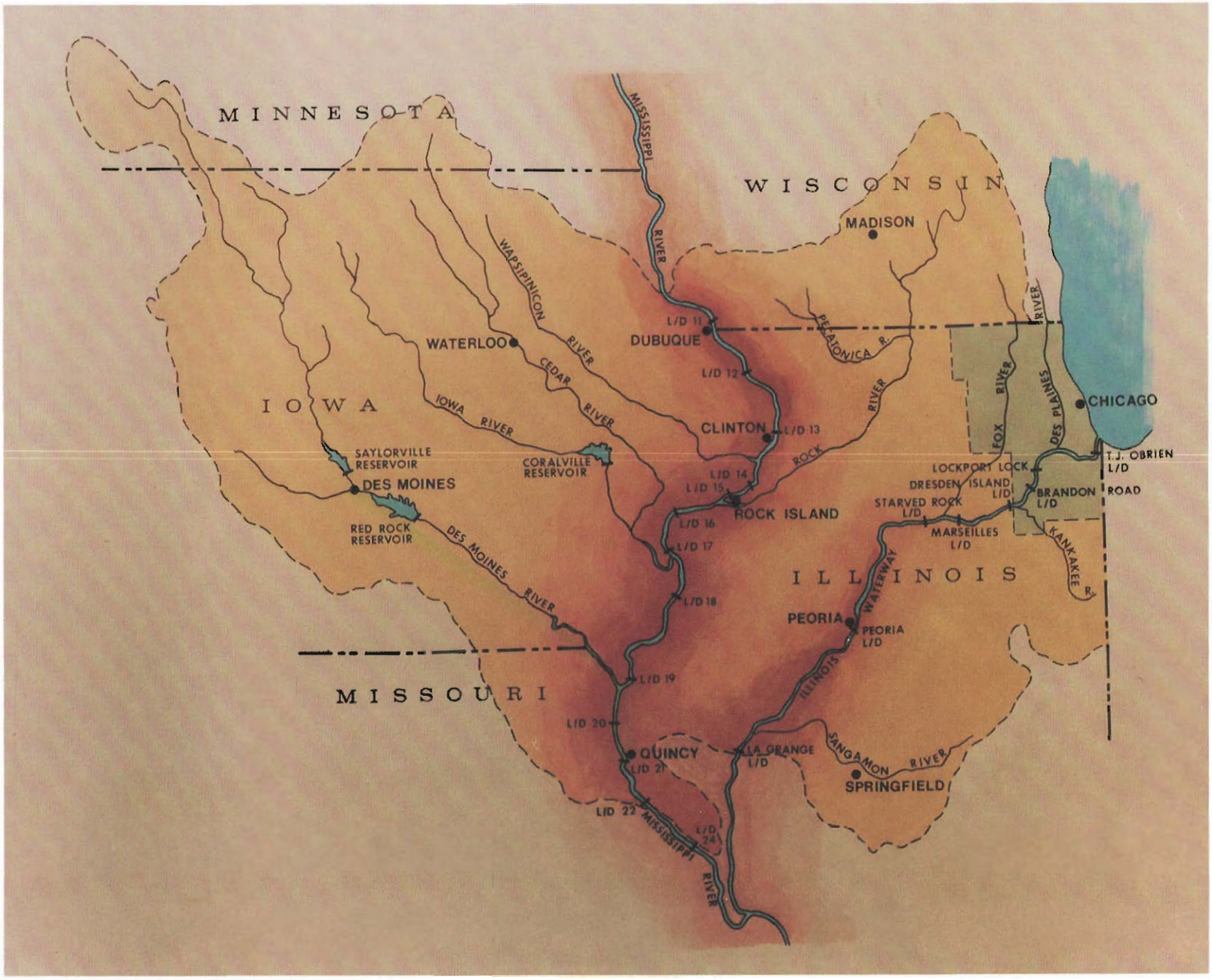
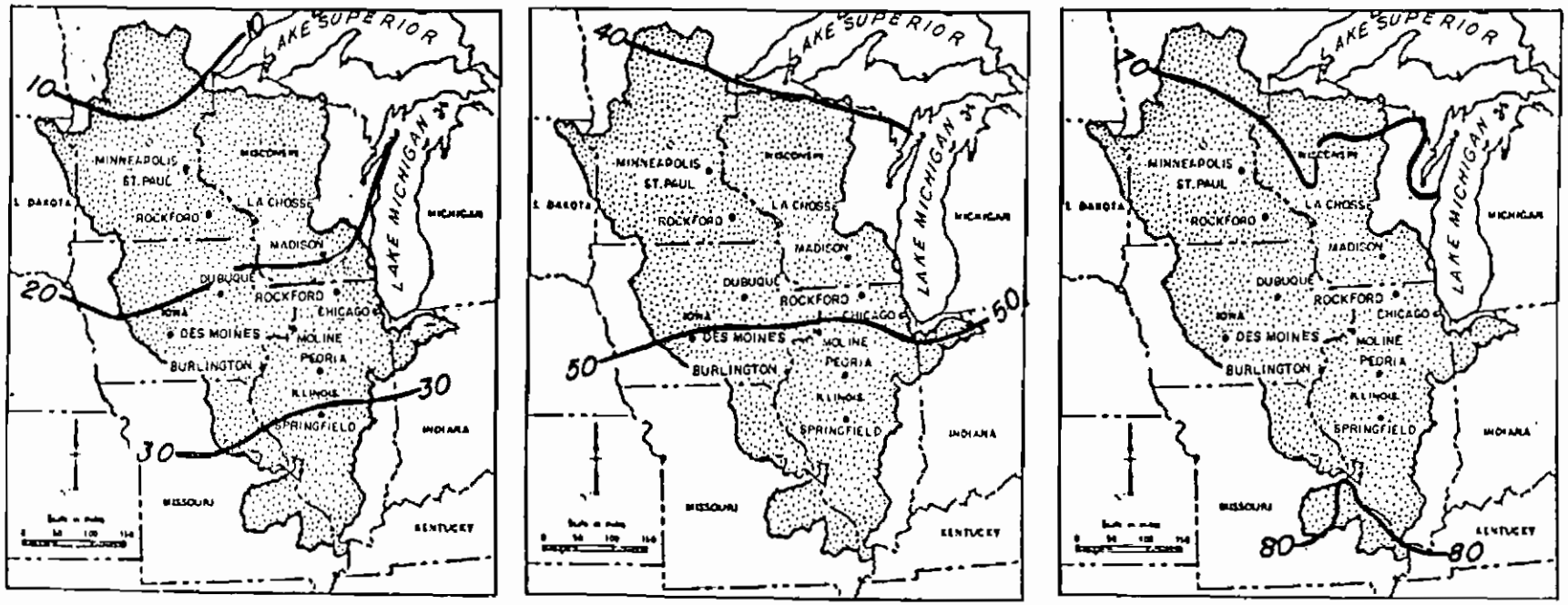


ROCK ISLAND DISTRICT BOUNDARY

PLATE 1



JANUARY APRIL JULY

AVERAGE MONTHLY TEMPERATURES

IN THE UPPER MISSISSIPPI RIVER BASIN

PLATE 2

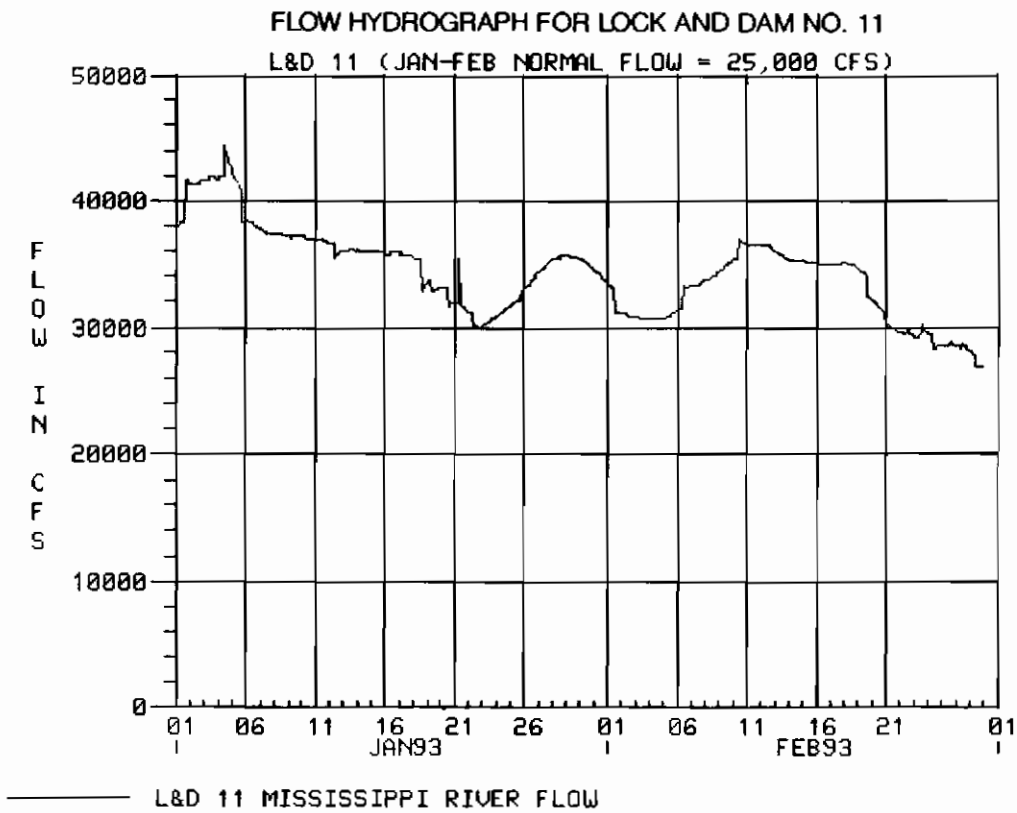


PLATE 3

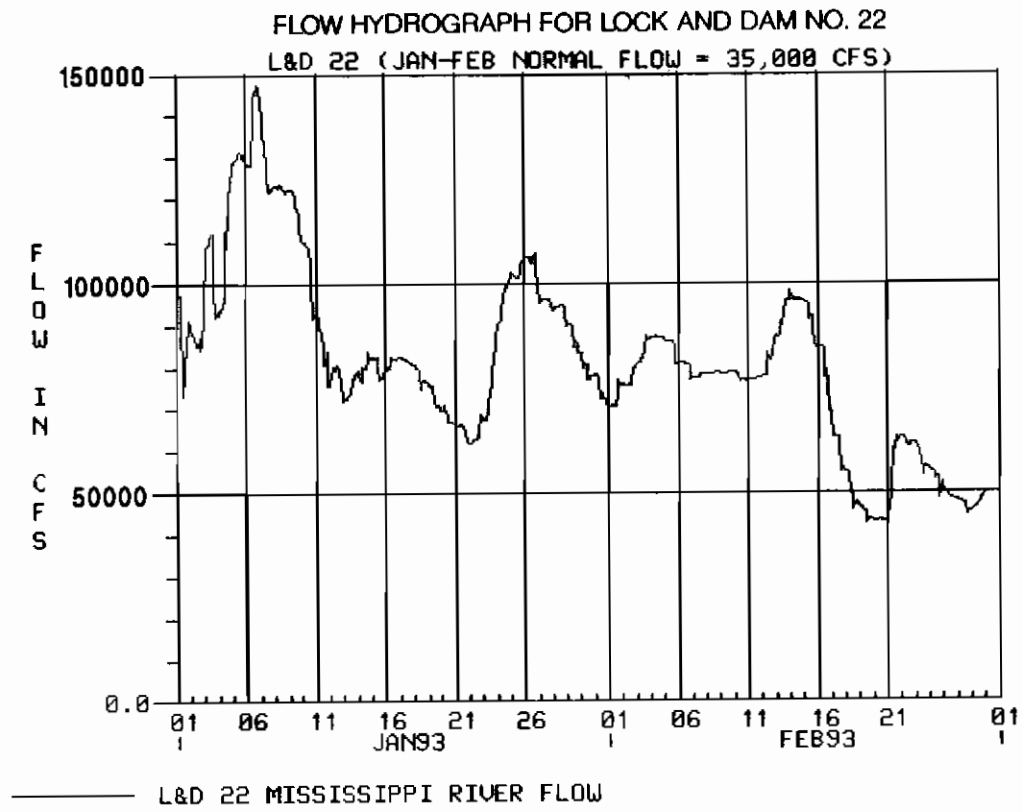
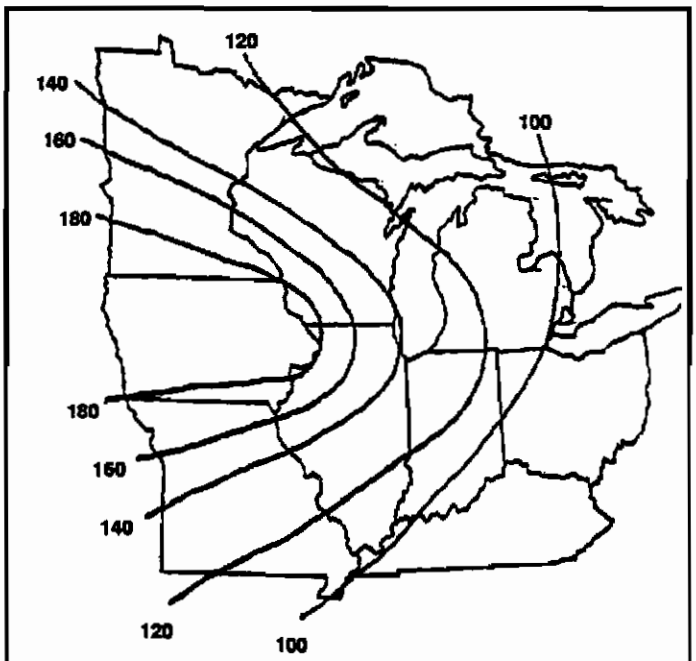
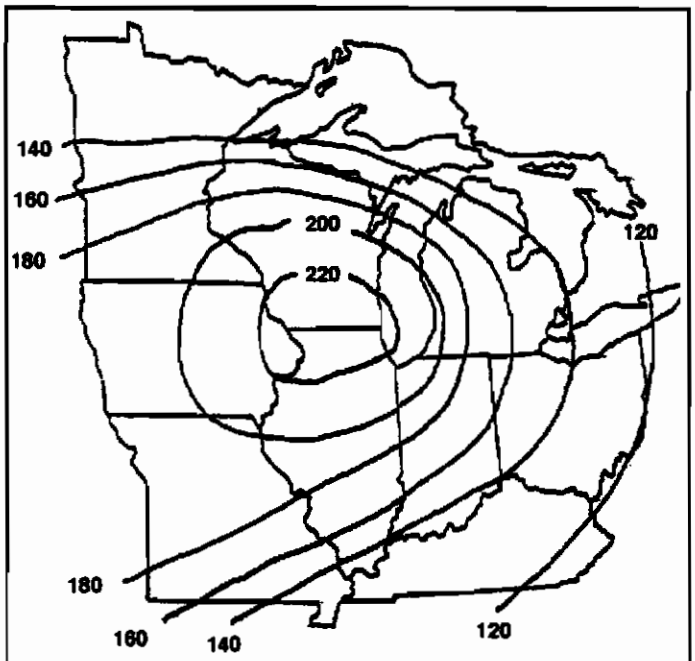


