.9	20533.3	2179.8	20904.9	2184.0	20963.8	2178.9	20986.9	2179.1	21045.6
GR	2187.2	21163.8	2175.6	21351.0	2186.3	21551.4	2179.6	21621.0	2178.7	22437.9
GR	2179.5	22706.0	2177.2	22727.3	2177.6	23543.5	2180.4	23562.7	2177.9	23579.2
GR	2179.4	24186.6	2180.4	25012.1	2180.5	25107.2				
X1	10.714	30	19992.5	20060.2	490	490	490			
GR	2187.4	19773.6	2187.4	19830.6	2181.0	19852.8	2180.1	19879.7	2182.6	19921.2
GR	2180.8	19951.3	2184.4	19992.5	2181.9	20000.0	2183.1	20000.1	2177.6	20024.9
GR	2184.3	20060.2	2181.5	20071.5	2181.3	22062.2	2180.8	22062.3	2181.2	22137.1
GR	2182.8	22160.9	2180.7	22182.6	2181.7	22504.3	2187.1	22602.2	2175.8	22698.7
GR	2175.8	22869.0	2186.7	22962.6	2177.4	23186.3	2186.3	23368.6	2180.4	23454.0
GR	2181.1	23826.2	2182.9	23860.6	2181.3	23908.5	2181.3	24624.8	2183.0	24885
X1	10.808	24	19984.7	20047.0	495	510	495			
GR	2188.1	19774.2	2188.1	19817.4	2181.5	19855.6	2183.2	19896.9	2183.2	19960.1
GR	2186.2	19984.7	2182.0	20000.0	2181.0	20000.1	2180.4	20025.1	2187.4	20047.0
GR	2183.3	20058.8	2184.9	20651.9	2183.1	20660.8	2182.9	22008.2	2182.9	23413.7
GR	2183.0	23938.8	2183.4	23938.9	2184.8	24268.8	2185.3	24378.5	2189.4	24431.4
GR	2176.5	24546.2	2176.9	24670.7	2181.2	24691.0	2184.0	24941		
X1	10.903	22	19986.5	20049.3	505	495	505			
GR	2189.8	19752.4	2189.8	19781.9	2189.8	19811.8	2183.9	19839.5	2183.9	19876.8
GR	2185.0	19897.2	2184.6	19964.7	2188.5	19986.5	2185.2	20000.0	2181.1	20000.1
GR	2180.0	20019.3	2187.3	20049.3	2184.3	20059.9	2185.2	20529.7	2184.8	21557.9
GR	2184.4	22206.0	2185.0	23214.4	2185.8	24590.7	2187.7	24602.9	2187.7	24635.5
GR	2185.6	24641.0	2186.9	24961						
X1	10.998	19	19994.9	20051.0	505	500	500			
GR	2191.8	19783.6	2191.8	19814.4	2185.0	19842.2	2185.5	19893.5	2186.4	19978.5
GR	2188.8	19994.9	2186.5	20000.0	2185.2	20000.1	2183.0	20015.2	2188.4	20051.0
GR	2186.5	20056.6	2186.8	20363.1	2188.4	20374.4	2186.2	20382.1	2186.2	21030.5
GR	2186.9	21749.6	2187.0	23089.3	2188.9	24492.7	2188.4	24674.6		
X1	11.094	17	19983.1	20038.1	500	505	505			
GR	2193.4	19752.0	2193.4	19774.7	2193.4	19807.8	2187.2	19833.8	2187.2	19874.1
GR	2188.5	19917.9	2188.5	19958.2	2191.3	19983.1	2185.9	20000.0	2183.7	20000.1
GR	2188.8	20038.1	2189.3	21026.1	2189.1	21603.3	2187.8	22922.1	2189.3	22935.7
GR	2190.9	24349.7	2190.9	24670.5						
X1	11.189	19	19986.3	20046.0	500	505	505			
GR	2195.6	19779.4	2195.6	19815.2	2188.8	19838.1	2189.0	19886.2	2191.1	19909.7
GR	2188.0	19932.0	2188.5	19956.1	2192.7	19986.3	2188.4	20000.0	2187.7	20000.1
GR	2186.0	20020.8	2191.2	20046.0	2191.3	21473.5	2192.9	22822.3	2191.6	22960.8
GR	2192.5	24193.9	2194.4	24208.9	2192.7	24223.7	2193.1	24656.1		

X1	11.280	17	19979.6	20057.6	485	495	480			
GR	2197.1	19795.0	2197.1	19809.7	2190.5	19840.3	2191.1	19876.8	2192.5	19916.8
GR	2190.2	19929.3	2191.3	19956.2	2195.0	19979.6	2191.7	20000.0	2189.9	20000.1
GR	2188.3	20009.6	2188.5	20036.7	2191.9	20057.6	2192.9	21339.5	2194.8	22682.1
GR	2195.7	24087.1	2196.1	24656.8						
X1	11.378	15	19970.7	20049.2	515	490	515			
GR	2197.8	19763.6	2197.8	19806.0	2192.7	19830.9	2193.0	19876.5	2193.9	19929.2
GR	2197.5	19970.7	2192.2	20000.0	2190.2	20000.1	2190.2	20025.9	2194.0	20049.2
GR	2195.4	21194.6	2196.4	22543.8	2197.7	22861.8	2197.7	23955.4	2198.0	24689.2

T1 50- YEAR DISCHARGE
T2
T3

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3							2109.52	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

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T1      100-YEAR DISCHARGE
T2
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                4                                                           2109.80

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                  -1
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THIS RUN EXECUTED 5/17/90 9:28:37

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE : AGUILA.MPL AG

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	5.911	2107.66	3.06	2104.60	.69	4880.00	151.61	.00	19991.18	25350.43
	5.911	2108.52	3.92	2104.60	1.88	16400.00	2241.06	.00	19986.61	25353.70
	5.911	2108.80	4.20	2104.60	2.21	21700.00	3366.55	.00	19985.12	25354.76
	6.005	2108.71	3.51	2105.20	.86	4880.00	263.77	490.00	19991.80	25448.88
	6.005	2109.64	4.44	2105.20	1.83	16400.00	2332.95	490.00	19987.18	25662.91
	6.005	2109.93	4.73	2105.20	2.11	21700.00	3374.70	490.00	19985.74	25729.64
*	6.143	2112.48	4.18	2108.30	2.06	4880.00	446.09	730.00	19598.89	25401.61
	6.143	2113.17	4.87	2108.30	2.80	16400.00	1180.36	730.00	19597.88	25604.70
	6.143	2113.41	5.11	2108.30	3.07	21700.00	1501.05	730.00	19137.61	25672.33
*	6.258	2115.03	4.43	2110.60	4.17	4880.00	1008.65	605.00	18775.89	25668.41
	6.258	2115.88	5.28	2110.60	5.25	16400.00	1562.09	605.00	18603.78	26021.25
	6.258	2116.13	5.53	2110.60	5.41	21700.00	1696.88	605.00	18544.38	26108.16
*	6.418	2117.86	4.06	2113.80	5.83	4130.00	949.09	845.00	18934.54	20681.33
	6.418	2118.94	5.14	2113.80	5.76	14500.00	1280.07	845.00	18836.19	25894.05
	6.418	2119.21	5.41	2113.80	5.87	19300.00	1390.26	845.00	18811.98	25978.62
*	6.489	2118.75	3.45	2115.30	2.95	4130.00	502.34	375.00	19479.03	25907.53
*	6.489	2119.75	4.45	2115.30	3.66	14500.00	823.78	375.00	18924.89	26452.67
*	6.489	2120.03	4.73	2115.30	3.93	19300.00	945.04	375.00	18755.04	26597.13
*	6.608	2120.02	3.72	2116.30	4.85	4130.00	949.65	630.00	19954.92	26444.28
*	6.608	2120.89	4.59	2116.30	4.50	14500.00	1293.13	630.00	19268.40	26683.27
*	6.608	2121.16	4.86	2116.30	4.49	19300.00	1420.01	630.00	18974.08	26757.19
*	6.736	2121.41	5.31	2116.10	2.99	4130.00	663.40	675.00	19066.94	26563.26
	6.736	2122.33	6.23	2116.10	4.52	14500.00	1384.93	675.00	18730.50	26822.47
	6.736	2122.56	6.46	2116.10	4.81	19300.00	1581.83	675.00	18662.25	26885.83

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	6.831	2122.91	3.61	2119.30	6.40	4130.00	1306.40	505.00	19918.10	26851.13
*	6.831	2123.67	4.37	2119.30	6.66	14500.00	1779.21	505.00	18733.26	27007.94
	6.831	2123.91	4.61	2119.30	6.43	19300.00	1856.31	505.00	18594.96	27057.17
*	6.958	2124.60	5.30	2119.30	5.38	4130.00	1398.86	670.00	19367.32	26823.21
	6.958	2125.27	5.97	2119.30	6.41	14500.00	2009.16	670.00	19107.43	26848.85
	6.958	2125.45	6.15	2119.30	6.84	19300.00	2244.11	670.00	19038.76	26890.33
*	7.085	2125.47	3.87	2121.60	2.56	4130.00	354.92	670.00	19962.17	26962.98
	7.085	2126.32	4.72	2121.60	3.63	14500.00	763.55	670.00	19793.04	27014.79
	7.085	2126.57	4.97	2121.60	3.97	19300.00	926.65	670.00	19720.60	27029.79
*	7.225	2126.19	1.39	2124.80	3.70	4130.00	125.93	740.00	19974.40	27006.72
*	7.225	2127.21	2.41	2124.80	4.55	14500.00	325.04	740.00	19969.81	27169.26
*	7.225	2127.49	2.69	2124.80	4.88	19300.00	408.99	740.00	19968.54	27219.25
*	7.313	2127.86	2.16	2125.70	3.69	4130.00	363.28	465.00	19976.33	26962.62
	7.313	2128.80	3.10	2125.70	4.62	14500.00	702.17	465.00	19972.28	27238.63
	7.313	2129.11	3.41	2125.70	4.84	19300.00	830.58	465.00	19970.92	27242.38
*	7.427	2129.87	2.77	2127.10	5.66	4130.00	666.08	600.00	20023.71	26554.49
	7.427	2130.80	3.70	2127.10	6.15	14500.00	1095.89	600.00	20011.54	26883.38
	7.427	2131.08	3.98	2127.10	6.28	19300.00	1257.74	600.00	20006.15	26984.25
*	7.522	2131.21	1.41	2129.80	1.78	4130.00	67.29	500.00	20000.62	26394.62
*	7.522	2132.24	2.44	2129.80	2.86	14500.00	245.25	500.00	19997.25	26606.19
*	7.522	2132.57	2.77	2129.80	3.15	19300.00	323.05	500.00	19995.34	26680.63
*	7.617	2132.92	1.92	2131.00	7.55	4130.00	568.57	505.00	20007.42	26575.53
*	7.617	2133.80	2.80	2131.00	6.68	14500.00	828.03	505.00	20001.46	26774.33
*	7.617	2134.09	3.09	2131.00	6.31	19300.00	895.17	505.00	19997.89	26839.04
*	7.711	2134.92	3.12	2131.80	3.69	4130.00	438.15	495.00	20016.08	26125.29
*	7.711	2135.65	3.85	2131.80	4.15	14500.00	665.37	495.00	19982.21	26336.30
*	7.711	2135.87	4.07	2131.80	4.51	19300.00	788.62	495.00	19909.23	26926.27
*	7.805	2136.22	3.72	2132.50	6.79	4130.00	1237.33	495.00	20003.48	26243.71
	7.805	2137.09	4.59	2132.50	7.31	14500.00	1759.99	495.00	19842.03	26540.96
	7.805	2137.33	4.83	2132.50	7.29	19300.00	1886.85	495.00	19759.22	26629.29
*	7.900	2137.74	5.54	2132.20	3.17	4130.00	686.92	505.00	19942.57	27278.29
*	7.900	2138.66	6.46	2132.20	3.87	14500.00	1300.57	505.00	19905.37	27281.26
	7.900	2138.88	6.68	2132.20	4.25	19300.00	1569.16	505.00	19801.43	27281.96
	8.000	2138.51	5.91	2132.60	4.75	4130.00	1569.94	525.00	19995.16	26252.64
	8.000	2139.87	7.27	2132.60	7.58	14500.00	3724.66	525.00	19745.87	26259.21
	8.000	2140.18	7.58	2132.60	8.08	19300.00	4279.18	525.00	19665.09	26260.70
*	8.097	2139.68	6.68	2133.00	8.82	4130.00	2253.04	515.00	19920.52	25090.59
	8.097	2141.72	8.72	2133.00	7.57	14500.00	3292.69	515.00	19461.28	25095.61
	8.097	2142.08	9.08	2133.00	7.59	19300.00	3576.06	515.00	19326.62	25096.49

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	8.196	2142.64	7.74	2134.90	6.14	4130.00	2550.88	520.00	18844.35	25082.64
	8.196	2143.46	8.56	2134.90	7.64	14500.00	3882.72	520.00	18840.79	25560.44
	8.196	2143.71	8.81	2134.90	7.57	19300.00	4065.48	520.00	18839.71	25712.19
*	8.300	2144.34	7.44	2136.90	5.71	4130.00	1901.72	550.00	18903.70	23618.83
	8.300	2145.16	8.26	2136.90	6.50	14500.00	2685.97	550.00	18777.38	25279.56
	8.300	2145.37	8.47	2136.90	6.91	19300.00	3003.79	550.00	18706.53	25391.15
	8.399	2145.64	7.44	2138.20	6.39	4130.00	1858.51	520.00	18813.86	22023.70
	8.399	2146.55	8.35	2138.20	6.82	14500.00	2477.56	520.00	18632.49	24604.85
	8.399	2146.82	8.62	2138.20	6.90	19300.00	2658.44	520.00	18580.69	25174.18
	8.508	2146.82	7.52	2139.30	5.09	4130.00	3370.22	575.00	18850.39	20634.09
	8.508	2147.91	8.61	2139.30	7.44	14500.00	6419.58	575.00	18520.63	25134.45
	8.508	2148.15	8.85	2139.30	7.68	19300.00	6990.57	575.00	18467.09	25222.04
	8.631	2148.22	4.72	2143.50	5.30	4130.00	2236.50	650.00	18413.61	20518.35
	8.631	2149.61	6.11	2143.50	5.97	14500.00	3834.43	650.00	18166.38	25273.60
	8.631	2149.81	6.31	2143.50	6.42	19300.00	4338.32	650.00	18128.81	25371.32
	8.749	2149.71	6.11	2143.60	4.15	4130.00	1729.68	625.00	17885.74	24775.11
	8.749	2150.73	7.13	2143.60	5.03	14500.00	2862.14	625.00	17868.29	25484.97
	8.749	2150.97	7.37	2143.60	5.29	19300.00	3200.11	625.00	17866.56	25686.21
	8.865	2150.87	6.87	2144.00	5.17	4130.00	1997.35	610.00	18131.94	25383.04
	8.865	2151.77	7.77	2144.00	5.70	14500.00	2897.56	610.00	18128.23	25854.09
	8.865	2152.00	8.00	2144.00	5.90	19300.00	3193.22	610.00	18127.30	25854.16
	8.974	2152.02	5.32	2146.70	4.22	3620.00	1350.69	580.00	18404.56	25613.69
	8.974	2152.84	6.14	2146.70	5.38	12700.00	2294.15	580.00	18400.39	25951.04
	8.974	2153.05	6.35	2146.70	5.55	16900.00	2524.66	580.00	18399.33	26037.58
*	9.071	2153.65	3.75	2149.90	4.53	3620.00	1036.60	510.00	18508.15	25247.16
	9.071	2154.32	4.42	2149.90	4.97	12700.00	1594.64	510.00	18504.65	25748.52
	9.071	2154.50	4.60	2149.90	5.12	16900.00	1778.07	510.00	18503.70	25784.62
	9.164	2155.46	4.26	2151.20	4.19	3620.00	972.85	490.00	18638.22	24899.92
	9.164	2156.05	4.85	2151.20	5.31	12700.00	1648.64	490.00	18635.31	25337.18
	9.164	2156.24	5.04	2151.20	5.61	16900.00	1876.78	490.00	18634.46	25622.52
	9.258	2157.05	4.35	2152.70	4.91	3620.00	1145.97	500.00	18714.09	24824.08
	9.258	2157.73	5.03	2152.70	5.38	12700.00	1652.95	500.00	18711.10	25103.11
	9.258	2157.93	5.23	2152.70	5.52	16900.00	1826.25	500.00	18710.18	25189.09
	9.349	2158.24	3.34	2154.90	3.45	3620.00	549.51	480.00	19992.37	25207.50
	9.349	2158.90	4.00	2154.90	4.57	12700.00	1043.73	480.00	18913.64	25558.92
	9.349	2159.10	4.20	2154.90	4.85	16900.00	1217.28	480.00	18912.53	25662.91
	9.444	2159.11	4.61	2154.50	2.49	3620.00	196.81	500.00	19084.96	25699.13
	9.444	2159.88	5.38	2154.50	2.95	12700.00	412.50	500.00	19080.76	25855.06
	9.444	2160.11	5.61	2154.50	3.18	16900.00	521.94	500.00	19079.47	25881.43

	SECND	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	9.589	2162.07	1.38	2160.70	5.53	3620.00	788.85	765.00	20000.06	24440.12
*	9.589	2162.66	1.96	2160.70	5.68	12700.00	1275.90	765.00	19336.44	25098.63
	9.589	2162.86	2.16	2160.70	5.82	16900.00	1472.69	765.00	19334.21	25321.63
*	9.682	2163.87	2.47	2161.40	3.02	3620.00	835.88	490.00	19477.55	24738.45
*	9.682	2164.52	3.12	2161.40	4.05	12700.00	1520.02	490.00	19475.10	25262.85
*	9.682	2164.73	3.33	2161.40	4.33	16900.00	1772.34	490.00	19474.29	25433.62
*	9.773	2165.09	2.59	2162.50	5.94	3620.00	1754.41	480.00	19958.63	22137.53
*	9.773	2165.87	3.37	2162.50	6.62	12700.00	2719.59	480.00	19626.88	24456.95
*	9.773	2166.10	3.60	2162.50	6.69	16900.00	2993.48	480.00	19614.07	24548.36
*	9.871	2167.01	3.11	2163.90	4.10	3620.00	1350.48	520.00	19719.30	23024.10
	9.871	2167.80	3.90	2163.90	5.25	12700.00	2343.81	520.00	19714.96	24375.33
	9.871	2168.03	4.13	2163.90	5.61	16900.00	2700.71	520.00	19713.73	24503.73
	9.965	2168.31	3.11	2165.20	4.81	3620.00	1597.26	495.00	19817.57	22219.89
	9.965	2169.21	4.01	2165.20	5.64	12700.00	2688.71	495.00	19812.26	24076.21
	9.965	2169.48	4.28	2165.20	5.85	16900.00	3049.36	495.00	19810.73	24364.95
*	10.055	2170.53	2.93	2167.60	6.01	3620.00	1737.20	475.00	19869.96	22619.80
*	10.055	2171.15	3.55	2167.60	8.12	12700.00	3030.00	475.00	19866.02	23756.25
*	10.055	2171.38	3.78	2167.60	8.35	16900.00	3367.90	475.00	19864.65	23960.99
*	10.150	2171.88	3.38	2168.50	4.05	3620.00	1541.25	500.00	19877.79	23106.67
*	10.150	2172.70	4.20	2168.50	5.11	12700.00	2563.65	500.00	19873.00	24564.89
*	10.150	2172.95	4.45	2168.50	5.49	16900.00	2945.79	500.00	19871.67	24723.67
*	10.241	2172.99	1.79	2171.20	4.33	3620.00	805.76	485.00	19888.84	23435.25
	10.241	2173.73	2.53	2171.20	4.47	12700.00	1358.00	485.00	19884.72	24350.75
	10.241	2173.99	2.79	2171.20	4.69	16900.00	1625.57	485.00	19883.35	24664.85
	10.337	2174.32	1.92	2172.40	1.54	3620.00	84.44	505.00	19864.09	24238.26
	10.337	2174.99	2.59	2172.40	2.93	12700.00	393.08	505.00	19860.00	24703.64
	10.337	2175.21	2.81	2172.40	3.30	16900.00	534.55	505.00	19858.64	24857.79
	10.430	2175.40	2.20	2173.20	1.90	3620.00	79.89	490.00	19858.49	24304.74
	10.430	2176.20	3.00	2173.20	3.53	12700.00	434.83	490.00	19854.34	25191.37
	10.430	2176.43	3.23	2173.20	3.84	16900.00	561.72	490.00	19853.22	25510.74
	10.525	2177.23	2.03	2175.20	2.22	3620.00	286.42	500.00	20015.89	24559.11
	10.525	2178.12	2.92	2175.20	3.60	12700.00	1112.83	500.00	19853.03	25280.27
	10.525	2178.34	3.14	2175.20	3.95	16900.00	1418.55	500.00	19852.16	25350.54
	10.621	2178.75	3.15	2175.60	3.18	3620.00	118.59	510.00	20000.04	23922.35
	10.621	2179.82	4.22	2175.60	4.24	12700.00	317.42	510.00	19847.88	24536.47
	10.621	2180.09	4.49	2175.60	4.48	16900.00	388.41	510.00	19846.59	24761.79
	10.714	2179.88	4.08	2175.80	2.37	3620.00	59.90	490.00	20014.64	23237.00
	10.714	2181.60	5.80	2175.80	5.03	12700.00	393.64	490.00	19850.71	24670.95
	10.714	2181.93	6.13	2175.80	5.24	16900.00	481.27	490.00	19849.56	24721.92

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	10.808	2181.02	4.52	2176.50	1.36	3620.00	11.68	495.00	20000.10	24690.15
	10.808	2183.59	7.09	2176.50	4.74	12700.00	440.60	495.00	19843.51	24904.25
	10.808	2183.87	7.37	2176.50	5.07	16900.00	531.80	495.00	19841.85	24929.93
*	10.903	2185.27	5.27	2180.00	6.73	3620.00	996.59	505.00	19833.05	23685.63
*	10.903	2185.77	5.77	2180.00	9.24	12700.00	1566.88	505.00	19830.71	24683.38
	10.903	2186.00	6.00	2180.00	8.80	16900.00	1587.14	505.00	19829.63	24740.29
	10.998	2187.18	4.18	2183.00	4.87	3620.00	511.43	500.00	19833.29	23222.57
*	10.998	2188.03	5.03	2183.00	5.07	12700.00	741.21	500.00	19829.79	23854.48
	10.998	2188.23	5.23	2183.00	5.51	16900.00	867.24	500.00	19828.94	24008.67
	11.094	2189.16	5.46	2183.70	6.70	3620.00	854.92	505.00	19825.59	22934.42
*	11.094	2189.89	6.19	2183.70	7.95	12700.00	1303.15	505.00	19822.51	23458.96
	11.094	2190.17	6.47	2183.70	7.89	16900.00	1403.27	505.00	19821.35	23702.79
*	11.189	2191.71	5.71	2186.00	6.52	3620.00	1281.74	505.00	19828.31	23108.33
	11.189	2192.52	6.52	2186.00	8.84	12700.00	2154.05	505.00	19825.57	24194.06
	11.189	2192.74	6.74	2186.00	9.39	16900.00	2408.48	505.00	19824.85	24261.43
	11.280	2193.20	4.90	2188.30	5.41	3620.00	1293.05	480.00	19827.77	21553.75
*	11.280	2194.41	6.11	2188.30	6.53	12700.00	2115.13	480.00	19822.21	22400.40
*	11.280	2194.73	6.43	2188.30	6.98	16900.00	2432.40	480.00	19820.68	22634.14
*	11.378	2195.20	5.00	2190.20	7.46	3620.00	1689.19	515.00	19818.69	21031.80
*	11.378	2196.18	5.98	2190.20	10.37	12700.00	3046.23	515.00	19813.91	22247.68
*	11.378	2196.51	6.31	2190.20	10.45	16900.00	3316.52	515.00	19812.29	22570.91

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     6.143  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.258  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.418  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.489  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     6.489  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     6.489  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.608  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     6.608  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     6.608  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.736  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     6.831  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     6.831  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     6.831  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     6.831  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.958  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.085  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.225  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.225  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.225  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.313  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.427  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.522  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.522  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.522  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     7.617  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.617  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     7.617  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.617  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.711  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.711  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.711  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     7.805  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.805  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     7.900  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.900  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     8.097  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     8.196  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     8.196  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     8.300  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     8.300  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     9.071  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     9.071  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     9.589  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     9.589  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     9.589  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.589  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.682  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.682  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.682  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     9.773  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     9.773  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     9.773  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.773  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.871  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    10.055  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    10.055  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    10.055  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    10.055  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    10.150  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    10.150  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    10.150  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    10.241  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    10.903  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    10.903  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    10.903  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    10.903  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    10.998  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    11.094  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    11.189  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    11.189  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    11.280  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    11.280  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=     11.378  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     11.378  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     11.378  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     11.378  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     11.378  PROFILE=  2  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     11.378  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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APPENDIX D

Aguila Farm Channel
HEC-2 Floodway

THIS RUN EXECUTED 5/17/90 9:11:22

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      AGUILA FARM CHANNEL FLOODWAY ANALYSIS
T2      UNENCROACHED RUN
T3      URS FILE: AGUILA.FW1 AGUILA.OFW

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0         2         0         0         0         0         0         0   2108.80         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      0         0        -1         2        40         0         0         0         0         0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38         1         8        42        26        43        14        39        53        54
    200

J5  LPRNT    NUMSEC                   ********REQUESTED SECTION NUMBERS********

    -10       -10

QT        2     21700     21700
NC     .040      .040      .040        .1        .3
ET                          9.1                                                          20110     23310
X1    5.911        49   20760.0   21950.1       495       490       490
GR   2117.6   16908.8    2116.1   17335.4    2117.5   17344.7    2118.1   17376.1    2115.8   17382.4
GR   2114.4   18181.6    2113.8   18652.1    2111.8   18657.9    2115.7   18670.6    2113.7   18683.6
GR   2111.7   19899.9    2113.0   19904.5    2113.0   19921.4    2118.1   19935.7    2106.0   20000.0
GR   2105.4   20000.1    2105.4   20008.9    2116.6   20071.8    2111.1   20092.2    2111.1   20139.7
GR   2109.2   20147.8    2108.0   20760.0    2107.0   21313.2    2108.8   21355.4    2107.4   21371.2
GR   2107.6   21950.1    2107.4   22086.9    2106.9   22087.0    2105.9   22651.4    2107.3   22660.2
GR   2106.4   23950.0    2107.5   24718.8    2108.8   25202.2    2111.5   25213.4    2109.3   25221.1
GR   2109.4   25238.8    2113.4   25254.7    2105.7   25290.5    2104.6   25319.0    2104.6   25338.8
GR   2109.6   25357.8    2115.1   25377.0    2109.3   25401.7    2109.8   25873.4    2113.1   26650.8
GR   2114.8   26660.1    2113.8   26669.4    2116.2   27313.5    2116.5   27572.9

ET                          9.1                                                          20105     23305
X1    6.005        61   20820.0   21926.8       490       490       490
GR   2118.8   16824.3    2117.7   17331.1    2116.7   17337.3    2118.3   17342.7    2118.3   17375.7
GR   2117.4   17381.8    2115.9   18075.7    2114.7   18637.1    2115.4   18653.3    2114.4   18657.9
GR   2112.3   19637.8    2112.0   19891.8    2110.7   19898.1    2112.9   19905.3    2112.9   19905.5
GR   2113.6   19920.6    2119.4   19938.3    2107.3   19998.9    2107.3   20000.0    2119.8   20000.1
GR   2107.7   20005.1    2107.7   20019.4    2110.9   20031.3    2111.3   20050.2    2117.8   20073.6
GR   2111.3   20095.2    2112.2   20139.1    2110.1   20145.7    2108.7   20820.0    2107.7   21290.3
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GR	2108.3	21295.5	2106.8	21314.5	2108.4	21320.6	2109.1	21353.1	2108.5	21362.2
GR	2109.0	21926.8	2109.1	22088.6	2108.3	22088.7	2107.3	22651.7	2108.9	22661.7
GR	2107.4	23479.1	2107.1	24040.1	2109.5	25201.9	2110.9	25210.3	2111.0	25243.4
GR	2115.4	25254.3	2106.7	25277.9	2105.2	25304.4	2105.4	25333.1	2110.1	25363.2
GR	2116.3	25382.9	2111.0	25403.2	2110.5	25418.3	2108.6	25421.4	2113.9	26651.2
GR	2115.9	26657.8	2114.4	26667.1	2119.1	27905.0	2120.7	27912.2	2121.3	27946.4
GR	2121.3	27946.5								
ET			9.1						19690	23090
X1	6.143	17	19775	20070	500	1480	730			
GR	2116	17680	2114.6	18080	2113.3	19235	2122	19585	2108.3	19605
GR	2112	19640	2112	19775	2111.5	19930	2112	20070	2112	20995
GR	2111.7	21300	2112	22160	2112	24310	2114.5	24860	2112	25060
GR	2112	25260	2116	26430						
ET			9.1						19835	23535
X1	6.258	23	19885	19950	530	1050	605			
GR	2116.5	18440	2116	18580	2114.4	18900	2114.2	19595	2112	19885
GR	2110.6	19915	2112	19950	2114.6	20260	2115	21400	2115.4	22100
GR	2116	22420	2118.5	22560	2116	22750	2114.9	23010	2115.4	24520
GR	2116	25405	2116	25465	2112.7	25505	2116	25560	2116	25610
GR	2115	25660	2116	26070	2118	26670				
QT	2	19300	19300							
NC			.030							
ET			9.1						19955	24055
X1	6.418	16	19955	20010	820	1720	845			
GR	2120	18740	2117.8	18940	2116	19955	2113.8	20000	2116	20010
GR	2120	20050	2120	20070	2116	20095	2118.3	20820	2118.8	22370
GR	2120	22785	2120	22865	2118.1	22950	2118.2	23620	2118	25595
GR	2120	26230								
ET			9.1						19975	24175
X1	6.489	19	19975	20030	360	700	375			
GR	2121.4	17175	2120.2	18625	2120	18775	2118.8	19470	2116	19975
GR	2115.3	20000	2116	20030	2120	20060	2120	20085	2117.4	20110
GR	2118.7	21025	2120	22125	2120	22695	2118.7	22905	2118.6	23670
GR	2116.9	24330	2118.7	25880	2120	26595	2122	26755		
ET			9.1						19955	24715
X1	6.608	15	19955	20060	550	980	630			
GR	2122.2	17880	2121.3	18820	2120.3	19910	2124	19920	2124	19935
GR	2120	19955	2116.3	20000	2120	20060	2120	20425	2120.4	21720
GR	2120	23570	2119.7	24250	2118.8	25855	2120	26440	2124	27535
ET			9.1						19891	25091
X1	6.736	56	19891.4	20035.4	660	720	675			
GR	2127.9	15586.4	2125.3	16264.9	2126.3	16284.4	2127.2	16314.0	2125.3	16326.4
GR	2125.0	16973.0	2124.6	18045.0	2121.5	18984.0	2120.9	19569.8	2122.3	19587.1
GR	2122.2	19672.2	2121.4	19672.3	2122.0	19751.1	2120.8	19866.1	2125.6	19891.4
GR	2117.3	19936.7	2118.4	19978.1	2122.6	20000.0	2120.0	20000.1	2128.9	20035.4
GR	2121.7	20055.3	2122.0	21179.5	2123.3	21194.6	2123.3	21230.6	2121.8	21237.0
GR	2122.1	22933.9	2123.8	22964.5	2123.8	22986.7	2122.5	23022.6	2120.5	24491.6
GR	2121.8	24500.2	2121.8	24521.2	2120.0	24540.3	2120.0	24591.4	2122.6	24618.1

GR	2122.6	24645.0	2122.4	24678.9	2127.5	24701.6	2127.3	24861.7	2117.0	24881.7
GR	2117.1	24927.7	2129.6	24959.5	2127.6	25070.3	2128.5	25152.7	2131.3	25190.8
GR	2116.1	25238.6	2116.4	25335.4	2124.3	25362.1	2123.8	25394.7	2121.3	25403.5
GR	2120.7	26362.2	2126.3	27936.8	2127.9	27954.1	2127.8	28020.8	2125.9	28035.1
GR	2127.1	28066.3								
ET			9.1						19893	25363
X1	6.831	39	19892.8	20030.6	480	505	505			
GR	2126.4	16634.8	2126.9	17453.5	2126.5	18236.6	2124.5	18247.8	2123.3	18947.1
GR	2124.4	18947.2	2125.1	19868.8	2129.5	19892.8	2119.5	19931.2	2119.3	19971.3
GR	2123.9	20000.0	2122.5	20000.1	2129.3	20030.6	2121.0	20057.1	2123.9	20333.9
GR	2122.4	20347.5	2122.0	21157.2	2124.8	21165.7	2124.8	21190.8	2123.4	21203.3
GR	2123.4	22302.0	2124.7	22311.6	2124.7	22328.3	2123.3	22337.3	2123.0	23222.4
GR	2124.0	23230.0	2124.3	23280.7	2123.1	23297.5	2122.6	24414.6	2121.6	24439.3
GR	2123.1	24474.6	2123.1	24519.6	2121.6	24535.4	2121.9	24599.3	2126.3	24656.6
GR	2124.5	24662.0	2123.5	25024.9	2122.0	26662.1	2127.2	27740.9		
ET			9.1						19899	25519
X1	6.958	35	19899.2	20033.9	680	400	670			
GR	2129.9	16970.6	2130.7	17072.9	2129.1	17079.2	2128.1	17875.9	2127.8	17876.0
GR	2126.4	18625.9	2127.5	18633.9	2127.8	18669.0	2126.4	18671.4	2123.3	19867.4
GR	2130.1	19899.2	2120.6	19948.5	2119.3	19982.1	2123.0	20000.0	2124.0	20000.1
GR	2130.7	20033.9	2124.0	20060.4	2124.4	21104.9	2122.6	21115.4	2124.8	21125.4
GR	2124.6	22017.7	2125.8	22035.5	2124.6	23486.5	2126.0	23500.9	2126.0	23539.2
GR	2124.5	23546.9	2124.0	23927.0	2125.4	23958.3	2123.7	25097.9	2125.1	25105.7
GR	2125.1	25124.8	2124.2	25134.0	2123.7	26789.1	2125.3	26850.0	2128.0	27587.2
ET			9.1						19923	25643
X1	7.085	37	19922.9	20058.3	670	400	670			
GR	2131.4	17562.2	2128.7	19099.4	2126.0	19889.4	2132.7	19922.9	2125.8	19945.9
GR	2125.6	19961.2	2121.6	19992.1	2122.6	20000.0	2122.4	20000.1	2125.1	20031.0
GR	2133.3	20058.3	2126.1	20082.1	2126.1	20125.5	2124.7	20147.2	2126.2	21094.0
GR	2128.2	21104.5	2128.2	21125.0	2126.2	21135.1	2126.0	22075.3	2127.4	22090.2
GR	2126.5	22106.3	2127.0	23115.9	2128.4	23143.0	2126.6	23173.3	2126.6	23232.3
GR	2127.8	23271.3	2127.1	23734.1	2124.8	23749.0	2127.5	23764.3	2127.5	23794.2
GR	2126.0	23806.3	2124.2	25366.3	2124.1	26888.6	2125.1	26901.6	2125.3	26952.4
GR	2126.6	27031.2	2131.0	28095.0						
ET			9.1						19914	25584
X1	7.225	25	19914.1	20056.4	740	350	740			
GR	2136.0	17356.6	2131.3	18683.7	2130.1	19882.9	2136.0	19914.1	2130.4	19935.3
GR	2130.0	19957.3	2124.8	19980.6	2124.8	20000.0	2125.2	20000.1	2135.0	20056.4
GR	2129.4	20084.8	2128.1	21044.9	2130.2	21074.9	2127.8	21090.0	2127.9	22063.2
GR	2129.3	22090.4	2129.6	22161.5	2128.0	22181.1	2127.9	22480.4	2129.3	22491.2
GR	2127.0	24246.0	2125.6	25511.2	2124.8	26967.5	2126.3	27010.0	2131.2	27870.4
ET			9.1						19915	25520
X1	7.313	41	19915.1	20056.4	465	470	465			
GR	2135.9	17644.5	2133.4	18212.2	2135.0	18226.8	2135.2	18253.9	2133.6	18262.8
GR	2131.8	19839.7	2129.8	19863.1	2131.6	19893.4	2138.1	19915.1	2130.2	19945.2
GR	2130.3	19965.8	2125.7	19985.7	2125.7	20000.0	2125.7	20000.1	2125.7	20022.9
GR	2135.9	20056.4	2130.9	20080.9	2133.2	20120.3	2130.2	20135.5	2128.9	21006.5
GR	2130.8	21022.4	2130.8	21040.6	2129.0	21056.0	2129.2	21236.6	2131.6	21282.0
GR	2128.9	21300.1	2128.9	22723.3	2130.7	22732.7	2127.8	24179.7	2126.6	24191.1