PLATE 4



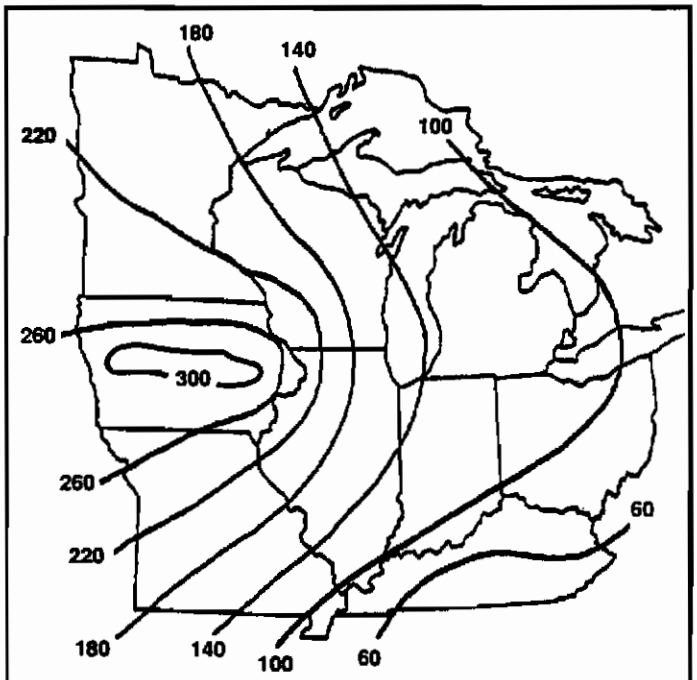
JANUARY- AUGUST 1993
Precipitation Percent of Average

Plate 5



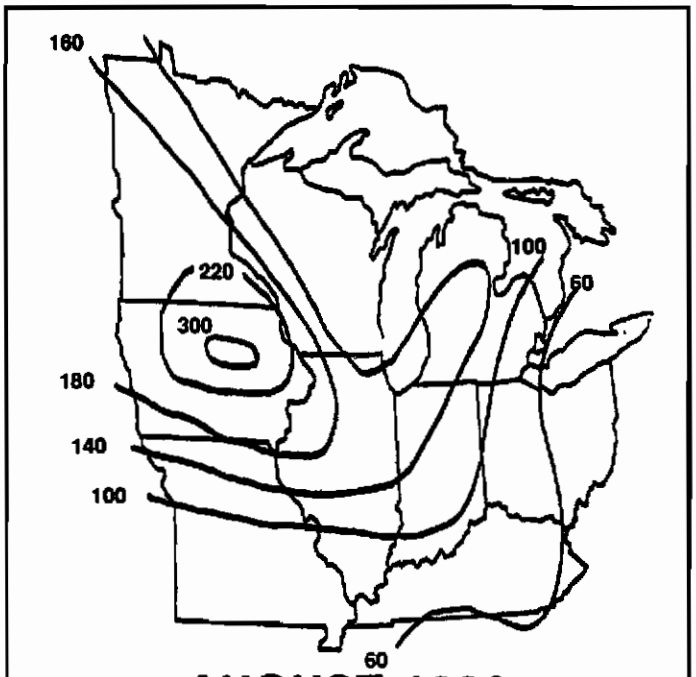
JUNE 1993
Precipitation Percent of Average

Plate 6



JULY 1993
Precipitation Percent of Average

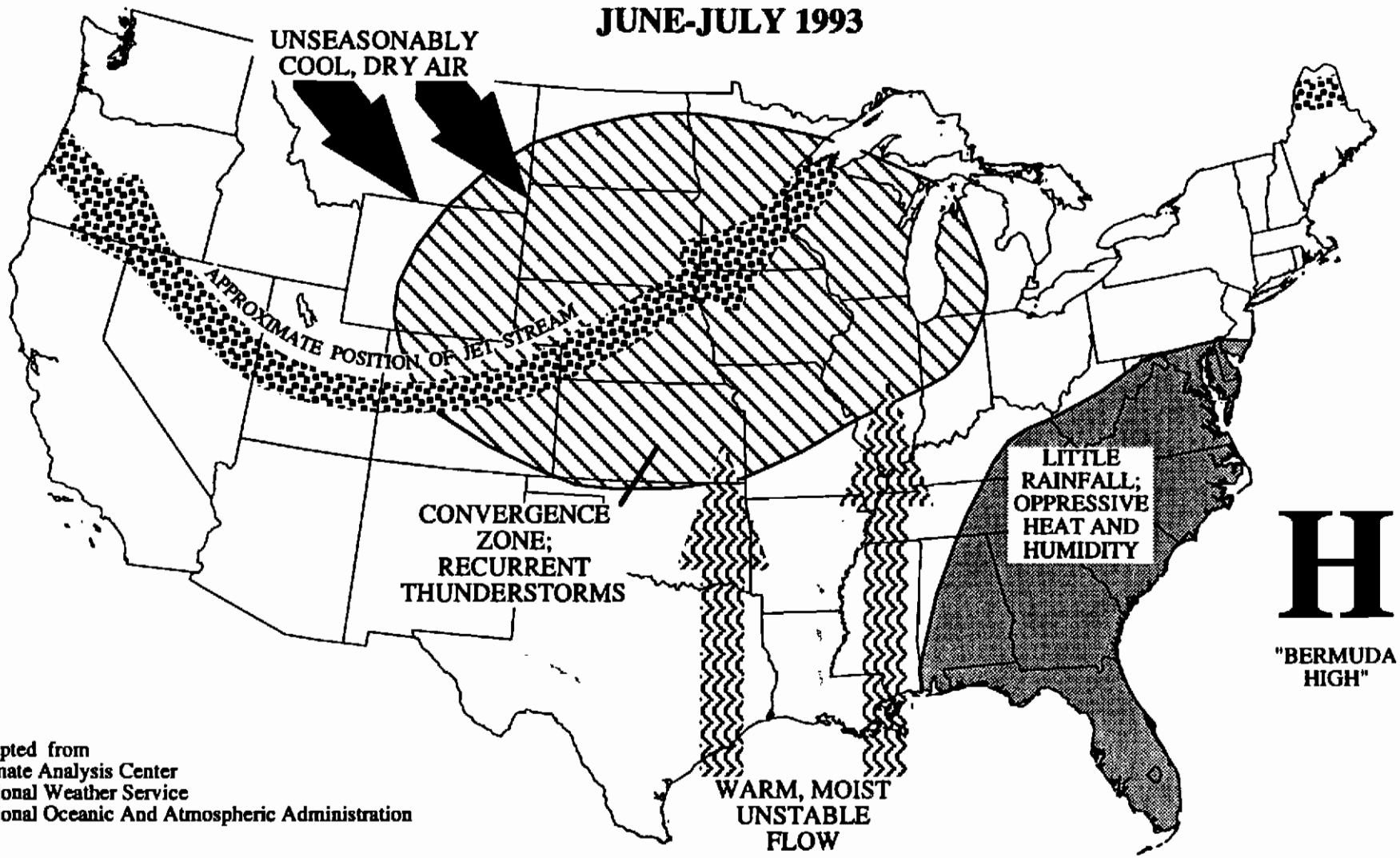
Plate 7



AUGUST 1993
Precipitation Percent of Average

Plate 8

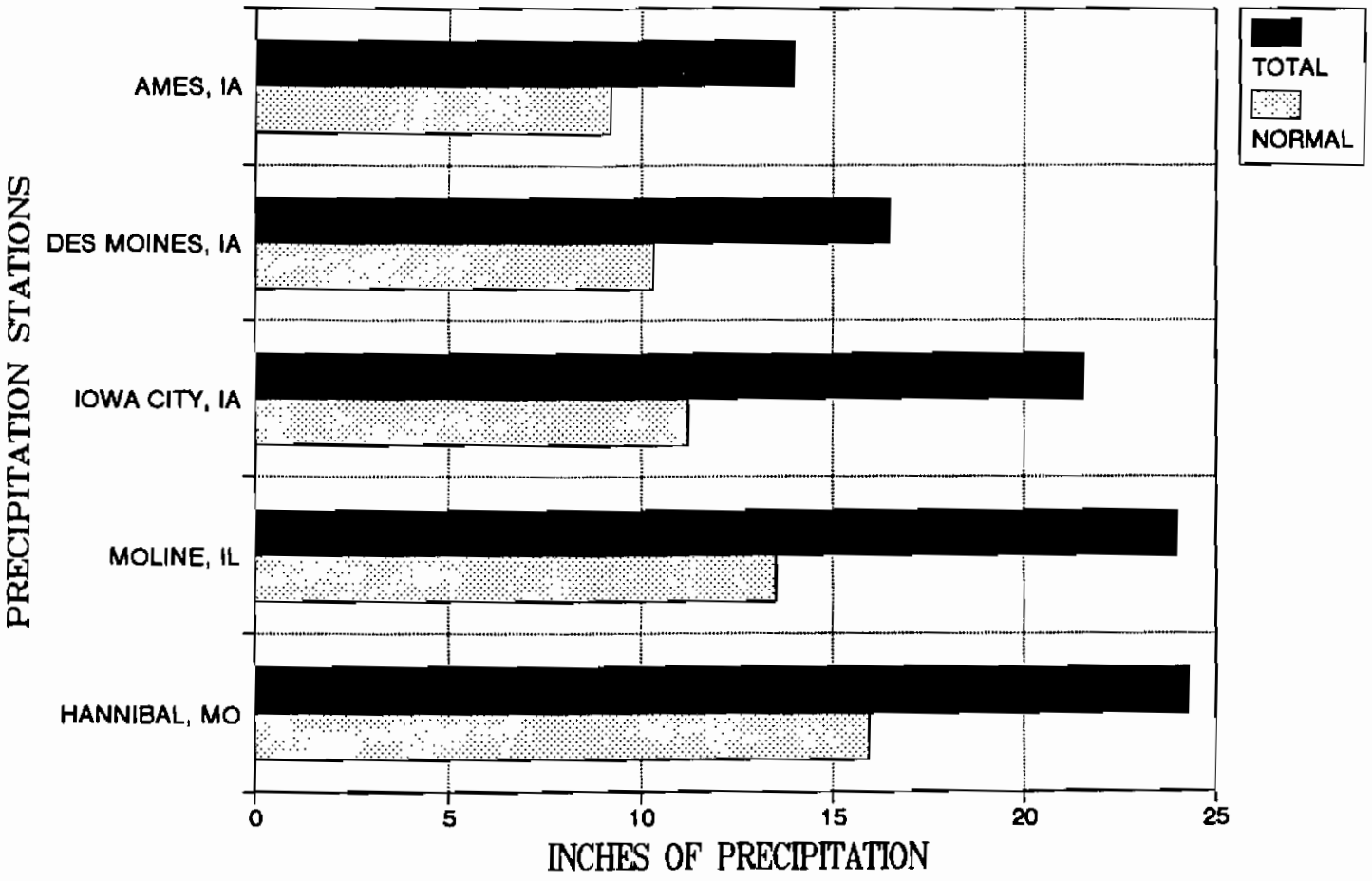
DOMINANT WEATHER PATTERN
JUNE-JULY 1993

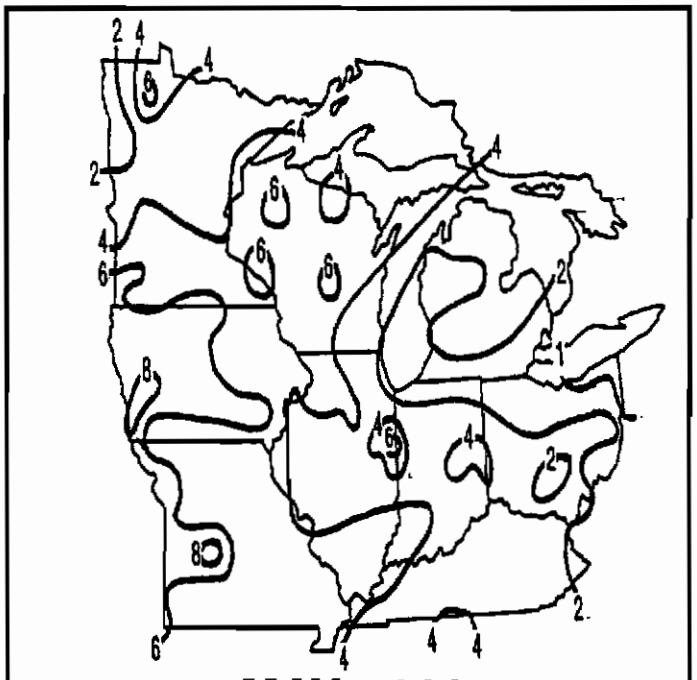


Adapted from
Climate Analysis Center
National Weather Service
National Oceanic And Atmospheric Administration

PLATE 9

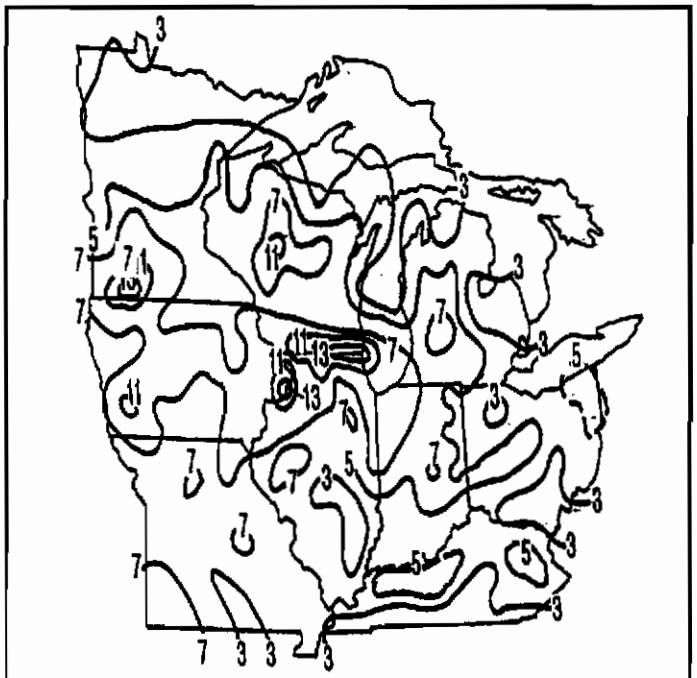
NOV 1992 - APR 1993 PRECIPITATION





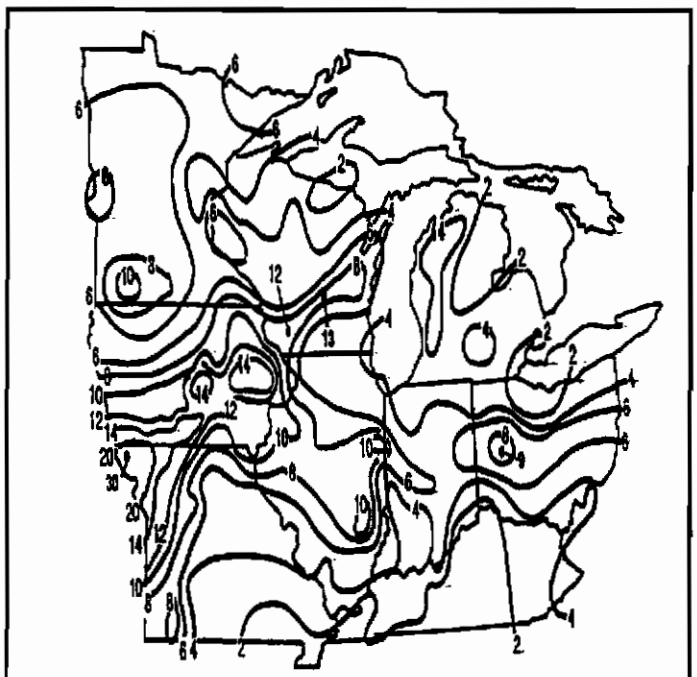
MAY 1993
Total Precipitation
(in inches)

Plate 11



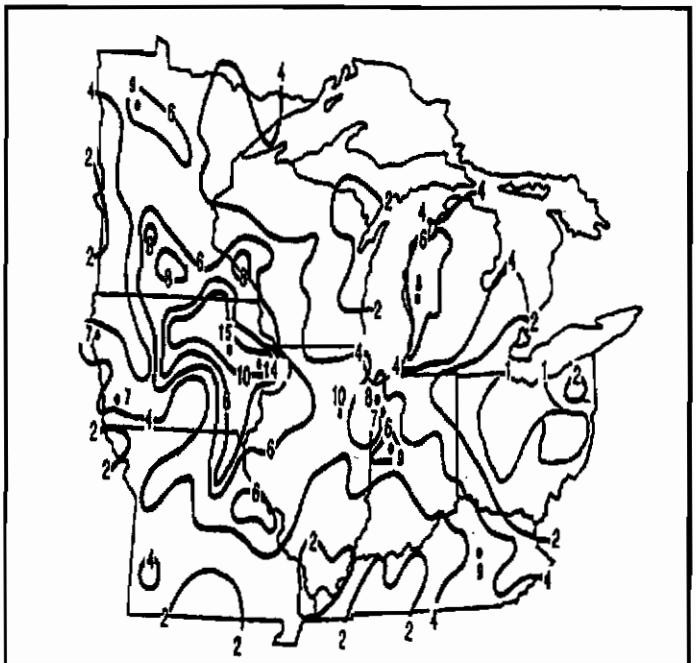
JUNE 1993
Total Precipitation
(in inches)

Plate 12



JULY 1993
Total Precipitation
(in inches)

Plate 13



AUGUST 1993
Total Precipitation
(in inches)