GR	2128.4	24235.0	2127.3	24251.7	2127.0	25728.0	2126.8	26951.6	2129.4	26978.5
GR	2129.8	27183.3	2131.4	27196.6	2131.2	27222.7	2128.6	27236.2	2130.4	27257.7
GR	2130.4	27436.1								
ET			9.1						19983	25278
X1	7.427	38	19983.2	20109.9	600	585	600			
GR	2137.5	18222.1	2135.4	18556.2	2136.3	18563.6	2136.3	18588.9	2134.8	18591.8
GR	2132.9	19900.4	2131.5	19928.7	2132.9	19939.9	2133.2	19971.5	2137.7	19983.2
GR	2131.5	20000.0	2131.4	20000.1	2130.2	20022.9	2127.1	20030.6	2128.2	20077.1
GR	2137.5	20109.9	2134.2	20129.0	2135.2	20139.1	2135.2	20166.8	2133.2	20177.0
GR	2132.9	20216.5	2134.1	20232.5	2131.5	20993.8	2132.8	21000.8	2131.5	21953.6
GR	2132.3	21960.5	2130.1	23075.5	2132.1	23084.5	2129.5	24530.6	2127.1	24541.5
GR	2129.8	24588.1	2128.4	26032.9	2129.9	26042.7	2129.9	26093.8	2128.6	26102.7
GR	2131.8	27239.5	2133.3	27239.6	2135.0	27968.5				
ET			9.1						19986	25136
X1	7.522	26	19985.9	20086.3	500	480	500			
GR	2137.3	18597.0	2136.4	18839.9	2137.6	18848.9	2137.7	18871.4	2135.8	18875.6
GR	2134.1	19985.9	2131.8	20000.0	2131.3	20000.1	2130.1	20007.5	2130.1	20033.9
GR	2137.3	20086.3	2133.9	20111.2	2132.4	20913.2	2134.3	20922.7	2132.1	21794.0
GR	2133.9	21803.1	2131.7	23320.1	2133.1	23326.2	2133.0	23359.7	2131.6	23371.7
GR	2129.8	24969.4	2130.0	26329.9	2130.9	26330.0	2132.5	26657.8	2134.5	27405.9
GR	2135.8	27716.1								
ET			9.1						19990	25000
X1	7.617	27	19989.7	20084.9	505	520	505			
GR	2141.3	17975.6	2136.5	19125.4	2137.7	19148.7	2137.7	19162.7	2136.3	19166.7
GR	2135.2	19989.7	2133.8	20000.0	2134.0	20000.1	2131.0	20020.4	2131.0	20048.7
GR	2138.8	20084.9	2133.3	20106.2	2134.9	20148.8	2133.8	20865.9	2135.1	20871.1
GR	2133.1	22069.0	2135.1	22083.3	2131.8	23610.1	2133.9	23620.4	2131.6	25414.8
GR	2132.2	25414.9	2132.8	25856.3	2132.9	26269.1	2132.9	26571.4	2135.9	27248.1
GR	2138.4	27940.5	2141.3	28422.7						
ET			9.1						20000	24990
X1	7.711	30	20000.0	20077.1	495	480	495			
GR	2141.0	18466.6	2137.3	19431.6	2135.6	20000.0	2135.3	20000.1	2135.3	20014.9
GR	2131.8	20025.7	2132.1	20058.0	2141.5	20077.1	2134.4	20104.7	2136.4	20150.6
GR	2134.2	20864.0	2132.9	20884.0	2135.4	20895.5	2133.7	22341.3	2136.2	22352.1
GR	2134.5	23122.6	2133.6	23884.1	2134.7	23893.5	2133.1	24519.8	2134.9	24519.9
GR	2134.0	25285.4	2132.7	25348.4	2134.4	25393.7	2134.4	25914.2	2138.0	25950.6
GR	2134.4	25977.1	2137.6	26894.2	2135.8	26907.7	2139.2	27790.4	2140.4	28176.7
ET			9.1						20000	24970
X1	7.805	39	20000.0	20085.5	495	510	495			
GR	2145.1	18032.2	2143.4	18163.6	2139.6	18185.9	2144.0	18223.9	2145.9	18267.4
GR	2144.0	18276.2	2138.7	19313.8	2136.6	20000.0	2136.9	20000.1	2132.5	20022.1
GR	2132.6	20056.6	2141.7	20085.5	2136.2	20107.8	2137.6	20148.3	2136.0	21142.8
GR	2134.9	21168.7	2137.1	21180.8	2136.9	22114.6	2136.8	22643.1	2137.7	22650.5
GR	2137.7	22674.9	2136.6	22678.3	2136.9	23611.1	2135.6	23611.2	2136.0	24242.0
GR	2135.9	24959.2	2137.5	24987.9	2135.6	25020.5	2135.4	25584.2	2134.6	25681.5
GR	2137.3	26615.9	2139.0	27233.5	2141.4	27818.2	2143.0	27841.2	2141.1	27916.4
GR	2145.0	27989.8	2142.9	28104.0	2143.9	28123.9	2144.4	28590.1		

ET			9.1						19983	24938
X1	7.900	47	19903.8	20072.5	505	490	505			
GR	2146.7	18112.6	2145.5	18226.7	2145.3	18226.8	2144.0	18425.9	2140.5	18447.1
GR	2140.5	18469.7	2145.0	18490.9	2146.1	18530.8	2143.4	18543.5	2139.5	19448.6
GR	2138.7	19903.8	2137.3	19960.3	2137.3	19992.6	2136.2	20000.0	2135.1	20000.1
GR	2133.1	20012.4	2133.1	20035.6	2143.4	20072.5	2137.2	20094.9	2138.7	20138.7
GR	2137.3	21029.5	2137.3	21436.4	2139.4	21444.7	2139.4	21468.6	2137.8	21476.0
GR	2136.6	22697.8	2136.6	22697.9	2139.3	22934.2	2138.4	23845.3	2138.0	24490.1
GR	2137.9	25259.9	2137.7	25858.6	2136.4	25907.1	2137.6	26266.4	2139.1	26883.9
GR	2140.6	26899.4	2140.6	26947.6	2139.3	26985.6	2141.1	27042.1	2148.0	27099.0
GR	2147.6	27129.0	2132.2	27177.3	2133.4	27264.3	2143.7	27297.5	2142.3	27396.7
GR	2143.7	27939.6	2144.4	28195.7						

ET			9.1						19974	24859
X1	8.000	49	19973.5	20109.3	525	500	525			
GR	2144.0	18557.2	2144.0	18640.9	2141.2	18659.5	2141.3	18681.7	2144.5	18707.2
GR	2146.1	18751.6	2142.9	18767.3	2141.6	19295.0	2139.0	19973.5	2138.4	20000.0
GR	2138.2	20000.1	2138.2	20019.5	2132.8	20040.6	2132.8	20079.0	2144.7	20109.3
GR	2138.4	20127.3	2140.0	20181.7	2139.0	20723.0	2137.9	21643.2	2139.4	21652.1
GR	2139.1	21730.3	2139.7	21730.4	2141.9	22282.6	2140.7	23007.8	2140.3	23518.7
GR	2140.3	24213.1	2139.4	24645.4	2140.1	24656.3	2140.1	24677.9	2138.9	24684.8
GR	2139.3	25147.7	2139.6	25984.2	2141.2	26003.9	2141.2	26042.6	2147.0	26067.6
GR	2146.6	26097.1	2132.6	26161.0	2132.8	26225.1	2147.5	26296.0	2147.7	26332.0
GR	2142.1	26363.3	2142.5	26402.6	2140.7	26440.2	2142.8	27276.9	2143.4	27568.8
GR	2144.8	27591.5	2144.8	27610.4	2143.9	27624.8	2144.2	27800.9		

ET			9.1						20000	24670
X1	8.097	43	20020.2	20141.3	515	505	515			
GR	2147.0	18190.6	2145.5	18579.6	2145.4	18579.7	2144.5	18751.9	2144.5	18789.5
GR	2145.4	18813.8	2145.9	18855.6	2143.3	18866.2	2141.3	19619.2	2139.3	19991.4
GR	2140.9	20000.0	2141.4	20000.1	2142.2	20020.2	2133.0	20081.3	2145.5	20141.3
GR	2139.5	20162.3	2141.6	20207.4	2139.7	20220.0	2139.5	20647.8	2140.8	20647.9
GR	2141.0	21156.3	2139.5	21748.4	2141.1	21758.2	2142.1	22231.5	2141.6	23277.8
GR	2141.8	24295.3	2141.7	24835.7	2144.1	24857.7	2144.3	24899.6	2145.9	24925.3
GR	2145.9	24986.6	2136.1	25008.6	2136.4	25082.5	2147.6	25110.1	2148.5	25208.3
GR	2142.1	25270.3	2142.6	26209.3	2143.4	26230.2	2142.3	26253.6	2145.0	27241.7
GR	2146.5	27752.0	2148.8	28236.0	2149.9	28524.1				

ET			9.1						19991	24466
X1	8.196	43	19991.1	20142.4	520	500	520			
GR	2152.6	17229.2	2151.2	17486.3	2151.0	17546.6	2150.3	17546.7	2148.8	17805.4
GR	2148.9	18320.1	2144.5	18677.2	2144.6	18677.3	2144.2	18837.6	2140.9	18851.9
GR	2140.8	18871.0	2145.1	18895.6	2145.4	18937.1	2143.0	18949.2	2142.5	19588.5
GR	2142.6	19588.6	2142.2	19838.3	2141.9	19954.2	2145.3	19969.0	2145.3	19991.1
GR	2144.2	20000.0	2143.1	20000.1	2134.9	20058.0	2147.3	20142.4	2141.9	20160.4
GR	2141.8	20472.6	2142.7	21310.1	2141.3	21833.1	2142.9	21862.8	2143.1	22572.0
GR	2143.0	23372.8	2143.3	23904.7	2142.9	24703.8	2145.8	24758.5	2142.0	24770.9
GR	2142.0	24790.7	2144.3	24810.5	2142.2	24839.1	2143.0	25279.3	2144.0	25885.7
GR	2145.1	26322.7	2145.9	26805.2	2146.9	27171.1				

ET			9.1						19969	24304
X1	8.300	36	19969.3	20101.2	550	495	550			
GR	2155.9	16603.1	2155.0	16650.9	2155.7	16824.0	2153.6	17173.5	2152.1	17442.1
GR	2150.4	17895.0	2146.8	18316.6	2145.2	18751.6	2145.2	18751.7	2145.0	18894.8
GR	2142.2	18932.6	2145.5	18962.6	2145.9	19002.4	2143.9	19008.8	2143.9	19931.0
GR	2146.6	19946.4	2146.3	19969.3	2141.1	20000.0	2141.2	20000.1	2136.9	20019.8
GR	2148.3	20101.2	2143.4	20122.1	2144.1	20407.1	2143.9	20970.4	2143.1	21882.5
GR	2145.3	21894.4	2145.7	21915.0	2144.3	21924.9	2144.8	22683.6	2144.0	23458.6
GR	2145.5	24163.3	2144.5	24912.1	2145.7	25576.1	2146.6	25972.2	2147.7	26394.5
GR	2148.7	26679.6								

ET			9.1						19986	24196
X1	8.399	35	19986.0	20098.1	520	495	520			
GR	2157.3	16659.8	2155.6	16767.4	2161.0	16809.1	2153.6	16870.9	2155.3	16934.8
GR	2154.0	17259.9	2152.4	17656.7	2148.8	18187.3	2145.6	18821.9	2146.1	18822.0
GR	2146.1	18968.1	2143.5	18998.4	2147.7	19023.9	2147.8	19062.4	2145.3	19072.0
GR	2144.7	19949.8	2147.2	19958.5	2146.6	19986.0	2143.1	20000.0	2141.8	20000.1
GR	2138.2	20020.1	2151.3	20098.1	2145.0	20119.6	2145.4	20482.7	2145.0	21309.5
GR	2144.9	22020.6	2146.5	22027.3	2146.7	22064.0	2146.1	22659.1	2145.9	23493.2
GR	2146.5	24484.6	2147.0	25574.3	2149.2	26250.0	2150.0	26534.4	2152.4	27079.9

ET			9.1						19948	24078
X1	8.508	30	19947.6	20151.8	575	430	575			
GR	2155.6	17010.8	2153.5	17095.2	2160.3	17144.2	2151.7	17210.2	2153.8	17260.4
GR	2150.9	17860.2	2149.5	18172.4	2147.6	18587.4	2146.7	18889.0	2147.5	18889.1
GR	2147.5	19024.1	2143.6	19058.7	2148.6	19089.6	2149.1	19128.3	2146.6	19139.7
GR	2146.1	19935.7	2149.0	19947.6	2143.6	20000.0	2143.1	20000.1	2139.3	20045.2
GR	2147.7	20151.8	2145.6	20179.6	2147.0	20312.2	2145.8	20372.1	2147.4	20785.0
GR	2147.7	22058.8	2147.7	23490.5	2147.3	24918.0	2150.8	26168.7	2152.5	26741.6

ET			9.1						19975	23905
X1	8.631	31	19974.8	20163.2	650	300	650			
GR	2152.0	17445.6	2159.3	17506.1	2152.2	17539.6	2151.6	17577.5	2153.5	17630.2
GR	2151.1	17888.4	2148.3	18412.0	2143.5	18509.1	2153.1	18616.9	2148.3	18665.4
GR	2148.3	18917.3	2148.7	18917.4	2149.2	19202.3	2148.1	19930.9	2151.6	19951.8
GR	2152.0	19974.8	2147.4	19985.1	2147.1	20000.0	2146.6	20000.1	2145.6	20042.9
GR	2143.8	20056.5	2143.8	20099.9	2151.9	20163.2	2146.3	20182.7	2148.7	20602.1
GR	2149.0	21993.7	2149.6	23363.5	2148.6	24780.7	2150.3	25607.5	2151.0	26186.6
GR	2151.9	26316.5								

ET			9.1						19970	23740
X1	8.749	36	19970.4	20165.0	630	265	625			
GR	2158.1	17725.5	2158.1	17748.5	2158.1	17768.5	2158.1	17803.6	2158.1	17838.8
GR	2150.8	17867.2	2149.5	17889.4	2151.7	17944.4	2150.1	18167.1	2147.6	18200.6
GR	2153.9	18239.2	2149.4	18263.2	2149.7	18941.4	2150.5	18941.5	2150.5	19163.8
GR	2148.2	19171.4	2148.3	19934.6	2153.1	19970.4	2148.0	19989.4	2148.0	20000.0
GR	2147.9	20000.1	2147.2	20041.7	2143.6	20074.2	2148.5	20117.0	2154.6	20165.0
GR	2150.1	20176.8	2149.4	20523.5	2152.3	20534.6	2152.3	20563.7	2149.8	20574.8
GR	2150.4	22107.4	2150.4	23254.9	2149.4	24601.8	2150.3	25098.3	2151.3	25984.6
GR	2152.0	26026.1								

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ET                      9.1                                                     19957     23627
X1   8.865        36  19957.3  20149.5     660     280     610
GR  2157.9   18019.0   2157.9  18043.1  2157.9  18102.9  2149.6  18137.2  2149.6  18194.3
GR  2148.2   18249.1   2156.8  18296.4  2149.4  18337.4  2149.6  18467.3  2156.4  18526.0
GR  2151.1   18556.6   2149.8  18713.6  2151.6  18964.8  2150.8  18964.9  2149.7  19220.5
GR  2152.4   19240.7   2151.7  19937.4  2155.3  19957.3  2149.7  20000.0  2149.9  20000.1
GR  2146.6   20039.8   2144.0  20061.1  2149.8  20098.5  2151.6  20128.1  2155.1  20149.5
GR  2151.0   20160.9   2151.9  20376.0  2151.8  20659.8  2149.9  21833.0  2151.4  21845.7
GR  2151.4   23165.7   2150.6  24042.7  2150.3  24503.2  2150.8  25328.2  2151.5  25854.0
GR  2152.1   25854.2

QT       2      16900     16900
ET                      9.1                                                     19965     23565
X1   8.974        29  19964.7  20150.4     610     290     580
GR  2158.3   18246.0   2158.3  18312.4  2158.3  18342.1  2156.3  18382.9  2151.1  18409.2
GR  2153.3   18422.3   2152.4  18719.0  2152.6  18991.7  2152.0  18991.8  2151.9  19430.2
GR  2152.0   19942.6   2156.6  19964.7  2150.2  20000.0  2150.6  20000.1  2146.7  20021.9
GR  2152.3   20116.0   2157.4  20150.4  2152.5  20158.4  2152.4  20593.8  2152.7  21834.5
GR  2152.5   22546.3   2152.4  23573.0  2151.3  24385.9  2149.3  24394.0  2150.4  24429.0
GR  2151.5   25401.5   2153.7  26303.0  2155.4  27075.6  2155.8  27170.7

NC    .050
ET                      9.1                                                     19963     23463
X1   9.071        25  19963.0  20152.7     510     480     510
GR  2157.9   18411.9   2157.9  18447.5  2157.9  18485.8  2153.3  18510.0  2154.0  18999.3
GR  2153.1   18999.4   2154.1  19711.6  2154.1  19940.5  2157.4  19963.0  2153.5  19979.4
GR  2153.5   20000.0   2153.0  20000.1  2152.1  20036.4  2149.9  20051.3  2151.6  20095.3
GR  2158.2   20152.7   2155.0  20159.0  2154.9  20187.0  2153.4  20195.7  2153.7  20557.4
GR  2152.8   21823.3   2154.3  23123.8  2152.6  24439.7  2154.3  25745.1  2155.1  25905.0

ET                      9.1                                                     19960     23460
X1   9.164        33  19959.6  20143.7     490     480     490
GR  2160.1   18569.2   2160.1  18615.6  2154.7  18641.9  2155.0  19005.8  2154.9  19005.9
GR  2155.7   19344.0   2157.6  19368.9  2157.1  19563.8  2155.0  19575.3  2155.0  19605.0
GR  2155.9   19619.2   2155.2  19932.5  2162.3  19959.6  2154.7  19987.0  2154.4  20000.0
GR  2154.5   20000.1   2153.9  20031.9  2151.2  20051.2  2153.7  20081.6  2155.1  20111.1
GR  2160.3   20143.7   2155.1  20151.6  2155.6  20355.5  2155.8  20567.5  2154.6  21821.3
GR  2155.8   23120.4   2154.5  23848.9  2154.8  24418.8  2156.4  25591.7  2156.2  25591.8
GR  2156.4   25820.5   2157.9  26776.0  2158.0  26930.7