Plate 14

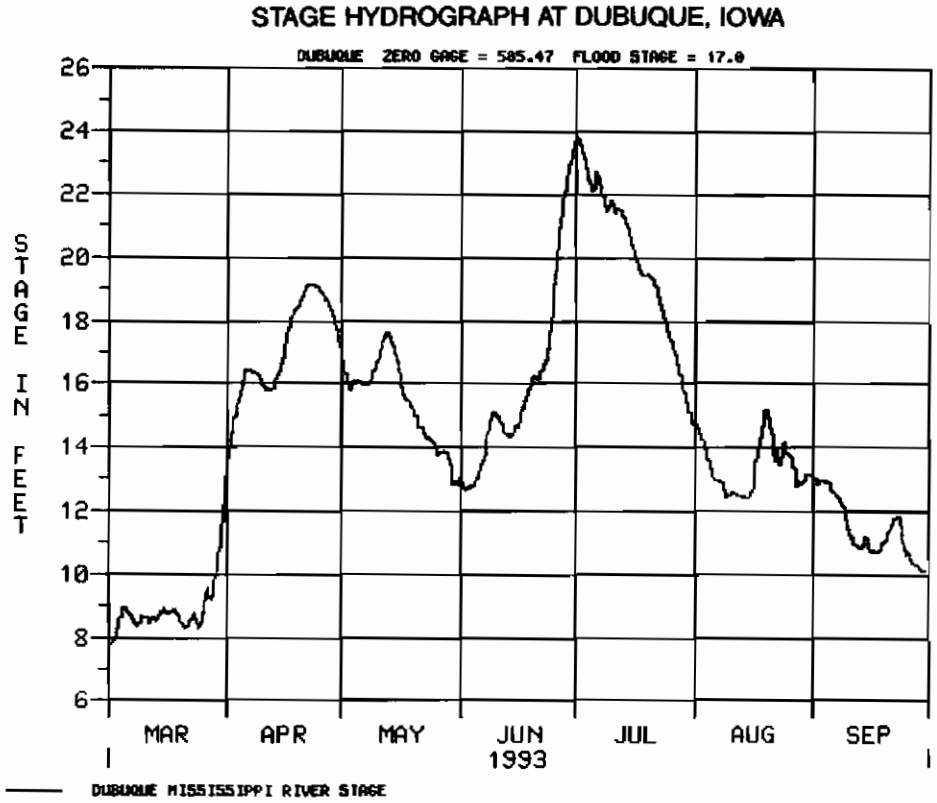


PLATE 15

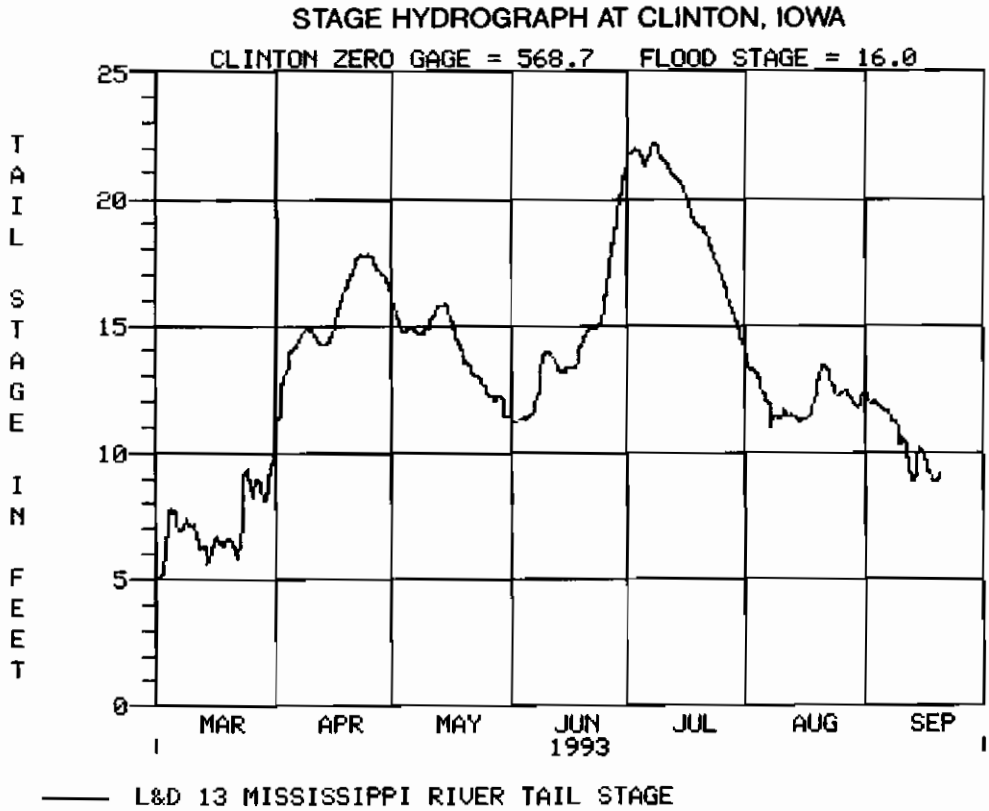


PLATE 16

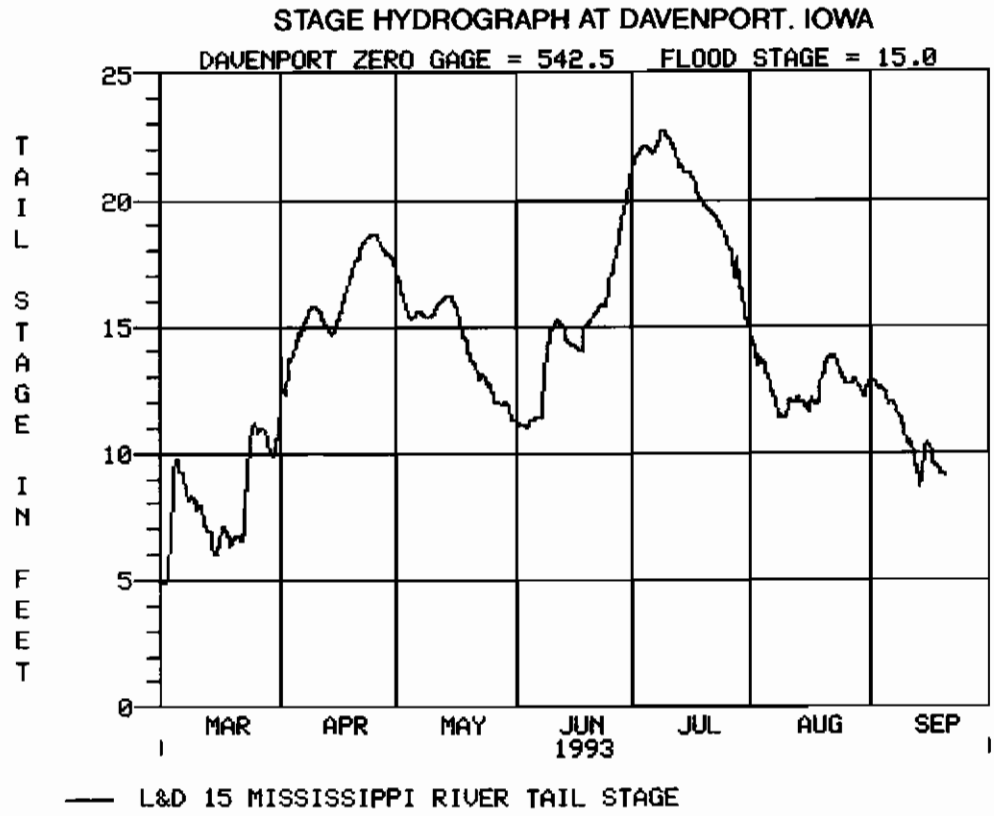


PLATE 17

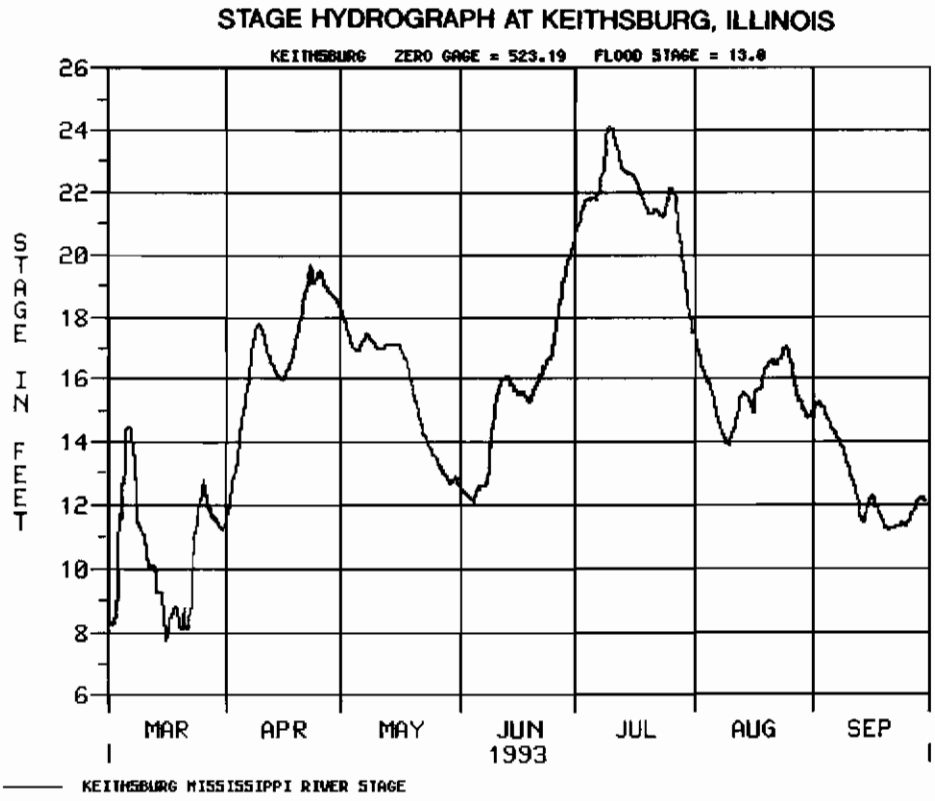


PLATE 18

STAGE HYDROGRAPH AT BURLINGTON, IOWA

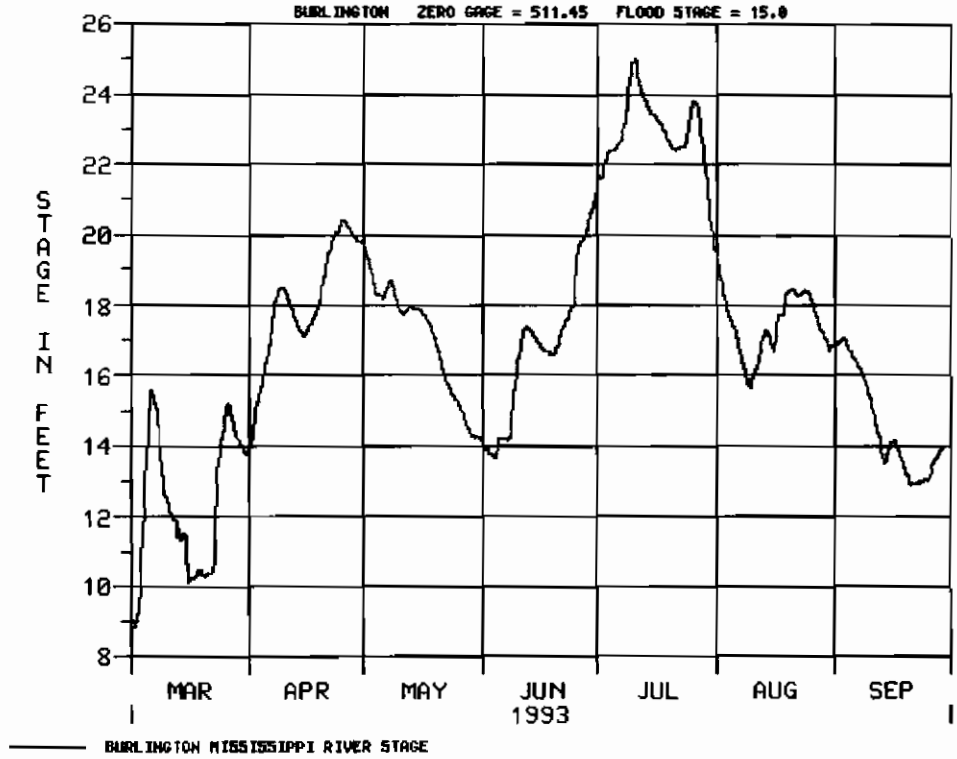


PLATE 19

STAGE HYDROGRAPH AT QUINCY, ILLINOIS

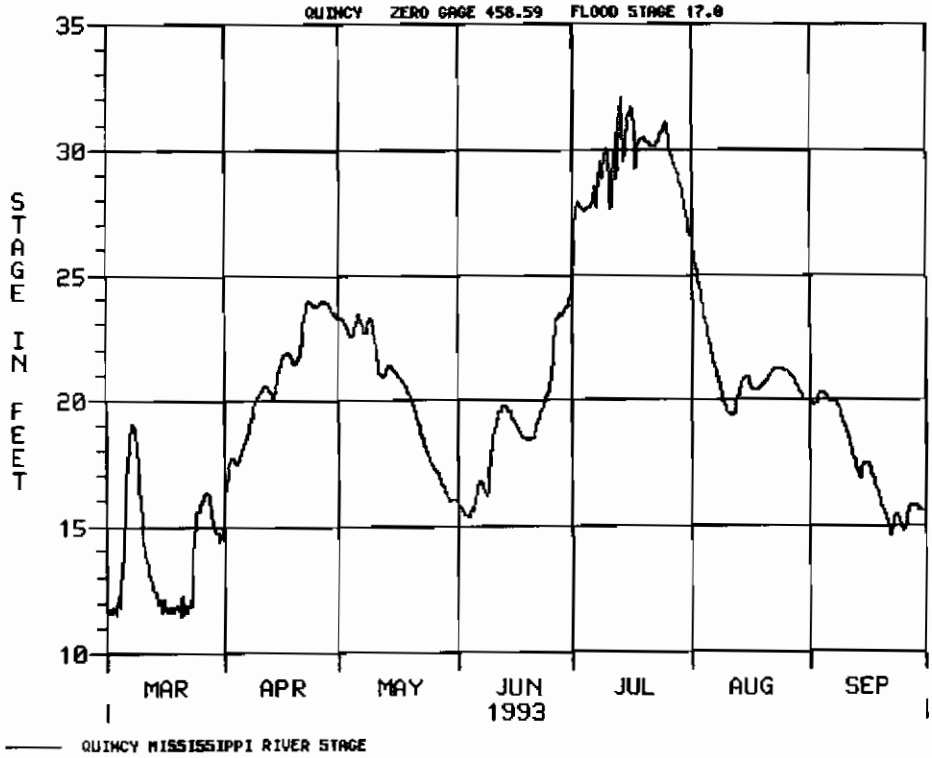


PLATE 20

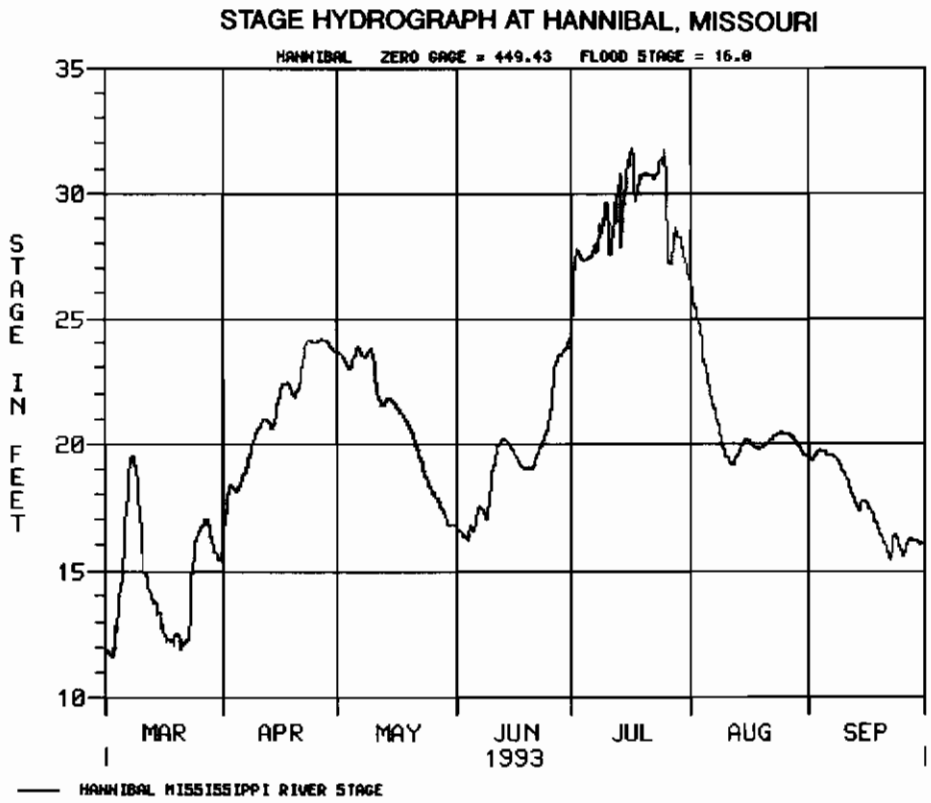
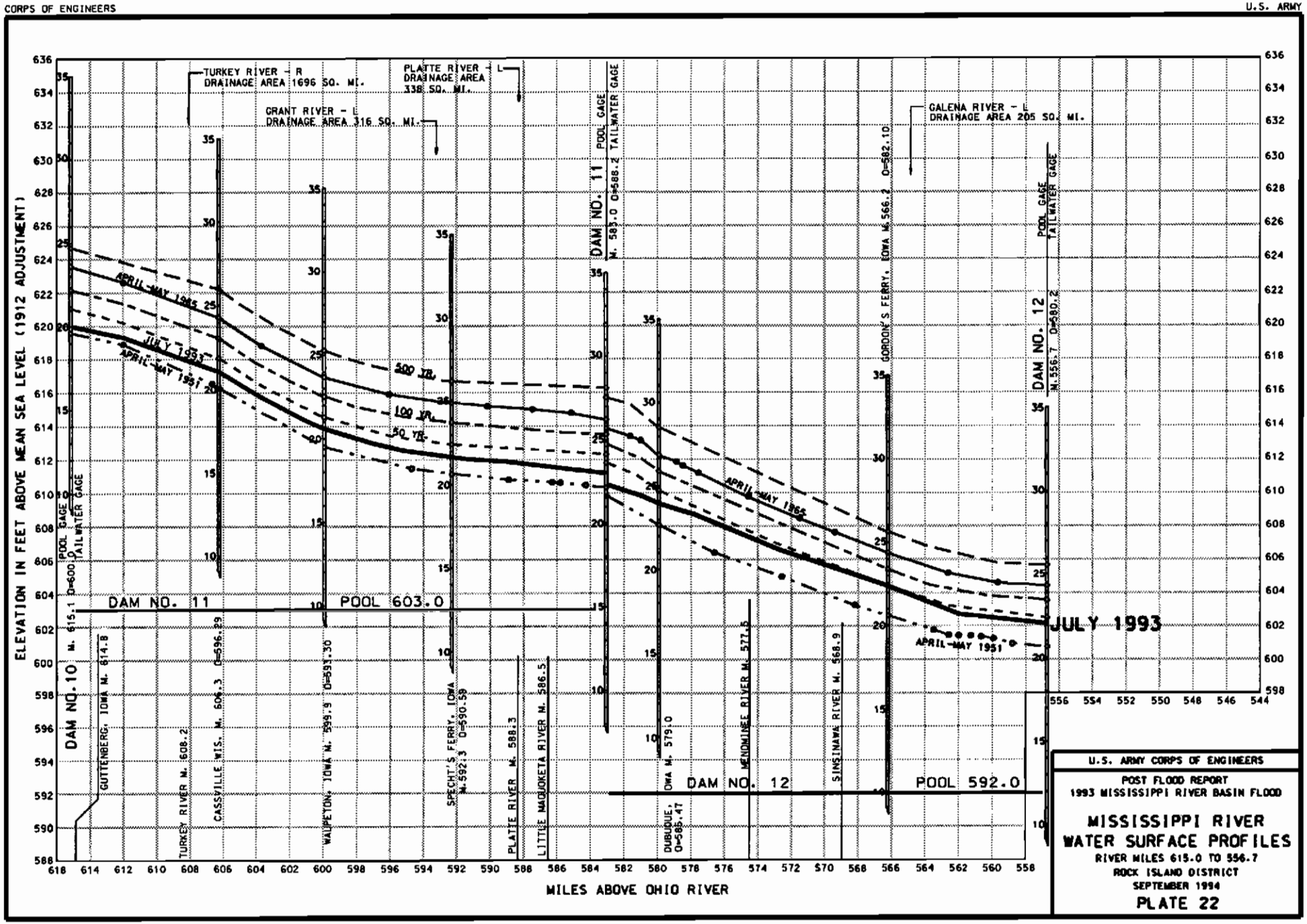

STAGE HYDROGRAPH AT HANNIBAL, MISSOURI
HANNIBAL ZERO GAGE = 449.43 FLOOD STAGE = 16.0
STAGE IN FEET
35
30
25
20
15
10
MAR
APR
MAY
JUN
1993
JUL
AUG
SEP
HANNIBAL MISSISSIPPI RIVER STAGE

PLATE 21



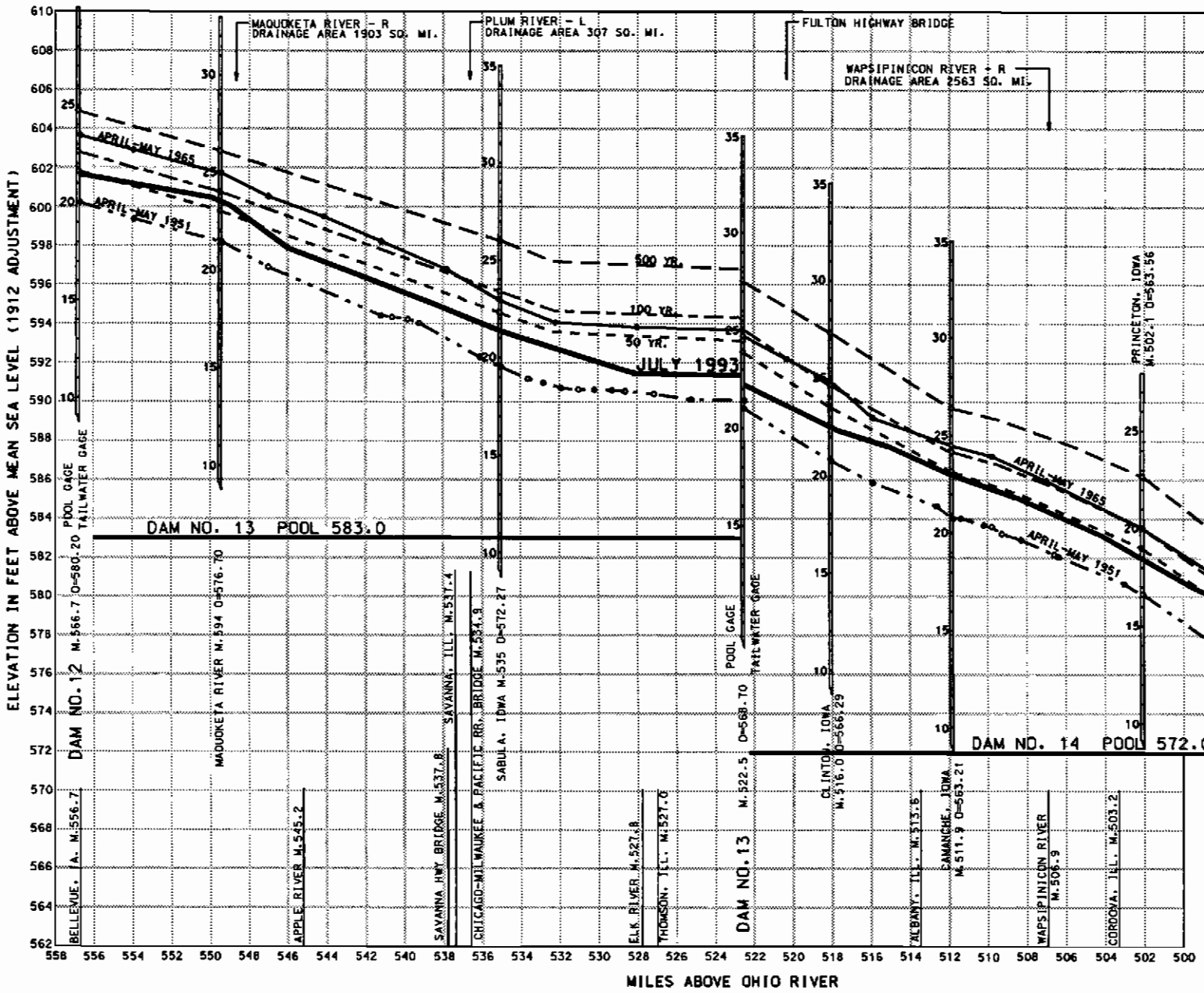
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

MISSISSIPPI RIVER
WATER SURFACE PROFILES

RIVER MILES 615.0 TO 556.7
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 22

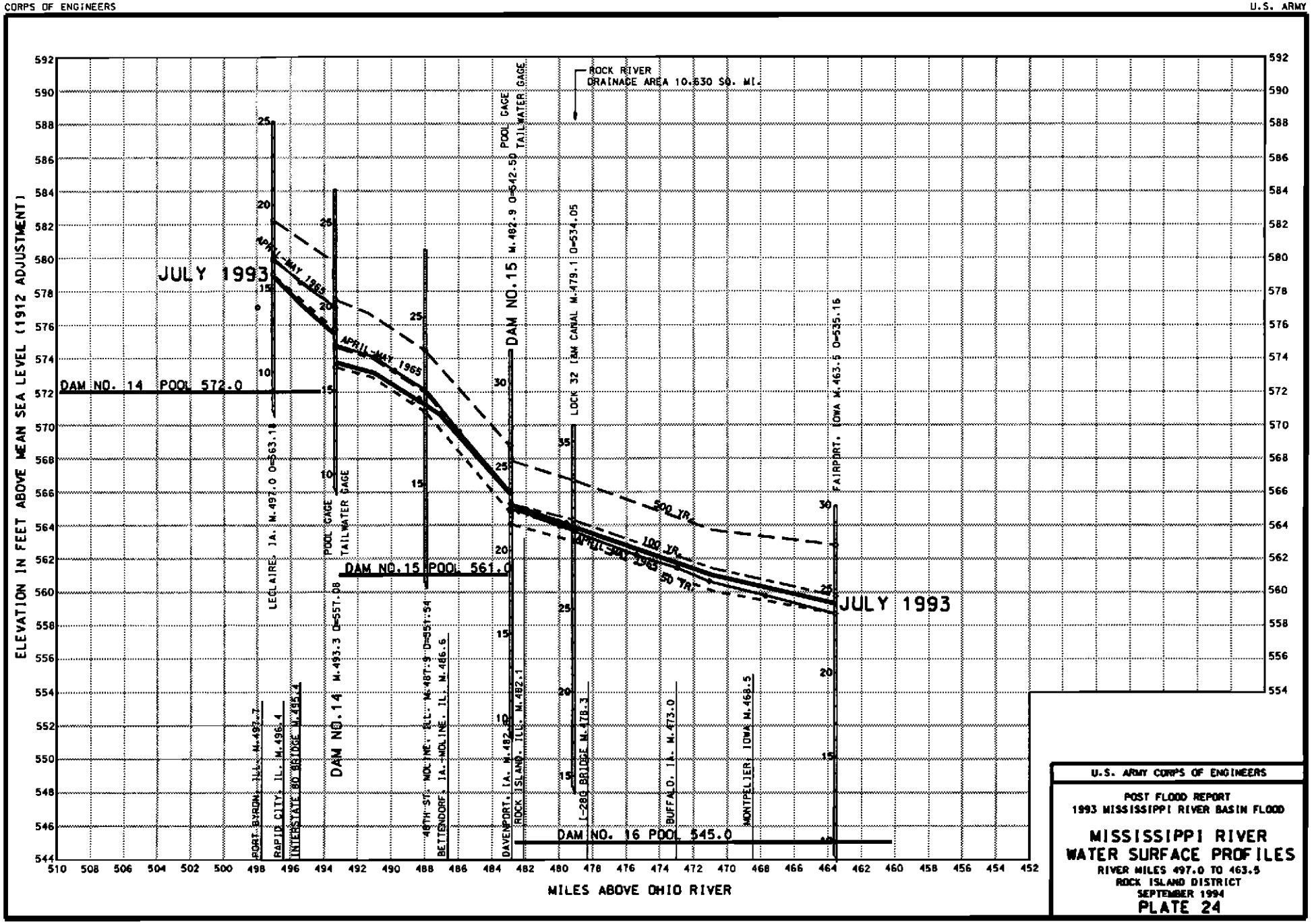


U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

MISSISSIPPI RIVER WATER SURFACE PROFILES

RIVER MILES 556.7 TO 497.0
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 23

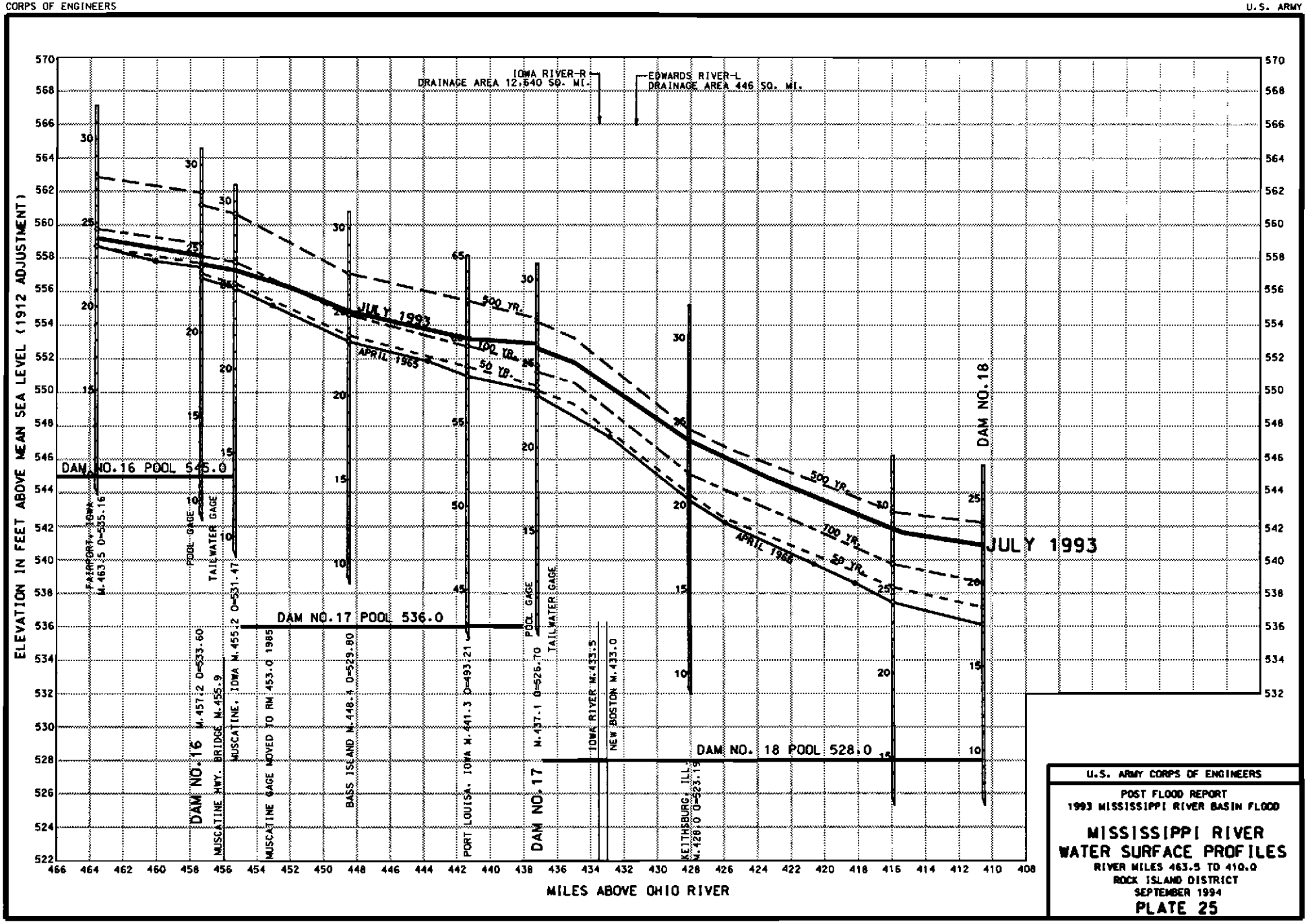


U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

MISSISSIPPI RIVER WATER SURFACE PROFILES

RIVER MILES 497.0 TO 463.5
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 24