ET                      9.1                                                     19908     23408
X1   9.258        27  19907.8  20087.1     500     480     500
GR  2160.9   18625.7   2160.9  18655.5  2160.9  18697.1  2155.3  18721.8  2156.5  18810.3
GR  2156.6   18967.3   2156.0  18967.4  2157.0  19158.0  2156.8  19496.5  2157.3  19648.3
GR  2157.6   19885.0   2162.5  19907.8  2156.7  19935.7  2152.7  20000.0  2162.7  20087.1
GR  2156.9   20103.6   2157.1  20349.3  2157.2  20526.8  2157.3  21113.7  2156.9  21113.8
GR  2156.2   21765.7   2156.8  22370.7  2157.3  23053.5  2156.6  23949.6  2155.9  24351.8
GR  2159.1   25668.4   2160.9  26223.3
```

ET			9.1						19959	23459
X1	9.349	20	19958.5	20137.9	500	330	480			
GR	2162.4	18842.7	2162.4	18865.0	2162.4	18893.9	2158.4	18916.5	2158.4	19025.8
GR	2158.4	19025.9	2158.4	19585.5	2159.7	19940.7	2163.3	19958.5	2157.1	20000.0
GR	2158.1	20000.1	2154.9	20050.7	2162.2	20137.9	2157.6	20153.0	2159.3	20520.5
GR	2157.7	21805.0	2158.4	23093.1	2156.6	24341.9	2159.2	25714.2	2159.8	25870.5
ET			9.1						19961	23461
X1	9.444	23	19961.2	20132.5	510	340	500			
GR	2164.3	18971.1	2164.3	19007.7	2164.3	19032.2	2162.0	19032.3	2165.2	19051.7
GR	2154.5	19110.1	2159.9	19146.9	2160.9	19594.7	2161.0	19935.4	2166.1	19961.2
GR	2159.9	19982.0	2159.8	20000.0	2159.5	20000.1	2156.8	20048.9	2164.0	20132.5
GR	2159.9	20153.4	2160.7	20534.2	2159.0	21797.9	2159.1	23090.2	2157.5	24361.9
GR	2159.1	25696.6	2159.3	25790.9	2162.8	26181				
ET			9.1						19980	23380
X1	9.589	17	19979.8	20159.5	765	770	765			
GR	2168.0	19221.3	2168.0	19276.3	2162.6	19337.1	2163.7	19448.8	2162.1	19947.4
GR	2165.7	19979.8	2163.3	20000.0	2161.3	20000.1	2160.7	20124.9	2164.5	20159.5
GR	2161.3	20172.3	2161.5	20891.5	2161.9	21760.7	2161.7	22627.0	2162.1	23512.4
GR	2162.0	24355.6	2163.1	25596.1						
ET			9.1						20000	23300
X1	9.682	21	20000.0	20186.2	490	500	490			
GR	2169.7	19362.4	2169.7	19387.6	2169.7	19411.8	2169.7	19455.7	2163.4	19479.3
GR	2163.6	19502.8	2165.4	19527.1	2163.8	19826.5	2163.8	19960.6	2167.4	20000.0
GR	2166.6	20000.1	2161.7	20044.7	2161.4	20140.3	2165.5	20186.2	2162.8	20197.6
GR	2162.9	20902.3	2163.4	21775.6	2163.4	22653.6	2163.5	23530.8	2163.4	24365.5
GR	2165.1	25724.6								
ET			9.1						20021	23221
X1	9.773	19	20020.5	20211.2	485	475	480			
GR	2171.4	19529.3	2171.4	19572.6	2171.4	19597.7	2165.9	19614.7	2165.0	19998.4
GR	2166.1	20000.0	2164.8	20000.1	2169.8	20020.5	2162.5	20057.3	2162.9	20162.9
GR	2167.4	20211.2	2163.9	20219.7	2164.6	20916.0	2164.9	21800.0	2165.4	22672.8
GR	2165.1	23551.4	2165.7	24389.4	2169.2	25768.8	2169.3	25835.9		
ET			9.1						20012	23112
X1	9.871	19	20011.5	20188.1	520	515	520			
GR	2171.6	19619.8	2171.6	19649.4	2171.6	19694.2	2165.6	19727.0	2166.6	19978.4
GR	2170.2	20000.0	2170.2	20000.1	2171.4	20011.5	2164.8	20032.1	2163.9	20133.2
GR	2168.9	20188.1	2166.1	20199.4	2166.0	20909.8	2166.8	21773.5	2166.8	22654.6
GR	2167.3	23537.6	2167.8	24373.8	2170.2	25744.2	2171.6	26428.4		
NC	.040									
ET			9.1						19974	22974
X1	9.965	20	19974.4	20161.6	500	490	495			
GR	2173.4	19735.0	2173.4	19752.6	2173.4	19787.9	2167.0	19825.2	2169.2	19945.1
GR	2172.4	19974.4	2168.4	19997.2	2168.1	19997.3	2168.1	20000.0	2165.2	20054.2
GR	2165.9	20134.4	2169.8	20161.6	2167.0	20175.0	2167.6	20851.2	2168.2	21749.0
GR	2168.4	22613.7	2168.8	23490.9	2169.4	24327.0	2172.4	25702.7	2172.4	25828.2

ET			9.1						19963	22913
X1	10.055	19	19963.4	20131.7	475	450	475			
GR	2174.9	19792.3	2174.9	19842.9	2169.0	19879.4	2170.8	19896.0	2169.0	19904.9
GR	2169.2	19946.0	2173.8	19963.4	2169.0	19990.1	2168.5	20000.0	2168.4	20000.1
GR	2167.6	20057.8	2167.9	20092.3	2173.8	20131.7	2169.5	20149.2	2170.4	21666.2
GR	2170.5	22541.9	2170.8	23420.2	2171.7	24253.2	2171.9	24934.5		
ET			9.1						19972	22922
X1	10.150	20	19971.6	20137.3	510	320	500			
GR	2176.7	19798.8	2176.7	19819.7	2176.7	19850.0	2171.2	19881.7	2172.8	19905.4
GR	2170.6	19931.2	2175.8	19971.6	2171.2	19984.9	2171.2	20000.0	2171.6	20000.1
GR	2168.5	20011.7	2168.5	20104.7	2173.9	20137.3	2170.8	20154.9	2171.2	21548.6
GR	2171.8	22428.1	2171.9	23303.6	2172.1	24145.4	2174.1	25523.3	2174.3	25686.7
ET			9.1						19979	22929
X1	10.241	20	19978.6	20176.6	490	340	485			
GR	2178.3	19795.9	2178.3	19824.1	2178.3	19859.6	2171.4	19897.6	2171.6	19938.9
GR	2177.6	19978.6	2173.2	19989.2	2173.2	20000.0	2173.2	20000.1	2173.3	20019.1
GR	2171.2	20030.3	2171.7	20140.8	2175.7	20176.6	2172.6	20193.1	2172.2	21435.3
GR	2172.6	22316.0	2172.8	23204.9	2173.5	24050.5	2174.6	25436.7	2174.8	25517.4
ET			9.1						19959	22909
X1	10.337	22	19958.7	20146.7	500	335	505			
GR	2179.3	19787.3	2179.3	19813.4	2179.3	19833.4	2173.0	19872.3	2175.7	19911.3
GR	2176.0	19935.7	2178.7	19958.7	2175.6	19969.4	2175.6	19992.4	2173.8	20000.0
GR	2173.0	20000.1	2173.9	20038.1	2174.2	20111.4	2177.5	20146.7	2173.8	20170.8
GR	2173.8	21298.0	2173.9	22193.3	2174.6	23081.9	2172.4	23093.9	2173.9	23936.3
GR	2175.9	25341.0	2175.9	25495.5						
ET			9.1						19950	22900
X1	10.430	21	19950.1	20131.8	505	330	490			
GR	2180.6	19773.8	2180.6	19798.6	2180.6	19831.9	2175.4	19858.5	2175.2	19911.6
GR	2180.9	19950.1	2177.5	19966.6	2177.5	19988.4	2175.6	20000.0	2174.8	20000.1
GR	2175.1	20092.1	2179.6	20131.8	2175.8	20150.1	2175.6	21172.9	2175.7	22082.3
GR	2175.0	22983.0	2173.2	23010.7	2175.0	23865.7	2176.3	25285.2	2176.3	25450.2
GR	2177.6	26045								
ET			9.1						19962	22912
X1	10.525	24	19961.8	20293.0	500	505	500			
GR	2183.1	19775.8	2183.1	19807.5	2183.1	19833.6	2178.0	19853.5	2178.0	19910.8
GR	2181.9	19961.8	2177.9	20000.0	2178.3	20000.1	2175.5	20041.8	2180.9	20064.2
GR	2177.5	20075.9	2175.8	20227.5	2184.8	20293.0	2179.0	20316.2	2178.5	20389.3
GR	2177.5	21039.3	2177.7	21948.3	2177.7	22849.9	2175.2	22862.9	2176.4	23685.6
GR	2180.5	23708.6	2176.6	23741.3	2177.7	25147.5	2178.6	25431.6		
ET			9.1						19978	22928
X1	10.621	33	19977.9	20057.2	510	495	510			
GR	2184.7	19771.3	2184.7	19800.4	2184.7	19825.0	2179.2	19850.8	2179.2	19889.7
GR	2180.0	19903.0	2180.1	19960.1	2182.9	19977.9	2179.3	20000.0	2177.9	20000.1
GR	2176.6	20012.8	2182.2	20057.2	2179.6	20068.1	2180.4	20271.5	2179.8	20271.6
GR	2179.9	20533.3	2179.8	20904.9	2184.0	20963.8	2178.9	20986.9	2179.1	21045.6
GR	2187.2	21163.8	2175.6	21351.0	2186.3	21551.4	2179.6	21621.0	2178.7	22437.9
GR	2179.5	22706.0	2177.2	22727.3	2177.6	23543.5	2180.4	23562.7	2177.9	23579.2

GR	2179.4	24186.6	2180.4	25012.1	2180.5	25107.2				
ET			9.1						19993	22843
X1	10.714	30	19992.5	20060.2	490	490	490			
GR	2187.4	19773.6	2187.4	19830.6	2181.0	19852.8	2180.1	19879.7	2182.6	19921.2
GR	2180.8	19951.3	2184.4	19992.5	2181.9	20000.0	2183.1	20000.1	2177.6	20024.9
GR	2184.3	20060.2	2181.5	20071.5	2181.3	22062.2	2180.8	22062.3	2181.2	22137.1
GR	2182.8	22160.9	2180.7	22182.6	2181.7	22504.3	2187.1	22602.2	2175.8	22698.7
GR	2175.8	22869.0	2186.7	22962.6	2177.4	23186.3	2186.3	23368.6	2180.4	23454.0
GR	2181.1	23826.2	2182.9	23860.6	2181.3	23908.5	2181.3	24624.8	2183.0	24885
ET			9.1						19985	22735
X1	10.808	24	19984.7	20047.0	495	510	495			
GR	2188.1	19774.2	2188.1	19817.4	2181.5	19855.6	2183.2	19896.9	2183.2	19960.1
GR	2186.2	19984.7	2182.0	20000.0	2181.0	20000.1	2180.4	20025.1	2187.4	20047.0
GR	2183.3	20058.8	2184.9	20651.9	2183.1	20660.8	2182.9	22008.2	2182.9	23413.7
GR	2183.0	23938.8	2183.4	23938.9	2184.8	24268.8	2185.3	24378.5	2189.4	24431.4
GR	2176.5	24546.2	2176.9	24670.7	2181.2	24691.0	2184.0	24941		
ET			9.1						19987	22637
X1	10.903	22	19986.5	20049.3	505	495	505			
GR	2189.8	19752.4	2189.8	19781.9	2189.8	19811.8	2183.9	19839.5	2183.9	19876.8
GR	2185.0	19897.2	2184.6	19964.7	2188.5	19986.5	2185.2	20000.0	2181.1	20000.1
GR	2180.0	20019.3	2187.3	20049.3	2184.3	20059.9	2185.2	20529.7	2184.8	21557.9
GR	2184.4	22206.0	2185.0	23214.4	2185.8	24590.7	2187.7	24602.9	2187.7	24635.5
GR	2185.6	24641.0	2186.9	24961						
ET			9.1						19995	22545
X1	10.998	19	19994.9	20051.0	505	500	500			
GR	2191.8	19783.6	2191.8	19814.4	2185.0	19842.2	2185.5	19893.5	2186.4	19978.5
GR	2188.8	19994.9	2186.5	20000.0	2185.2	20000.1	2183.0	20015.2	2188.4	20051.0
GR	2186.5	20056.6	2186.8	20363.1	2188.4	20374.4	2186.2	20382.1	2186.2	21030.5
GR	2186.9	21749.6	2187.0	23089.3	2188.9	24492.7	2188.4	24674.6		
ET			9.1						19983	22533
X1	11.094	17	19983.1	20038.1	500	505	505			
GR	2193.4	19752.0	2193.4	19774.7	2193.4	19807.8	2187.2	19833.8	2187.2	19874.1
GR	2188.5	19917.9	2188.5	19958.2	2191.3	19983.1	2185.9	20000.0	2183.7	20000.1
GR	2188.8	20038.1	2189.3	21026.1	2189.1	21603.3	2187.8	22922.1	2189.3	22935.7
GR	2190.9	24349.7	2190.9	24670.5						
ET			9.1						19986	22536
X1	11.189	19	19986.3	20046.0	500	505	505			
GR	2195.6	19779.4	2195.6	19815.2	2188.8	19838.1	2189.0	19886.2	2191.1	19908.7
GR	2188.0	19932.0	2188.5	19956.1	2192.7	19986.3	2188.4	20000.0	2187.7	20000.1
GR	2186.0	20020.8	2191.2	20046.0	2191.3	21473.5	2192.9	22822.3	2191.6	22960.8
GR	2192.5	24193.9	2194.4	24208.9	2192.7	24223.7	2193.1	24656.1		
ET			9.1						19980	22530
X1	11.280	17	19979.6	20057.6	485	495	480			
GR	2197.1	19795.0	2197.1	19809.7	2190.5	19840.3	2191.1	19876.8	2192.5	19916.8
GR	2190.2	19929.3	2191.3	19956.2	2195.0	19979.6	2191.7	20000.0	2189.9	20000.1
GR	2188.3	20009.6	2188.5	20036.7	2191.9	20057.6	2192.9	21339.5	2194.8	22682.1
GR	2195.7	24087.1	2196.1	24656.8						

ET			9.1						19971	22521
X1	11.378	15	19970.7	20049.2	515	490	515			
GR	2197.8	19763.6	2197.8	19806.0	2192.7	19830.9	2193.0	19876.5	2193.9	19929.2
GR	2197.5	19970.7	2192.2	20000.0	2190.2	20000.1	2190.2	20025.9	2194.0	20049.2
GR	2195.4	21194.6	2196.4	22543.8	2197.7	22861.8	2197.7	23955.4	2198.0	24689.2

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T1      METHOD 1
T2      FLOODWAY ANALYSIS
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                                  2109.55

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                  -1
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THIS RUN EXECUTED 5/17/90 9:11:50

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE: AGUILA.FW1 AGU

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	5.911	2108.80	4.20	2104.60	2.21	21700.00	3366.55	.00	19985.12	25354.76
	5.911	2109.55	4.95	2104.60	2.97	21700.00	7175.22	.00	20146.31	23310.00
	6.005	2109.93	4.73	2105.20	2.11	21700.00	3374.70	490.00	19985.74	25729.64
	6.005	2110.75	5.55	2105.20	3.08	21700.00	7729.03	490.00	20143.65	23305.00
	6.143	2113.41	5.11	2108.30	3.07	21700.00	1501.05	730.00	19137.61	25672.33
	6.143	2113.95	5.65	2108.30	3.34	21700.00	2164.78	730.00	19690.00	23090.00
	6.258	2116.13	5.53	2110.60	5.41	21700.00	1696.88	605.00	18544.38	26108.16
	6.258	2116.72	6.12	2110.60	6.14	21700.00	2161.55	605.00	19835.00	23535.00
	6.418	2119.21	5.41	2113.80	5.87	19300.00	1390.26	845.00	18811.98	25978.62
	6.418	2120.17	6.37	2113.80	5.56	19300.00	1612.93	845.00	19955.00	24055.00
*	6.489	2120.03	4.73	2115.30	3.93	19300.00	945.04	375.00	18755.04	26597.13
	6.489	2121.01	5.71	2115.30	4.35	19300.00	1282.41	375.00	19975.00	24175.00
*	6.608	2121.16	4.86	2116.30	4.49	19300.00	1420.01	630.00	18974.08	26757.19
	6.608	2122.00	5.70	2116.30	4.08	19300.00	1648.45	630.00	19955.00	24715.00
	6.736	2122.56	6.46	2116.10	4.81	19300.00	1581.83	675.00	18662.25	26885.83
*	6.736	2123.14	7.04	2116.10	5.81	19300.00	2260.69	675.00	19904.84	24943.06
	6.831	2123.91	4.61	2119.30	6.43	19300.00	1856.31	505.00	18594.96	27057.17
	6.831	2124.40	5.10	2119.30	5.35	19300.00	1795.43	505.00	19912.36	25363.00
	6.958	2125.45	6.15	2119.30	6.84	19300.00	2244.11	670.00	19038.76	26890.33
*	6.958	2125.67	6.37	2119.30	8.57	19300.00	2979.03	670.00	19922.15	25519.00
	7.085	2126.57	4.97	2121.60	3.97	19300.00	926.65	670.00	19720.60	27029.79
*	7.085	2127.16	5.56	2121.60	4.64	19300.00	1337.03	670.00	19941.38	25643.00

	SECND	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	7.225	2127.49	2.69	2124.80	4.88	19300.00	408.99	740.00	19968.54	27219.25
*	7.225	2128.36	3.56	2124.80	7.73	19300.00	976.90	740.00	19964.66	25584.00
	7.313	2129.11	3.41	2125.70	4.84	19300.00	830.58	465.00	19970.92	27242.38
*	7.313	2130.11	4.41	2125.70	4.52	19300.00	1075.21	465.00	19966.63	25520.00
	7.427	2131.08	3.98	2127.10	6.28	19300.00	1257.74	600.00	20006.15	26984.25
*	7.427	2131.73	4.63	2127.10	8.66	19300.00	2231.25	600.00	19999.35	25278.00
*	7.522	2132.57	2.77	2129.80	3.15	19300.00	323.05	500.00	19995.34	26680.63
*	7.522	2133.55	3.75	2129.80	3.55	19300.00	586.27	500.00	19989.27	25136.00
*	7.617	2134.09	3.09	2131.00	6.31	19300.00	895.17	505.00	19997.89	26839.04
*	7.617	2134.81	3.81	2131.00	6.09	19300.00	1170.04	505.00	19992.59	25000.00
*	7.711	2135.87	4.07	2131.80	4.51	19300.00	788.62	495.00	19909.23	26926.27
*	7.711	2136.22	4.42	2131.80	4.41	19300.00	872.59	495.00	20000.00	24990.00
	7.805	2137.33	4.83	2132.50	7.29	19300.00	1886.85	495.00	19759.22	26629.29
*	7.805	2137.64	5.14	2132.50	8.97	19300.00	2524.50	495.00	20000.00	24970.00
	7.900	2138.88	6.68	2132.20	4.25	19300.00	1569.16	505.00	19801.43	27281.96
*	7.900	2139.42	7.22	2132.20	5.77	19300.00	1869.68	505.00	19983.00	24938.00
	8.000	2140.18	7.58	2132.60	8.08	19300.00	4279.18	525.00	19665.09	26260.70
*	8.000	2140.66	8.06	2132.60	9.36	19300.00	5511.13	525.00	19974.00	24859.00
	8.097	2142.08	9.08	2133.00	7.59	19300.00	3576.06	515.00	19326.62	25096.49
*	8.097	2142.60	9.60	2133.00	6.74	19300.00	3553.47	515.00	20000.00	24670.00
	8.196	2143.71	8.81	2134.90	7.57	19300.00	4065.48	520.00	18839.71	25712.19
	8.196	2143.93	9.03	2134.90	8.24	19300.00	4625.93	520.00	20000.03	24466.00
	8.300	2145.37	8.47	2136.90	6.91	19300.00	3003.79	550.00	18706.53	25391.15
	8.300	2145.67	8.77	2136.90	6.83	19300.00	3188.11	550.00	19973.04	24304.00
	8.399	2146.82	8.62	2138.20	6.90	19300.00	2658.44	520.00	18580.69	25174.18
	8.399	2147.09	8.89	2138.20	7.44	19300.00	3043.46	520.00	19986.00	24196.00
	8.508	2148.15	8.85	2139.30	7.68	19300.00	6990.57	575.00	18467.09	25222.04
*	8.508	2148.51	9.21	2139.30	8.77	19300.00	8609.08	575.00	19952.35	24078.00
	8.631	2149.81	6.31	2143.50	6.42	19300.00	4338.32	650.00	18128.81	25371.32
	8.631	2150.27	6.77	2143.50	7.41	19300.00	5585.72	650.00	19978.67	23905.00
	8.749	2150.97	7.37	2143.60	5.29	19300.00	3200.11	625.00	17866.56	25686.21
	8.749	2151.53	7.93	2143.60	8.07	19300.00	5625.05	625.00	19976.24	23740.00
	8.865	2152.00	8.00	2144.00	5.90	19300.00	3193.22	610.00	18127.30	25854.16
	8.865	2152.84	8.84	2144.00	6.51	19300.00	4374.79	610.00	19976.02	23627.00

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	8.974	2153.05	6.35	2146.70	5.55	16900.00	2524.66	580.00	18399.33	26037.58
	8.974	2153.88	7.18	2146.70	7.33	16900.00	4191.97	580.00	19979.72	23565.00
	9.071	2154.50	4.60	2149.90	5.12	16900.00	1778.07	510.00	18503.70	25784.62
	9.071	2155.32	5.42	2149.90	4.53	16900.00	2130.38	510.00	19971.76	23463.00
	9.164	2156.24	5.04	2151.20	5.61	16900.00	1876.78	490.00	18634.46	25622.52
*	9.164	2156.63	5.43	2151.20	6.74	16900.00	2631.63	490.00	19980.04	23460.00
	9.258	2157.93	5.23	2152.70	5.52	16900.00	1826.25	500.00	18710.18	25189.09
	9.258	2158.48	5.78	2152.70	5.83	16900.00	2311.07	500.00	19927.13	23408.00
	9.349	2159.10	4.20	2154.90	4.85	16900.00	1217.28	480.00	18912.53	25662.91
	9.349	2159.70	4.80	2154.90	6.13	16900.00	1979.21	480.00	19982.56	23459.00
	9.444	2160.11	5.61	2154.50	3.18	16900.00	521.94	500.00	19079.47	25881.43
	9.444	2161.07	6.57	2154.50	4.74	16900.00	1291.55	500.00	19978.08	23461.00
*	9.589	2162.86	2.16	2160.70	5.82	16900.00	1472.69	765.00	19334.21	25321.63
	9.589	2163.38	2.68	2160.70	4.47	16900.00	1478.91	765.00	19999.27	23380.00
*	9.682	2164.73	3.33	2161.40	4.33	16900.00	1772.34	490.00	19474.29	25433.62
	9.682	2164.85	3.45	2161.40	5.22	16900.00	2226.64	490.00	20016.06	23300.00
*	9.773	2166.10	3.60	2162.50	6.69	16900.00	2993.48	480.00	19614.07	24548.36
	9.773	2166.38	3.88	2162.50	6.14	16900.00	3013.99	480.00	20037.75	23221.00
	9.871	2168.03	4.13	2163.90	5.61	16900.00	2700.71	520.00	19713.73	24503.73
	9.871	2168.13	4.23	2163.90	6.03	16900.00	2997.53	520.00	20021.71	23112.00
	9.965	2169.48	4.28	2165.20	5.85	16900.00	3049.36	495.00	19810.73	24364.95
	9.965	2169.63	4.43	2165.20	5.76	16900.00	3150.84	495.00	19990.16	22974.00
*	10.055	2171.38	3.78	2167.60	8.35	16900.00	3367.90	475.00	19864.65	23960.99
*	10.055	2171.45	3.85	2167.60	8.73	16900.00	3601.42	475.00	19976.46	22913.00
*	10.150	2172.95	4.45	2168.50	5.49	16900.00	2945.79	500.00	19871.67	24723.67
*	10.150	2173.10	4.60	2168.50	5.75	16900.00	3229.56	500.00	19979.40	22922.00
	10.241	2173.99	2.79	2171.20	4.69	16900.00	1625.57	485.00	19883.35	24664.85
	10.241	2174.17	2.97	2171.20	4.96	16900.00	1878.24	485.00	19986.86	22929.00
	10.337	2175.21	2.81	2172.40	3.30	16900.00	534.55	505.00	19858.64	24857.79
	10.337	2175.57	3.17	2172.40	4.48	16900.00	935.17	505.00	19992.53	22909.00
	10.430	2176.43	3.23	2173.20	3.84	16900.00	561.72	490.00	19853.22	25510.74
	10.430	2177.17	3.97	2173.20	5.39	16900.00	1248.90	490.00	19990.37	22900.00
	10.525	2178.34	3.14	2175.20	3.95	16900.00	1418.55	500.00	19852.16	25350.54
	10.525	2179.34	4.14	2175.20	5.36	16900.00	3224.56	500.00	19986.23	22912.00

	SECND	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	10.621	2180.09	4.49	2175.60	4.48	16900.00	388.41	510.00	19846.59	24761.79
	10.621	2181.08	5.48	2175.60	4.83	16900.00	670.99	510.00	19989.00	22928.00
	10.714	2181.93	6.13	2175.80	5.24	16900.00	481.27	490.00	19849.56	24721.92
	10.714	2182.65	6.85	2175.80	5.02	16900.00	631.40	490.00	19997.74	22843.00
	10.808	2183.87	7.37	2176.50	5.07	16900.00	531.80	495.00	19841.85	24929.93
	10.808	2184.75	8.25	2176.50	7.39	16900.00	1070.03	495.00	19989.99	22735.00
	10.903	2186.00	6.00	2180.00	8.80	16900.00	1587.14	505.00	19829.63	24740.29
*	10.903	2186.72	6.72	2180.00	6.27	16900.00	1360.96	505.00	19993.74	22637.00
	10.998	2188.23	5.23	2183.00	5.51	16900.00	867.24	500.00	19828.94	24008.67
	10.998	2188.38	5.38	2183.00	6.48	16900.00	1066.34	500.00	19995.84	22545.00
	11.094	2190.17	6.47	2183.70	7.89	16900.00	1403.27	505.00	19821.35	23702.79
	11.094	2190.61	6.91	2183.70	8.07	16900.00	1617.81	505.00	19985.29	22533.00
	11.189	2192.74	6.74	2186.00	9.39	16900.00	2408.48	505.00	19824.85	24261.43
	11.189	2193.07	7.07	2186.00	9.83	16900.00	2721.61	505.00	19986.00	22536.00
*	11.280	2194.73	6.43	2188.30	6.98	16900.00	2432.40	480.00	19820.68	22634.14
*	11.280	2194.98	6.68	2188.30	6.73	16900.00	2471.95	480.00	19980.00	22530.00
*	11.378	2196.51	6.31	2190.20	10.45	16900.00	3316.52	515.00	19812.29	22570.91
*	11.378	2196.62	6.42	2190.20	11.08	16900.00	3612.33	515.00	19975.53	22521.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     6.489  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.608  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.736  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.958  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.085  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.225  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.225  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.313  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.427  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.522  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.522  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.617  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.617  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.711  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.711  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.805  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.900  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.097  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     8.508  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     8.508  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     9.164  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.589  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.682  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.773  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    10.055  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    10.055  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    10.150  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    10.150  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    10.903  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    11.280  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    11.280  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    11.378  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    11.378  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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FLOODWAY DATA, URS FILE: AGUILA.FW1 AGU
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
5.911	3164.	6689.	3.2	2109.6	2108.8	.8
6.005	3161.	6957.	3.1	2110.7	2109.9	.8
6.143	3400.	6868.	3.2	2113.9	2113.4	.5
6.258	3700.	6488.	3.3	2116.7	2116.1	.6
6.418	4100.	7786.	2.5	2120.2	2119.2	1.0
6.489	4200.	9271.	2.1	2121.0	2120.0	1.0
6.608	4760.	9364.	2.1	2122.0	2121.2	.8
6.736	5038.	6982.	2.8	2123.1	2122.6	.5
6.831	5451.	7645.	2.5	2124.4	2123.9	.5
6.958	5597.	6007.	3.2	2125.7	2125.4	.3
7.085	5702.	7521.	2.6	2127.2	2126.6	.6
7.225	5619.	4277.	4.5	2128.4	2127.5	.9
7.313	5553.	7896.	2.4	2130.1	2129.1	1.0
7.427	5279.	4126.	4.7	2131.7	2131.1	.6
7.522	5147.	7338.	2.6	2133.5	2132.6	.9
7.617	5007.	6028.	3.2	2134.8	2134.1	.7
7.711	4990.	7977.	2.4	2136.2	2135.9	.3
7.805	4970.	5504.	3.5	2137.6	2137.3	.3
7.900	4955.	7559.	2.6	2139.4	2138.9	.5
8.000	4885.	4598.	4.2	2140.7	2140.2	.5
8.097	4670.	6750.	2.9	2142.6	2142.1	.5
8.196	4466.	5851.	3.3	2143.9	2143.7	.2
8.300	4331.	6480.	3.0	2145.7	2145.4	.3
8.399	4210.	6236.	3.1	2147.1	2146.8	.3
8.508	4126.	5149.	3.7	2148.5	2148.1	.4
8.631	3926.	5722.	3.4	2150.3	2149.8	.5
8.749	3764.	5460.	3.5	2151.5	2151.0	.5
8.865	3651.	6299.	3.1	2152.8	2152.0	.8
8.974	3585.	5203.	3.2	2153.9	2153.0	.9
9.071	3491.	6467.	2.6	2155.3	2154.5	.8
9.164	3480.	4887.	3.5	2156.6	2156.2	.4
9.258	3481.	5630.	3.0	2158.5	2157.9	.6
9.349	3476.	5045.	3.4	2159.7	2159.1	.6
9.444	3483.	5533.	3.1	2161.1	2160.1	1.0
9.589	3381.	5753.	2.9	2163.4	2162.9	.5
9.682	3284.	5507.	3.1	2164.8	2164.7	.1
9.773	3183.	5079.	3.3	2166.4	2166.1	.3
9.871	3090.	5190.	3.3	2168.1	2168.0	.1
9.965	2984.	5270.	3.2	2169.6	2169.5	.1
10.055	2937.	3905.	4.3	2171.5	2171.4	.1
10.150	2943.	5544.	3.0	2173.1	2172.9	.2
10.241	2942.	5070.	3.3	2174.2	2174.0	.2

FLOODWAY DATA, URS FILE: AGUILA.FW1 AGU
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
10.337	2916.	4748.	3.6	2175.6	2175.2	.4
10.430	2910.	4607.	3.7	2177.2	2176.4	.8
10.525	2926.	4821.	3.5	2179.3	2178.3	1.0
10.621	2939.	4813.	3.5	2181.1	2180.1	1.0
10.714	2845.	4449.	3.8	2182.6	2181.9	.7
10.808	2745.	4239.	4.0	2184.7	2183.9	.8
10.903	2643.	5268.	3.2	2186.7	2186.0	.7
10.998	2549.	4597.	3.7	2188.4	2188.2	.2
11.094	2548.	4362.	3.9	2190.6	2190.2	.4
11.189	2550.	4108.	4.1	2193.1	2192.7	.4
11.280	2550.	5142.	3.3	2195.0	2194.7	.3
11.378	2545.	3507.	4.8	2196.6	2196.5	.1

APPENDIX E

North Branch Upper Centennial Wash HEC-2 Multiple Profiles

THIS RUN EXECUTED 5/16/90 14:26: 7

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      NORTH BRANCH UPPER CENTENNIAL WASH MULTIPLE PROFILE ANALYSIS
T2      10-YEAR DISCHARGE
T3      URS FILE: UPCEN.MPL UPCEN.OUT

J1  ICHECK   INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0       2        0        0      .003       0        0        0    2116.61     0

J2  NFROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1       0       -1        1       40        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1        8       42       26       43       14       39       53       54

J5  LPRNT    NUMSEC                  ********REQUESTED SECTION NUMBERS********

   -10      -10

QT       3     1900     5410     6960
NC    .040     .040     .040       .1       .3
X1   6.638        8    19485    20480        0        0        0
GR  2120.0  17895.0   2118.1  17990.0   2116.0  19190.0   2116.0  19485.0   2115.8  20000.0
GR  2116.0  20480.0   2116.5  21555.0   2120.0  22550.0

X1   7.040       32  19821.2  21160.2     3000     1500     2120
GR  2123.1  16899.8   2121.2  17814.4   2121.9  17822.3   2122.1  17883.3   2124.6  17888.0
GR  2124.6  17917.0   2118.2  17928.1   2117.7  18021.6   2131.7  18072.7   2127.1  18103.6
GR  2123.9  18202.7   2120.6  18218.1   2120.2  18271.3   2119.6  18296.9   2119.4  19821.2
GR  2119.0  19821.3   2118.9  19992.3   2121.0  20000.0   2120.3  20000.1   2122.1  20013.5
GR  2122.6  20041.6   2115.1  20073.0   2115.9  20178.9   2121.1  20211.2   2118.1  20221.7
GR  2119.1  21160.2   2120.0  21802.3   2120.1  21985.7   2121.5  23078.8   2121.1  23078.9
GR  2121.1  23362.1   2121.9  24036.3

X1   7.307       15  20000.0  21268.0     1600     1250     1410
GR  2124.9  18432.3   2123.8  19278.4   2122.3  20000.0   2122.8  20000.1   2122.9  20383.2
GR  2123.0  21268.0   2123.9  22032.8   2124.0  22580.0   2124.7  22599.9   2124.9  23683.4
GR  2125.3  23683.5   2125.2  24082.8   2126.1  24813.6   2129.2  24831.3   2129.2  24867.6

X1   7.398       20  20000.0  21057.6      485      485      485
GR  2127.7  17932.4   2127.6  17992.1   2127.6  18052.0   2125.3  19248.5   2124.5  19596.6
GR  2125.9  19605.4   2125.6  19661.0   2125.2  19670.3   2123.8  20000.0   2124.7  20000.1
GR  2124.5  21057.6   2125.6  21900.7   2126.0  23007.7   2127.0  24029.8   2127.9  24029.9
GR  2128.1  24149.7   2129.3  24157.1   2129.4  24197.6   2127.7  24222.6   2128.6  24563.0
```

X1	7.492	16	19906.9	21222.2	490	495	495			
GR	2129.6	18103.7	2127.5	19001.4	2128.3	19024.4	2126.4	19906.9	2126.6	20000.0
GR	2126.9	20000.1	2126.8	21222.2	2127.0	22340.9	2128.9	23463.6	2129.8	23480.3
GR	2129.6	23564.3	2127.8	23586.3	2129.3	24421.0	2130.6	24421.1	2131.3	24519.3
GR	2131.3	24544.8								
X1	7.589	24	19850.7	20588.8	510	505	510			
GR	2132.0	18059.2	2132.2	18344.4	2130.4	18401.9	2130.8	18443.2	2130.1	19111.4
GR	2129.2	19699.6	2126.3	19787.0	2128.6	19850.7	2128.2	20000.0	2128.2	20000.1
GR	2127.5	20187.4	2125.4	20199.8	2125.6	20219.8	2135.9	20304.8	2129.4	20329.8
GR	2129.4	20573.6	2128.3	20588.8	2129.0	21670.9	2129.0	22751.9	2130.0	22776.8
GR	2129.9	23593.6	2131.3	23609.2	2130.4	23625.9	2132.4	24750.0		
X1	7.683	28	19838.5	21017.6	495	495	495			
GR	2134.3	17669.4	2132.5	18464.4	2131.1	19838.5	2131.9	19853.4	2131.6	19902.4
GR	2130.9	19912.2	2130.8	20000.0	2131.2	20000.1	2130.7	20551.9	2128.9	20578.3
GR	2128.8	20627.2	2136.0	20666.1	2131.4	20686.2	2131.0	21017.6	2130.9	22077.7
GR	2131.4	22098.0	2131.4	22142.1	2130.7	22151.1	2131.8	23797.5	2133.9	23964.2
GR	2134.5	23983.0	2133.2	24003.5	2133.3	24245.7	2135.2	24280.2	2135.2	24322.5
GR	2133.6	24350.7	2135.5	24443.6	2135.5	24538.8				
X1	7.772	24	20000.0	21031.3	475	475	475			
GR	2136.0	17550.8	2135.2	17757.5	2136.1	17771.6	2135.9	17806.9	2133.1	19180.9
GR	2134.5	19191.4	2134.1	19228.3	2133.0	19247.1	2132.1	20000.0	2132.5	20000.1
GR	2132.3	20897.6	2130.2	20911.9	2130.9	20953.9	2136.1	21009.8	2132.5	21031.3
GR	2132.9	21429.6	2134.1	21447.0	2134.0	21480.9	2133.2	21494.6	2132.6	22537.9
GR	2133.9	23603.1	2135.0	23620.6	2134.9	23950.4	2136.5	24448.3		
X1	7.869	21	20000.0	20794.6	510	505	510			
GR	2138.3	17761.8	2136.0	18116.6	2136.9	18159.2	2136.0	18169.2	2136.0	18477.8
GR	2137.2	18485.8	2136.6	18524.2	2135.2	18535.5	2133.7	20000.0	2133.8	20000.1
GR	2133.1	20715.3	2135.8	20740.3	2135.8	20789.2	2134.4	20794.6	2134.5	21363.2
GR	2136.2	21379.0	2134.4	21394.9	2134.2	21958.4	2134.8	22922.0	2135.7	22942.8
GR	2138.4	24459.5								
X1	7.962	19	20000.0	20807.3	490	490	490			
GR	2140.5	17415.5	2139.2	17829.1	2139.1	17829.2	2136.9	18513.0	2138.5	18522.2
GR	2136.5	18534.8	2135.5	20000.0	2135.4	20000.1	2135.4	20045.7	2136.9	20063.6
GR	2136.8	20807.3	2136.5	21723.2	2137.7	21740.7	2136.4	21751.1	2135.8	22255.5
GR	2136.7	22269.0	2137.6	22924.2	2140.9	24505.2	2141.0	24505.3		
X1	8.058	27	20000.0	21192.5	500	510	505			
GR	2142.0	17617.0	2141.9	17854.0	2141.2	18201.9	2141.2	18202.0	2139.0	18525.3
GR	2137.6	18867.7	2139.2	18877.9	2138.1	18890.9	2137.0	19351.9	2138.8	19366.9
GR	2138.9	19399.4	2137.5	19405.9	2136.8	20000.0	2137.8	20000.1	2137.6	21192.5
GR	2140.0	21204.7	2137.8	21222.3	2137.6	21527.2	2139.6	21547.7	2137.2	21600.2
GR	2136.8	21650.7	2137.9	21744.4	2138.7	22668.8	2141.0	23766.1	2143.5	23794.7
GR	2143.0	23879.2	2143.0	24206.2						

X1	8.150	33	20000.0	21060.0	495	490	490			
GR	2145.0	17816.8	2144.1	17995.6	2142.8	18161.7	2141.3	18183.6	2145.3	18250.1
GR	2142.1	18324.9	2141.6	18409.1	2141.9	18585.2	2141.6	18585.3	2140.3	18858.5
GR	2139.3	19053.0	2138.9	19231.6	2140.3	19251.8	2139.3	19258.7	2138.9	20000.0
GR	2139.4	20000.1	2138.2	20871.0	2140.7	20888.1	2139.2	20901.7	2139.2	20969.0
GR	2137.3	20987.2	2138.8	21060.0	2139.4	21440.8	2139.4	22066.6	2139.4	22465.3
GR	2140.8	22478.4	2140.7	22526.6	2141.7	23102.0	2143.6	23123.1	2143.6	23180.5
GR	2141.4	23198.7	2142.9	23240.5	2144.5	24112.7				
X1	9.247	32	20000.0	21129.5	510	515	510			
GR	2146.6	17733.7	2145.0	17967.4	2144.9	18127.3	2143.6	18146.0	2145.9	18179.8
GR	2143.9	18211.1	2144.8	18253.4	2143.4	18739.9	2142.3	18958.2	2142.4	18958.3
GR	2141.0	19275.9	2142.4	19314.8	2139.9	19374.4	2139.4	19529.0	2141.4	19609.7
GR	2140.0	19621.4	2139.6	20000.0	2140.9	20000.1	2140.9	20158.4	2142.5	20167.4
GR	2140.4	20184.1	2141.4	20267.4	2139.3	20279.2	2141.1	20329.5	2141.3	21129.5
GR	2141.6	22359.3	2143.7	22377.2	2143.7	22413.3	2141.6	22437.5	2142.7	22470.0
GR	2144.2	23124.1	2146.0	23685.1						
X1	8.340	26	20000.0	21133.7	485	490	490			
GR	2148.0	17756.0	2146.5	18053.5	2145.6	18330.7	2144.5	18588.1	2144.6	18773.8
GR	2145.3	18804.0	2144.2	18825.0	2143.6	19100.5	2142.6	19312.7	2142.7	19312.8
GR	2143.0	19407.6	2145.5	19445.3	2142.9	19464.3	2142.8	19855.4	2142.9	20000.0
GR	2142.9	20000.1	2142.0	20364.1	2142.0	20674.1	2141.9	21133.7	2142.6	21666.3
GR	2144.4	21691.7	2143.1	21722.8	2142.8	21766.8	2142.0	21799.5	2142.9	21852.9
GR	2146.3	23145.9								
X1	8.433	28	20000.0	21142.8	500	485	490			
GR	2148.8	17810.4	2148.3	18092.1	2146.6	18106.7	2148.6	18165.3	2148.4	18263.4
GR	2147.2	18297.1	2148.2	18371.8	2145.8	18814.8	2146.5	18832.4	2146.4	18858.8
GR	2144.9	18868.2	2144.7	18915.2	2145.6	18961.8	2145.4	19328.0	2144.5	19700.2
GR	2144.6	19700.3	2144.1	19833.4	2144.3	20000.0	2144.3	20000.1	2143.6	20498.5
GR	2143.5	20989.5	2144.6	21031.7	2144.5	21064.9	2142.7	21085.1	2143.8	21142.8
GR	2143.8	21442.8	2146.1	22312.6	2147.6	23024.0				
X1	8.531	25	20000.0	20736.2	510	525	520			
GR	2150.4	17775.6	2150.5	17998.3	2149.1	18104.6	2150.2	18150.4	2148.4	18159.2
GR	2148.7	18228.1	2147.5	19025.9	2146.4	20000.0	2146.1	20000.1	2145.9	20086.0
GR	2145.6	20086.1	2145.7	20284.6	2146.4	20314.2	2145.9	20350.6	2144.9	20367.1
GR	2145.0	20699.8	2146.1	20713.3	2145.1	20736.2	2145.3	21551.3	2148.3	22630.4
GR	2150.3	22640.4	2150.3	22685.9	2148.7	22703.2	2148.7	22734.3	2149.6	22773.6
X1	8.623	22	20000.0	21074.9	500	480	485			
GR	2152.0	17926.2	2150.3	18324.4	2149.6	18784.7	2148.7	19229.8	2148.3	19601.0
GR	2149.6	19626.6	2149.6	19665.2	2147.4	19676.8	2147.3	20000.0	2147.7	20000.1
GR	2147.0	20214.9	2146.6	20453.3	2146.4	20453.4	2146.5	21019.0	2147.6	21027.6
GR	2147.6	21072.2	2146.4	21074.9	2148.4	21954.0	2150.3	21978.6	2148.5	21995.0
GR	2149.9	22285.2	2151.2	22598.9						

X1	8.715	24	20000.0	20834.2	480	485	485			
GR	2154.2	17536.9	2153.7	17829.2	2153.2	18039.3	2150.6	18094.0	2153.0	18141.5
GR	2159.6	18168.5	2155.3	18195.9	2157.7	18226.7	2154.2	18240.3	2154.2	18259.5
GR	2152.7	18265.5	2150.9	18939.6	2153.0	18973.9	2150.0	18993.6	2148.9	19882.1
GR	2148.9	20000.0	2149.1	20000.1	2148.1	20343.0	2147.6	20834.1	2147.6	20834.2
GR	2147.8	21306.2	2149.6	21323.4	2149.8	21567.9	2152.6	22561.0		
X1	8.811	23	20000.0	20643.9	510	510	510			
GR	2156.9	17486.4	2156.2	17713.4	2154.8	18129.9	2153.6	18432.7	2153.6	18473.1
GR	2153.6	18507.7	2160.7	18546.8	2155.6	18570.5	2157.1	18604.6	2154.4	18626.9
GR	2153.0	18659.2	2151.7	19099.8	2150.4	20000.0	2150.3	20000.1	2149.8	20597.9
GR	2152.3	20631.4	2149.5	20643.9	2150.4	21207.3	2150.8	21207.4	2152.3	21761.6
GR	2154.1	22307.7	2154.9	22698.0	2156.1	22711.2				
X1	8.905	21	20000.0	20622.2	495	490	495			
GR	2155.8	18094.4	2154.9	18583.2	2153.9	18815.2	2153.9	18858.0	2153.9	18893.7
GR	2160.6	18920.7	2156.6	18938.5	2156.6	18973.0	2154.1	18998.6	2153.0	19482.8
GR	2152.7	19936.4	2153.9	19956.0	2151.9	19970.5	2152.1	20000.0	2152.2	20000.1
GR	2151.7	20622.2	2152.1	21178.0	2152.8	21583.5	2153.8	21583.6	2154.4	22007.8
GR	2155.7	22028.0								
X1	8.999	17	20000.0	20494.4	490	505	495			
GR	2156.2	18313.4	2156.1	18671.6	2155.0	19107.2	2152.9	19200.6	2160.9	19264.5
GR	2155.7	19294.9	2155.7	19320.4	2154.3	19332.7	2153.6	19962.6	2153.6	20000.0
GR	2153.7	20000.1	2153.8	20494.4	2154.1	20838.3	2154.8	21288.4	2157.4	21325.9
GR	2155.3	21349.2	2155.3	21404.8						
X1	9.082	16	20000.0	20697.8	525	355	440			
GR	2159.1	18218.2	2158.3	18761.4	2156.6	19189.9	2155.8	19453.7	2153.5	19519.1
GR	2156.4	19568.8	2162.3	19593.2	2156.1	19609.8	2154.8	19698.0	2154.4	20000.0
GR	2154.7	20000.1	2155.1	20697.8	2158.6	20728.3	2155.3	20751.0	2155.8	21241.8
GR	2156.9	21744.1								
X1	9.175	15	20000.0	20490.6	495	475	490			
GR	2160.7	18053.4	2160.1	18367.8	2158.9	18814.0	2158.1	19237.5	2156.5	19734.7
GR	2157.9	19756.7	2155.4	19780.4	2162.6	19842.8	2156.7	19869.0	2156.5	20000.0
GR	2157.1	20000.1	2157.4	20490.6	2157.9	20964.4	2158.6	21355.5	2159.1	21622.3
X1	9.269	22	20000.0	20500.5	495	485	495			
GR	2161.6	18129.0	2160.9	18554.2	2160.0	19029.2	2159.3	19438.2	2155.4	19455.6
GR	2159.8	19481.6	2157.7	19645.2	2163.0	19771.0	2156.8	19842.5	2155.7	19940.9
GR	2164.5	19968.8	2156.9	19993.1	2156.8	20000.0	2157.1	20000.1	2154.8	20022.0
GR	2165.2	20077.7	2158.5	20126.7	2159.1	20500.5	2159.8	20775.7	2161.7	21826.0
GR	2163.8	21856.2	2162.5	21868.2						
X1	9.362	22	20000.0	20534.6	495	495	495			
GR	2162.8	18341.1	2162.1	18726.7	2160.8	19190.2	2159.9	19709.1	2159.8	20000.0
GR	2160.3	20000.1	2160.3	20137.8	2157.6	20160.0	2159.7	20178.2	2159.7	20202.1
GR	2167.0	20225.0	2160.5	20255.0	2161.0	20534.6	2162.2	20798.6	2164.2	20841.4
GR	2160.3	20878.8	2163.8	20930.7	2160.5	20958.8	2161.4	20987.8	2161.5	21066.9
GR	2162.4	21432.5	2163.3	22023.0						

X1	9.456	20	20000.0	20624.8	495	495	495			
GR	2164.0	18472.7	2162.7	18917.3	2161.9	19300.9	2161.6	19918.3	2160.3	19944.8
GR	2161.7	19967.5	2161.6	20000.0	2161.9	20000.1	2161.9	20169.8	2161.9	20292.3
GR	2160.1	20317.5	2161.4	20345.2	2168.2	20383.3	2163.0	20397.4	2163.4	20624.8
GR	2164.8	21283.2	2164.9	21700.9	2168.8	21791.4	2164.9	21827.0	2164.9	21845.0

```
T1      50-YEAR DISCHARGE
T2
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                           .003                                    2117.08

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      2                 -1
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T1      100-YEAR DISCHARGE
T2
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                4                           .003                            2117.23

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                 -1
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THIS RUN EXECUTED 5/16/90 14:26:24

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE: UPCEN.MPL UPCE

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	6.638	2116.61	.81	2115.80	1.62	1900.00	1141.28	.00	18841.38	21586.30
	6.638	2117.08	1.28	2115.80	2.26	5410.00	2650.07	.00	18572.84	21719.91
	6.638	2117.23	1.43	2115.80	2.47	6960.00	3268.82	.00	18487.19	21762.52
*	7.040	2119.52	4.42	2115.10	1.12	1900.00	1659.43	2120.00	17925.80	21461.91
*	7.040	2120.21	5.11	2115.10	1.59	5410.00	3739.93	2120.00	17924.62	22070.72
*	7.040	2120.42	5.32	2115.10	1.72	6960.00	4482.42	2120.00	17924.26	22232.95
*	7.307	2123.22	.92	2122.30	2.87	1900.00	1093.29	1410.00	19557.34	21455.15
*	7.307	2123.55	1.25	2122.30	4.35	5410.00	3467.31	1410.00	19399.61	21733.81
*	7.307	2123.66	1.36	2122.30	4.74	6960.00	4452.99	1410.00	19345.82	21828.84
*	7.398	2125.39	1.59	2123.80	1.27	1900.00	1066.43	485.00	19198.08	21745.03
*	7.398	2125.93	2.13	2123.80	1.88	5410.00	2660.09	485.00	18916.77	22835.36
*	7.398	2126.10	2.30	2123.80	2.05	6960.00	3253.34	485.00	18833.20	23108.26
*	7.492	2127.16	.76	2126.40	2.27	1900.00	1001.88	495.00	19553.58	22435.83
*	7.492	2127.54	1.15	2126.40	2.83	5410.00	2662.53	495.00	18983.76	22660.74
*	7.492	2127.68	1.28	2126.40	2.99	6960.00	3352.89	495.00	18925.32	22741.54
*	7.589	2129.13	3.73	2125.40	1.76	1900.00	898.40	510.00	19701.66	22755.18
*	7.589	2129.66	4.26	2125.40	2.00	5410.00	1583.93	510.00	19400.47	22768.28
*	7.589	2129.80	4.40	2125.40	2.23	6960.00	1972.22	510.00	19309.70	22771.74
*	7.683	2131.17	2.37	2128.80	3.16	1900.00	1028.23	495.00	19771.88	22851.53
*	7.683	2131.60	2.80	2128.80	2.77	5410.00	2131.69	495.00	19343.64	23504.46
*	7.683	2131.74	2.94	2128.80	2.83	6960.00	2606.87	495.00	19208.72	23710.17
*	7.772	2133.14	2.94	2130.20	1.29	1900.00	1072.26	475.00	19160.89	22981.07
*	7.772	2133.52	3.32	2130.20	2.00	5410.00	2411.82	475.00	18972.67	23295.38
*	7.772	2133.65	3.45	2130.20	2.21	6960.00	2937.78	475.00	18912.76	23395.42

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	7.869	2134.37	1.27	2133.10	2.42	1900.00	1603.06	510.00	19350.46	22223.80
	7.869	2134.90	1.80	2133.10	2.81	5410.00	2962.28	510.00	18825.83	22924.37
	7.869	2135.06	1.96	2133.10	2.92	6960.00	3406.83	510.00	18676.85	22927.90
	7.962	2136.58	1.18	2135.40	2.43	1900.00	150.99	490.00	18534.31	22267.16
	7.962	2136.97	1.57	2135.40	.98	5410.00	173.57	490.00	18490.39	22467.50
	7.962	2137.09	1.69	2135.40	1.31	6960.00	351.48	490.00	18455.18	22549.95
	8.058	2138.06	1.26	2136.80	.89	1900.00	395.14	505.00	18752.69	21941.30
*	8.058	2138.58	1.78	2136.80	1.54	5410.00	1600.96	505.00	18629.62	22522.68
*	8.058	2138.73	1.93	2136.80	1.73	6960.00	2115.31	505.00	18591.82	22682.20
	8.150	2139.46	2.16	2137.30	1.83	1900.00	1321.03	490.00	19021.75	22465.87
	8.150	2139.88	2.58	2137.30	2.39	5410.00	2774.43	490.00	18940.13	22469.80
	8.150	2140.02	2.72	2137.30	2.56	6960.00	3350.39	490.00	18912.35	22471.13
	8.247	2141.09	1.79	2139.30	1.00	1900.00	105.10	510.00	19256.07	20329.14
	8.247	2141.69	2.39	2139.30	1.62	5410.00	1103.03	510.00	19119.43	22440.15
	8.247	2141.84	2.54	2139.30	1.91	6960.00	1625.61	510.00	19084.70	22444.67
	8.340	2142.78	.88	2141.90	1.90	1900.00	1411.86	490.00	19275.45	21845.53
	8.340	2143.37	1.47	2141.90	2.37	5410.00	3358.50	490.00	19148.37	22033.38
	8.340	2143.54	1.64	2141.90	2.57	6960.00	4140.19	490.00	19112.05	22098.46
	8.433	2144.50	1.80	2142.70	1.67	1900.00	1419.44	490.00	19699.79	21707.87
	8.433	2144.99	2.29	2142.70	2.58	5410.00	3637.29	490.00	18867.64	21892.61
	8.433	2145.16	2.46	2142.70	2.84	6960.00	4536.29	490.00	18866.59	21955.95
	8.531	2146.00	1.10	2144.90	1.57	1900.00	699.81	520.00	20044.83	21801.58
	8.531	2146.64	1.74	2144.90	2.22	5410.00	2021.65	520.00	19786.20	22033.77
	8.531	2146.83	1.93	2144.90	2.47	6960.00	2600.79	520.00	19614.34	22103.58
	8.623	2147.49	1.09	2146.40	1.89	1900.00	1499.39	485.00	19676.32	21554.26
	8.623	2148.09	1.69	2146.40	2.62	5410.00	3757.36	485.00	19673.14	21819.32
	8.623	2148.29	1.89	2146.40	2.86	6960.00	4697.29	485.00	19672.10	21906.57
	8.715	2148.83	1.23	2147.60	1.50	1900.00	861.01	485.00	20092.61	21316.04
	8.715	2149.53	1.93	2147.60	2.35	5410.00	2684.14	485.00	19374.55	21322.71
	8.715	2149.74	2.14	2147.60	2.62	6960.00	3454.73	485.00	19205.37	21491.77
*	8.811	2150.68	1.18	2149.50	2.24	1900.00	859.53	510.00	19806.61	21207.37
	8.811	2151.32	1.82	2149.50	3.07	5410.00	2389.61	510.00	19366.06	21397.82
	8.811	2151.52	2.02	2149.50	3.29	6960.00	2988.86	510.00	19224.90	21473.13
*	8.905	2152.77	1.07	2151.70	1.72	1900.00	874.46	495.00	19833.80	21564.83
	8.905	2153.33	1.63	2151.70	2.59	5410.00	2220.19	495.00	19339.67	21583.55
	8.905	2153.51	1.81	2151.70	2.85	6960.00	2755.54	495.00	19260.47	21583.57
	8.999	2154.50	1.60	2152.90	2.04	1900.00	753.99	495.00	19129.58	21093.41
	8.999	2155.06	2.16	2152.90	2.76	5410.00	1795.04	495.00	19081.39	21292.22
	8.999	2155.25	2.35	2152.90	2.99	6960.00	2217.08	495.00	19008.50	21294.88

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	9.082	2155.79	2.29	2153.50	1.49	1900.00	927.76	440.00	19453.85	21236.77
	9.082	2156.42	2.92	2153.50	2.36	5410.00	2499.18	440.00	19250.03	21523.89
	9.082	2156.62	3.12	2153.50	2.60	6960.00	3121.86	440.00	19184.79	21616.43
*	9.175	2157.64	2.24	2155.40	2.28	1900.00	435.43	490.00	19380.88	20716.86
*	9.175	2158.27	2.87	2155.40	3.36	5410.00	1670.33	490.00	19150.76	21167.72
*	9.175	2158.44	3.04	2155.40	3.60	6960.00	2118.00	490.00	19053.41	21270.41
*	9.269	2159.38	4.58	2154.80	1.24	1900.00	432.33	495.00	19393.83	20608.97
*	9.269	2160.20	5.40	2154.80	2.37	5410.00	1681.99	495.00	18920.18	21000.42
*	9.269	2160.42	5.62	2154.80	2.68	6960.00	2156.30	495.00	18805.49	21120.54
*	9.362	2160.80	3.20	2157.60	2.32	1900.00	472.02	495.00	19189.07	20968.57
	9.362	2161.61	4.01	2157.60	2.65	5410.00	1560.89	495.00	18900.70	21112.43
	9.362	2161.85	4.25	2157.60	2.85	6960.00	2014.85	495.00	18815.83	21209.13
*	9.456	2162.70	2.60	2160.10	1.61	1900.00	544.09	495.00	18915.21	20352.52
	9.456	2163.33	3.23	2160.10	2.12	5410.00	1260.28	495.00	18698.63	20590.37
	9.456	2163.53	3.43	2160.10	2.34	6960.00	1660.16	495.00	18631.92	20688.06

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=     7.040  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.040  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.040  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     7.307  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.307  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     7.307  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     7.307  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.307  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     7.307  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.307  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     7.398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.398  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.492  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.589  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.589  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.589  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.683  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.683  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.683  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.772  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.772  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.772  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.869  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.058  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     8.058  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.811  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.905  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.082  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.175  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.175  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.175  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.269  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.269  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     9.362  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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APPENDIX F

North Branch Upper Centennial Wash HEC-2 Floodway

THIS RUN EXECUTED 5/17/90 8:51:54

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      NORTH BRANCH UPPER CENTENNIAL FLOODWAY ANALYSIS
T2      UNENCROACHED RUN
T3       URS FILE: UPCEN.FW1 UPCEN.DFW

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0         2         0         0      .003         0         0         0   2117.23         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      1         0        -1         1        40         0         0         0         0         0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38         1         8        42        26        43        14        39        53        54
    200

J5  LPRNT    NUMSEC                   ********REQUESTED SECTION NUMBERS********

    -10       -10

QT        2      6960      6960
NC     .040      .040      .040        .1        .3
ET                          9.1                                                          19500     20500
X1    6.638         8     19485     20480         0         0         0
GR   2120.0   17895.0    2118.1   17990.0    2116.0   19190.0    2116.0   19485.0    2115.8   20000.0
GR   2116.0   20480.0    2116.5   21555.0    2120.0   22550.0

ET                          9.1                                                          19925     20925
X1    7.040        32    19821.2   21160.2      3000      1500      2120
GR   2123.1   16899.8    2121.2   17814.4    2121.9   17822.3    2122.1   17883.3    2124.6   17888.0
GR   2124.6   17917.0    2118.2   17928.1    2117.7   18021.6    2131.7   18072.7    2127.1   18103.6
GR   2123.9   18202.7    2120.6   18218.1    2120.2   18271.3    2119.6   18296.9    2119.4   19821.2
GR   2119.0   19821.3    2118.9   19992.3    2121.0   20000.0    2120.3   20000.1    2122.1   20013.5
GR   2122.6   20041.6    2115.1   20073.0    2115.9   20178.9    2121.1   20211.2    2118.1   20221.7
GR   2119.1   21160.2    2120.0   21802.3    2120.1   21985.7    2121.5   23078.8    2121.1   23078.9
GR   2121.1   23362.1    2121.9   24036.3

ET                          9.1                                                          19922     20922
X1    7.307        15    20000.0   21268.0      1600      1250      1410
GR   2124.9   18432.3    2123.8   19278.4    2122.3   20000.0    2122.8   20000.1    2122.9   20383.2
GR   2123.0   21268.0    2123.9   22032.8    2124.0   22580.0    2124.7   22599.9    2124.9   23683.4
GR   2125.3   23683.5    2125.2   24082.8    2126.1   24813.6    2129.2   24831.3    2129.2   24867.6
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ET			9.1						19922	20922
X1	7.398	20	20000.0	21057.6	485	485	485			
GR	2127.7	17932.4	2127.6	17992.1	2127.6	18052.0	2125.3	19248.5	2124.5	19596.6
GR	2125.9	19605.4	2125.6	19661.0	2125.2	19670.3	2123.8	20000.0	2124.7	20000.1
GR	2124.5	21057.6	2125.6	21900.7	2126.0	23007.7	2127.0	24029.8	2127.9	24029.9
GR	2128.1	24149.7	2129.3	24157.1	2129.4	24197.6	2127.7	24222.6	2128.6	24563.0
ET			9.1						19924	20924
X1	7.492	16	19906.9	21222.2	490	495	495			
GR	2129.6	18103.7	2127.5	19001.4	2128.3	19024.4	2126.4	19906.9	2126.6	20000.0
GR	2126.9	20000.1	2126.8	21222.2	2127.0	22340.9	2128.9	23463.6	2129.8	23480.3
GR	2129.6	23564.3	2127.8	23586.3	2129.3	24421.0	2130.6	24421.1	2131.3	24519.3
GR	2131.3	24544.8								
ET			9.1						19929	20929
X1	7.589	24	19850.7	20588.8	510	505	510			
GR	2132.0	18059.2	2132.2	18344.4	2130.4	18401.9	2130.8	18443.2	2130.1	19111.4
GR	2129.2	19699.6	2126.3	19787.0	2128.6	19850.7	2128.2	20000.0	2128.2	20000.1
GR	2127.5	20187.4	2125.4	20199.8	2125.6	20219.8	2135.9	20304.8	2129.4	20329.8
GR	2129.4	20573.6	2128.3	20588.8	2129.0	21670.9	2129.0	22751.9	2130.0	22776.8
GR	2129.9	23593.6	2131.3	23609.2	2130.4	23625.9	2132.4	24750.0		
ET			9.1						19924	20924
X1	7.683	28	19838.5	21017.6	495	495	495			
GR	2134.3	17669.4	2132.5	18464.4	2131.1	19838.5	2131.9	19853.4	2131.6	19902.4
GR	2130.9	19912.2	2130.8	20000.0	2131.2	20000.1	2130.7	20551.9	2128.9	20578.3
GR	2128.8	20627.2	2136.0	20666.1	2131.4	20686.2	2131.0	21017.6	2130.9	22077.7
GR	2131.4	22098.0	2131.4	22142.1	2130.7	22151.1	2131.8	23797.5	2133.9	23964.2
GR	2134.5	23983.0	2133.2	24003.5	2133.3	24245.7	2135.2	24280.2	2135.2	24322.5
GR	2133.6	24350.7	2135.5	24443.6	2135.5	24538.8				
ET			9.1						19926	20926
X1	7.772	24	20000.0	21031.3	475	475	475			
GR	2136.0	17550.8	2135.2	17757.5	2136.1	17771.6	2135.9	17806.9	2133.1	19180.9
GR	2134.5	19191.4	2134.1	19228.3	2133.0	19247.1	2132.1	20000.0	2132.5	20000.1
GR	2132.3	20897.6	2130.2	20911.9	2130.9	20953.9	2136.1	21009.8	2132.5	21031.3
GR	2132.9	21429.6	2134.1	21447.0	2134.0	21480.9	2133.2	21494.6	2132.6	22537.9
GR	2133.9	23603.1	2135.0	23620.6	2134.9	23950.4	2136.5	24448.3		
ET			9.1						19927	20927
X1	7.869	21	20000.0	20794.6	510	505	510			
GR	2138.3	17761.8	2136.0	18116.6	2136.9	18159.2	2136.0	18169.2	2136.0	18477.8
GR	2137.2	18485.8	2136.6	18524.2	2135.2	18535.5	2133.7	20000.0	2133.8	20000.1
GR	2133.1	20715.3	2135.8	20740.3	2135.8	20789.2	2134.4	20794.6	2134.5	21363.2
GR	2136.2	21379.0	2134.4	21394.9	2134.2	21958.4	2134.8	22922.0	2135.7	22942.8
GR	2138.4	24459.5								
ET			9.1						19821	21021
X1	7.962	19	20000.0	20807.3	490	490	490			
GR	2140.5	17415.5	2139.2	17829.1	2139.1	17829.2	2136.9	18513.0	2138.5	18522.2
GR	2136.5	18534.8	2135.5	20000.0	2135.4	20000.1	2135.4	20045.7	2136.9	20063.6
GR	2136.8	20807.3	2136.5	21723.2	2137.7	21740.7	2136.4	21751.1	2135.8	22255.5
GR	2136.7	22269.0	2137.6	22924.2	2140.9	24505.2	2141.0	24505.3		

ET			9.1						19747	21097
X1	8.058	27	20000.0	21192.5	500	510	505			
GR	2142.0	17617.0	2141.9	17854.0	2141.2	18201.9	2141.2	18202.0	2139.0	18525.3
GR	2137.6	18867.7	2139.2	18877.9	2138.1	18890.9	2137.0	19351.9	2138.8	19366.9
GR	2138.9	19399.4	2137.5	19405.9	2136.8	20000.0	2137.8	20000.1	2137.6	21192.5
GR	2140.0	21204.7	2137.8	21222.3	2137.6	21527.2	2139.6	21547.7	2137.2	21600.2
GR	2136.8	21650.7	2137.9	21744.4	2138.7	22668.8	2141.0	23766.1	2143.5	23794.7
GR	2143.0	23879.2	2143.0	24206.2						

ET			9.1						19827	21027
X1	8.150	33	20000.0	21060.0	495	490	490			
GR	2145.0	17816.8	2144.1	17995.6	2142.8	18161.7	2141.3	18183.6	2145.3	18250.1
GR	2142.1	18324.9	2141.6	18409.1	2141.9	18585.2	2141.6	18585.3	2140.3	18858.5
GR	2139.3	19053.0	2138.9	19231.6	2140.3	19251.8	2139.3	19258.7	2138.9	20000.0
GR	2139.4	20000.1	2138.2	20871.0	2140.7	20888.1	2139.2	20901.7	2139.2	20969.0
GR	2137.3	20987.2	2138.8	21060.0	2139.4	21440.8	2139.4	22066.6	2139.4	22465.3
GR	2140.8	22478.4	2140.7	22526.6	2141.7	23102.0	2143.6	23123.1	2143.6	23180.5
GR	2141.4	23198.7	2142.9	23240.5	2144.5	24112.7				

ET			9.1						19919	20919
X1	8.247	32	20000.0	21129.5	510	515	510			
GR	2146.6	17733.7	2145.0	17967.4	2144.9	18127.3	2143.6	18146.0	2145.9	18179.8
GR	2143.9	18211.1	2144.8	18253.4	2143.4	18739.9	2142.3	18958.2	2142.4	18958.3
GR	2141.0	19275.9	2142.4	19314.8	2139.9	19374.4	2139.4	19529.0	2141.4	19609.7
GR	2140.0	19621.4	2139.6	20000.0	2140.9	20000.1	2140.9	20158.4	2142.5	20167.4
GR	2140.4	20184.1	2141.4	20267.4	2139.3	20279.2	2141.1	20329.5	2141.3	21129.5
GR	2141.6	22359.3	2143.7	22377.2	2143.7	22413.3	2141.6	22437.5	2142.7	22470.0
GR	2144.2	23124.1	2146.0	23685.1						

ET			9.1						19921	20921
X1	8.340	26	20000.0	21133.7	485	490	490			
GR	2148.0	17756.0	2146.5	18053.5	2145.6	18330.7	2144.5	18588.1	2144.6	18773.8
GR	2145.3	18804.0	2144.2	18825.0	2143.6	19100.5	2142.6	19312.7	2142.7	19312.8
GR	2143.0	19407.6	2145.5	19445.3	2142.9	19464.3	2142.8	19855.4	2142.9	20000.0
GR	2142.9	20000.1	2142.0	20364.1	2142.0	20674.1	2141.9	21133.7	2142.6	21666.3
GR	2144.4	21691.7	2143.1	21722.8	2142.8	21766.8	2142.0	21799.5	2142.9	21852.9
GR	2146.3	23145.9								

ET			9.1						19970	20870
X1	8.433	28	20000.0	21142.8	500	485	490			
GR	2148.8	17810.4	2148.3	18092.1	2146.6	18106.7	2148.6	18165.3	2148.4	18263.4
GR	2147.2	18297.1	2148.2	18371.8	2145.8	18814.8	2146.5	18832.4	2146.4	18858.8
GR	2144.9	18868.2	2144.7	18915.2	2145.6	18961.8	2145.4	19328.0	2144.5	19700.2
GR	2144.6	19700.3	2144.1	19833.4	2144.3	20000.0	2144.3	20000.1	2143.6	20498.5
GR	2143.5	20989.5	2144.6	21031.7	2144.5	21064.9	2142.7	21085.1	2143.8	21142.8
GR	2143.8	21442.8	2146.1	22312.6	2147.6	23024.0				

ET			9.1						19971	20871
X1	8.531	25	20000.0	20736.2	510	525	520			
GR	2150.4	17775.6	2150.5	17998.3	2149.1	18104.6	2150.2	18150.4	2148.4	18159.2
GR	2148.7	18228.1	2147.5	19025.9	2146.4	20000.0	2146.1	20000.1	2145.9	20086.0
GR	2145.6	20086.1	2145.7	20284.6	2146.4	20314.2	2145.9	20350.6	2144.9	20367.1
GR	2145.0	20699.8	2146.1	20713.3	2145.1	20736.2	2145.3	21551.3	2148.3	22630.4

GR	2150.3	22640.4	2150.3	22685.9	2148.7	22703.2	2148.7	22734.3	2149.6	22773.6
ET			9.1						19966	20866
X1	8.623	22	20000.0	21074.9	500	480	485			
GR	2152.0	17926.2	2150.3	18324.4	2149.6	18784.7	2148.7	19229.8	2148.3	19601.0
GR	2149.6	19626.6	2149.6	19665.2	2147.4	19676.8	2147.3	20000.0	2147.7	20000.1
GR	2147.0	20214.9	2146.6	20453.3	2146.4	20453.4	2146.5	21019.0	2147.6	21027.6
GR	2147.6	21072.2	2146.4	21074.9	2148.4	21954.0	2150.3	21978.6	2148.5	21995.0
GR	2149.9	22285.2	2151.2	22598.9						
ET			9.1						19977	20877
X1	8.715	24	20000.0	20834.2	480	485	485			
GR	2154.2	17536.9	2153.7	17829.2	2153.2	18039.3	2150.6	18094.0	2153.0	18141.5
GR	2159.6	18168.5	2155.3	18195.9	2157.7	18226.7	2154.2	18240.3	2154.2	18259.5
GR	2152.7	18265.5	2150.9	18939.6	2153.0	18973.9	2150.0	18993.6	2148.9	19882.1
GR	2148.9	20000.0	2149.1	20000.1	2148.1	20343.0	2147.6	20834.1	2147.6	20834.2
GR	2147.8	21306.2	2149.6	21323.4	2149.8	21567.9	2152.6	22561.0		
ET			9.1						19976	20876
X1	8.811	23	20000.0	20643.9	510	510	510			
GR	2156.9	17486.4	2156.2	17713.4	2154.8	18129.9	2153.6	18432.7	2153.6	18473.1
GR	2153.6	18507.7	2160.7	18546.8	2155.6	18570.5	2157.1	18604.6	2154.4	18626.9
GR	2153.0	18659.2	2151.7	19099.8	2150.4	20000.0	2150.3	20000.1	2149.8	20597.9
GR	2152.3	20631.4	2149.5	20643.9	2150.4	21207.3	2150.8	21207.4	2152.3	21761.6
GR	2154.1	22307.7	2154.9	22698.0	2156.1	22711.2				
ET			9.1						19974	20874
X1	8.905	21	20000.0	20622.2	495	490	495			
GR	2155.8	18094.4	2154.9	18583.2	2153.9	18815.2	2153.9	18858.0	2153.9	18893.7
GR	2160.6	18920.7	2156.6	18938.5	2156.6	18973.0	2154.1	18998.6	2153.0	19482.8
GR	2152.7	19936.4	2153.9	19956.0	2151.9	19970.5	2152.1	20000.0	2152.2	20000.1
GR	2151.7	20622.2	2152.1	21178.0	2152.8	21583.5	2153.8	21583.6	2154.4	22007.8
GR	2155.7	22028.0								
ET			9.1						19973	20873
X1	8.999	17	20000.0	20494.4	490	505	495			
GR	2156.2	18313.4	2156.1	18671.6	2155.0	19107.2	2152.9	19200.6	2160.9	19264.5
GR	2155.7	19294.9	2155.7	19320.4	2154.3	19332.7	2153.6	19962.6	2153.6	20000.0
GR	2153.7	20000.1	2153.8	20494.4	2154.1	20838.3	2154.8	21288.4	2157.4	21325.9
GR	2155.3	21349.2	2155.3	21404.8						
ET			9.1						19908	20808
X1	9.082	16	20000.0	20697.8	525	355	440			
GR	2159.1	18218.2	2158.3	18761.4	2156.6	19189.9	2155.8	19453.7	2153.5	19519.1
GR	2156.4	19568.8	2162.3	19593.2	2156.1	19609.8	2154.8	19698.0	2154.4	20000.0
GR	2154.7	20000.1	2155.1	20697.8	2158.6	20728.3	2155.3	20751.0	2155.8	21241.8
GR	2156.9	21744.1								
ET			9.1						19908	20808
X1	9.175	15	20000.0	20490.6	495	475	490			
GR	2160.7	18053.4	2160.1	18367.8	2158.9	18814.0	2158.1	19237.5	2156.5	19734.7
GR	2157.9	19756.7	2155.4	19780.4	2162.6	19842.8	2156.7	19869.0	2156.5	20000.0
GR	2157.1	20000.1	2157.4	20490.6	2157.9	20964.4	2158.6	21355.5	2159.1	21622.3

ET			9.1						19924	20824
X1	9.269	22	20000.0	20500.5	495	485	495			
GR	2161.6	18129.0	2160.9	18554.2	2160.0	19029.2	2159.3	19438.2	2155.4	19455.6
GR	2159.8	19481.6	2157.7	19645.2	2163.0	19771.0	2156.8	19842.5	2155.7	19940.9
GR	2164.5	19968.8	2156.9	19993.1	2156.8	20000.0	2157.1	20000.1	2154.8	20022.0
GR	2165.2	20077.7	2158.5	20126.7	2159.1	20500.5	2159.8	20775.7	2161.7	21826.0
GR	2163.8	21856.2	2162.5	21868.2						
ET			9.1						19876	20876
X1	9.362	22	20000.0	20534.6	495	495	495			
GR	2162.8	18341.1	2162.1	18726.7	2160.8	19190.2	2159.9	19709.1	2159.8	20000.0
GR	2160.3	20000.1	2160.3	20137.8	2157.6	20160.0	2159.7	20178.2	2159.7	20202.1
GR	2167.0	20225.0	2160.5	20255.0	2161.0	20534.6	2162.2	20798.6	2164.2	20841.4
GR	2160.3	20878.8	2163.8	20930.7	2160.5	20958.8	2161.4	20987.8	2161.5	21066.9
GR	2162.4	21432.5	2163.3	22023.0						
ET			9.1						19893	20893
X1	9.456	20	20000.0	20624.8	495	495	495			
GR	2164.0	18472.7	2162.7	18917.3	2161.9	19300.9	2161.6	19918.3	2160.3	19944.8
GR	2161.7	19967.5	2161.6	20000.0	2161.9	20000.1	2161.9	20169.8	2161.9	20292.3
GR	2160.1	20317.5	2161.4	20345.2	2168.2	20383.3	2163.0	20397.4	2163.4	20624.8
GR	2164.8	21283.2	2164.9	21700.9	2168.8	21791.4	2164.9	21827.0	2164.9	21845.0