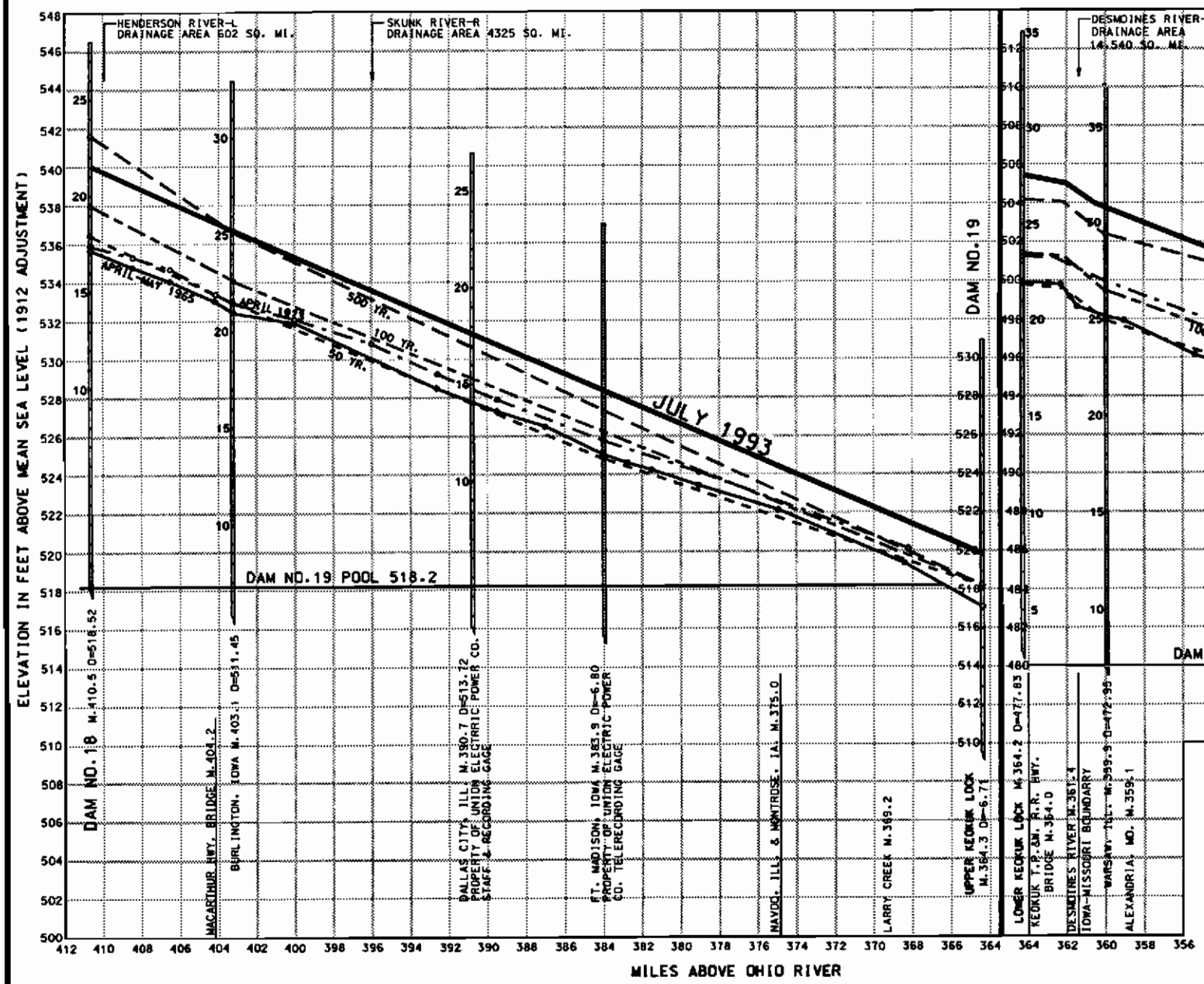
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

MISSISSIPPI RIVER WATER SURFACE PROFILES

RIVER MILES 463.5 TO 410.0
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 25



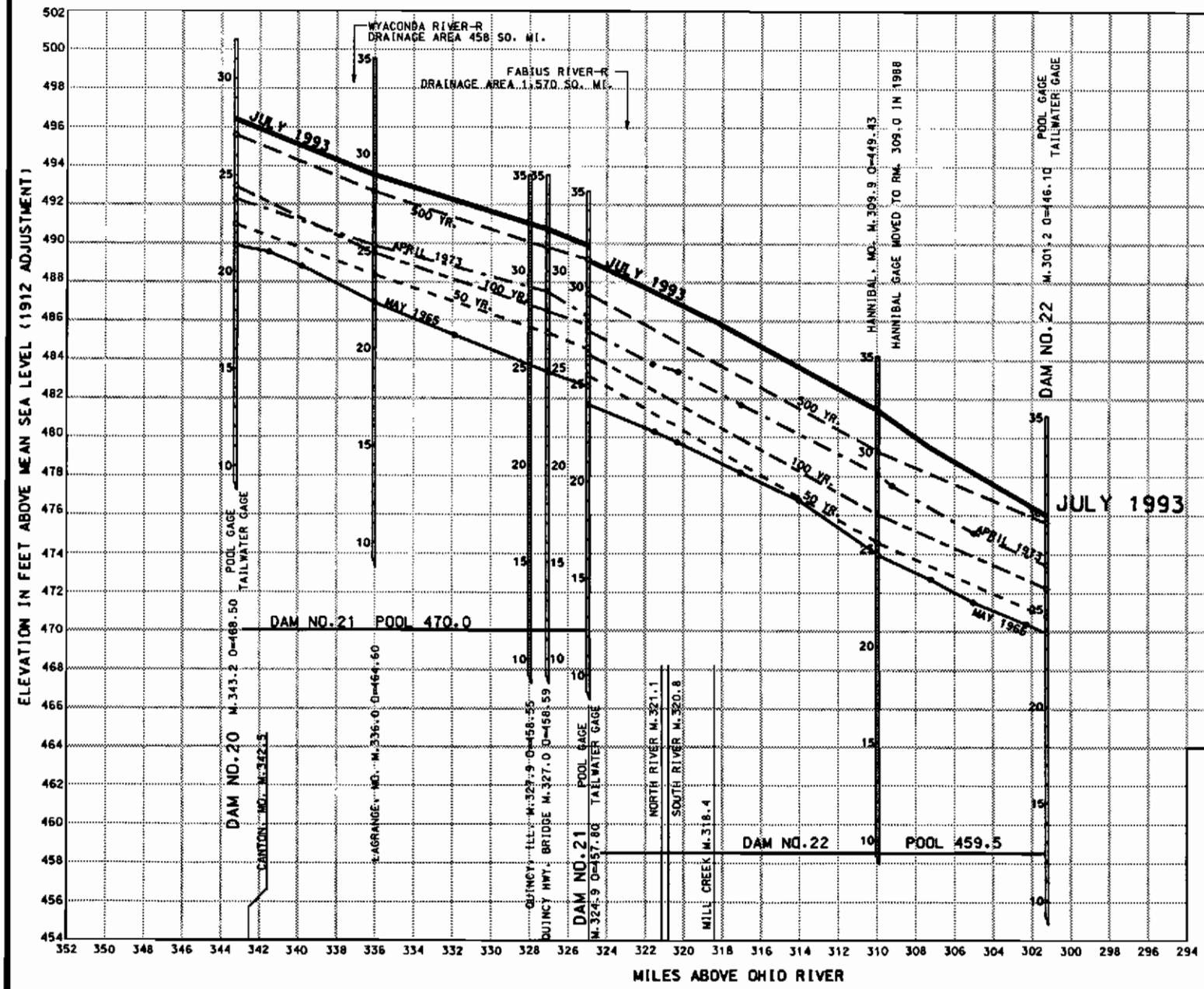
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

MISSISSIPPI RIVER WATER SURFACE PROFILES

RIVER MILES 410.0 TO 343.2
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 26



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

MISSISSIPPI RIVER WATER SURFACE PROFILES

RIVER MILES 343.2 TO 301.2
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 27

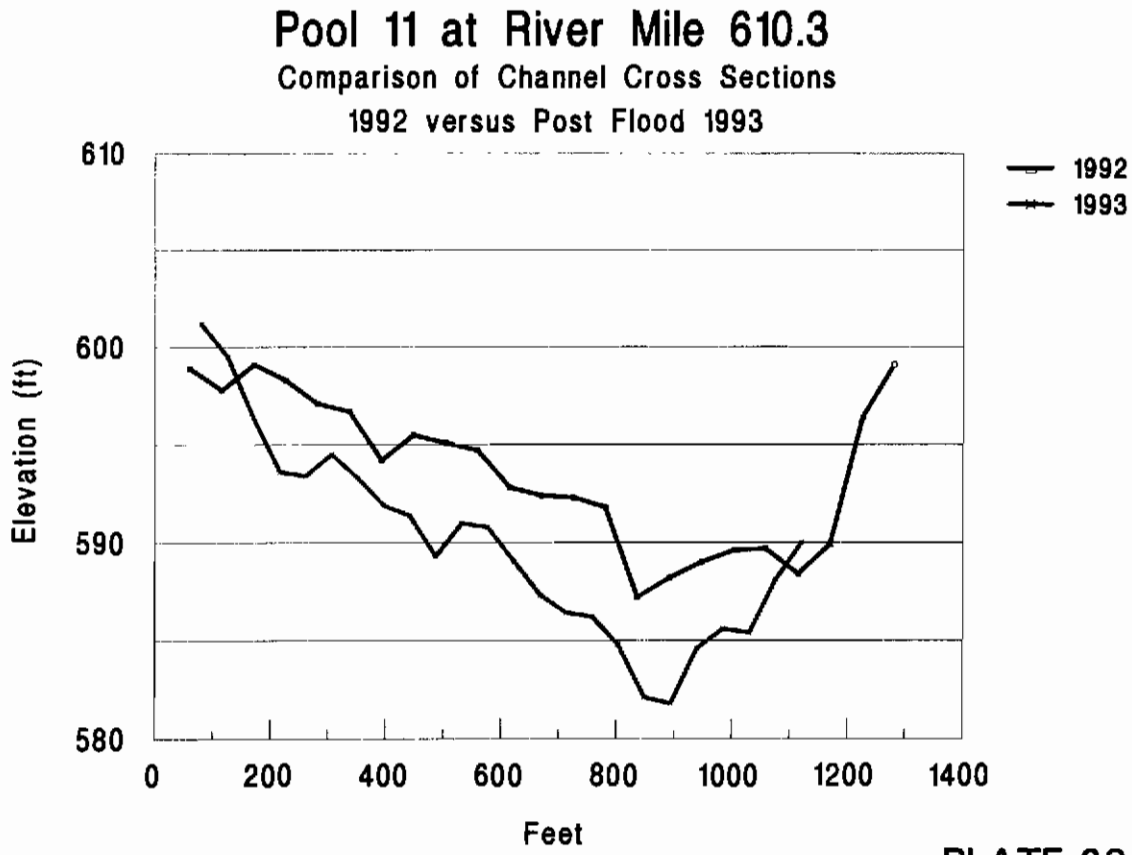


PLATE 28

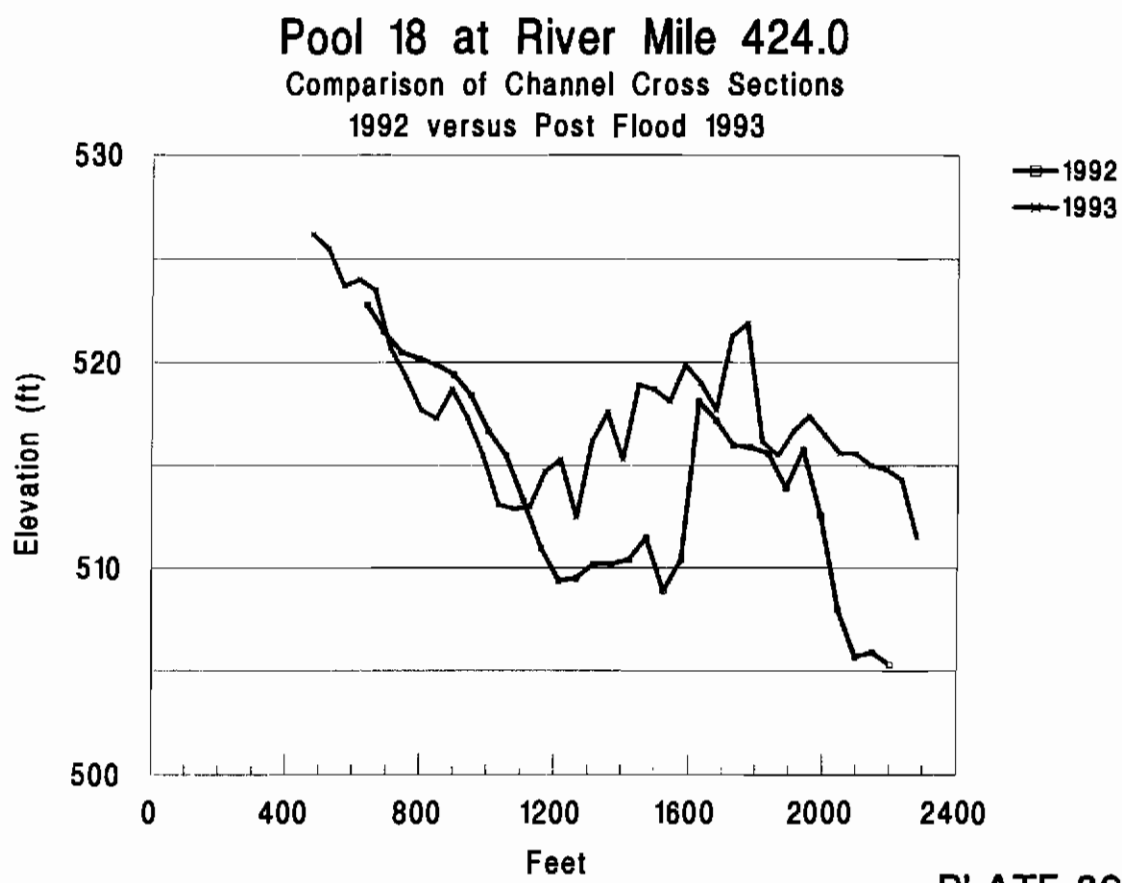
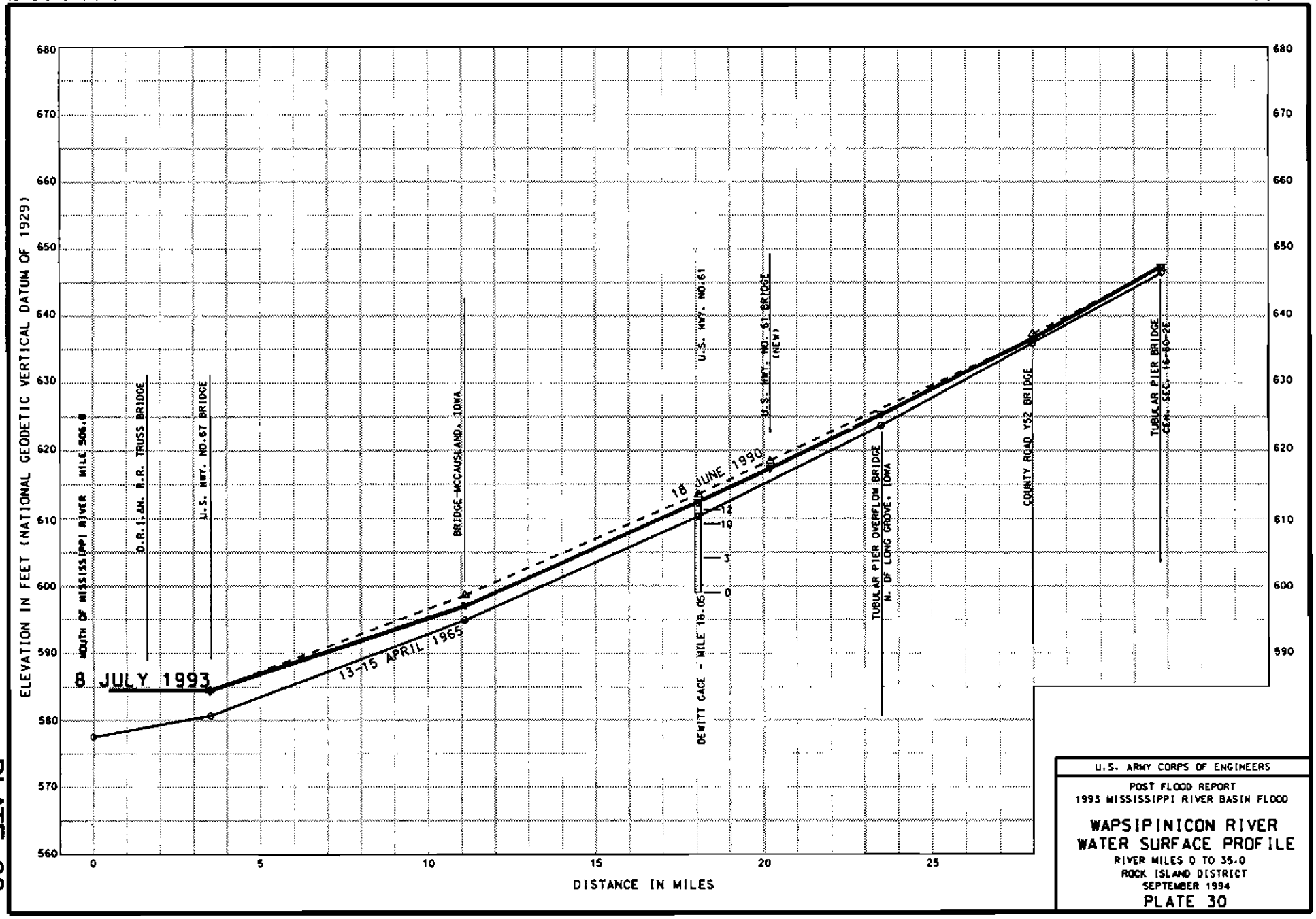