```
T1      METHOD 1
T2      FLOODWAY ANALYSIS
T3

J1  ICHECK   INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

               3                                                     2119.23

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15               -1
```

THIS RUN EXECUTED 5/17/90 8:52: 6

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

UR5 FILE: UPCEN.FW1 UPC

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	6.638	2117.23	1.43	2115.80	2.47	6960.00	3268.82	.00	18487.19	21762.52
	6.638	2118.23	2.43	2115.80	2.99	6960.00	6839.43	.00	19500.00	20500.00
*	7.040	2120.42	5.32	2115.10	1.72	6960.00	4482.42	2120.00	17924.26	22232.95
*	7.040	2121.22	6.12	2115.10	2.41	6960.00	6960.00	2120.00	19925.00	20925.00
*	7.307	2123.66	1.36	2122.30	4.74	6960.00	4452.99	1410.00	19345.82	21828.84
*	7.307	2124.29	1.99	2122.30	4.74	6960.00	6100.32	1410.00	19922.00	20922.00
*	7.398	2126.10	2.30	2123.80	2.05	6960.00	3253.34	485.00	18833.20	23108.26
*	7.398	2126.75	2.95	2123.80	3.12	6960.00	6166.27	485.00	19922.00	20922.00
*	7.492	2127.68	1.28	2126.40	2.99	6960.00	3352.89	495.00	18925.32	22741.54
*	7.492	2128.54	2.14	2126.40	4.09	6960.00	6960.00	495.00	19924.00	20924.00
*	7.589	2129.80	4.40	2125.40	2.23	6960.00	1972.22	510.00	19309.70	22771.74
*	7.589	2130.67	5.27	2125.40	3.34	6960.00	4333.88	510.00	19929.00	20929.00
*	7.683	2131.74	2.94	2128.80	2.83	6960.00	2606.87	495.00	19208.72	23710.17
*	7.683	2132.60	3.80	2128.80	4.17	6960.00	6960.00	495.00	19924.00	20924.00
*	7.772	2133.65	3.45	2130.20	2.21	6960.00	2937.78	475.00	18912.76	23395.42
*	7.772	2134.53	4.33	2130.20	3.16	6960.00	6377.76	475.00	19926.00	20926.00
	7.869	2135.06	1.96	2133.10	2.92	6960.00	3406.83	510.00	18676.85	22927.90
	7.869	2135.88	2.78	2133.10	3.35	6960.00	5972.75	510.00	19927.00	20927.00
	7.962	2137.09	1.69	2135.40	1.31	6960.00	351.48	490.00	18455.18	22549.95
*	7.962	2137.92	2.52	2135.40	3.72	6960.00	3546.19	490.00	19821.00	21021.00
*	8.058	2138.73	1.93	2136.80	1.73	6960.00	2115.31	505.00	18591.82	22682.20
*	8.058	2139.69	2.89	2136.80	2.30	6960.00	4996.43	505.00	19747.00	21097.00

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	8.150	2140.02	2.72	2137.30	2.56	6960.00	3350.39	490.00	18912.35	22471.13
	8.150	2140.68	3.38	2137.30	3.13	6960.00	6069.95	490.00	19827.00	21027.00
	8.247	2141.84	2.54	2139.30	1.91	6960.00	1625.61	510.00	19084.70	22444.67
	8.247	2142.65	3.35	2139.30	3.80	6960.00	5596.77	510.00	19919.00	20919.00
	8.340	2143.54	1.64	2141.90	2.57	6960.00	4140.19	490.00	19112.05	22098.46
*	8.340	2144.47	2.57	2141.90	3.13	6960.00	6651.77	490.00	19921.00	20921.00
	8.433	2145.16	2.46	2142.70	2.84	6960.00	4536.29	490.00	18866.59	21955.95
	8.433	2145.87	3.17	2142.70	3.75	6960.00	6815.58	490.00	19970.00	20870.00
	8.531	2146.83	1.93	2144.90	2.47	6960.00	2600.79	520.00	19614.34	22103.58
	8.531	2147.64	2.74	2144.90	3.42	6960.00	5631.88	520.00	19971.00	20871.00
	8.623	2148.29	1.89	2146.40	2.86	6960.00	4697.29	485.00	19672.10	21906.57
	8.623	2149.04	2.65	2146.40	3.44	6960.00	6795.46	485.00	19966.00	20866.00
	8.715	2149.74	2.14	2147.60	2.62	6960.00	3454.73	485.00	19205.37	21491.77
	8.715	2150.42	2.82	2147.60	3.39	6960.00	6419.12	485.00	19977.00	20877.00
	8.811	2151.52	2.02	2149.50	3.29	6960.00	2988.86	510.00	19224.90	21473.13
	8.811	2152.07	2.57	2149.50	3.63	6960.00	4563.39	510.00	19976.00	20876.00
	8.905	2153.51	1.81	2151.70	2.85	6960.00	2755.54	495.00	19260.47	21583.57
	8.905	2153.98	2.28	2151.70	3.69	6960.00	4658.02	495.00	19974.00	20874.00
	8.999	2155.25	2.35	2152.90	2.99	6960.00	2217.08	495.00	19008.50	21294.88
	8.999	2155.90	3.00	2152.90	3.86	6960.00	4098.45	495.00	19973.00	20873.00
	9.082	2156.62	3.12	2153.50	2.60	6960.00	3121.86	440.00	19184.79	21616.43
	9.082	2157.29	3.79	2153.50	3.37	6960.00	5609.87	440.00	19908.00	20808.00
*	9.175	2158.44	3.04	2155.40	3.60	6960.00	2118.00	490.00	19053.41	21270.41
*	9.175	2159.07	3.67	2155.40	4.37	6960.00	3905.67	490.00	19908.00	20808.00
*	9.269	2160.42	5.62	2154.80	2.68	6960.00	2156.30	495.00	18805.49	21120.54
*	9.269	2161.23	6.43	2154.80	3.82	6960.00	4416.19	495.00	19924.00	20824.00
	9.362	2161.85	4.25	2157.60	2.85	6960.00	2014.85	495.00	18815.83	21209.13
	9.362	2162.80	5.20	2157.60	3.82	6960.00	4503.93	495.00	19876.00	20876.00
	9.456	2163.53	3.43	2160.10	2.34	6960.00	1660.16	495.00	18631.92	20688.06
	9.456	2164.53	4.43	2160.10	3.76	6960.00	4861.17	495.00	19893.00	20893.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=     7.040  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.040  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     7.307  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.307  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     7.307  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.589  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.589  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.683  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.683  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.772  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.772  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.962  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.058  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     8.058  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     8.340  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.175  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.175  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     9.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     9.269  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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FLOODWAY DATA, URS FILE: UPCEN.FW1 UPC
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
6.638	1000.	2329.	3.0	2118.2	2117.2	1.0
7.040	1000.	2884.	2.4	2121.2	2120.4	.8
7.307	1000.	1435.	4.9	2124.3	2123.7	.6
7.395	1000.	2194.	3.2	2126.8	2126.1	.7
7.492	1000.	1703.	4.1	2128.5	2127.7	.8
7.589	1000.	2068.	3.4	2130.7	2129.8	.9
7.683	1000.	1671.	4.2	2132.6	2131.7	.9
7.772	1000.	2196.	3.2	2134.5	2133.6	.9
7.869	1000.	2133.	3.3	2135.9	2135.1	.8
7.962	1200.	1627.	4.3	2137.9	2137.1	.8
8.058	1350.	2867.	2.4	2139.7	2138.7	1.0
8.150	1200.	2242.	3.1	2140.7	2140.0	.7
8.247	1000.	1718.	4.1	2142.7	2141.8	.9
8.340	1000.	2254.	3.1	2144.5	2143.5	1.0
8.433	900.	1863.	3.7	2145.9	2145.2	.7
8.531	900.	2020.	3.4	2147.6	2146.8	.8
8.623	900.	2033.	3.4	2149.0	2148.3	.7
8.715	900.	2047.	3.4	2150.4	2149.7	.7
8.811	900.	1848.	3.8	2152.1	2151.5	.6
8.905	900.	1866.	3.7	2154.0	2153.5	.5
8.999	900.	1857.	3.7	2155.9	2155.2	.7
9.082	900.	2071.	3.4	2157.3	2156.6	.7
9.175	900.	1600.	4.4	2159.1	2158.4	.7
9.269	900.	1910.	3.6	2161.2	2160.4	.8
9.362	1000.	1893.	3.7	2162.8	2161.8	1.0
9.456	1000.	1861.	3.7	2164.5	2163.5	1.0

APPENDIX G

Grass Wash
HEC-2 Multiple Profiles

THIS RUN EXECUTED 5/16/90 14:27:47

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      GRASS WASH MULTIPLE PROFILE ANAYSIS
T2      10-YEAR DISCHARGE
T3      URS FILE: GRASS.MPL GRASS.OUT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0        0        0        0        0   2155.10       0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38        1        8       42       26       43       14       39       53       54

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

    -10      -10

QT       3     3340     8660    11100
NC    .030     .030     .030       .3       .5
X1    .001        5  19852.5  20147.5        0        0        0
GR  2157.9  19852.5   2149.6  19866.5   2149.6    20000   2149.6  20133.5   2157.9  20147.5

SB    1.05     1.56      2.7      300      267       23     1511      1.7   2149.6   2149.6
X1    .004        0        0        0       15       15       15
X2       0        0        1   2155.4   2157.9        0        0     1.33        0        0

X1    .028        5    19895    20105      135      135      135
GR  2160.3    19895   2150.9    19900   2150.9    20000   2150.9    20100   2160.3    20105

SB    1.05     1.56      2.7      232      200        7     1485       .5   2150.9   2150.9
X1    .037        0        0        0       45       45       45
X2       0        0        1   2158.4   2160.3        0        0     1.33        0        0

NC    .040     .040     .040       .1       .3
X1    .132       12  19484.7  20339.3      800      440      500
GR  2164.0  17898.4   2159.4  18776.2   2157.1  19137.6   2155.6  19290.6   2155.5  19484.7
GR  2154.0  20000.0   2153.2  20255.5   2151.2  20273.1   2152.7  20339.3   2157.8  20375.9
GR  2159.9  20401.0   2159.9  20578.2
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X1	.223	15	19626.7	20677.6	485	485	485			
GR	2164.0	18059.7	2163.0	18270.1	2162.0	18436.2	2159.7	18801.8	2158.2	19063.6
GR	2157.6	19298.3	2157.0	19626.7	2155.8	20000.0	2155.1	20365.8	2154.7	20640.5
GR	2153.7	20677.6	2158.5	20725.8	2159.6	20747.1	2159.8	20774.0	2159.8	20944.9
X1	.317	12	19940.3	20374.9	490	495	495			
GR	2164.0	18133.4	2160.8	18669.2	2159.1	19130.9	2157.2	19680.6	2156.3	19940.3
GR	2156.3	20000.0	2155.6	20374.9	2155.3	20671.6	2155.8	21047.4	2160.9	21100.4
GR	2160.7	21142.1	2160.7	21291.9						
X1	.411	12	19439.0	20404.0	495	495	495			
GR	2164.0	18358.9	2161.2	18825.3	2159.2	19127.7	2158.3	19439.0	2156.6	20000.0
GR	2156.1	20133.4	2156.4	20404.0	2156.4	20743.8	2156.7	21144.9	2157.8	21436.7
GR	2160.6	21463.3	2161.1	21683.0						
X1	.505	23	19905.1	20432.6	495	500	495			
GR	2164.0	18386.9	2159.3	19236.9	2164.4	19258.2	2155.3	19287.4	2155.3	19312.7
GR	2161.9	19329.2	2162.2	19345.3	2158.6	19357.0	2157.7	19905.1	2157.7	20000.0
GR	2157.3	20259.6	2162.4	20277.9	2162.4	20298.8	2154.4	20347.2	2155.8	20432.6
GR	2157.3	20990.9	2157.7	21379.0	2158.6	21784.3	2159.8	21809.2	2159.8	21887.7
GR	2155.6	21921.4	2155.9	21988.9	2162.6	22034.1				
X1	.600	13	19745.4	20368.1	505	505	505			
GR	2164.0	18342.4	2159.3	19383.6	2158.7	19745.4	2158.9	20000.0	2158.4	20368.1
GR	2158.4	20653.3	2158.3	20987.5	2158.2	21369.1	2158.0	21546.4	2159.0	21727.2
GR	2159.9	21809.8	2161.2	22188.3	2161.2	22397.4				
X1	.694	30	19897.4	20389.4	435	550	495			
GR	2168.0	17834.2	2164.7	18287.4	2160.7	18936.6	2160.0	19535.2	2159.2	19897.4
GR	2159.3	20000.0	2159.7	20389.4	2160.0	20789.8	2160.2	21074.9	2160.9	21089.0
GR	2160.4	21171.6	2158.7	21196.1	2161.3	21208.7	2159.4	21238.2	2160.2	21669.4
GR	2161.4	21899.5	2162.2	21930.1	2162.0	22017.1	2160.8	22076.7	2161.8	22254.3
GR	2162.2	22303.4	2161.8	22367.4	2164.8	22588.4	2164.8	22659.0	2165.9	22730.6
GR	2164.6	22907.9	2165.2	22928.3	2169.5	22954.5	2168.6	22999.8	2167.9	23004.6
X1	.786	16	20000.0	20795.1	325	650	485			
GR	2168.0	17877.4	2165.0	18378.5	2160.9	20000.0	2161.6	20110.2	2161.6	20194.6
GR	2161.4	20610.3	2161.2	20795.1	2162.5	21268.0	2162.9	21381.7	2163.6	21617.0
GR	2164.1	22270.7	2165.4	22397.2	2165.3	22600.3	2166.9	22917.8	2167.4	22973.5
GR	2166.5	23112.5								
X1	.880	24	19496.5	20473.8	495	495	495			
GR	2171.6	17879.0	2164.2	18739.2	2165.0	18745.4	2165.0	18776.7	2163.6	18781.8
GR	2162.8	19458.4	2165.6	19473.1	2162.9	19496.5	2162.4	20000.0	2162.1	20473.8
GR	2162.4	20853.9	2163.0	21227.0	2163.8	21707.2	2164.2	21814.9	2164.9	21962.5
GR	2165.1	22159.7	2166.2	22479.3	2167.6	22492.1	2166.9	22525.2	2166.7	22763.2
GR	2168.9	23543.6	2169.2	23760.1	2171.1	23780.2	2170.9	23789.4		

X1	.974	27	19777.4	20806.4	495	505	500			
GR	2172.0	17806.0	2164.9	18876.7	2165.8	18882.7	2165.2	18915.0	2163.5	18938.4
GR	2166.2	18956.4	2164.6	18992.0	2164.0	19217.8	2163.8	19472.6	2163.5	19777.4
GR	2163.5	20000.0	2163.5	20000.1	2163.6	20806.4	2164.1	21346.3	2164.4	21637.7
GR	2165.8	22025.5	2166.2	22178.5	2166.6	22311.0	2166.6	22420.0	2167.9	22488.1
GR	2167.9	22617.7	2166.3	22643.4	2167.8	23022.4	2168.2	23264.4	2170.1	23799.4
GR	2171.0	24144.6	2173.3	24165.0						
X1	1.068	33	19695.4	20440.6	495	500	495			
GR	2172.1	17862.8	2170.4	18220.2	2166.4	18248.2	2168.5	18267.8	2168.3	18300.7
GR	2166.3	18320.2	2168.7	18341.0	2167.6	18655.7	2164.7	19058.3	2164.7	19211.0
GR	2164.5	19695.4	2164.5	20000.0	2164.2	20440.6	2164.4	20789.8	2164.6	21067.5
GR	2164.9	21240.6	2165.9	21250.3	2164.4	21266.0	2165.4	21729.5	2165.9	21839.3
GR	2166.9	22050.2	2168.1	22165.8	2168.7	22622.8	2168.8	22882.3	2168.6	22910.8
GR	2169.0	22931.5	2169.0	23142.9	2169.2	23368.5	2169.2	23468.4	2169.9	23612.8
GR	2170.2	23724.7	2171.0	23750.0	2171.1	23783.6				
X1	1.161	24	20000.0	20862.9	530	445	490			
GR	2172.0	18156.5	2171.1	18300.9	2171.7	18308.5	2171.6	18354.2	2170.3	18360.7
GR	2170.7	18504.0	2166.0	19217.8	2165.3	20000.0	2165.1	20862.9	2165.1	21341.8
GR	2165.6	21716.8	2166.0	21822.6	2169.4	21835.7	2169.4	21854.0	2166.2	21868.2
GR	2166.9	22091.0	2166.0	22104.7	2166.0	22137.6	2167.4	22147.3	2168.8	22584.6
GR	2168.9	22993.1	2169.5	23204.0	2170.5	23677.0	2171.6	23900.5		
X1	1.256	22	19729.5	20398.3	600	385	500			
GR	2172.0	18284.3	2169.4	18717.2	2168.7	18728.4	2169.7	18737.1	2169.0	18781.5
GR	2167.1	19103.5	2166.3	19320.3	2165.6	19548.7	2165.4	19729.5	2163.2	19745.3
GR	2165.3	19762.1	2165.7	20000.0	2165.7	20398.3	2165.6	20955.0	2166.2	21337.8
GR	2166.6	21557.4	2166.6	21979.8	2168.0	22315.6	2169.5	22863.5	2169.7	23341.5
GR	2170.8	23732.2	2171.2	23899.2						
X1	1.350	24	19827.4	20481.7	500	495	500			
GR	2172.0	18347.9	2167.7	18988.4	2168.8	19008.6	2168.8	19046.1	2167.5	19053.2
GR	2166.6	19626.6	2169.4	19651.2	2169.2	19791.8	2166.9	19827.4	2166.8	20000.0
GR	2166.4	20481.7	2167.3	20806.4	2168.2	20838.9	2167.0	20867.4	2167.6	21653.8
GR	2168.3	22043.4	2169.0	22095.7	2168.7	22314.8	2169.9	22616.9	2170.8	22874.4
GR	2171.1	23144.7	2170.9	23348.0	2171.3	23509.9	2171.6	23560.4		
X1	1.443	25	19598.9	20296.2	495	485	490			
GR	2172.0	18533.8	2168.7	18957.2	2167.5	19012.6	2167.1	19307.5	2166.9	19598.9
GR	2165.2	19642.4	2165.6	19696.7	2167.3	19763.4	2167.7	20000.0	2167.5	20296.2
GR	2167.8	20521.3	2167.8	20770.2	2166.7	20779.9	2166.7	20803.5	2167.8	20817.7
GR	2168.1	21036.2	2168.6	21507.0	2169.4	21987.1	2169.9	22246.0	2170.4	22257.3
GR	2170.5	22287.3	2169.6	22299.8	2171.2	22590.5	2171.9	22802.7	2172.4	22879.5
X1	1.539	19	19534.3	20197.6	505	505	505			
GR	2172.0	18342.5	2170.4	18803.5	2168.7	18895.0	2169.4	18941.2	2167.6	19534.3
GR	2168.7	19570.8	2168.0	20000.0	2169.5	20197.6	2170.6	20323.8	2169.4	20373.9
GR	2168.8	20657.5	2169.4	21051.0	2170.6	21076.3	2169.6	21108.5	2169.8	21540.7
GR	2170.6	21923.1	2171.9	22462.9	2171.4	22564.0	2171.6	22710.3		

X1	1.631	25	19838.4	20423.8	485	490	485			
GR	2176.4	17986.5	2173.6	18568.6	2171.4	18791.0	2170.2	19142.6	2169.3	19546.2
GR	2168.1	19838.4	2168.0	20000.0	2168.2	20423.8	2169.7	20658.5	2171.8	20799.2
GR	2170.9	20971.9	2170.5	21184.6	2170.9	21485.6	2171.2	21850.2	2172.1	22113.1
GR	2172.1	22432.9	2173.2	22697.7	2172.5	22775.9	2172.8	22814.8	2175.4	23115.0
GR	2174.9	23274.8	2175.3	23443.7	2175.6	23597.9	2176.4	23690.9	2176.1	23802.6
X1	1.725	16	19393.8	20345.2	495	505	500			
GR	2176.0	18183.8	2172.3	18566.9	2170.4	18991.5	2169.2	19393.8	2170.2	19409.3
GR	2169.6	20000.0	2169.4	20345.2	2169.9	20842.8	2172.9	21137.9	2172.7	21265.3
GR	2171.8	21600.9	2172.4	22055.0	2173.9	22602.2	2173.9	22667.2	2176.1	22685.0
GR	2175.9	23051.4								
X1	1.822	20	19678.3	20353.4	510	510	510			
GR	2176.0	18366.1	2172.8	18647.9	2171.4	18833.9	2171.5	18931.3	2170.5	19060.4
GR	2170.3	19252.5	2170.2	19678.3	2170.0	20000.0	2170.0	20353.4	2170.8	20713.5
GR	2170.9	21020.0	2172.7	21273.6	2175.9	21475.8	2173.4	21723.5	2175.9	21744.7
GR	2172.7	21791.2	2174.8	21821.4	2174.3	21873.1	2176.0	22455.1	2177.2	22952.4
X1	1.914	25	19578.5	20275.8	490	485	485			
GR	2176.0	18252.1	2174.4	18462.9	2175.5	18485.6	2174.1	18513.4	2172.4	18897.2
GR	2171.6	19076.8	2172.3	19089.4	2171.5	19125.8	2171.0	19136.6	2171.8	19159.2
GR	2171.8	19578.5	2171.3	19871.4	2171.1	20000.0	2171.6	20275.8	2171.4	20557.2
GR	2172.7	20754.7	2171.6	20790.2	2172.5	20823.0	2172.0	20875.6	2173.4	20895.4
GR	2172.7	21233.4	2173.8	21604.9	2175.6	21923.6	2176.6	22428.0	2177.4	22620.6
QT	3	2430	5950	7500						
X1	2.008	27	19971.4	20785.8	500	495	495			
GR	2180.0	17822.2	2176.9	18294.3	2175.3	18673.3	2173.2	18970.3	2173.1	19156.1
GR	2172.4	19700.4	2175.0	19723.7	2171.0	19751.8	2171.5	19812.4	2176.6	19902.4
GR	2170.1	19944.2	2170.5	19971.4	2174.0	20000.0	2173.6	20056.9	2170.8	20093.8
GR	2173.0	20785.8	2177.4	20828.5	2177.3	20862.5	2169.7	20878.2	2169.7	20950.0
GR	2176.2	20963.2	2177.4	20984.9	2172.5	21023.8	2175.5	21859.2	2178.5	22514.0
GR	2180.8	23322.7	2181.2	23502.2						
X1	2.103	28	20000.0	21027.7	505	505	505			
GR	2180.0	17874.8	2177.5	18505.8	2176.6	18759.0	2179.8	18798.3	2174.8	18856.5
GR	2176.7	18876.5	2176.0	18998.6	2174.8	19394.4	2171.5	19411.1	2171.7	19444.4
GR	2179.5	19474.5	2173.3	19493.7	2173.0	20000.0	2174.4	21027.7	2176.7	21046.9
GR	2173.8	21073.2	2178.7	21133.3	2178.7	21151.1	2172.1	21166.8	2172.1	21239.5
GR	2177.5	21247.4	2177.8	21273.1	2172.6	21286.1	2175.6	21305.8	2174.2	21313.2
GR	2175.7	22048.4	2179.6	22756.4	2181.1	23101.2				
X1	2.196	26	19639.0	21104.6	490	490	490			
GR	2180.0	18273.3	2177.5	18682.0	2175.7	19265.5	2175.2	19540.2	2171.8	19562.6
GR	2171.8	19579.6	2180.0	19619.0	2179.9	19627.0	2174.2	19639.0	2174.0	20000.0
GR	2175.3	21104.6	2175.6	21381.2	2177.9	21399.2	2177.4	21431.2	2174.5	21445.3
GR	2175.0	21465.2	2179.3	21495.7	2179.3	21513.1	2171.9	21533.9	2170.8	21603.5
GR	2177.7	21622.6	2180.1	21641.7	2173.6	21659.9	2175.4	21683.2	2176.9	22178.2
GR	2181.1	22973.1								

X1	2.291	26	19580.0	20720.3	500	500	500			
GR	2180.0	18116.3	2177.8	18688.6	2176.4	19485.1	2173.8	19520.3	2180.3	19553.5
GR	2180.1	19567.2	2176.2	19580.0	2175.5	20000.0	2176.1	20720.3	2177.7	21534.4
GR	2178.8	21554.3	2178.8	21600.5	2175.6	21609.2	2175.6	21627.1	2181.0	21648.0
GR	2181.0	21670.4	2170.2	21692.8	2169.8	21757.3	2178.7	21764.0	2180.1	21801.1
GR	2175.8	21810.9	2180.1	22522.4	2181.0	22554.6	2180.8	22844.9	2182.3	22857.9
GR	2182.3	22859.6								
X1	2.384	23	19611.5	20000.0	485	495	490			
GR	2180.0	18250.2	2178.1	18914.3	2176.4	19460.6	2174.8	19524.3	2174.8	19549.4
GR	2181.0	19567.6	2176.0	19587.1	2176.0	19611.5	2175.6	20000.0	2178.5	21585.5
GR	2179.9	21595.2	2179.9	21770.4	2182.9	21806.3	2177.8	21820.8	2178.0	21870.5
GR	2183.0	21895.4	2183.0	21912.0	2173.3	21932.3	2173.3	21960.5	2180.4	21979.8
GR	2180.4	22026.5	2179.2	22051.7	2179.4	22537.6				
X1	2.478	17	19672.0	20698.2	495	500	500			
GR	2180.1	18419.0	2178.5	19228.3	2177.3	19563.3	2176.1	19621.0	2181.4	19650.9
GR	2181.4	19658.8	2177.4	19672.0	2176.7	20000.0	2177.8	20698.2	2179.9	21993.9
GR	2180.6	22106.3	2184.4	22117.8	2179.9	22139.8	2179.7	22192.0	2183.9	22213.7
GR	2183.9	22232.8	2183.9	22274.4						
X1	2.570	17	19707.7	20000.0	490	485	485			
GR	2184.1	17596.5	2184.4	18438.1	2181.8	18466.1	2178.0	19572.8	2175.6	19621.0
GR	2181.7	19678.6	2177.6	19707.7	2176.2	20000.0	2178.9	21268.9	2180.1	22047.3
GR	2180.9	22354.6	2184.9	22371.9	2180.9	22393.6	2180.9	22441.1	2185.7	22466.2
GR	2185.7	22484.2	2183.0	22540.0						
X1	2.666	26	19769.3	20777.6	505	505	505			
GR	2188.0	17243.8	2187.3	17751.9	2186.3	17776.7	2184.7	17793.7	2183.7	18684.2
GR	2184.4	18689.0	2184.4	18704.6	2181.8	18719.5	2177.7	19701.0	2179.9	19724.1
GR	2177.9	19769.3	2177.1	19855.0	2175.7	19880.6	2181.7	19934.0	2177.7	19948.5
GR	2177.6	20000.0	2178.6	20777.6	2180.2	21582.1	2183.8	22622.9	2186.8	22634.5
GR	2182.2	22655.7	2182.4	22711.1	2185.8	22731.0	2185.8	22742.1	2183.0	22753.1
GR	2183.8	23009.7								
X1	2.759	20	20000.0	20590.6	420	550	490			
GR	2188.0	17132.6	2187.0	17936.7	2183.7	17951.8	2183.1	18920.3	2181.1	18936.5
GR	2178.3	20000.0	2178.2	20106.6	2176.5	20145.8	2182.9	20202.0	2178.6	20219.6
GR	2178.5	20266.2	2178.9	20590.6	2182.1	21422.2	2182.8	21905.7	2183.8	22422.1
GR	2186.3	22951.1	2187.0	22978.6	2187.6	23031.0	2186.5	23072.6	2186.7	23125.1
X1	2.853	19	20000.0	20575.5	390	600	500			
GR	2188.0	17033.1	2187.1	17941.5	2183.8	17972.9	2182.7	19078.2	2179.8	19100.3
GR	2178.9	20000.0	2178.9	20390.8	2177.0	20435.1	2177.4	20475.6	2183.3	20511.8
GR	2179.0	20532.8	2178.9	20575.5	2184.2	21721.4	2184.9	21773.0	2185.9	21788.3
GR	2184.8	21813.9	2185.6	22708.3	2187.3	22724.2	2187.2	22884.7		
X1	2.950	23	19569.1	20550.3	370	610	510			
GR	2188.0	17068.2	2187.0	18175.5	2184.1	18205.8	2181.5	19518.6	2182.8	19530.7
GR	2182.3	19546.3	2179.9	19569.1	2179.5	20000.0	2180.7	20480.6	2178.5	20510.2
GR	2181.7	20550.3	2187.8	20580.7	2182.8	20634.3	2177.7	20686.1	2178.8	20873.8
GR	2182.2	20980.6	2183.4	21025.0	2180.3	21066.6	2180.2	21130.4	2182.5	21140.2
GR	2184.4	22454.8	2186.5	22468.6	2186.8	22759.6				

X1	3.044	33	20000.0	20569.4	495	500	495			
GR	2188.0	17404.6	2186.8	17982.3	2185.3	18851.2	2182.5	18863.8	2181.3	20000.0
GR	2181.3	20182.3	2181.9	20193.4	2180.9	20225.9	2180.0	20267.0	2180.3	20327.7
GR	2181.2	20412.4	2180.0	20431.4	2181.3	20439.1	2180.4	20473.4	2181.1	20569.4
GR	2181.7	20581.7	2178.0	20629.9	2178.1	20655.2	2184.1	20687.9	2183.9	20706.0
GR	2176.2	20723.8	2175.9	20752.2	2183.7	20768.8	2181.9	20799.5	2180.6	20823.2
GR	2182.4	21648.4	2183.7	21661.5	2183.8	21714.5	2181.1	21748.7	2183.4	21774.4
GR	2184.4	22356.0	2185.6	22436.0	2186.8	23131.6				
X1	3.137	31	20000.0	20443.6	495	495	495			
GR	2188.0	17854.4	2188.0	17981.7	2184.1	17995.5	2184.6	18011.8	2188.8	18034.2
GR	2188.6	18065.6	2186.3	18084.4	2183.7	19502.5	2181.8	19514.7	2181.8	20000.0
GR	2181.6	20193.0	2185.6	20221.7	2178.9	20255.7	2179.1	20284.4	2186.3	20305.7
GR	2186.1	20322.9	2175.3	20349.0	2175.1	20368.3	2185.0	20401.2	2183.8	20419.9
GR	2180.2	20443.6	2185.6	22395.6	2184.2	22413.5	2186.5	22483.7	2188.4	23615.8
GR	2190.8	23634.3	2190.8	23654.1	2189.9	23668.5	2191.0	23801.8	2192.9	23813.1
GR	2192.9	23827.3								
X1	3.234	19	19845.7	20793.9	505	500	505			
GR	2188.0	18240.9	2186.3	18619.3	2182.1	18635.9	2186.8	18667.2	2186.8	18690.7
GR	2184.3	18703.6	2183.4	19754.8	2185.4	19799.1	2185.4	19820.7	2178.9	19845.7
GR	2179.0	19889.9	2185.8	19912.7	2182.1	19971.0	2182.1	20000.0	2182.1	20793.9
GR	2183.6	20803.1	2183.6	20831.3	2181.8	20847.2	2187.3	22800.4		
X1	3.328	19	19584.0	20000.1	495	500	500			
GR	2188.0	18490.8	2184.2	19259.3	2180.6	19313.5	2185.5	19334.8	2185.0	19380.5
GR	2183.1	19404.9	2185.0	19431.5	2185.0	19466.1	2177.9	19514.7	2185.6	19554.4
GR	2185.6	19584.0	2182.0	19637.2	2183.0	20000.0	2183.0	20000.1	2183.9	20796.7
GR	2184.2	21489.7	2184.8	21497.7	2184.3	21561.1	2188.5	22918.0		
QT	3	1720	3900	4870						
X1	3.421	16	19900.0	20062.0	495	500	495			
GR	2191.6	17938.6	2188.2	18687.5	2183.7	19873.2	2180.3	19888.0	2183.4	19900.0
GR	2181.1	19919.7	2186.9	19977.4	2186.9	20000.0	2186.9	20000.1	2185.8	20036.5
GR	2184.2	20062.0	2184.8	20928.3	2186.3	22151.1	2188.9	22176.6	2187.2	22203.1
GR	2191.9	23617.4								
X1	3.516	18	19865.7	20620.0	500	500	500			
GR	2192.0	18139.1	2187.9	19109.4	2185.1	19865.7	2185.6	20000.0	2185.6	20000.1
GR	2185.4	20620.0	2187.6	20641.4	2186.9	20717.3	2186.1	20776.6	2188.2	22126.4
GR	2189.2	22131.8	2189.2	22147.6	2188.2	22167.9	2191.5	22824.4	2193.0	22828.2
GR	2191.6	22874.7	2190.6	22893.4	2192.0	23300.3				
X1	3.611	11	20000.0	20535.5	500	500	500			
GR	2192.0	18359.9	2187.8	19510.2	2187.1	20000.0	2187.1	20000.1	2187.7	20535.5
GR	2187.7	21261.0	2189.5	21278.7	2188.9	21350.6	2188.2	21368.6	2188.9	21761.5
GR	2193.4	23382.9								

X1	3.706	18	20000.0	20690.8	505	505	505			
GR	2193.0	18865.6	2189.6	19330.9	2188.4	19699.5	2188.3	20000.0	2188.3	20000.1
GR	2188.8	20690.8	2189.4	21341.6	2193.3	21356.1	2184.9	21380.1	2184.9	21403.5
GR	2193.7	21423.5	2189.4	21445.4	2190.7	21881.7	2188.9	21918.8	2191.4	21946.7
GR	2191.4	21977.7	2190.3	21989.8	2192.5	22887.6				
X1	3.798	18	20000.0	20918.3	485	485	485			
GR	2196.0	18291.2	2194.3	18851.6	2191.2	19216.0	2190.0	19417.1	2190.4	19571.6
GR	2189.2	20000.0	2189.2	20000.1	2189.2	20010.7	2190.5	20918.3	2188.0	20941.6
GR	2191.3	20961.0	2191.0	21138.4	2189.9	21153.7	2193.4	22512.3	2192.3	22543.5
GR	2195.0	22583.0	2193.6	22616.9	2196.5	23665.6				
X1	3.893	21	19736.3	20377.1	500	495	500			
GR	2196.0	18407.4	2195.3	18897.2	2191.1	19498.5	2191.8	19630.2	2189.9	19668.1
GR	2191.1	19736.3	2190.7	20000.0	2190.7	20000.1	2190.7	20036.0	2188.4	20048.3
GR	2191.0	20060.5	2190.9	20353.7	2188.3	20370.1	2191.0	20377.1	2191.3	20487.0
GR	2189.8	20507.7	2192.3	20521.7	2190.3	20562.1	2190.3	20580.3	2191.9	20590.7
GR	2197.0	23105.9								
X1	3.988	20	19835.8	20237.3	500	500	500			
GR	2196.0	18688.9	2194.9	19199.1	2192.4	19502.2	2196.0	19564.2	2193.0	19616.3
GR	2193.5	19794.9	2189.1	19835.8	2194.4	19854.0	2192.5	19889.7	2192.4	20000.0
GR	2192.4	20000.1	2192.3	20163.3	2190.3	20174.1	2190.3	20200.8	2193.8	20218.6
GR	2192.3	20237.3	2193.4	20947.0	2194.7	20973.2	2193.8	21003.1	2196.2	22246.0
X1	4.081	19	19645.3	20170.9	495	495	495			
GR	2198.0	18727.0	2197.0	19189.0	2193.7	19443.8	2193.7	19645.3	2191.6	19664.4
GR	2191.6	19694.0	2196.6	19718.0	2192.4	19772.7	2192.0	19822.6	2194.3	19869.5
GR	2193.1	20000.0	2193.1	20000.1	2193.1	20160.7	2194.2	20170.9	2193.2	20227.2
GR	2194.8	20938.2	2196.4	21614.9	2197.0	21636.6	2197.9	22165.3		
X1	4.178	19	19523.5	20000.1	510	515	510			
GR	2200.0	18283.6	2199.7	18631.4	2197.2	19012.3	2194.9	19292.3	2193.1	19328.3
GR	2193.9	19384.2	2192.3	19412.0	2196.4	19442.9	2196.4	19463.1	2193.6	19485.1
GR	2195.8	19493.3	2193.8	19523.5	2193.9	20000.0	2193.9	20000.1	2196.0	20833.3
GR	2197.4	20868.8	2196.6	20886.5	2198.8	21918.9	2200.9	22698.1		
X1	4.270	21	19671.5	20042.2	490	485	485			
GR	2200.0	18492.4	2197.7	19002.4	2195.1	19508.0	2191.5	19530.3	2194.9	19548.2
GR	2194.9	19657.5	2196.4	19671.5	2194.7	19918.7	2193.5	19954.7	2194.7	19977.2
GR	2194.7	20000.0	2194.7	20000.1	2194.9	20035.0	2196.8	20042.2	2196.2	20083.3
GR	2194.9	20100.7	2196.9	20883.7	2198.8	21464.9	2200.4	21506.2	2199.3	21536.9
GR	2201.1	22307.7								
X1	4.362	17	19718.4	20000.1	490	480	485			
GR	2200.0	18445.1	2198.1	19171.0	2195.6	19436.7	2195.4	19669.3	2192.9	19699.1
GR	2196.0	19718.4	2192.9	19742.7	2193.8	19806.4	2198.9	19843.6	2195.6	19874.9
GR	2195.8	20000.0	2195.8	20000.1	2196.5	20353.7	2198.1	20363.1	2198.0	20705.1
GR	2199.4	20719.7	2201.2	21701.9						

X1	4.455	9	19746.4	20000.1	485	495	490			
GR	2200.0	18616.2	2195.8	19652.0	2197.0	19746.4	2193.5	19776.0	2196.8	19785.9
GR	2195.9	20000.0	2195.9	20000.1	2199.0	20797.2	2200.5	21244.4		
X1	4.552	11	19824.5	20000.1	375	650	515			
GR	2200.0	18721.4	2197.6	19376.0	2196.3	19824.5	2197.6	19836.5	2194.9	19865.5
GR	2197.2	19893.5	2196.2	19908.8	2197.2	20000.0	2197.2	20000.1	2198.9	20957.8
GR	2200.2	21183.8								
X1	4.647	15	19969.6	20522.3	500	500	500			
GR	2204.0	18267.2	2204.0	18267.3	2201.4	19032.3	2199.4	19431.2	2198.1	19969.6
GR	2194.8	20000.0	2195.7	20000.1	2196.9	20051.7	2195.5	20072.0	2197.1	20085.4
GR	2198.3	20522.3	2198.9	20801.7	2200.2	21092.9	2201.9	21402.9	2204.9	22195.3
X1	4.740	16	20000.0	20423.6	490	495	490			
GR	2204.0	18557.2	2202.6	18967.1	2201.5	19279.8	2199.1	19730.3	2197.6	20000.0
GR	2197.6	20000.1	2197.1	20055.0	2197.8	20075.0	2198.0	20149.6	2194.6	20174.3
GR	2197.7	20188.6	2198.8	20423.6	2200.3	20794.6	2200.7	21085.9	2203.4	21543.2
GR	2204.3	21817.6								
X1	4.833	12	20000.0	20507.2	495	495	495			
GR	2204.0	18764.1	2200.3	19556.2	2198.9	20000.0	2198.9	20000.1	2198.2	20106.9
GR	2198.2	20151.8	2196.4	20162.4	2199.4	20188.0	2199.8	20507.2	2201.9	20886.3
GR	2204.9	21585.8	2205.0	21684.3						
X1	4.928	13	19905.5	20154.1	505	500	500			
GR	2204.0	18931.9	2200.9	19576.7	2200.6	19905.5	2198.5	20000.0	2198.5	20000.1
GR	2196.9	20019.0	2199.3	20047.6	2198.4	20115.2	2197.2	20142.2	2200.3	20154.1
GR	2202.0	20657.9	2203.0	20920.0	2204.1	21064.5				
X1	5.025	14	19944.3	20081.0	440	570	510			
GR	2204.0	19063.1	2201.8	19643.7	2200.3	19944.3	2199.4	19970.3	2199.6	20000.0
GR	2199.6	20000.1	2199.1	20067.2	2201.8	20081.0	2201.7	20192.7	2199.1	20215.8
GR	2200.0	20364.8	2201.9	20524.4	2204.1	20843.9	2204.6	20959.5		
X1	5.117	16	19905.4	20148.4	490	495	490			
GR	2208.0	18487.4	2205.6	19175.9	2202.7	19643.9	2201.9	19905.4	2199.1	19929.8
GR	2202.0	19955.0	2202.7	20000.0	2202.7	20000.1	2201.4	20086.9	2199.8	20131.3
GR	2201.8	20148.4	2203.1	20422.8	2201.2	20438.3	2202.9	20448.8	2204.5	20903.9
GR	2209.7	21825.5								
X1	5.211	13	20000.0	20386.0	495	500	495			
GR	2208.1	18758.8	2206.8	19230.4	2205.1	19573.3	2203.1	20000.0	2203.1	20000.1
GR	2204.5	20386.0	2205.6	20812.6	2204.1	20834.8	2205.9	20854.8	2209.2	21400.6
GR	2207.3	21440.0	2209.7	21475.2	2209.5	21532.7				
X1	5.304	11	20000.0	20354.6	490	490	490			
GR	2208.0	19016.9	2206.2	19520.1	2204.4	20000.0	2204.4	20000.1	2205.2	20354.6
GR	2206.0	20648.0	2206.8	20828.8	2205.9	20839.8	2205.9	20857.1	2206.8	20865.2
GR	2208.8	21316.0								

X1	5.400	12	20000.0	20538.7	505	505	505			
GR	2212.0	18478.7	2210.1	18983.9	2205.3	20000.0	2205.3	20000.1	2205.8	20285.4
GR	2206.5	20538.7	2207.6	20866.9	2206.6	20884.8	2206.7	20893.6	2207.8	20904.2
GR	2211.2	21518.4	2212.1	21796.7						
X1	5.493	12	20000.0	20689.6	495	495	495			
GR	2212.0	18557.5	2211.6	18969.3	2209.9	19263.0	2206.2	20000.0	2206.2	20000.1
GR	2206.7	20306.7	2207.6	20689.6	2208.4	20869.5	2207.4	20888.3	2208.6	20905.5
GR	2210.1	21267.7	2211.5	21500.0						
X1	5.592	11	20000.0	20452.6	515	520	520			
GR	2212.0	18839.6	2209.6	19380.1	2207.5	19816.3	2206.3	20000.0	2206.3	20000.1
GR	2208.0	20189.8	2208.8	20452.6	2209.4	20711.6	2210.1	20930.8	2211.5	21136.9
GR	2213.5	21588.8								
X1	5.685	12	20000.0	20370.0	490	490	490			
GR	2212.0	19039.1	2209.6	19463.5	2208.3	19765.3	2207.7	20000.0	2207.7	20000.1
GR	2209.0	20370.0	2209.6	20706.3	2210.3	20904.3	2209.4	20918.7	2209.4	20928.4
GR	2210.5	20934.1	2211.4	21203.4						

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T1       50- YEAR DISCHARGE
T2
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                          2157.77

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      2                 -1
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T1      100-YEAR DISCHARGE
T2
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                4                                                         2158.42

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                 -1
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THIS RUN EXECUTED 5/16/90 14:28:20

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE: GRASS.MPL GRAS

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	.001	2155.10	5.50	2149.60	2.20	3340.00	3340.00	.00	19857.22	20142.78
	.001	2157.77	8.17	2149.60	3.78	8660.00	8660.00	.00	19852.72	20147.28
	.001	2158.42	8.82	2149.60	4.47	11100.00	11100.00	.00	19852.50	20147.50
	.004	2155.11	5.51	2149.60	2.19	3340.00	3340.00	15.00	19857.21	20142.79
	.004	2158.30	8.70	2149.60	3.53	8660.00	8660.00	15.00	19852.50	20147.50
	.004	2159.13	9.53	2149.60	4.12	11100.00	11100.00	15.00	19852.50	20147.50
*	.028	2155.08	4.18	2150.90	3.95	3340.00	3340.00	135.00	19897.78	20102.22
*	.028	2158.20	7.30	2150.90	5.81	8660.00	8660.00	135.00	19896.12	20103.88
*	.028	2159.00	8.10	2150.90	6.71	11100.00	11100.00	135.00	19895.69	20104.31
	.037	2155.10	4.20	2150.90	3.94	3340.00	3340.00	45.00	19897.77	20102.23
	.037	2158.55	7.65	2150.90	5.54	8660.00	8660.00	45.00	19895.93	20104.07
	.037	2159.74	8.84	2150.90	6.13	11100.00	11100.00	45.00	19895.29	20104.71
	.132	2155.90	4.70	2151.20	2.14	3340.00	3216.82	500.00	19260.59	20362.22
*	.132	2159.24	8.04	2151.20	1.58	8660.00	6875.31	500.00	18801.94	20393.06
*	.132	2160.51	9.31	2151.20	1.51	11100.00	8193.49	500.00	18565.06	20578.20
	.223	2156.88	3.18	2153.70	2.38	3340.00	3204.38	485.00	19664.75	20709.51
	.223	2159.36	5.66	2153.70	1.81	8660.00	7179.56	485.00	18860.30	20742.54
	.223	2160.59	6.89	2153.70	1.60	11100.00	8364.45	485.00	18660.74	20944.90
*	.317	2157.56	2.26	2155.30	1.34	3340.00	909.78	495.00	19575.29	21067.04
	.317	2159.55	4.25	2155.30	1.54	8660.00	2385.85	495.00	19007.96	21086.93
	.317	2160.69	5.39	2155.30	1.43	11100.00	2903.95	495.00	18700.96	21098.23
	.411	2157.99	1.89	2156.10	1.34	3340.00	1349.95	495.00	19541.00	21438.51
	.411	2159.73	3.63	2156.10	1.40	8660.00	3738.40	495.00	19047.23	21455.05
	.411	2160.79	4.69	2156.10	1.28	11100.00	4747.27	495.00	18887.06	21547.40

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	.505	2158.41	4.01	2154.40	1.19	3340.00	761.95	495.00	19277.39	22005.89
	.505	2159.91	5.51	2154.40	1.39	8660.00	1869.46	495.00	19127.88	22015.90
	.505	2160.89	6.49	2154.40	1.25	11100.00	2281.42	495.00	18949.86	22022.54
*	.600	2159.13	1.13	2158.00	1.64	3340.00	432.45	505.00	19483.84	21739.48
*	.600	2160.21	2.21	2158.00	1.96	8660.00	1836.38	505.00	19181.32	21901.00
*	.600	2161.04	3.04	2158.00	1.68	11100.00	2446.15	505.00	18997.21	22142.95
*	.694	2160.72	2.02	2158.70	1.80	3340.00	1127.43	495.00	18932.88	21769.68
	.694	2161.23	2.53	2158.70	2.74	8660.00	2408.62	495.00	18850.22	22153.45
*	.694	2161.56	2.86	2158.70	2.72	11100.00	2828.07	495.00	18796.61	22212.11
*	.786	2162.24	1.34	2160.90	3.02	3340.00	1950.16	485.00	19468.96	21174.40
*	.786	2162.96	2.06	2160.90	3.76	8660.00	4589.13	485.00	19182.88	21403.93
*	.786	2163.10	2.20	2160.90	4.33	11100.00	5759.29	485.00	19128.42	21450.21
*	.880	2163.64	1.54	2162.10	1.47	3340.00	1713.15	495.00	18781.63	21614.59
*	.880	2164.33	2.23	2162.10	2.11	8660.00	3884.19	495.00	18723.19	21843.94
*	.880	2164.59	2.49	2162.10	2.30	11100.00	4802.12	495.00	18693.65	21897.53
*	.974	2164.52	1.02	2163.50	1.93	3340.00	1962.47	500.00	18924.24	21673.34
	.974	2165.20	1.70	2163.50	2.50	8660.00	4278.08	500.00	18831.08	21859.97
	.974	2165.44	1.94	2163.50	2.68	11100.00	5266.75	500.00	18794.23	21927.65
	1.068	2165.49	1.29	2164.20	1.46	3340.00	1170.90	495.00	18948.90	21748.86
	1.068	2166.15	1.95	2164.20	2.11	8660.00	2737.15	495.00	18857.02	21892.03
	1.068	2166.39	2.19	2164.20	2.33	11100.00	3421.88	495.00	18319.41	21940.84
	1.161	2166.23	1.13	2165.10	1.58	3340.00	1412.39	490.00	19182.35	22139.22
	1.161	2166.92	1.82	2165.10	2.20	8660.00	3273.97	490.00	19077.83	22143.99
	1.161	2167.17	2.07	2165.10	2.40	11100.00	4073.59	490.00	19040.19	22145.70
	1.256	2166.86	3.66	2163.20	1.43	3340.00	1245.58	500.00	19169.33	22041.47
	1.256	2167.59	4.39	2163.20	2.02	8660.00	2740.17	500.00	19020.66	22216.98
	1.256	2167.84	4.64	2163.20	2.21	11100.00	3371.48	500.00	18977.51	22278.06
*	1.350	2167.72	1.32	2166.40	2.35	3340.00	1626.37	500.00	18984.62	21723.51
*	1.350	2168.41	2.01	2166.40	2.84	8660.00	3239.79	500.00	18882.83	22051.52
*	1.350	2168.65	2.25	2166.40	3.00	11100.00	3902.13	500.00	18846.76	22069.61
*	1.443	2168.58	3.38	2165.20	1.42	3340.00	1387.38	490.00	18962.52	21492.52
*	1.443	2169.30	4.10	2165.20	2.12	8660.00	3136.33	490.00	18878.86	21933.46
*	1.443	2169.55	4.35	2165.20	2.34	11100.00	3860.87	490.00	18847.41	22067.75
*	1.539	2169.44	1.84	2167.60	2.53	3340.00	1649.40	505.00	18855.09	21051.88
*	1.539	2170.19	2.59	2167.60	3.02	8660.00	3469.05	505.00	18814.89	21726.24
*	1.539	2170.44	2.84	2167.60	3.19	11100.00	4194.99	505.00	18792.04	21846.43
*	1.631	2170.25	2.25	2168.00	1.73	3340.00	2195.10	485.00	19126.36	20695.71
*	1.631	2171.12	3.12	2168.00	2.68	8660.00	4752.87	485.00	18874.34	21747.55
*	1.631	2171.38	3.38	2168.00	2.96	11100.00	5712.16	485.00	18795.58	21904.04

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	1.725	2170.81	1.61	2169.20	1.63	3340.00	1645.33	500.00	18898.76	20932.81
	1.725	2171.77	2.57	2169.20	2.18	8660.00	4164.19	500.00	18688.12	21025.53
	1.725	2172.07	2.87	2169.20	2.40	11100.00	5268.42	500.00	18620.04	21799.40
	1.822	2171.51	1.51	2170.00	1.56	3340.00	1537.16	510.00	18819.18	21106.06
	1.822	2172.39	2.39	2170.00	2.13	8660.00	3377.16	510.00	18702.22	21230.09
	1.822	2172.70	2.70	2170.00	2.33	11100.00	4166.63	510.00	18661.81	21272.95
*	1.914	2172.42	1.42	2171.00	2.58	3340.00	1819.86	485.00	18892.96	20881.52
*	1.914	2173.19	2.19	2171.00	3.13	8660.00	3875.99	485.00	18719.96	21397.22
*	1.914	2173.47	2.47	2171.00	3.27	11100.00	4691.02	485.00	18656.47	21492.20
*	2.008	2173.27	3.57	2169.70	1.16	2430.00	1183.53	495.00	18959.87	21239.24
*	2.008	2174.08	4.38	2169.70	1.67	5950.00	2740.54	495.00	18846.21	21463.05
	2.008	2174.34	4.64	2169.70	1.83	7500.00	3397.78	495.00	18809.03	21536.27
*	2.103	2173.92	2.42	2171.50	1.64	2430.00	509.02	505.00	19398.86	21294.77
*	2.103	2174.73	3.23	2171.50	2.10	5950.00	2228.55	505.00	19394.75	21573.34
*	2.103	2174.98	3.48	2171.50	2.31	7500.00	3036.16	505.00	18854.40	21695.64
*	2.196	2175.18	4.38	2170.80	1.11	2430.00	1100.05	490.00	19540.30	21680.41
	2.196	2175.86	5.06	2170.80	1.86	5950.00	3663.93	490.00	19213.03	21835.63
	2.196	2176.07	5.27	2170.80	2.07	7500.00	4727.53	490.00	19144.42	21905.48
	2.291	2175.81	6.01	2169.80	.52	2430.00	44.40	500.00	19493.10	21812.39
	2.291	2176.80	7.00	2169.80	1.91	5950.00	2139.34	500.00	19257.05	21976.48
	2.291	2177.05	7.25	2169.80	2.21	7500.00	3109.34	500.00	19113.45	22018.25
	2.384	2177.12	3.82	2173.30	1.66	2430.00	847.62	490.00	19230.05	21970.88
	2.384	2177.93	4.63	2173.30	2.30	5950.00	1895.65	490.00	18970.78	21973.07
	2.384	2178.15	4.85	2173.30	2.53	7500.00	2300.91	490.00	18898.86	21973.67
*	2.478	2178.13	2.03	2176.10	2.10	2430.00	2035.93	500.00	19331.36	20902.32
	2.478	2178.84	2.74	2176.10	2.67	5950.00	4510.43	500.00	19058.76	21336.94
	2.478	2179.06	2.96	2176.10	2.83	7500.00	5445.39	500.00	18943.06	21478.09
*	2.570	2178.73	3.13	2175.60	1.30	2430.00	692.68	485.00	19361.13	21187.55
*	2.570	2179.50	3.90	2175.60	1.88	5950.00	1426.99	485.00	19137.37	21654.93
*	2.570	2179.75	4.15	2175.60	2.06	7500.00	1706.00	485.00	19066.27	21813.27
*	2.666	2179.16	3.46	2175.70	1.73	2430.00	2027.71	505.00	19351.80	21058.49
	2.666	2179.98	4.28	2175.70	2.22	5950.00	4373.44	505.00	19156.01	21469.77
	2.666	2180.23	4.53	2175.70	2.37	7500.00	5282.23	505.00	19095.17	21590.99
	2.759	2179.96	3.46	2176.50	1.95	2430.00	1590.66	490.00	19370.00	20865.75
	2.759	2180.73	4.23	2176.50	2.67	5950.00	3311.81	490.00	19079.21	21064.70
	2.759	2180.98	4.48	2176.50	2.88	7500.00	3976.14	490.00	18984.07	21129.79
*	2.853	2180.44	3.44	2177.00	1.34	2430.00	1262.00	500.00	19095.44	20907.99
*	2.853	2181.28	4.28	2177.00	1.85	5950.00	2588.26	500.00	19089.08	21088.51
*	2.853	2181.55	4.55	2177.00	2.03	7500.00	3137.18	500.00	19087.00	21147.47

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	2.950	2180.84	3.14	2177.70	1.19	2430.00	1093.37	510.00	19560.17	21133.13
	2.950	2181.72	4.02	2177.70	1.93	5950.00	3421.93	510.00	19408.15	21136.87
	2.950	2182.01	4.31	2177.70	2.16	7500.00	4445.18	510.00	19262.82	21138.10
	3.044	2181.54	5.65	2175.90	1.34	2430.00	498.91	495.00	19768.60	21753.66
	3.044	2182.44	6.54	2175.90	2.07	5950.00	1826.63	495.00	18920.44	21763.68
	3.044	2182.71	6.81	2175.90	2.17	7500.00	2242.38	495.00	18862.86	21766.69
	3.137	2182.38	7.28	2175.10	1.80	2430.00	1046.78	495.00	19510.95	21233.08
	3.137	2183.19	8.09	2175.10	2.38	5950.00	2035.08	495.00	19505.79	21523.34
	3.137	2183.43	8.33	2175.10	2.58	7500.00	2432.75	495.00	19504.22	21611.85
	3.234	2183.11	4.21	2178.90	1.84	2430.00	1939.25	505.00	18631.91	21312.44
	3.234	2183.92	5.02	2178.90	2.41	5950.00	4330.38	505.00	18628.66	21604.01
	3.234	2184.18	5.28	2178.90	2.58	7500.00	5215.82	505.00	18627.70	21690.97
	3.328	2183.98	6.08	2177.90	1.90	2430.00	1080.16	500.00	19262.47	21003.64
	3.328	2184.74	6.84	2177.90	2.46	5950.00	2143.67	500.00	19149.39	21704.34
	3.328	2184.99	7.09	2177.90	2.59	7500.00	2514.93	500.00	19099.38	21784.24
*	3.421	2185.00	4.70	2180.30	3.24	1720.00	435.51	495.00	19532.39	21085.93
*	3.421	2185.64	5.34	2180.30	2.82	3900.00	525.25	495.00	19361.47	21614.73
*	3.421	2185.85	5.55	2180.30	2.76	4870.00	565.11	495.00	19306.98	21783.30
	3.516	2186.45	1.35	2185.10	1.81	1720.00	1338.35	500.00	19500.61	21002.59
	3.516	2186.90	1.80	2185.10	2.61	3900.00	2794.89	500.00	19380.91	21287.42
	3.516	2187.05	1.95	2185.10	2.83	4870.00	3369.47	500.00	19337.78	21390.06
	3.611	2188.09	.99	2187.10	1.98	1720.00	733.53	500.00	19430.16	21264.86
	3.611	2188.53	1.43	2187.10	2.35	3900.00	1426.35	500.00	19309.60	21555.25
	3.611	2188.68	1.58	2187.10	2.51	4870.00	1718.07	500.00	19269.68	21637.07
*	3.706	2189.31	4.41	2184.90	1.18	1720.00	622.76	505.00	19419.15	21923.41
	3.706	2189.76	4.86	2184.90	1.78	3900.00	1489.00	505.00	19308.65	21928.43
	3.706	2189.92	5.02	2184.90	1.96	4870.00	1844.64	505.00	19287.73	21930.13
*	3.798	2190.44	2.44	2188.00	1.80	1720.00	987.00	485.00	19343.62	21362.76
	3.798	2190.89	2.89	2188.00	2.21	3900.00	2129.97	485.00	19267.27	21539.60
	3.798	2191.05	3.05	2188.00	2.37	4870.00	2619.34	485.00	19241.61	21599.02
*	3.893	2191.85	3.55	2188.30	1.68	1720.00	1112.86	500.00	19390.95	20590.38
	3.893	2192.33	4.03	2188.30	2.48	3900.00	2402.86	500.00	19322.65	20802.01
	3.893	2192.49	4.19	2188.30	2.73	4870.00	2935.86	500.00	19299.02	20883.40
*	3.988	2193.20	4.10	2189.10	2.51	1720.00	961.67	500.00	19403.78	20825.54
	3.988	2193.79	4.69	2189.10	2.90	3900.00	1740.52	500.00	19333.98	20954.81
	3.988	2193.97	4.87	2189.10	3.03	4870.00	2042.08	500.00	19310.96	21094.89
*	4.081	2194.43	2.83	2191.60	1.74	1720.00	1136.23	495.00	19387.34	20774.28
*	4.081	2194.98	3.38	2191.60	2.31	3900.00	2148.38	495.00	19343.95	21019.88
	4.081	2195.17	3.57	2191.60	2.50	4870.00	2545.92	495.00	19330.43	21093.92

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	4.178	2195.14	2.84	2192.30	1.60	1720.00	982.93	510.00	19262.73	20493.22
	4.178	2195.79	3.49	2192.30	2.22	3900.00	2050.49	510.00	19184.00	20749.81
	4.178	2196.00	3.70	2192.30	2.41	4870.00	2477.84	510.00	19157.87	20833.41
*	4.270	2196.01	4.51	2191.50	1.96	1720.00	610.32	485.00	19331.10	20535.21
	4.270	2196.68	5.18	2191.50	2.38	3900.00	1302.07	485.00	19200.29	20798.54
	4.270	2196.90	5.40	2191.50	2.55	4870.00	1601.16	485.00	19158.27	20883.13
*	4.362	2196.80	3.90	2192.90	1.73	1720.00	783.86	485.00	19309.87	20355.42
*	4.362	2197.51	4.61	2192.90	2.35	3900.00	1485.17	485.00	19234.13	20359.61
	4.362	2197.74	4.84	2192.90	2.57	4870.00	1777.36	485.00	19209.61	20360.96
*	4.455	2197.45	3.95	2193.50	1.95	1720.00	629.84	490.00	19246.12	20397.58
	4.455	2198.20	4.70	2193.50	2.38	3900.00	1222.57	490.00	19061.15	20590.42
	4.455	2198.45	4.95	2193.50	2.52	4870.00	1455.23	490.00	18998.90	20655.33
	4.552	2198.22	3.32	2194.90	1.88	1720.00	553.80	515.00	19207.66	20573.23
	4.552	2198.89	3.99	2194.90	2.30	3900.00	954.30	515.00	19022.13	20956.43
	4.552	2199.12	4.22	2194.90	2.40	4870.00	1085.85	515.00	18961.27	20996.17
	4.647	2198.91	4.11	2194.80	1.89	1720.00	1558.68	500.00	19636.49	20802.68
	4.647	2199.56	4.76	2194.80	2.45	3900.00	2915.66	500.00	19398.53	20950.39
	4.647	2199.77	4.97	2194.80	2.60	4870.00	3413.24	500.00	19354.75	20999.55
	4.740	2199.54	4.94	2194.60	1.72	1720.00	1232.81	490.00	19648.08	20606.14
	4.740	2200.26	5.66	2194.60	2.39	3900.00	2442.88	490.00	19512.66	20784.58
	4.740	2200.49	5.89	2194.60	2.61	4870.00	2912.84	490.00	19470.22	20929.76
*	4.833	2200.31	3.91	2196.40	2.09	1720.00	1246.39	495.00	19556.97	20597.03
	4.833	2201.02	4.62	2196.40	2.49	3900.00	2400.09	495.00	19401.18	20728.20
	4.833	2201.26	4.86	2196.40	2.65	4870.00	2875.02	495.00	19350.69	20770.78
	4.928	2201.22	4.32	2196.90	2.50	1720.00	1485.36	500.00	19511.50	20424.78
	4.928	2201.92	5.02	2196.90	3.35	3900.00	2580.94	500.00	19364.44	20634.31
	4.928	2202.15	5.25	2196.90	3.56	4870.00	2943.69	500.00	19315.84	20698.28
	5.025	2201.86	2.76	2199.10	1.95	1720.00	602.93	510.00	19631.01	20520.05
	5.025	2202.68	3.58	2199.10	2.55	3900.00	1077.12	510.00	19411.55	20637.64
	5.025	2202.94	3.84	2199.10	2.75	4870.00	1260.15	510.00	19343.64	20675.00
*	5.117	2202.76	3.66	2199.10	3.88	1720.00	1245.17	490.00	19633.81	20447.95
*	5.117	2203.53	4.43	2199.10	3.95	3900.00	2002.18	490.00	19509.91	20628.09
*	5.117	2203.78	4.68	2199.10	4.01	4870.00	2282.57	490.00	19469.10	20700.03
*	5.211	2204.99	1.89	2203.10	2.15	1720.00	979.31	495.00	19598.98	20844.58
	5.211	2205.48	2.38	2203.10	3.09	3900.00	2002.32	495.00	19497.12	20850.11
	5.211	2205.65	2.55	2203.10	3.37	4870.00	2402.78	495.00	19463.09	20851.98
	5.304	2206.13	1.73	2204.40	2.00	1720.00	946.30	490.00	19538.39	20859.18
	5.304	2206.76	2.36	2204.40	2.52	3900.00	1746.15	490.00	19365.86	20864.76
	5.304	2206.96	2.56	2204.40	2.69	4870.00	2059.92	490.00	19307.50	20901.35

SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
5.400	2207.07	1.77	2205.30	1.79	1720.00	1202.90	505.00	19623.97	20897.23
5.400	2207.71	2.41	2205.30	2.46	3900.00	2483.04	505.00	19490.89	20903.28
5.400	2207.92	2.61	2205.30	2.66	4870.00	2986.04	505.00	19446.34	20925.06
5.493	2207.95	1.75	2206.20	1.67	1720.00	1276.92	495.00	19652.14	20896.13
5.493	2208.61	2.41	2206.20	2.24	3900.00	2743.48	495.00	19518.70	20909.39
5.493	2208.82	2.62	2206.20	2.44	4870.00	3346.33	495.00	19476.00	20961.15
5.592	2208.84	2.54	2206.30	1.50	1720.00	651.62	520.00	19538.62	20468.52
5.592	2209.52	3.22	2206.30	2.23	3900.00	1657.59	520.00	19396.83	20749.05
5.592	2209.74	3.44	2206.30	2.42	4870.00	2049.49	520.00	19347.71	20819.29
5.685	2209.60	1.90	2207.70	1.60	1720.00	742.29	490.00	19463.33	20929.44
5.685	2210.29	2.59	2207.70	2.07	3900.00	1481.95	490.00	19341.66	20933.01
5.685	2210.51	2.81	2207.70	2.22	4870.00	1776.85	490.00	19301.94	20938.19

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .028  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .028  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .028  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .132  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .132  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .317  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .600  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .600  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .600  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .694  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .694  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .786  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .786  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .880  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .880  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.350  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.350  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.350  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.443  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.443  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.443  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.539  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.539  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.539  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.631  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.631  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.631  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.725  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.914  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.914  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.914  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.008  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.008  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     2.103  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.103  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.103  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.196  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.478  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.570  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.570  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.570  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.666  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.853  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.853  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.853  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.421  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.421  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.421  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.706  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.798  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.893  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.988  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.270  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.362  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.362  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.455  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.833  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.117  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.117  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.117  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.211  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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APPENDIX H

Grass Wash
HEC-2 Floodway

THIS RUN EXECUTED 5/17/90 9: 0:19

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**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1       GRASS WASH FLOODWAY ANALYSIS
T2      UNENCROACHED PROFILE
T3      URS FILE: GRASS.FW1 GRASS.OFW

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0         2         0         0         0         0         0         0   2158.42         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1         0        -1         0         0         0         0         0         0         0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38         1         8        42        26        43        14        39        53        54
   200

J5  LFRNT    NUMSEC                   ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2     11100     11100
NC    .030      .030      .030        .3        .5
ET                        9.1                                                          19852.5    20147.5
X1    .001         5   19852.5   20147.5       135       135       135
GR  2157.9   19852.5    2149.6   19866.5    2149.6     20000    2149.6   20133.5    2157.9    20147.5

SB    1.05      1.56       2.7       300       267        23      1511       1.7    2149.6     2149.6
ET                        9.1                                                          19852.5    20147.5
X1    .004         0         0         0        15        15        15
X2       0         0         1    2155.4    2157.9         0         0      1.33         0          0

ET                        9.1                                                           19895      20105
X1    .028         5     19895     20105       135       135       135
GR  2160.3     19895    2150.9     19900    2150.9     20000    2150.9     20100    2160.3      20105

SB    1.05      1.56       2.7       232       200         7      1485        .5    2150.9     2150.9
ET                        9.1                                                           19895      20105
X1    .037         0         0         0        45        45        45
X2       0         0         1    2158.4    2160.3         0         0      1.33         0          0
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NC    .040     .040     .040      .1       .3
ET                      9.1                                                19700    20300
X1    .132       12   19484.7  20339.3      800      440      500
GR  2164.0  17898.4   2159.4  18776.2   2157.1  19137.6   2155.6  19290.6   2155.5  19484.7
GR  2154.0  20000.0   2153.2  20255.5   2151.2  20273.1   2152.7  20339.3   2157.8  20375.9
GR  2159.9  20401.0   2159.9  20578.2

ET                      9.1                                                19550    20450
X1    .223       15   19626.7  20677.6      485      485      485
GR  2164.0  18059.7   2163.0  18270.1   2162.0  18436.2   2159.7  18801.8   2158.2  19063.6
GR  2157.6  19298.3   2157.0  19626.7   2155.8  20000.0   2155.1  20365.8   2154.7  20640.5
GR  2153.7  20677.6   2158.5  20725.8   2159.6  20747.1   2159.8  20774.0   2159.8  20944.9

ET                      9.1                                                19400    20600
X1    .317       12   19940.3  20374.9      490      495      495
GR  2164.0  18133.4   2160.8  18669.2   2159.1  19130.9   2157.2  19680.6   2156.3  19940.3
GR  2156.3  20000.0   2155.6  20374.9   2155.3  20671.6   2155.8  21049.4   2160.9  21100.4
GR  2160.7  21142.1   2160.7  21291.9

ET                      9.1                                                19250    20750
X1    .411       12   19439.0  20404.0      495      495      495
GR  2164.0  18358.9   2161.2  18825.3   2159.2  19127.7   2158.3  19439.0   2156.6  20000.0
GR  2156.1  20133.4   2156.4  20404.0   2156.4  20743.8   2156.7  21144.9   2157.8  21436.7
GR  2160.6  21463.3   2161.1  21683.0

ET                      9.1                                                19175    20825
X1    .505       23   19905.1  20432.6      495      500      495
GR  2164.0  18386.9   2159.3  19236.9   2164.4  19258.2   2155.3  19287.4   2155.3  19312.7
GR  2161.9  19329.2   2162.2  19345.3   2158.6  19357.0   2157.7  19905.1   2157.7  20000.0
GR  2157.3  20259.6   2162.4  20277.9   2162.4  20298.8   2154.4  20347.2   2155.8  20432.6
GR  2157.3  20990.9   2157.7  21379.0   2158.6  21784.3   2159.8  21809.2   2159.8  21887.7
GR  2155.6  21921.4   2155.9  21988.9   2162.6  22034.1

ET                      9.1                                                19200    20800
X1    .600       13   19745.4  20368.1      505      505      505
GR  2164.0  18342.4   2159.3  19383.6   2158.7  19745.4   2158.9  20000.0   2158.4  20368.1
GR  2158.4  20653.3   2158.3  20987.5   2158.2  21369.1   2158.0  21546.4   2159.0  21727.2
GR  2159.9  21809.8   2161.2  22188.3   2161.2  22397.4

ET                      9.1                                                19300    20700
X1    .694       30   19897.4  20389.4      435      550      495
GR  2168.0  17834.2   2164.7  18287.4   2160.7  18936.6   2160.0  19535.2   2159.2  19897.4
GR  2159.3  20000.0   2159.7  20389.4   2160.0  20789.8   2160.2  21074.9   2160.9  21089.0
GR  2160.4  21171.6   2158.7  21196.1   2161.3  21208.7   2159.4  21238.2   2160.2  21669.4
GR  2161.4  21899.5   2162.2  21930.1   2162.0  22017.1   2160.8  22076.7   2161.8  22254.3
GR  2162.2  22303.4   2161.8  22367.4   2164.8  22588.4   2164.8  22659.0   2165.9  22730.6
GR  2164.6  22907.9   2165.2  22928.3   2169.5  22954.5   2168.6  22999.8   2167.9  23004.6
```