PLATE 29



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

WAPSIPINICON RIVER
WATER SURFACE PROFILE
RIVER MILES 0 TO 35.0
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 30

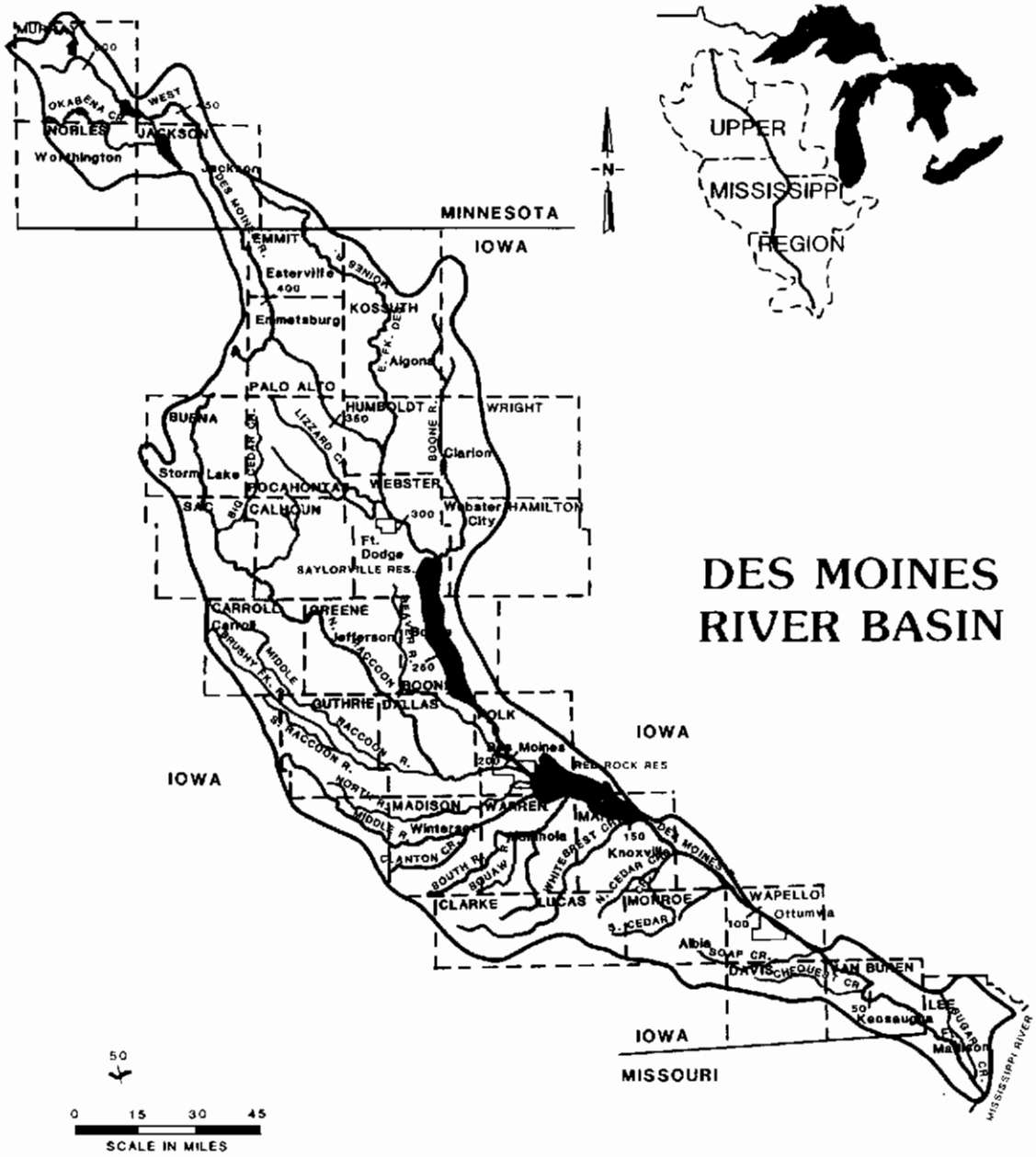
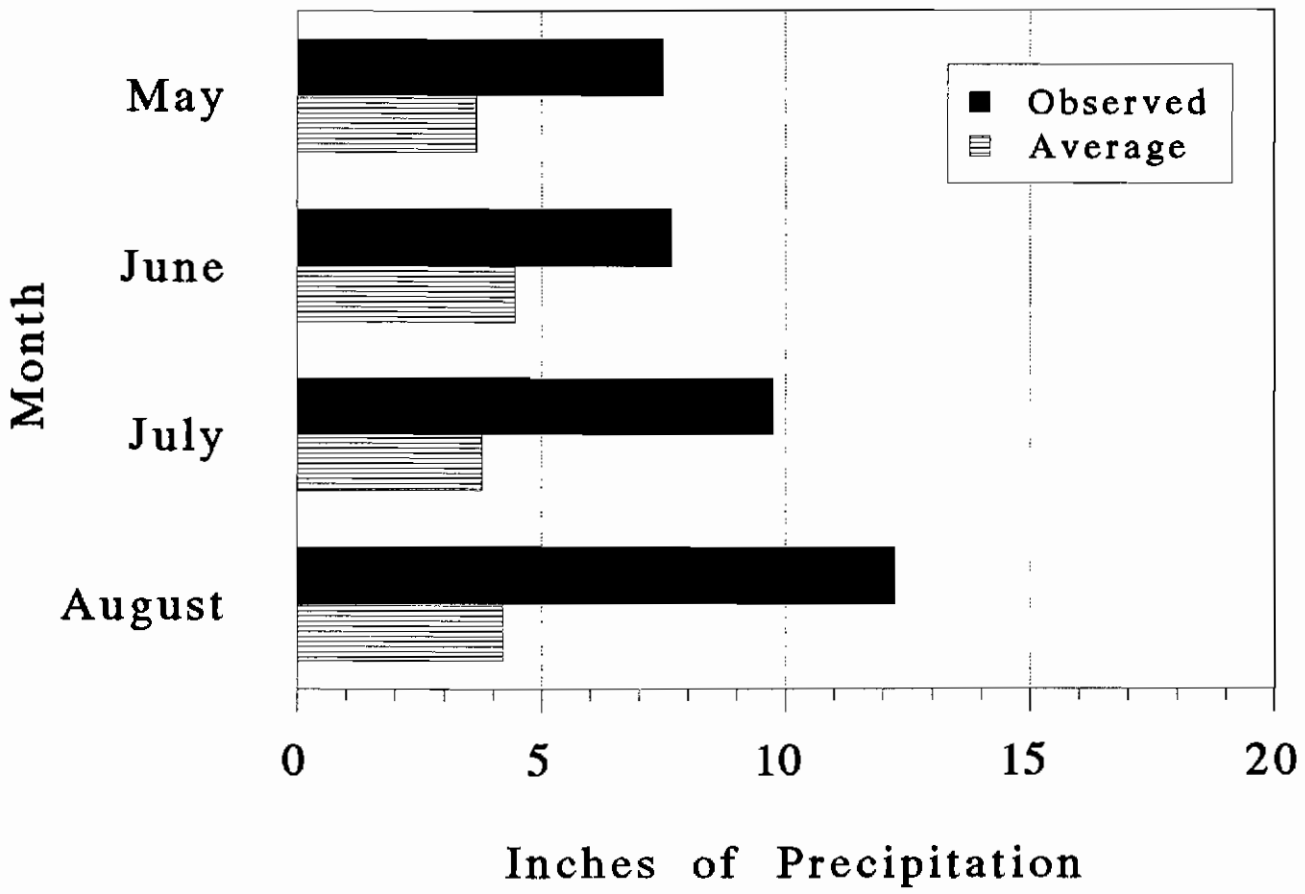

DES MOINES
RIVER BASIN
UPPER
MISSISSIPPI
REGION
MINNESOTA
IOWA
MISSOURI
NORLES
JACKSON
Worthington
EMMIT
Estervillo
Emmetsburg
KOSSUTH
Algona
PALO ALTO
HUMBOLDT
WRIGHT
BUENA
Storm Lake
POCAHONTAS
WEBSTER
Clarion
SAC
CALHOUN
Webster City
HAMILTON
Ft. Dodge
SAYLORVILLE RES.
CARROLL
GREENE
Carroll
Jefferson
BOONE
GUTHRIE
DALLAS
POLK
Des Moines
RED ROCK RES
MADISON
WARREN
Winterset
Knoxville
CLARKE
LUCAS
MONROE
WAPELLO
Ottumwa
Albia
DAVIS
VAN BUREN
Keosauqua
LEE
Madison
MISSISSIPPI RIVER
N
50
0 15 30 45
SCALE IN MILES