ET			9.1						19400	20600
X1	.786	16	20000.0	20795.1	325	650	485			
GR	2168.0	17877.4	2165.0	18378.5	2160.9	20000.0	2161.6	20110.2	2161.6	20194.6
GR	2161.4	20610.3	2161.2	20795.1	2162.5	21268.0	2162.9	21381.7	2163.6	21617.0
GR	2164.1	22270.7	2165.4	22397.2	2165.3	22600.3	2166.9	22917.8	2167.4	22973.5
GR	2166.5	23112.5								

ET			9.1						19400	20600
X1	.880	24	19496.5	20473.8	495	495	495			
GR	2171.6	17879.0	2164.2	18739.2	2165.0	18745.4	2165.0	18776.7	2163.6	18781.8
GR	2162.8	19458.4	2165.6	19473.1	2162.9	19496.5	2162.4	20000.0	2162.1	20473.8
GR	2162.4	20853.9	2163.0	21227.0	2163.8	21707.2	2164.2	21814.9	2164.9	21962.5
GR	2165.1	22159.7	2166.2	22479.3	2167.6	22492.1	2166.9	22525.2	2166.7	22763.2
GR	2168.9	23543.6	2169.2	23760.1	2171.1	23780.2	2170.9	23789.4		

ET			9.1						19400	20600
X1	.974	27	19777.4	20806.4	495	505	500			
GR	2172.0	17806.0	2164.9	18876.7	2165.8	18882.7	2165.2	18915.0	2163.5	18938.4
GR	2166.2	18956.4	2164.6	18992.0	2164.0	19217.8	2163.8	19472.6	2163.5	19777.4
GR	2163.5	20000.0	2163.5	20000.1	2163.6	20806.4	2164.1	21346.3	2164.4	21637.7
GR	2165.8	22025.5	2166.2	22178.5	2166.6	22311.0	2166.6	22420.0	2167.9	22488.1
GR	2167.9	22617.7	2166.3	22643.4	2167.8	23022.4	2168.2	23264.4	2170.1	23799.4
GR	2171.0	24144.6	2173.3	24165.0						

ET			9.1						19350	20650
X1	1.068	33	19695.4	20440.6	495	500	495			
GR	2172.1	17862.8	2170.4	18220.2	2166.4	18248.2	2168.5	18267.8	2168.3	18300.7
GR	2166.3	18320.2	2168.7	18341.0	2167.6	18655.7	2164.7	19058.3	2164.7	19211.0
GR	2164.5	19695.4	2164.5	20000.0	2164.2	20440.6	2164.4	20789.8	2164.6	21067.5
GR	2164.9	21240.6	2165.9	21250.3	2164.4	21266.0	2165.4	21729.5	2165.9	21839.3
GR	2166.9	22050.2	2168.1	22165.8	2168.7	22622.8	2168.8	22882.3	2168.6	22910.8
GR	2169.0	22931.5	2169.0	23142.9	2169.2	23368.5	2169.2	23468.4	2169.9	23612.8
GR	2170.2	23724.7	2171.0	23750.0	2171.1	23783.6				

ET			9.1						19300	20700
X1	1.161	24	20000.0	20862.9	530	445	490			
GR	2172.0	18156.5	2171.1	18300.9	2171.7	18308.5	2171.6	18354.2	2170.3	18360.7
GR	2170.7	18504.0	2166.0	19217.8	2165.3	20000.0	2165.1	20862.9	2165.1	21341.8
GR	2165.6	21716.8	2166.0	21822.6	2169.4	21835.7	2169.4	21854.0	2166.2	21868.2
GR	2166.9	22091.0	2166.0	22104.7	2166.0	22137.6	2167.4	22147.3	2168.8	22584.6
GR	2168.9	22993.1	2169.5	23204.0	2170.5	23677.0	2171.6	23900.5		

ET			9.1						19300	20700
X1	1.256	22	19729.5	20398.3	600	385	500			
GR	2172.0	18284.3	2169.4	18717.2	2168.7	18728.4	2169.7	18737.1	2169.0	18781.5
GR	2167.1	19103.5	2166.3	19320.3	2165.6	19548.7	2165.4	19729.5	2163.2	19745.3
GR	2165.3	19762.1	2165.7	20000.0	2165.7	20398.3	2165.6	20955.0	2166.2	21337.8
GR	2166.6	21557.4	2166.6	21979.8	2168.0	22315.6	2169.5	22863.5	2169.7	23341.5
GR	2170.8	23732.2	2171.2	23899.2						

ET			9.1						19350	20650
X1	1.350	24	19827.4	20481.7	500	495	500			
GR	2172.0	18347.9	2167.7	18988.4	2168.8	19008.6	2168.8	19046.1	2167.5	19053.2
GR	2166.6	19626.6	2169.4	19651.2	2169.2	19791.8	2166.9	19827.4	2166.8	20000.0
GR	2166.4	20481.7	2167.3	20806.4	2168.2	20838.9	2167.0	20867.4	2167.6	21653.8
GR	2168.3	22043.4	2169.0	22095.7	2168.7	22314.8	2169.9	22616.9	2170.8	22874.4
GR	2171.1	23144.7	2170.9	23348.0	2171.3	23509.9	2171.6	23560.4		
ET			9.1						19400	20600
X1	1.443	25	19598.9	20296.2	495	485	490			
GR	2172.0	18533.8	2168.7	18957.2	2167.5	19012.6	2167.1	19307.5	2166.9	19598.9
GR	2165.2	19642.4	2165.6	19696.7	2167.3	19763.4	2167.7	20000.0	2167.5	20296.2
GR	2167.8	20521.3	2167.8	20770.2	2166.7	20779.9	2166.7	20803.5	2167.8	20817.7
GR	2168.1	21036.2	2168.6	21507.0	2169.4	21987.1	2169.9	22246.0	2170.4	22257.3
GR	2170.5	22287.3	2169.6	22299.8	2171.2	22590.5	2171.9	22802.7	2172.4	22879.5
ET			9.1						19450	20550
X1	1.539	19	19534.3	20197.6	505	505	505			
GR	2172.0	18342.5	2170.4	18803.5	2168.7	18895.0	2169.4	18941.2	2167.6	19534.3
GR	2168.7	19570.8	2168.0	20000.0	2169.5	20197.6	2170.6	20323.8	2169.4	20373.9
GR	2168.8	20657.5	2169.4	21051.0	2170.6	21076.3	2169.6	21108.5	2169.8	21540.7
GR	2170.6	21923.1	2171.9	22462.9	2171.4	22564.0	2171.6	22710.3		
ET			9.1						19500	20500
X1	1.631	25	19838.4	20423.8	485	490	485			
GR	2176.4	17986.5	2173.6	18568.6	2171.4	18791.0	2170.2	19142.6	2169.3	19546.2
GR	2168.1	19838.4	2168.0	20000.0	2168.2	20423.8	2169.7	20658.5	2171.8	20799.2
GR	2170.9	20971.9	2170.5	21184.6	2170.9	21485.6	2171.2	21850.2	2172.1	22113.1
GR	2172.1	22432.9	2173.2	22697.7	2172.5	22775.9	2172.8	22814.8	2175.4	23115.0
GR	2174.9	23274.8	2175.3	23443.7	2175.6	23597.9	2176.4	23690.9	2176.1	23802.6
ET			9.1						19500	20500
X1	1.725	16	19393.8	20345.2	495	505	500			
GR	2176.0	18183.8	2172.3	18566.9	2170.4	18991.5	2169.2	19393.8	2170.2	19409.3
GR	2169.6	20000.0	2169.4	20345.2	2169.9	20842.8	2172.9	21137.9	2172.7	21265.3
GR	2171.8	21600.9	2172.4	22055.0	2173.9	22602.2	2173.9	22667.2	2176.1	22685.0
GR	2175.9	23051.4								
ET			9.1						19500	20500
X1	1.822	20	19678.3	20353.4	510	510	510			
GR	2176.0	18366.1	2172.8	18647.9	2171.4	18833.9	2171.5	18931.3	2170.5	19060.4
GR	2170.3	19252.5	2170.2	19678.3	2170.0	20000.0	2170.0	20353.4	2170.8	20713.5
GR	2170.9	21020.0	2172.7	21273.6	2175.9	21475.8	2173.4	21723.5	2175.9	21744.7
GR	2172.7	21791.2	2174.8	21821.4	2174.3	21873.1	2176.0	22455.1	2177.2	22952.4
ET			9.1						19500	20500
X1	1.914	25	19578.5	20275.8	490	485	485			
GR	2176.0	18252.1	2174.4	18462.9	2175.5	18485.6	2174.1	18513.4	2172.4	18897.2
GR	2171.6	19076.8	2172.3	19089.4	2171.5	19125.8	2171.0	19136.6	2171.8	19159.2
GR	2171.8	19578.5	2171.3	19871.4	2171.1	20000.0	2171.6	20275.8	2171.4	20557.2
GR	2172.7	20754.7	2171.6	20790.2	2172.5	20823.0	2172.0	20875.6	2173.4	20895.4
GR	2172.7	21233.4	2173.8	21604.9	2175.6	21923.6	2176.6	22428.0	2177.4	22620.6

BT	2	7500	7500							
ET			9.1						19500	20500
X1	2.008	27	19971.4	20785.8	500	495	495			
GR	2180.0	17822.2	2176.9	18294.3	2175.3	18673.3	2173.2	18970.3	2173.1	19156.1
GR	2172.4	19700.4	2175.0	19723.7	2171.0	19751.8	2171.5	19812.4	2176.6	19902.4
GR	2170.1	19944.2	2170.5	19971.4	2174.0	20000.0	2173.6	20056.9	2170.8	20093.8
GR	2173.0	20785.8	2177.4	20828.5	2177.3	20862.5	2169.7	20878.2	2169.7	20950.0
GR	2176.2	20963.2	2177.4	20984.9	2172.5	21023.8	2175.5	21859.2	2178.5	22514.0
GR	2180.8	23322.7	2181.2	23502.2						
ET			9.1						19500	20500
X1	2.103	28	20000.0	21027.7	505	505	505			
GR	2180.0	17874.8	2177.5	18505.8	2176.6	18759.0	2179.8	18798.3	2174.8	18856.5
GR	2176.7	18896.5	2176.0	18998.6	2174.8	19394.4	2171.5	19411.1	2171.7	19444.4
GR	2179.5	19474.5	2173.3	19493.7	2173.0	20000.0	2174.4	21027.7	2176.7	21046.9
GR	2173.8	21073.2	2178.7	21133.3	2178.7	21151.1	2172.1	21166.8	2172.1	21239.5
GR	2177.5	21247.4	2177.8	21273.1	2172.6	21286.1	2175.6	21305.8	2174.2	21313.2
GR	2175.7	22048.4	2179.6	22756.4	2181.1	23101.2				
ET			9.1						19500	20500
X1	2.196	26	19639.0	21104.6	490	490	490			
GR	2180.0	18273.3	2177.5	18682.0	2175.7	19265.5	2175.2	19540.2	2171.8	19562.6
GR	2171.8	19579.6	2180.0	19619.0	2179.9	19627.0	2174.2	19639.0	2174.0	20000.0
GR	2175.3	21104.6	2175.6	21381.2	2177.9	21399.2	2177.4	21431.2	2174.5	21445.3
GR	2175.0	21465.2	2179.3	21495.7	2179.3	21513.1	2171.9	21533.9	2170.8	21603.5
GR	2177.7	21622.6	2180.1	21641.7	2173.6	21659.9	2175.4	21683.2	2176.9	22178.2
GR	2181.1	22973.1								
ET			9.1						19550	20450
X1	2.291	26	19580.0	20720.3	500	500	500			
GR	2180.0	18116.3	2177.8	18688.6	2176.4	19485.1	2173.8	19520.3	2180.3	19553.5
GR	2180.1	19567.2	2176.2	19580.0	2175.5	20000.0	2176.1	20720.3	2177.7	21534.4
GR	2178.8	21554.3	2178.8	21600.5	2175.6	21609.2	2175.6	21627.1	2181.0	21648.0
GR	2181.0	21670.4	2170.2	21692.8	2169.8	21757.3	2178.7	21764.0	2180.1	21801.1
GR	2175.8	21810.9	2180.1	22522.4	2181.0	22554.6	2180.8	22844.9	2182.3	22857.9
GR	2182.3	22859.6								
ET			9.1						19550	20450
X1	2.384	23	19611.5	20000.0	485	495	490			
GR	2180.0	18250.2	2178.1	18914.3	2176.4	19460.6	2174.8	19524.3	2174.8	19549.4
GR	2181.0	19567.6	2176.0	19587.1	2176.0	19611.5	2175.6	20000.0	2178.5	21585.5
GR	2179.9	21595.2	2179.9	21770.4	2182.9	21806.3	2177.8	21820.8	2178.0	21870.5
GR	2183.0	21895.4	2183.0	21912.0	2173.3	21932.3	2173.3	21960.5	2180.4	21979.8
GR	2180.4	22026.5	2179.2	22051.7	2179.4	22537.6				
ET			9.1						19600	20400
X1	2.478	17	19672.0	20698.2	495	500	500			
GR	2180.1	18419.0	2178.5	19228.3	2177.3	19563.3	2176.1	19621.0	2181.4	19650.9
GR	2181.4	19658.8	2177.4	19672.0	2176.7	20000.0	2177.8	20698.2	2179.9	21993.9
GR	2180.6	22106.3	2184.4	22117.8	2179.9	22139.8	2179.7	22192.0	2183.9	22213.7
GR	2183.9	22232.8	2183.9	22274.4						

ET			9.1						19600	20400
X1	2.570	17	19707.7	20000.0	490	485	485			
GR	2184.1	17596.5	2184.4	18438.1	2181.8	18466.1	2178.0	19572.8	2175.6	19621.0
GR	2181.7	19678.6	2177.6	19707.7	2176.2	20000.0	2178.9	21268.9	2180.1	22047.3
GR	2180.9	22354.6	2184.9	22371.9	2180.9	22393.6	2180.9	22441.1	2185.7	22466.2
GR	2185.7	22484.2	2183.0	22540.0						

ET			9.1						19600	20400
X1	2.666	26	19769.3	20777.6	505	505	505			
GR	2188.0	17243.8	2187.3	17751.9	2186.3	17776.7	2184.7	17793.7	2183.7	18684.2
GR	2184.4	18689.0	2184.4	18704.6	2181.8	18719.5	2177.7	19701.0	2179.9	19724.1
GR	2177.9	19769.3	2177.1	19855.0	2175.7	19880.6	2181.7	19934.0	2177.7	19948.5
GR	2177.6	20000.0	2178.6	20777.6	2180.2	21582.1	2183.8	22622.9	2186.8	22634.5
GR	2182.2	22655.7	2182.4	22711.1	2185.8	22731.0	2185.8	22742.1	2183.0	22753.1
GR	2183.8	23009.7								

ET			9.1						19600	20400
X1	2.759	20	20000.0	20590.6	420	550	490			
GR	2188.0	17132.6	2187.0	17936.7	2183.7	17951.8	2183.1	18920.3	2181.1	18936.5
GR	2178.3	20000.0	2178.2	20106.6	2176.5	20145.8	2182.9	20202.0	2178.6	20219.6
GR	2178.5	20266.2	2178.9	20590.6	2182.1	21422.2	2182.8	21905.7	2183.8	22422.1
GR	2186.3	22951.1	2187.0	22978.6	2187.6	23031.0	2186.5	23072.6	2186.7	23125.1

ET			9.1						19550	20400
X1	2.853	19	20000.0	20575.5	390	600	500			
GR	2188.0	17033.1	2187.1	17941.5	2183.8	17972.9	2182.7	19078.2	2179.8	19100.3
GR	2178.9	20000.0	2178.9	20390.8	2177.0	20435.1	2177.4	20475.6	2183.3	20511.8
GR	2179.0	20532.8	2178.9	20575.5	2184.2	21721.4	2184.9	21773.0	2185.9	21788.3
GR	2184.8	21813.9	2185.6	22708.3	2187.3	22724.2	2187.2	22884.7		

ET			9.1						19550	20450
X1	2.950	23	19569.1	20550.3	370	610	510			
GR	2188.0	17068.2	2187.0	18175.5	2184.1	18205.8	2181.5	19518.6	2182.8	19530.7
GR	2182.3	19546.3	2179.9	19569.1	2179.5	20000.0	2180.7	20480.6	2178.5	20510.2
GR	2181.7	20550.3	2187.8	20580.7	2182.8	20634.3	2177.7	20686.1	2178.8	20873.8
GR	2182.2	20980.6	2183.4	21025.0	2180.3	21066.6	2180.2	21130.4	2182.5	21140.2
GR	2184.4	22454.8	2186.5	22468.6	2186.8	22759.6				

ET			9.1						19500	20500
X1	3.044	33	20000.0	20569.4	495	500	495			
GR	2188.0	17404.6	2186.8	17982.3	2185.3	18851.2	2182.5	18863.8	2181.3	20000.0
GR	2181.3	20182.3	2181.9	20193.4	2180.9	20225.9	2180.0	20267.0	2180.3	20327.7
GR	2181.2	20412.4	2180.0	20431.4	2181.3	20439.1	2180.4	20473.4	2181.1	20569.4
GR	2181.7	20581.7	2178.0	20629.9	2178.1	20655.2	2184.1	20687.9	2183.9	20706.0
GR	2176.2	20723.8	2175.9	20752.2	2183.7	20768.8	2181.9	20799.5	2180.6	20823.2
GR	2182.4	21648.4	2183.7	21661.5	2183.8	21714.5	2181.1	21748.7	2183.4	21774.4
GR	2184.4	22356.0	2185.6	22436.0	2186.8	23131.6				

ET			9.1						19450	20550
X1	3.137	31	20000.0	20443.6	495	495	495			
GR	2188.0	17854.4	2188.0	17981.7	2184.1	17995.5	2184.6	18011.8	2188.8	18034.2
GR	2188.6	18065.6	2186.3	18084.4	2183.7	19502.5	2181.8	19514.7	2181.8	20000.0
GR	2181.6	20193.0	2185.6	20221.7	2178.9	20255.7	2179.1	20284.4	2186.3	20305.7
GR	2186.1	20322.9	2175.3	20349.0	2175.1	20368.3	2185.0	20401.2	2183.8	20419.9
GR	2180.2	20443.6	2185.6	22395.6	2184.2	22413.5	2186.5	22483.7	2188.4	23615.8
GR	2190.8	23634.3	2190.8	23654.1	2189.9	23668.5	2191.0	23801.8	2192.9	23813.1
GR	2192.9	23827.3								
ET			9.1						19500	20500
X1	3.234	19	19845.7	20793.9	505	500	505			
GR	2188.0	18240.9	2186.3	18619.3	2182.1	18635.9	2186.8	18667.2	2186.8	18690.7
GR	2184.3	18703.6	2183.4	19754.8	2185.4	19799.1	2185.4	19820.7	2178.9	19845.7
GR	2179.0	19889.9	2185.8	19912.7	2182.1	19971.0	2182.1	20000.0	2182.1	20793.9
GR	2183.6	20803.1	2183.6	20831.3	2181.8	20847.2	2187.3	22800.4		
ET			9.1						19550	20450
X1	3.328	19	19584.0	20000.1	495	500	500			
GR	2188.0	18490.8	2184.2	19259.3	2180.6	19313.5	2185.5	19334.8	2185.0	19380.5
GR	2183.1	19404.9	2185.0	19431.5	2185.0	19466.1	2177.9	19514.7	2185.6	19554.4
GR	2185.6	19584.0	2182.0	19637.2	2183.0	20000.0	2183.0	20000.1	2183.9	20796.7
GR	2184.2	21489.7	2184.8	21497.7	2184.3	21561.1	2188.5	22918.0		
QT	2	4870	4870							
ET			9.1						19600	20400
X1	3.421	16	19900.0	20062.0	495	500	495			
GR	2191.6	17938.6	2188.2	18687.5	2183.7	19873.2	2180.3	19888.0	2183.4	19900.0
GR	2181.1	19919.7	2186.9	19977.4	2186.9	20000.0	2186.9	20000.1	2185.8	20036.5
GR	2184.2	20062.0	2184.8	20928.3	2186.3	22151.1	2188.9	22176.6	2187.2	22203.1
GR	2191.9	23617.4								
ET			9.1						19650	20350
X1	3.516	18	19865.7	20620.0	500	500	500			
GR	2192.0	18139.1	2187.9	19109.4	2185.1	19865.7	2185.6	20000.0	2185.6	20000.1
GR	2185.4	20620.0	2187.6	20641.4	2186.9	20717.3	2186.1	20776.6	2188.2	22126.4
GR	2189.2	22131.8	2189.2	22147.6	2188.2	22167.9	2191.5	22824.4	2193.0	22828.2
GR	2191.6	22874.7	2190.6	22893.4	2192.0	23300.3				
ET			9.1						19650	20350
X1	3.611	11	20000.0	20535.5	500	500	500			
GR	2192.0	18359.9	2187.8	19510.2	2187.1	20000.0	2187.1	20000.1	2187.7	20535.5
GR	2187.7	21261.0	2189.5	21278.7	2188.9	21350.6	2188.2	21368.6	2188.9	21761.5
GR	2193.4	23382.9								
ET			9.1						19700	20300
X1	3.706	18	20000.0	20690.8	505	505	505			
GR	2193.0	18865.6	2189.6	19330.9	2188.4	19699.5	2188.3	20000.0	2188.3	20000.1
GR	2188.8	20690.8	2189.4	21341.6	2193.3	21356.1	2184.9	21380.1	2184.9	21403.5
GR	2193.7	21423.5	2189.4	21445.4	2190.7	21881.7	2188.9	21918.8	2191.4	21946.7
GR	2191.4	21977.7	2190.3	21989.8	2192.5	22887.6				

ET			9.1						19700	20300
X1	3.798	18	20000.0	20918.3	485	485	485			
GR	2196.0	18291.2	2194.3	18851.6	2191.2	19216.0	2190.0	19417.1	2190.4	19571.6
GR	2189.2	20000.0	2189.2	20000.1	2189.2	20010.7	2190.5	20918.3	2188.0	20941.6
GR	2191.3	20961.0	2191.0	21138.4	2189.9	21153.7	2193.4	22512.3	2192.3	22543.5
GR	2195.0	22583.0	2193.6	22616.9	2196.5	23665.6				
ET			9.1						19700	20300
X1	3.893	21	19736.3	20377.1	500	495	500			
GR	2196.0	18407.4	2195.3	18897.2	2191.1	19498.5	2191.8	19630.2	2189.9	19668.1
GR	2191.1	19736.3	2190.7	20000.0	2190.7	20000.1	2190.7	20036.0	2188.4	20048.3
GR	2191.0	20060.5	2190.9	20353.7	2188.3	20370.1	2191.0	20377.1	2191.3	20487.0
GR	2189.8	20507.7	2192.3	20521.7	2190.3	20562.1	2190.3	20580.3	2191.9	20590.7
GR	2197.0	23105.9								
ET			9.1						19700	20300
X1	3.988	20	19835.8	20237.3	500	500	500			
GR	2196.0	18688.9	2194.9	19199.1	2192.4	19502.2	2196.0	19564.2	2193.0	19616.3
GR	2193.5	19794.9	2189.1	19835.8	2194.4	19854.0	2192.5	19889.7	2192.4	20000.0
GR	2192.4	20000.1	2192.3	20163.3	2190.3	20174.1	2190.3	20200.8	2193.8	20218.6
GR	2192.3	20237.3	2193.4	20947.0	2194.7	20973.2	2193.8	21003.1	2196.2	22246.0
ET			9.1						19700	20300
X1	4.081	19	19645.3	20170.9	495	495	495			
GR	2198.0	18727.0	2197.0	19189.0	2193.7	19443.8	2193.7	19645.3	2191.6	19664.4
GR	2191.6	19694.0	2196.6	19718.0	2192.4	19772.7	2192.0	19822.6	2194.3	19869.5
GR	2193.1	20000.0	2193.1	20000.1	2193.1	20160.7	2194.2	20170.9	2193.2	20227.2
GR	2194.8	20938.2	2196.4	21614.9	2197.0	21636.6	2197.9	22165.3		
ET			9.1						19700	20300
X1	4.178	19	19523.5	20000.1	510	515	510			
GR	2200.0	18283.6	2199.7	18631.4	2197.2	19012.3	2194.9	19292.3	2193.1	19328.3
GR	2193.9	19384.2	2192.3	19412.0	2196.4	19442.9	2196.4	19463.1	2193.6	19485.1
GR	2195.8	19493.3	2193.8	19523.5	2193.9	20000.0	2193.9	20000.1	2196.0	20833.3
GR	2197.4	20868.8	2196.6	20886.5	2198.8	21918.9	2200.9	22698.1		
ET			9.1						19700	20300
X1	4.270	21	19671.5	20042.2	490	485	485			
GR	2200.0	18492.4	2197.7	19002.4	2195.1	19508.0	2191.5	19530.3	2194.9	19548.2
GR	2194.9	19657.5	2196.4	19671.5	2194.7	19918.7	2193.5	19954.7	2194.7	19977.2
GR	2194.7	20000.0	2194.7	20000.1	2194.9	20035.0	2196.8	20042.2	2196.2	20083.3
GR	2194.9	20100.7	2196.9	20883.7	2198.8	21464.9	2200.4	21506.2	2199.3	21536.9
GR	2201.1	22307.7								
ET			9.1						19700	20300
X1	4.362	17	19718.4	20000.1	490	480	485			
GR	2200.0	18445.1	2198.1	19171.0	2195.6	19436.7	2195.4	19669.3	2192.9	19699.1
GR	2196.0	19718.4	2192.9	19742.7	2193.8	19806.4	2198.9	19843.6	2195.6	19874.9
GR	2195.8	20000.0	2195.8	20000.1	2196.5	20353.7	2198.1	20363.1	2198.0	20705.1
GR	2199.4	20719.7	2201.2	21701.9						

ET			9.1						19700	20300
X1	4.455	9	19746.4	20000.1	485	495	490			
GR	2200.0	18616.2	2195.8	19652.0	2197.0	19746.4	2193.5	19776.0	2196.8	19785.9
GR	2195.9	20000.0	2195.9	20000.1	2199.0	20797.2	2200.5	21244.4		
ET			9.1						19700	20300
X1	4.552	11	19824.5	20000.1	375	650	515			
GR	2200.0	18721.4	2197.6	19376.0	2196.3	19824.5	2197.6	19836.5	2194.9	19865.5
GR	2197.2	19893.5	2196.2	19908.8	2197.2	20000.0	2197.2	20000.1	2198.9	20957.8
GR	2200.2	21183.8								
ET			9.1						19700	20300
X1	4.647	15	19969.6	20522.3	500	500	500			
GR	2204.0	18267.2	2204.0	18267.3	2201.4	19032.3	2199.4	19431.2	2198.1	19969.6
GR	2194.8	20000.0	2195.7	20000.1	2196.9	20051.7	2195.5	20072.0	2197.1	20085.4
GR	2198.3	20522.3	2198.9	20801.7	2200.2	21092.9	2201.9	21402.9	2204.9	22195.3
ET			9.1						19750	20250
X1	4.740	16	20000.0	20423.6	490	495	490			
GR	2204.0	18557.2	2202.6	18967.1	2201.5	19279.8	2199.1	19730.3	2197.6	20000.0
GR	2197.6	20000.1	2197.1	20055.0	2197.8	20075.0	2198.0	20149.6	2194.6	20174.3
GR	2197.7	20188.6	2198.8	20423.6	2200.3	20794.6	2200.7	21085.9	2203.4	21543.2
GR	2204.3	21817.6								
ET			9.1						19750	20250
X1	4.833	12	20000.0	20507.2	495	495	495			
GR	2204.0	18764.1	2200.3	19556.2	2198.9	20000.0	2198.9	20000.1	2198.2	20106.9
GR	2198.2	20151.8	2196.4	20162.4	2199.4	20188.0	2199.8	20507.2	2201.9	20886.3
GR	2204.9	21585.8	2205.0	21684.3						
ET			9.1						19750	20250
X1	4.928	13	19905.5	20154.1	505	500	500			
GR	2204.0	18931.9	2200.9	19576.7	2200.6	19905.5	2198.5	20000.0	2198.5	20000.1
GR	2196.9	20019.0	2199.3	20047.6	2198.4	20115.2	2197.2	20142.2	2200.3	20154.1
GR	2202.0	20657.9	2203.0	20920.0	2204.1	21064.5				
ET			9.1						19750	20250
X1	5.025	14	19944.3	20081.0	440	570	510			
GR	2204.0	19063.1	2201.8	19643.7	2200.3	19944.3	2199.4	19970.3	2199.6	20000.0
GR	2199.6	20000.1	2199.1	20067.2	2201.8	20081.0	2201.7	20192.7	2199.1	20215.8
GR	2200.0	20364.8	2201.9	20524.4	2204.1	20843.9	2204.6	20959.5		
ET			9.1						19750	20250
X1	5.117	16	19905.4	20148.4	490	495	490			
GR	2208.0	18487.4	2205.6	19175.9	2202.7	19643.9	2201.9	19905.4	2199.1	19929.8
GR	2202.0	19955.0	2202.7	20000.0	2202.7	20000.1	2201.4	20086.9	2199.8	20131.3
GR	2201.8	20148.4	2203.1	20422.8	2201.2	20438.3	2202.9	20448.8	2204.5	20903.9
GR	2209.7	21825.5								

ET			9.1						19750	20250
X1	5.211	13	20000.0	20386.0	495	500	495			
GR	2208.1	18758.8	2206.8	19230.4	2205.1	19573.3	2203.1	20000.0	2203.1	20000.1
GR	2204.5	20386.0	2205.6	20812.6	2204.1	20834.8	2205.9	20854.8	2209.2	21400.6
GR	2207.3	21440.0	2209.7	21475.2	2209.5	21532.7				
ET			9.1						19750	20250
X1	5.304	11	20000.0	20354.6	490	490	490			
GR	2208.0	19016.9	2206.2	19520.1	2204.4	20000.0	2204.4	20000.1	2205.2	20354.6
GR	2206.0	20648.0	2206.8	20828.8	2205.9	20839.8	2205.9	20857.1	2206.8	20865.2
GR	2208.8	21316.0								
ET			9.1						19750	20250
X1	5.400	12	20000.0	20538.7	505	505	505			
GR	2212.0	18478.7	2210.1	18983.9	2205.3	20000.0	2205.3	20000.1	2205.8	20285.4
GR	2206.5	20538.7	2207.6	20866.9	2206.6	20884.8	2206.7	20893.6	2207.8	20904.2
GR	2211.2	21518.4	2212.1	21796.7						
ET			9.1						19750	20250
X1	5.493	12	20000.0	20689.6	495	495	495			
GR	2212.0	18557.5	2211.6	18969.3	2209.9	19263.0	2206.2	20000.0	2206.2	20000.1
GR	2206.7	20306.7	2207.6	20689.6	2208.4	20869.5	2207.4	20888.3	2208.6	20905.5
GR	2210.1	21267.7	2211.5	21500.0						
ET			9.1						19750	20250
X1	5.592	11	20000.0	20452.6	515	520	520			
GR	2212.0	18839.6	2209.6	19380.1	2207.5	19816.3	2206.3	20000.0	2206.3	20000.1
GR	2208.0	20189.8	2208.8	20452.6	2209.4	20711.6	2210.1	20930.8	2211.5	21136.9
GR	2213.5	21588.8								
ET			9.1						19750	20250
X1	5.685	12	20000.0	20370.0	490	490	490			
GR	2212.0	19039.1	2209.6	19463.5	2208.3	19765.3	2207.7	20000.0	2207.7	20000.1
GR	2209.0	20370.0	2209.6	20706.3	2210.3	20904.3	2209.4	20918.7	2209.4	20928.4
GR	2210.5	20934.1	2211.4	21203.4						

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T1      METHOD 1
T2      FLOODWAY ANALYSIS
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                                 2159.42

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                 -1
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THIS RUN EXECUTED 5/17/90 9: 0:44

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

URS FILE: GRASS.FW1 GRAS

SUMMARY PRINTOUT

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	.001	2158.42	8.82	2149.60	4.47	11100.00	11100.00	.00	19852.50	20147.50
	.001	2159.42	9.82	2149.60	3.99	11100.00	11100.00	.00	19852.50	20147.50
	.004	2159.13	9.53	2149.60	4.12	11100.00	11100.00	15.00	19852.50	20147.50
	.004	2159.95	10.35	2149.60	3.78	11100.00	11100.00	15.00	19852.50	20147.50
*	.028	2159.00	8.10	2150.90	6.71	11100.00	11100.00	135.00	19895.69	20104.31
*	.028	2159.84	8.94	2150.90	6.06	11100.00	11100.00	135.00	19895.25	20104.75
	.037	2159.74	8.84	2150.90	6.13	11100.00	11100.00	45.00	19895.29	20104.71
	.037	2160.60	9.70	2150.90	5.57	11100.00	11100.00	45.00	19895.00	20105.00
*	.132	2160.51	9.31	2151.20	1.51	11100.00	8193.49	500.00	18565.06	20578.20
*	.132	2161.26	10.06	2151.20	2.51	11100.00	11100.00	500.00	19700.00	20300.00
	.223	2160.59	6.89	2153.70	1.60	11100.00	8364.45	485.00	18660.74	20944.90
	.223	2161.45	7.75	2153.70	2.27	11100.00	10474.24	485.00	19550.00	20450.00
	.317	2160.69	5.39	2155.30	1.43	11100.00	2903.95	495.00	18700.96	21098.23
	.317	2161.63	6.33	2155.30	1.88	11100.00	4602.06	495.00	19400.00	20600.00
	.411	2160.79	4.69	2156.10	1.28	11100.00	4747.27	495.00	18887.06	21547.40
	.411	2161.76	5.66	2156.10	1.57	11100.00	7271.26	495.00	19250.00	20750.00
	.505	2160.89	6.49	2154.40	1.25	11100.00	2281.42	495.00	18949.86	22022.54
	.505	2161.88	7.48	2154.40	1.60	11100.00	3702.93	495.00	19175.00	20825.00
*	.600	2161.04	3.04	2158.00	1.68	11100.00	2446.15	505.00	18997.21	22142.95
*	.600	2162.04	4.04	2158.00	2.17	11100.00	4505.05	505.00	19200.00	20800.00
*	.694	2161.56	2.86	2158.70	2.72	11100.00	2828.07	495.00	18796.61	22212.11
*	.694	2162.48	3.78	2158.70	2.99	11100.00	4456.43	495.00	19300.00	20700.00

	SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
*	.786	2163.10	2.20	2160.90	4.33	11100.00	5759.29	485.00	19128.42	21450.21
*	.786	2163.51	2.61	2160.90	4.90	11100.00	5995.02	485.00	19400.00	20600.00
*	.880	2164.59	2.49	2162.10	2.30	11100.00	4802.12	495.00	18693.65	21897.53
*	.880	2165.33	3.23	2162.10	3.28	11100.00	9212.74	495.00	19400.00	20600.00
	.974	2165.44	1.94	2163.50	2.68	11100.00	5266.75	500.00	18794.23	21927.65
	.974	2166.33	2.83	2163.50	3.40	11100.00	7837.91	500.00	19400.00	20600.00
	1.068	2166.39	2.19	2164.20	2.33	11100.00	3421.88	495.00	18319.41	21940.84
	1.068	2167.28	3.08	2164.20	3.01	11100.00	6444.54	495.00	19350.00	20650.00
	1.161	2167.17	2.07	2165.10	2.40	11100.00	4073.59	490.00	19040.19	22145.70
	1.161	2168.11	3.01	2165.10	3.08	11100.00	6223.52	490.00	19300.00	20700.00
	1.256	2167.84	4.64	2163.20	2.21	11100.00	3371.48	500.00	18977.51	22278.06
	1.256	2168.81	5.61	2163.20	2.56	11100.00	5564.40	500.00	19300.00	20700.00
*	1.350	2168.65	2.25	2166.40	3.00	11100.00	3902.13	500.00	18846.76	22069.61
*	1.350	2169.47	3.07	2166.40	3.60	11100.00	6625.90	500.00	19350.00	20650.00
*	1.443	2169.55	4.35	2165.20	2.34	11100.00	3860.87	490.00	18947.41	22067.75
	1.443	2170.41	5.21	2165.20	3.01	11100.00	6760.15	490.00	19400.00	20600.00
*	1.539	2170.44	2.84	2167.60	3.19	11100.00	4194.99	505.00	18792.04	21846.43
*	1.539	2171.32	3.72	2167.60	4.15	11100.00	7879.54	505.00	19450.00	20550.00
*	1.631	2171.38	3.38	2168.00	2.96	11100.00	5712.16	485.00	18795.58	21904.04
*	1.631	2172.23	4.23	2168.00	2.98	11100.00	7244.52	485.00	19500.00	20500.00
	1.725	2172.07	2.87	2169.20	2.40	11100.00	5268.42	500.00	18620.04	21799.40
	1.725	2172.85	3.65	2169.20	3.47	11100.00	9220.88	500.00	19500.00	20500.00
	1.822	2172.70	2.70	2170.00	2.33	11100.00	4166.63	510.00	18661.81	21272.95
	1.822	2173.68	3.68	2170.00	3.13	11100.00	7691.78	510.00	19500.00	20500.00
*	1.914	2173.47	2.47	2171.00	3.27	11100.00	4691.02	485.00	18656.47	21492.20
	1.914	2174.45	3.45	2171.00	3.76	11100.00	8005.49	485.00	19500.00	20500.00
	2.008	2174.34	4.64	2169.70	1.83	7500.00	3397.78	495.00	18809.03	21536.27
	2.008	2175.31	5.61	2169.70	2.49	7500.00	4635.35	495.00	19500.00	20500.00
*	2.103	2174.98	3.48	2171.50	2.31	7500.00	3036.16	505.00	18854.40	21695.64
	2.103	2175.87	4.37	2171.50	2.79	7500.00	3521.80	505.00	19500.00	20500.00
	2.196	2176.07	5.27	2170.80	2.07	7500.00	4727.53	490.00	19144.42	21905.48
	2.196	2176.73	5.93	2170.80	3.02	7500.00	6538.27	490.00	19500.00	20500.00
	2.291	2177.05	7.25	2169.80	2.21	7500.00	3109.34	500.00	19113.45	22018.25
	2.291	2177.99	8.19	2169.80	3.88	7500.00	7489.26	500.00	19574.15	20450.00

	SECND	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
	2.384	2178.15	4.85	2173.30	2.53	7500.00	2300.91	490.00	18898.86	21973.67
*	2.384	2179.07	5.77	2173.30	2.81	7500.00	3557.78	490.00	19550.00	20450.00
	2.478	2179.06	2.96	2176.10	2.83	7500.00	5445.39	500.00	18943.06	21478.09
	2.478	2179.82	3.72	2176.10	3.51	7500.00	7105.20	500.00	19600.00	20400.00
*	2.570	2179.75	4.15	2175.60	2.06	7500.00	1706.00	485.00	19066.27	21813.27
*	2.570	2180.55	4.95	2175.60	2.58	7500.00	2754.46	485.00	19600.00	20400.00
	2.666	2180.23	4.53	2175.70	2.37	7500.00	5282.23	505.00	19095.17	21590.99
	2.666	2181.07	5.37	2175.70	3.05	7500.00	6208.77	505.00	19600.00	20400.00
	2.759	2180.98	4.48	2176.50	2.88	7500.00	3976.14	490.00	18984.07	21129.79
	2.759	2181.75	5.25	2176.50	3.19	7500.00	4024.42	490.00	19600.00	20400.00
*	2.853	2181.55	4.55	2177.00	2.03	7500.00	3137.18	500.00	19087.00	21147.47
	2.853	2182.35	5.35	2177.00	2.71	7500.00	3740.32	500.00	19550.00	20400.00
	2.950	2182.01	4.31	2177.70	2.16	7500.00	4445.18	510.00	19262.82	21138.10
	2.950	2182.89	5.19	2177.70	2.80	7500.00	7422.13	510.00	19550.00	20450.00
	3.044	2182.71	6.81	2175.90	2.17	7500.00	2242.38	495.00	18862.86	21766.69
	3.044	2183.68	7.78	2175.90	3.31	7500.00	4586.86	495.00	19500.00	20500.00
	3.137	2183.43	8.33	2175.10	2.58	7500.00	2432.75	495.00	19504.22	21611.85
*	3.137	2184.41	9.31	2175.10	2.58	7500.00	3380.81	495.00	19450.00	20550.00
	3.234	2184.18	5.28	2178.90	2.58	7500.00	5215.82	505.00	18627.70	21690.97
	3.234	2185.03	6.13	2178.90	3.30	7500.00	6420.45	505.00	19500.00	20500.00
	3.328	2184.99	7.09	2177.90	2.59	7500.00	2514.93	500.00	19099.38	21784.24
	3.328	2185.88	7.98	2177.90	3.17	7500.00	4234.45	500.00	19550.00	20450.00
*	3.421	2185.85	5.55	2180.30	2.76	4870.00	565.11	495.00	19306.98	21783.30
*	3.421	2186.66	6.36	2180.30	2.44	4870.00	720.72	495.00	19600.00	20400.00
	3.516	2187.05	1.95	2185.10	2.83	4870.00	3369.47	500.00	19337.78	21390.06
	3.516	2187.61	2.51	2185.10	3.30	4870.00	3379.51	500.00	19650.00	20350.00
	3.611	2188.68	1.58	2187.10	2.51	4870.00	1718.07	500.00	19269.68	21637.07
	3.611	2189.26	2.16	2187.10	3.62	4870.00	2491.44	500.00	19650.00	20350.00
	3.706	2189.92	5.02	2184.90	1.96	4870.00	1844.64	505.00	19287.73	21930.13
	3.706	2190.82	5.92	2184.90	3.28	4870.00	2386.77	505.00	19700.00	20300.00
	3.798	2191.05	3.05	2188.00	2.37	4870.00	2619.34	485.00	19241.61	21599.02
	3.798	2191.99	3.99	2188.00	3.38	4870.00	2614.69	485.00	19700.00	20300.00
	3.893	2192.49	4.19	2188.30	2.73	4870.00	2935.86	500.00	19299.02	20883.40
	3.893	2193.23	4.93	2188.30	3.41	4870.00	4573.47	500.00	19700.00	20300.00

SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
3.988	2193.97	4.87	2189.10	3.03	4870.00	2042.08	500.00	19310.96	21094.89
3.988	2194.65	5.55	2189.10	3.64	4870.00	3435.15	500.00	19700.00	20300.00
4.081	2195.17	3.57	2191.60	2.50	4870.00	2545.92	495.00	19330.43	21093.92
4.081	2195.95	4.35	2191.60	3.22	4870.00	3871.74	495.00	19700.00	20300.00
4.178	2196.00	3.70	2192.30	2.41	4870.00	2477.84	510.00	19157.87	20833.41
4.178	2196.90	4.60	2192.30	3.01	4870.00	2727.49	510.00	19700.00	20300.00
4.270	2196.90	5.40	2191.50	2.55	4870.00	1601.16	485.00	19158.27	20883.13
4.270	2197.75	6.25	2191.50	3.30	4870.00	2974.99	485.00	19700.00	20300.00
4.362	2197.74	4.84	2192.90	2.57	4870.00	1777.36	485.00	19209.61	20360.96
4.362	2198.60	5.70	2192.90	3.02	4870.00	2792.08	485.00	19700.00	20300.00
4.455	2198.45	4.95	2193.50	2.52	4870.00	1455.23	490.00	18998.90	20655.33
4.455	2199.27	5.77	2193.50	2.93	4870.00	2299.35	490.00	19700.00	20300.00
4.552	2199.12	4.22	2194.90	2.40	4870.00	1085.85	515.00	18961.27	20996.17
4.552	2199.99	5.09	2194.90	2.96	4870.00	1786.72	515.00	19700.00	20300.00
4.647	2199.77	4.97	2194.80	2.60	4870.00	3413.24	500.00	19354.75	20999.55
4.647	2200.60	5.80	2194.80	3.04	4870.00	3590.53	500.00	19700.00	20300.00
4.740	2200.49	5.89	2194.60	2.61	4870.00	2912.84	490.00	19470.22	20929.76
4.740	2201.20	6.60	2194.60	3.14	4870.00	2929.14	490.00	19750.00	20250.00
4.833	2201.26	4.86	2196.40	2.65	4870.00	2875.02	495.00	19350.69	20770.78
4.833	2201.92	5.52	2196.40	3.50	4870.00	2910.62	495.00	19750.00	20250.00
4.928	2202.15	5.25	2196.90	3.56	4870.00	2943.69	500.00	19315.84	20698.28
4.928	2202.75	5.85	2196.90	3.64	4870.00	3553.61	500.00	19750.00	20250.00
5.025	2202.94	3.84	2199.10	2.75	4870.00	1260.15	510.00	19343.64	20675.00
5.025	2203.56	4.46	2199.10	3.76	4870.00	2042.83	510.00	19750.00	20250.00
* 5.117	2203.78	4.68	2199.10	4.01	4870.00	2282.57	490.00	19469.10	20700.03
5.117	2204.51	5.41	2199.10	3.85	4870.00	2864.59	490.00	19750.00	20250.00
5.211	2205.65	2.55	2203.10	3.37	4870.00	2402.78	495.00	19463.09	20851.98
5.211	2205.98	2.88	2203.10	4.21	4870.00	2548.59	495.00	19750.00	20250.00
5.304	2206.96	2.56	2204.40	2.69	4870.00	2059.92	490.00	19307.50	20901.35
5.304	2207.53	3.13	2204.40	3.60	4870.00	2571.17	490.00	19750.00	20250.00
5.400	2207.92	2.61	2205.30	2.66	4870.00	2986.04	505.00	19446.34	20925.06
5.400	2208.63	3.33	2205.30	3.46	4870.00	2689.60	505.00	19750.00	20250.00
5.493	2208.82	2.62	2206.20	2.44	4870.00	3346.33	495.00	19476.00	20961.15
5.493	2209.57	3.37	2206.20	3.43	4870.00	2722.15	495.00	19750.00	20250.00

SECNO	CWSEL	DEPTH	ELMIN	VCH	Q	QCH	XLCH	SSTA	ENDST
5.592	2209.74	3.44	2206.30	2.42	4870.00	2049.49	520.00	19347.71	20819.29
5.592	2210.44	4.14	2206.30	2.94	4870.00	2252.86	520.00	19750.00	20250.00
5.685	2210.51	2.81	2207.70	2.22	4870.00	1776.85	490.00	19301.94	20938.19
5.685	2211.18	3.48	2207.70	3.10	4870.00	2355.11	490.00	19750.00	20250.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .028  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .028  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .132  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .132  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .600  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .600  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .694  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .694  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .786  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=     1.350  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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FLOODWAY DATA, URS FILE: GRASS.FW1 GRAS
PROFILE NO. 2

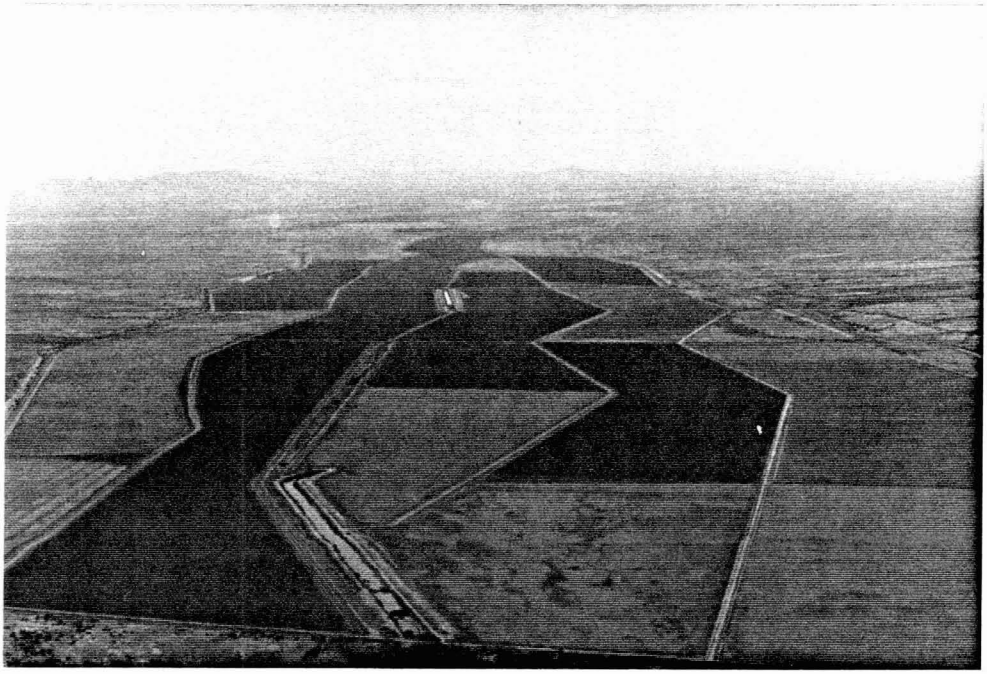
STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.001	295.	2781.	4.0	2159.4	2158.4	1.0
.004	295.	2937.	3.8	2160.0	2159.1	.9
.028	210.	1830.	6.1	2159.8	2159.0	.8
.037	210.	1991.	5.6	2160.6	2159.7	.9
.132	600.	4424.	2.5	2161.3	2160.5	.8
.223	900.	4954.	2.2	2161.4	2160.6	.8
.317	1200.	6196.	1.8	2161.6	2160.7	.9
.411	1500.	7091.	1.6	2161.8	2160.8	1.0
.505	1650.	7014.	1.6	2161.9	2160.9	1.0
.600	1600.	5182.	2.1	2162.0	2161.0	1.0
.694	1400.	3915.	2.8	2162.5	2161.6	.9
.786	1200.	2333.	4.8	2163.5	2163.1	.4
.880	1200.	3396.	3.3	2165.3	2164.6	.7
.974	1200.	3304.	3.4	2166.3	2165.4	.9
1.068	1300.	3706.	3.0	2167.3	2166.4	.9
1.161	1400.	3767.	2.9	2168.1	2167.2	.9
1.256	1400.	4424.	2.5	2168.8	2167.8	1.0
1.350	1300.	3163.	3.5	2169.5	2168.7	.8
1.443	1200.	3753.	3.0	2170.4	2169.5	.9
1.539	1100.	2802.	4.0	2171.3	2170.4	.9
1.631	1000.	3882.	2.9	2172.2	2171.4	.8
1.725	1000.	3177.	3.5	2172.9	2172.1	.8
1.822	1000.	3588.	3.1	2173.7	2172.7	1.0
1.914	1000.	2995.	3.7	2174.5	2173.5	1.0
2.008	1000.	3116.	2.4	2175.3	2174.3	1.0
2.103	1000.	2622.	2.9	2175.9	2175.0	.9
2.196	1000.	2445.	3.1	2176.7	2176.1	.6
2.291	876.	1935.	3.9	2178.0	2177.1	.9
2.384	900.	2759.	2.7	2179.1	2178.1	1.0
2.478	800.	2146.	3.5	2179.8	2179.1	.7
2.570	800.	2876.	2.6	2180.5	2179.7	.8
2.666	800.	2506.	3.0	2181.1	2180.2	.9
2.759	800.	2431.	3.1	2181.8	2181.0	.8
2.853	850.	2834.	2.6	2182.4	2181.5	.9
2.950	900.	2688.	2.8	2182.9	2182.0	.9
3.044	1000.	2442.	3.1	2183.7	2182.7	1.0
3.137	1100.	3065.	2.4	2184.4	2183.4	1.0
3.234	1000.	2435.	3.1	2185.0	2184.2	.8
3.328	900.	2527.	3.0	2185.9	2185.0	.9
3.421	800.	1880.	2.6	2186.7	2185.8	.9
3.516	700.	1480.	3.3	2187.6	2187.0	.6
3.611	700.	1356.	3.6	2189.3	2188.7	.6

FLOODWAY DATA, URS FILE: GRASS.FW1 GRAS
PROFILE NO. 2

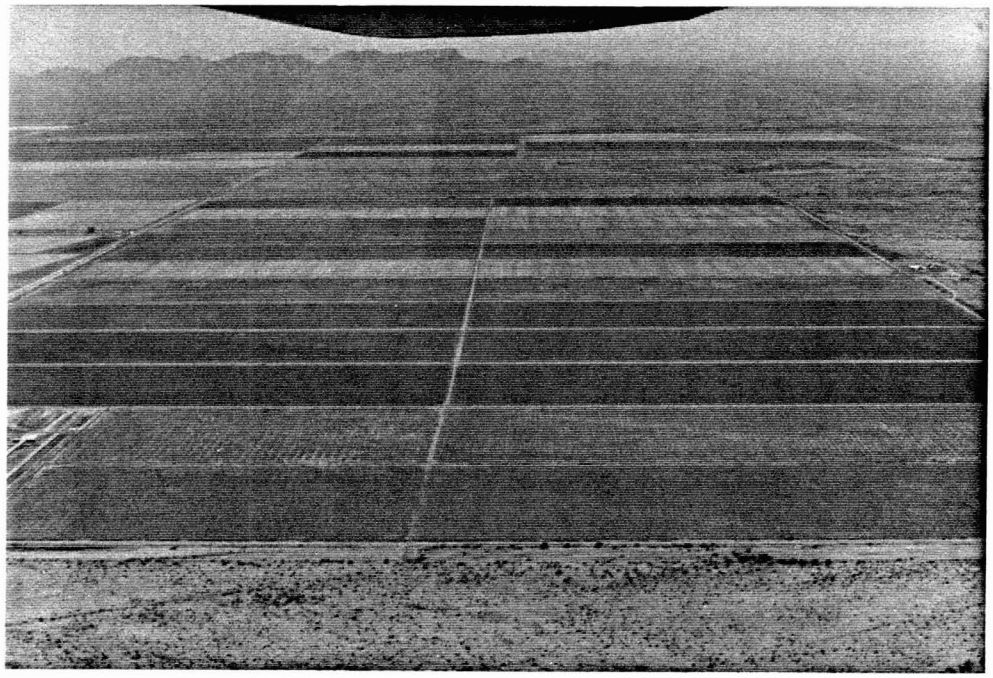
STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.706	600.	1472.	3.3	2190.8	2189.9	.9
3.798	600.	1482.	3.3	2192.0	2191.0	1.0
3.893	600.	1429.	3.4	2193.2	2192.5	.7
3.988	600.	1348.	3.6	2194.7	2194.0	.7
4.081	600.	1522.	3.2	2196.0	2195.2	.8
4.178	600.	1691.	2.9	2196.9	2196.0	.9
4.270	600.	1509.	3.2	2197.7	2196.9	.8
4.362	600.	1751.	2.8	2198.6	2197.7	.9
4.455	600.	1738.	2.8	2199.3	2198.4	.9
4.552	600.	1792.	2.7	2200.0	2199.1	.9
4.647	600.	1769.	2.8	2200.6	2199.8	.8
4.740	500.	1661.	2.9	2201.2	2200.5	.7
4.833	500.	1489.	3.3	2201.9	2201.3	.6
4.928	500.	1520.	3.2	2202.8	2202.2	.6
5.025	500.	1507.	3.2	2203.6	2202.9	.7
5.117	500.	1362.	3.6	2204.5	2203.8	.7
5.211	500.	1177.	4.1	2206.0	2205.6	.4
5.304	500.	1380.	3.5	2207.5	2207.0	.5
5.400	500.	1464.	3.3	2208.6	2207.9	.7
5.493	500.	1479.	3.3	2209.6	2208.8	.8
5.592	500.	1601.	3.0	2210.4	2209.7	.7
5.685	500.	1548.	3.1	2211.2	2210.5	.7

APPENDIX I

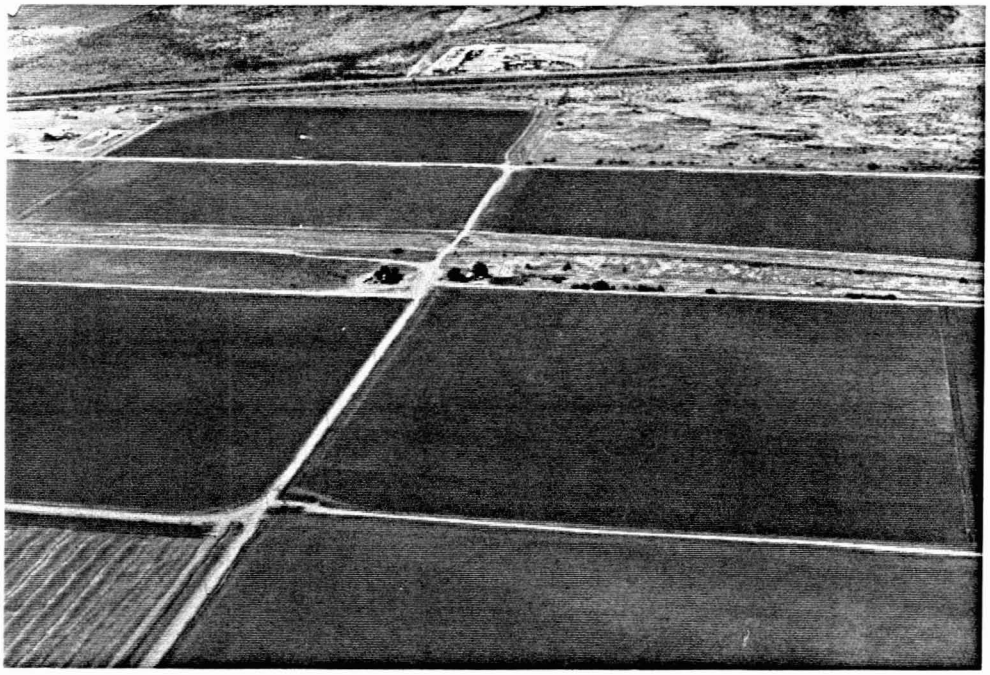
Representative field photos of hydraulic roughness of channels



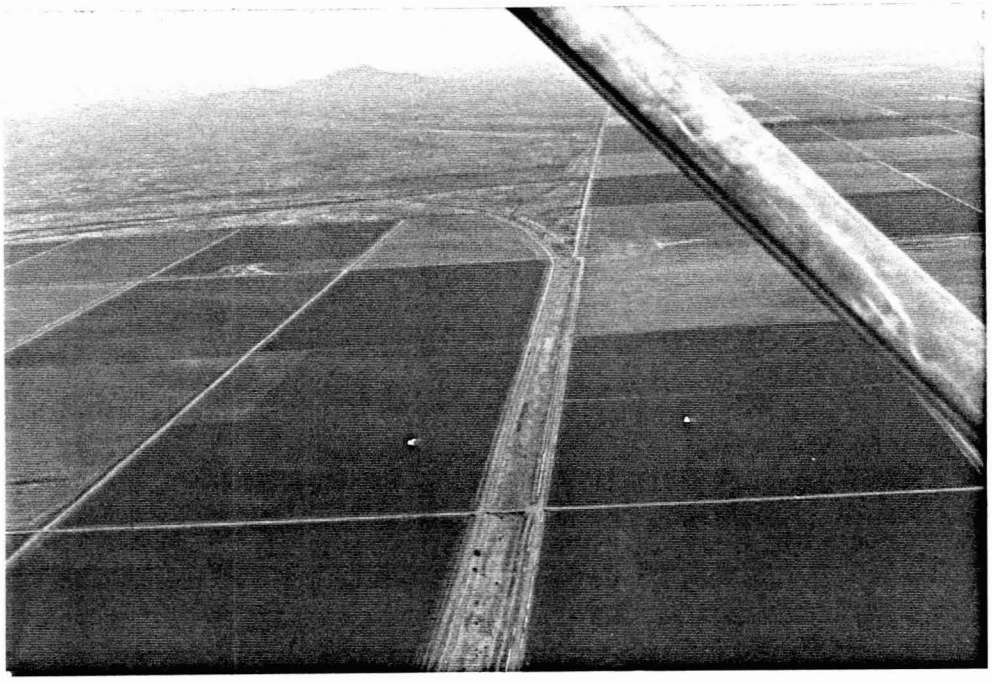
Aerial view of Upper Centennial Wash floodplain looking upstream from Maricopa/Yuma County line.



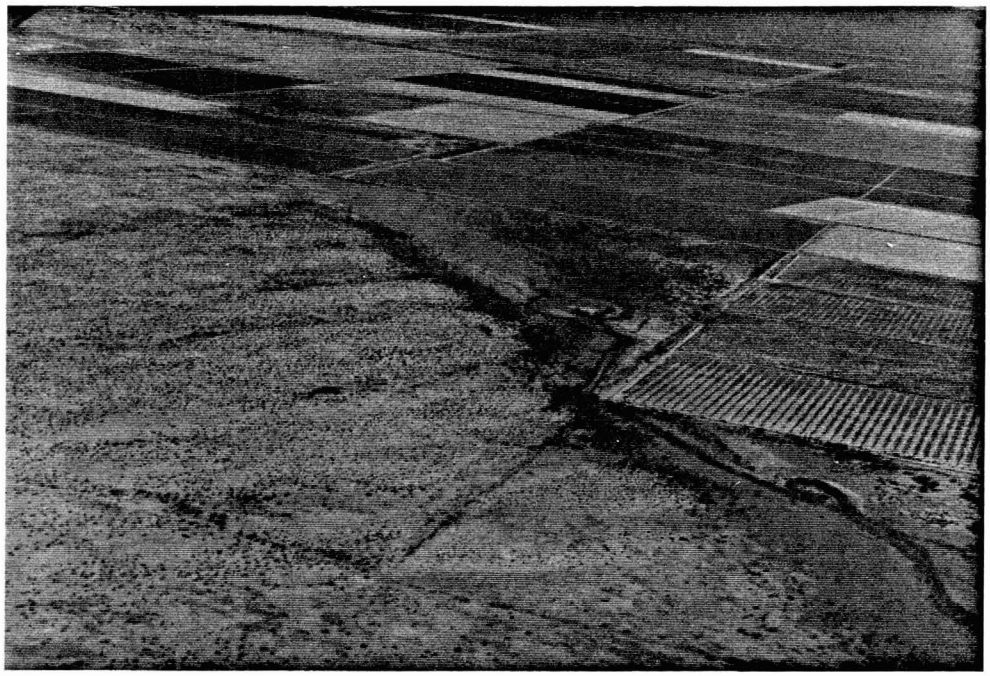
Aerial view of Upper Centennial Wash looking south from northern limit of floodplain.



Aerial view of Aguila Farm Channel/Grass Wash confluence looking south. North AT & SF trestle and US Highway 60/70 Bridges in top left corner of photo.

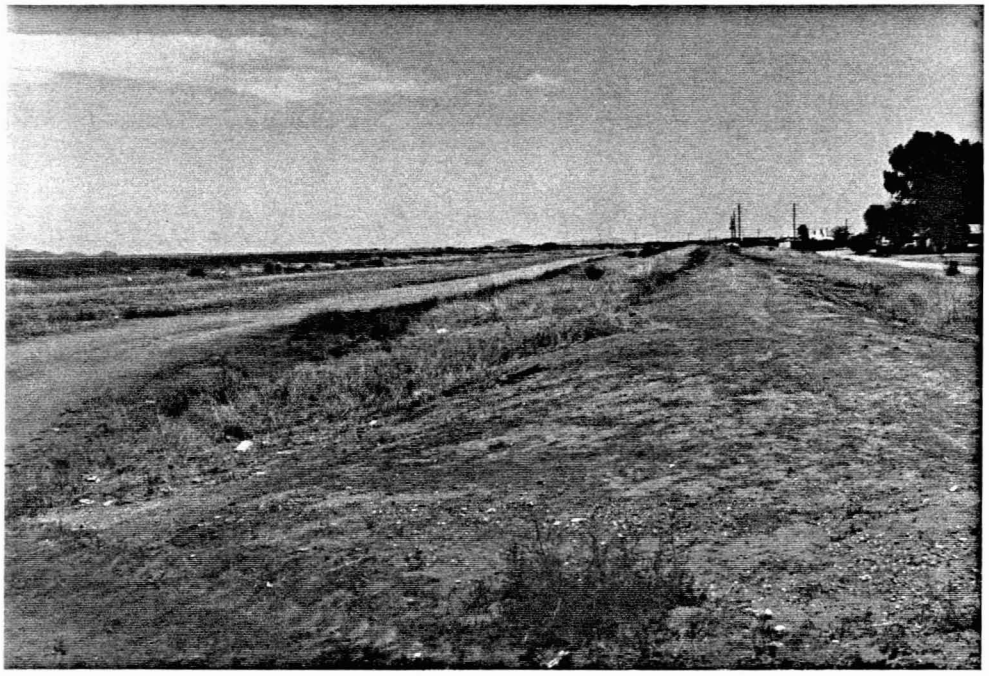


Aerial view of North Branch Upper Centennial Wash looking east from confluence with main stem of Upper Centennial Wash/Aguila Farm Channel drainage system.

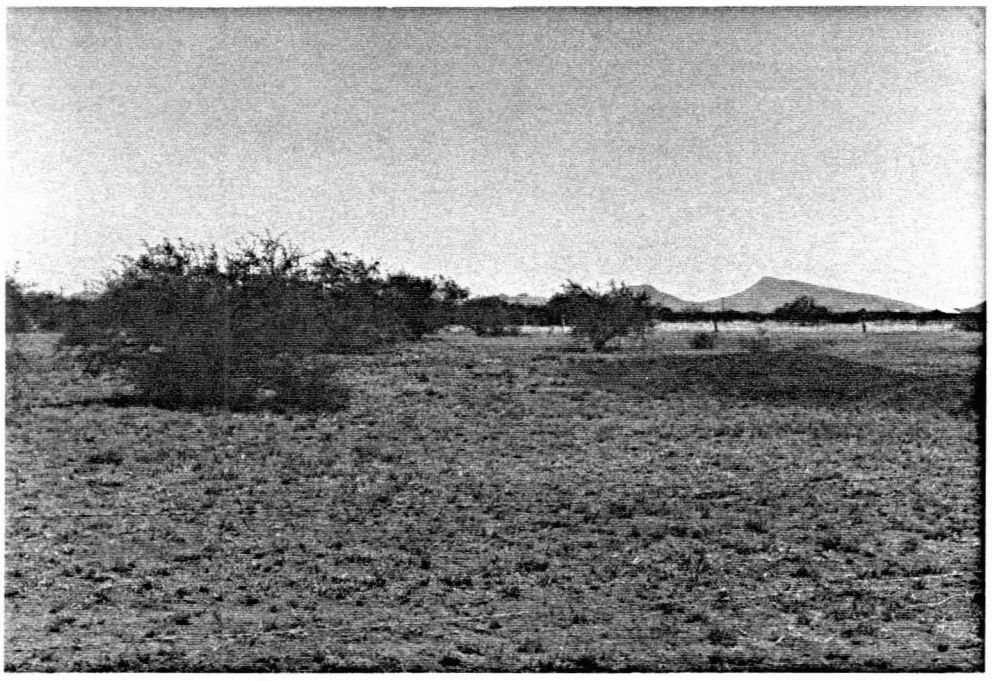


Aerial view of upstream limit of Grass Wash looking downstream.

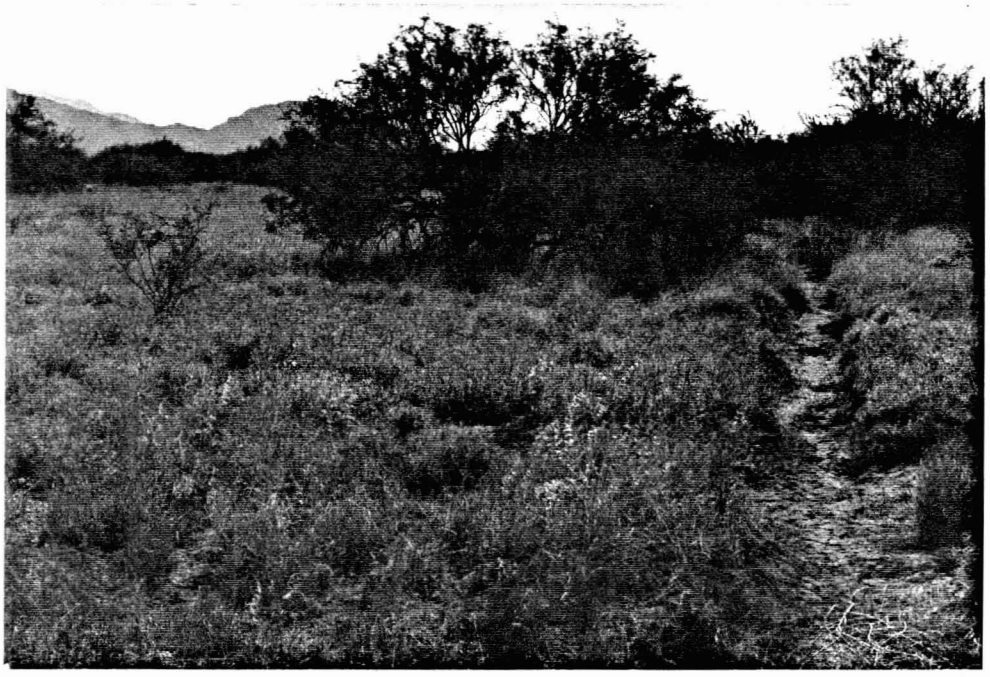
Aerial view of Aguila, Arizona looking southwest from north of Eagle Eye Avenue/US Highway 60/70 intersection. Note Aguila Farm Channel in foreground.



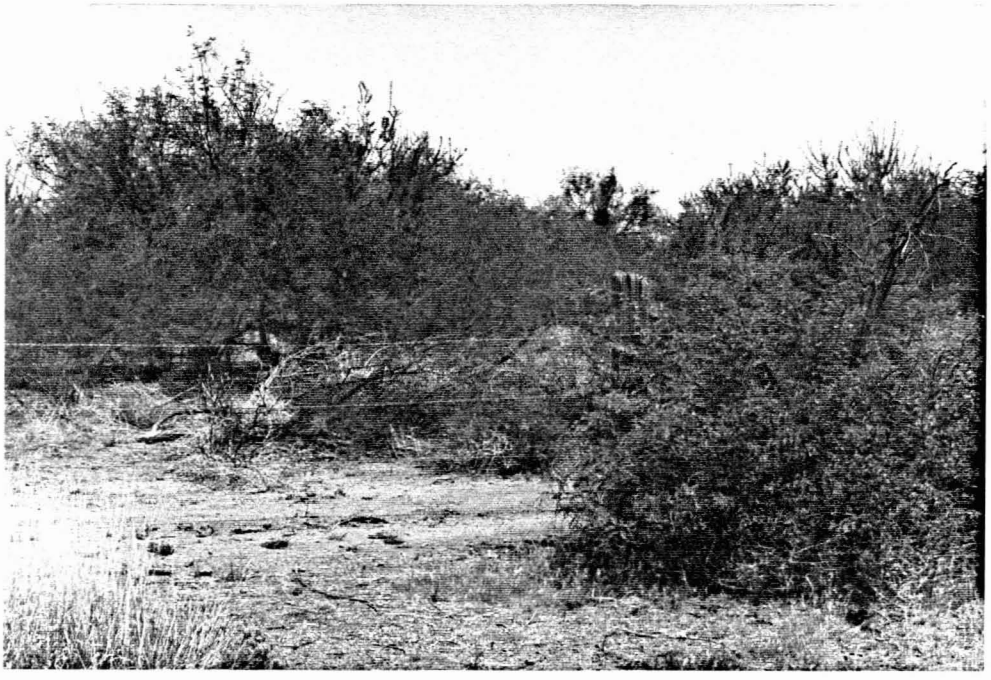
Aguila Farm Channel looking upstream
from Eagle Eye Avenue.

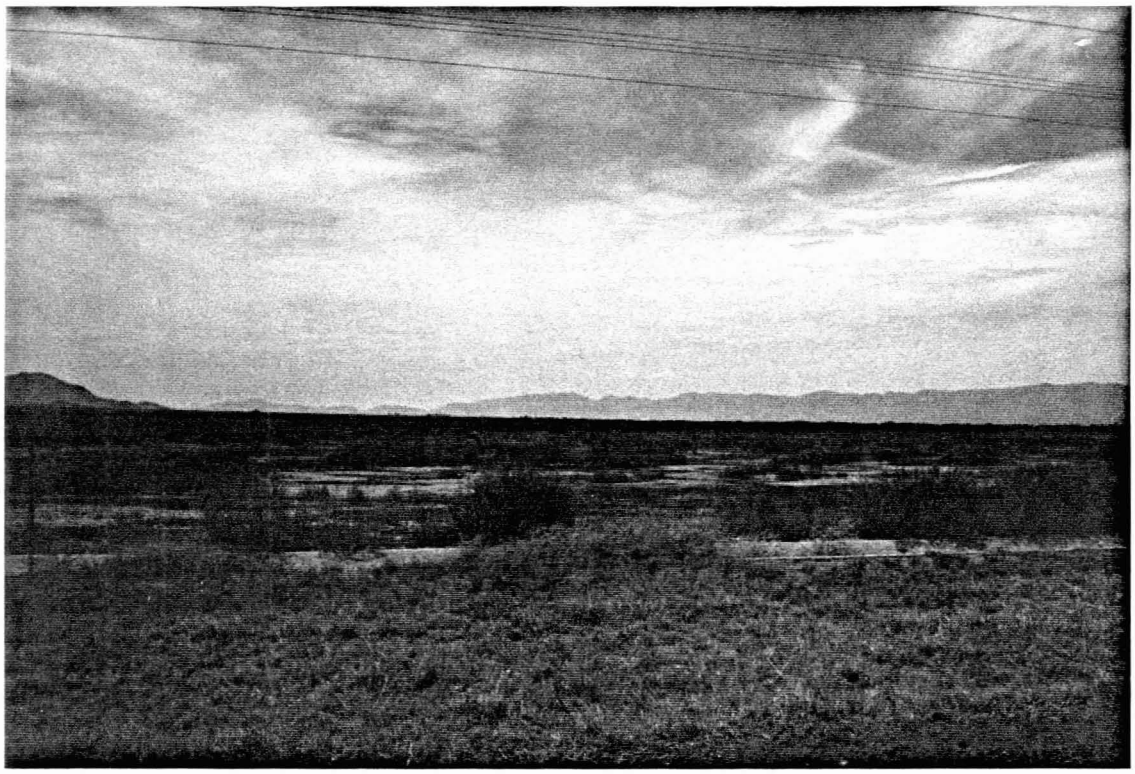


Typical open range ground cover in floodplain.

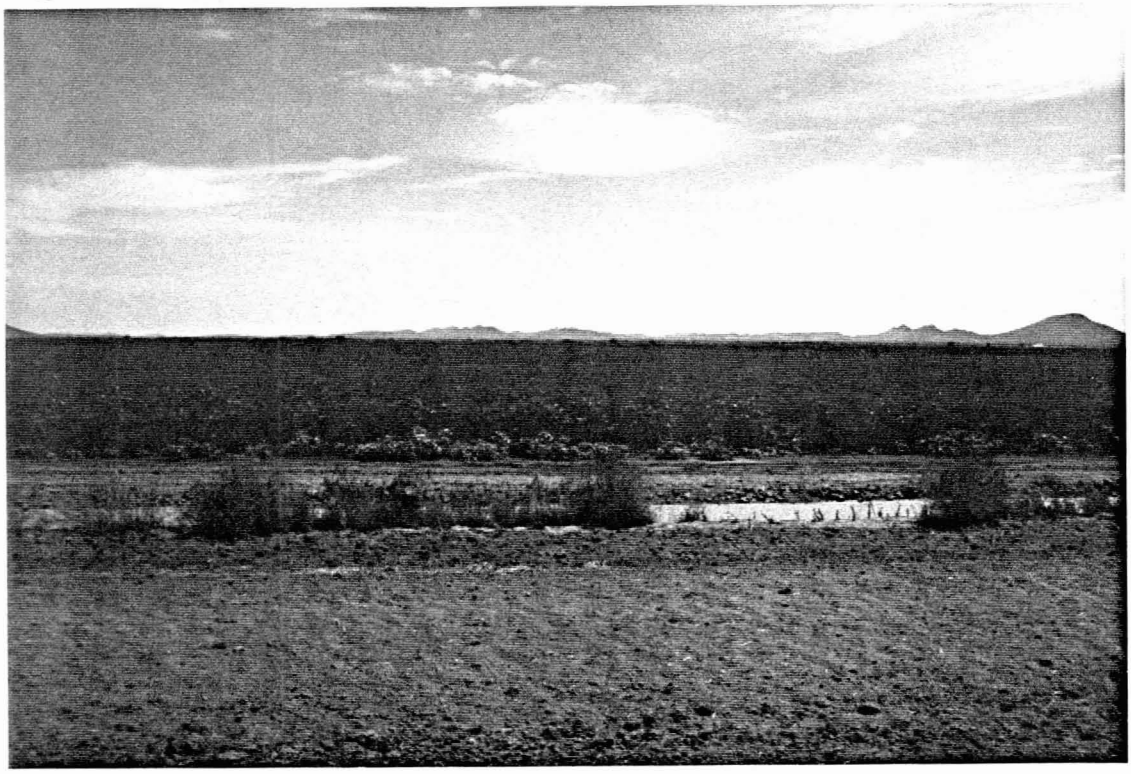


Both Photos represent typical open range ground cover in floodplain.





Typical fallow field in floodplain.



Typical cropped field in floodplain.