PLATE 31

1993 Monthly Precipitation
Des Moines, Iowa



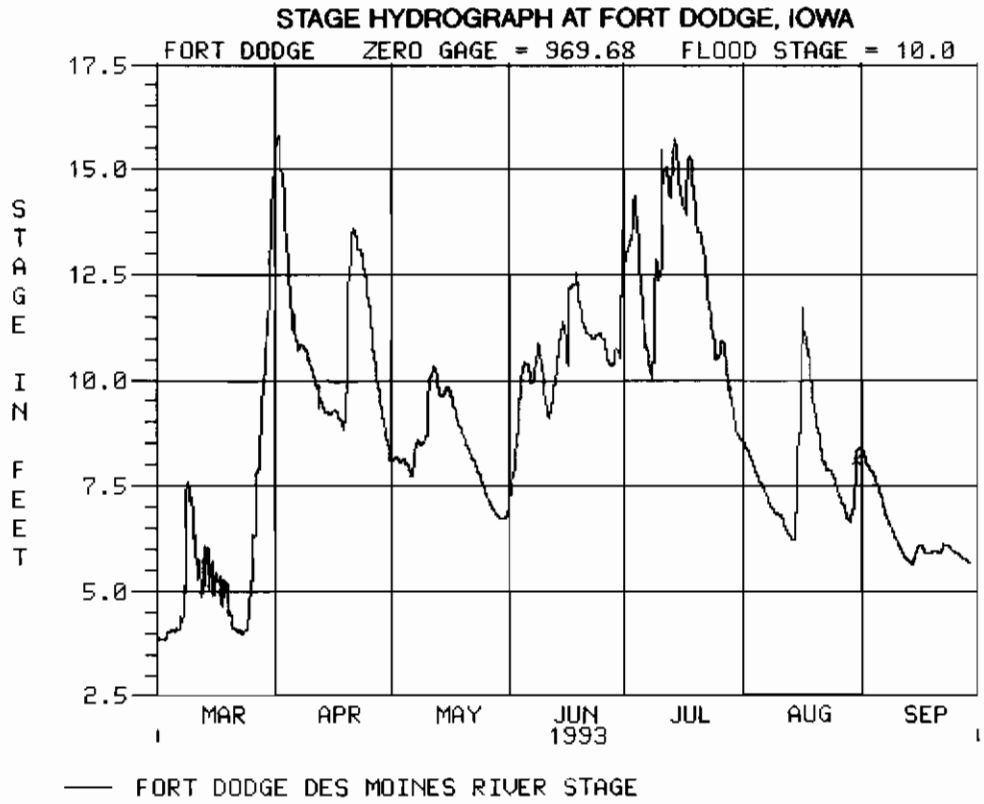


PLATE 33

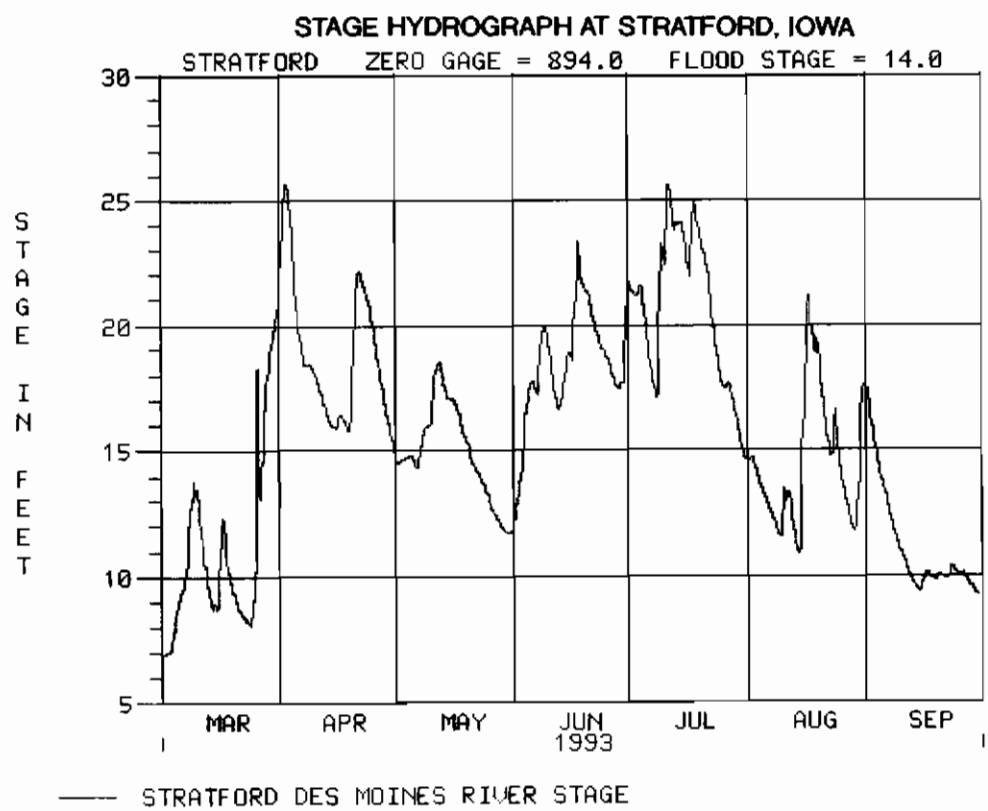


PLATE 34

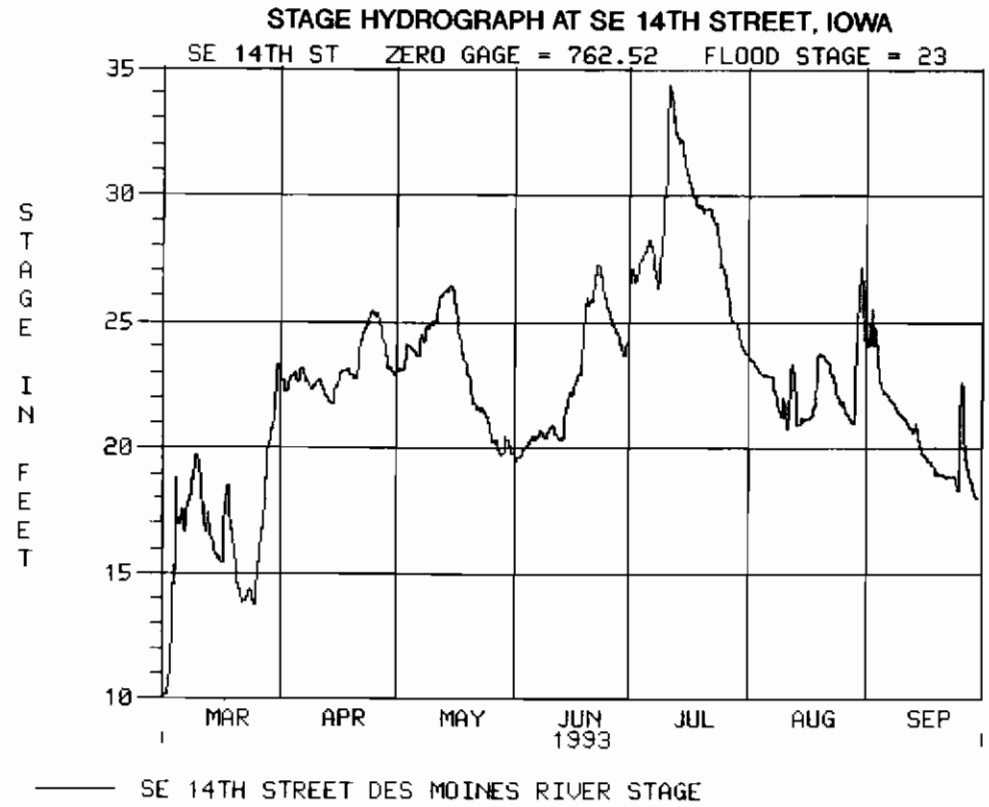


PLATE 35

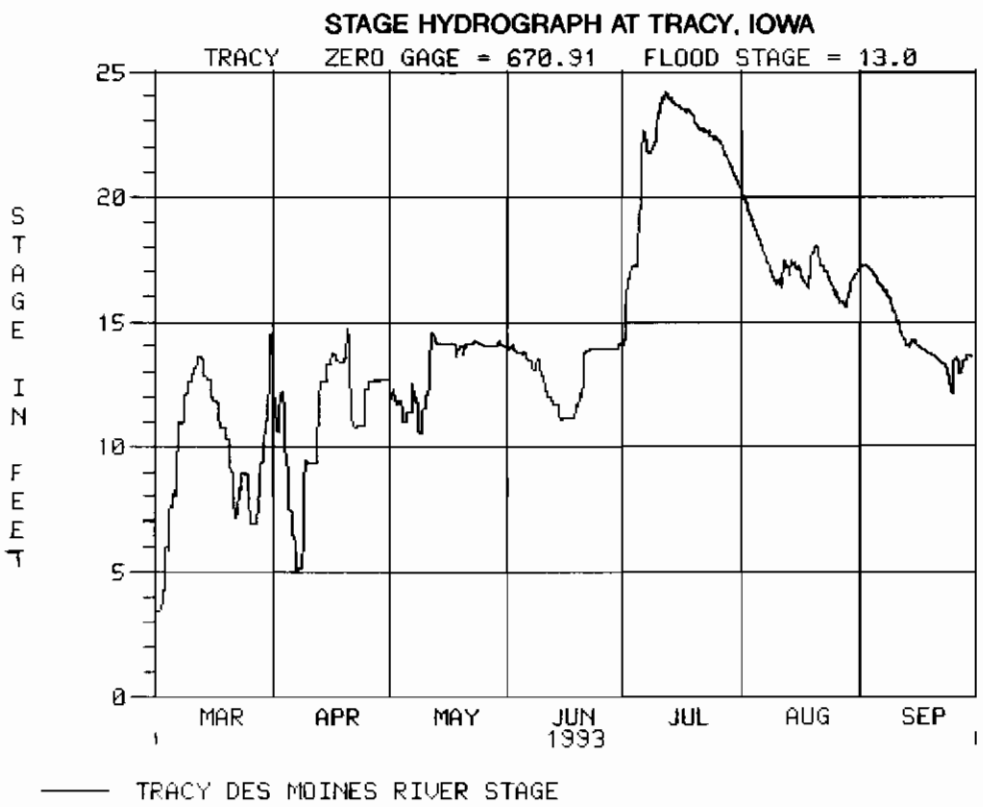


PLATE 36

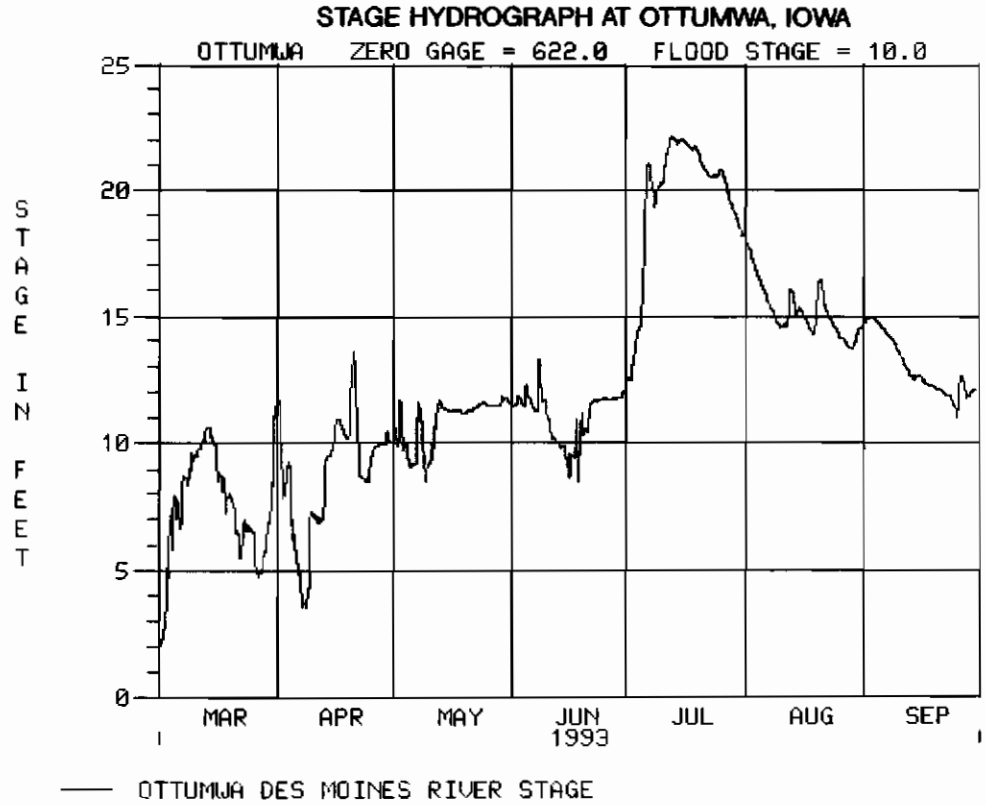


PLATE 37

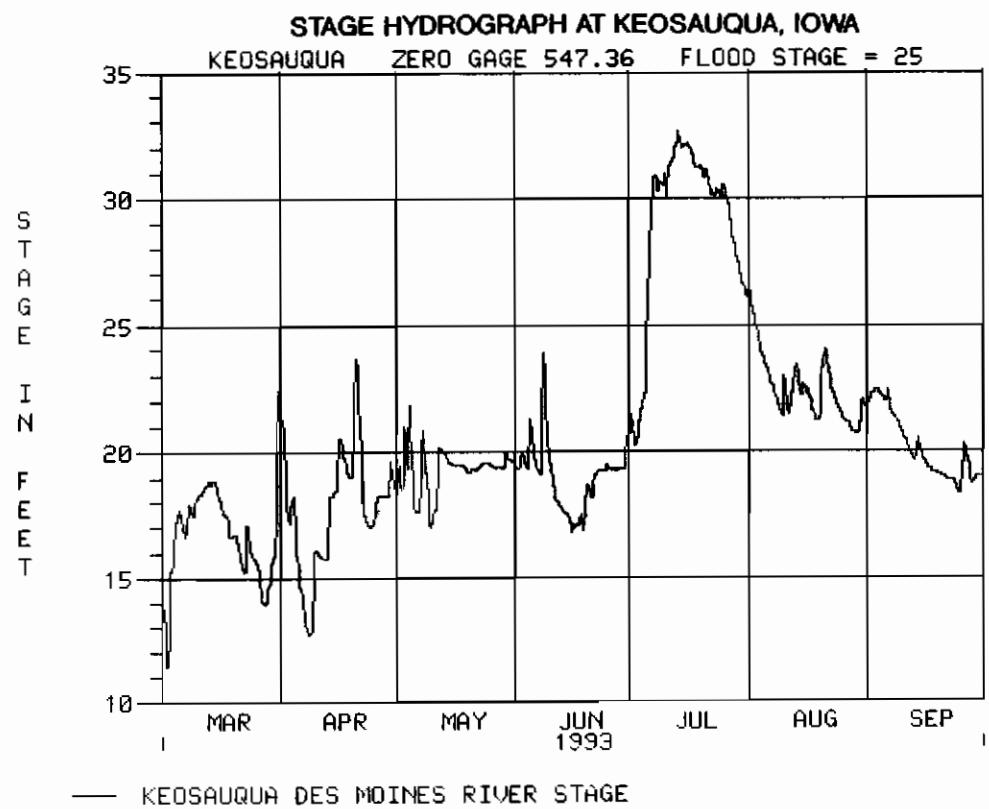


PLATE 38

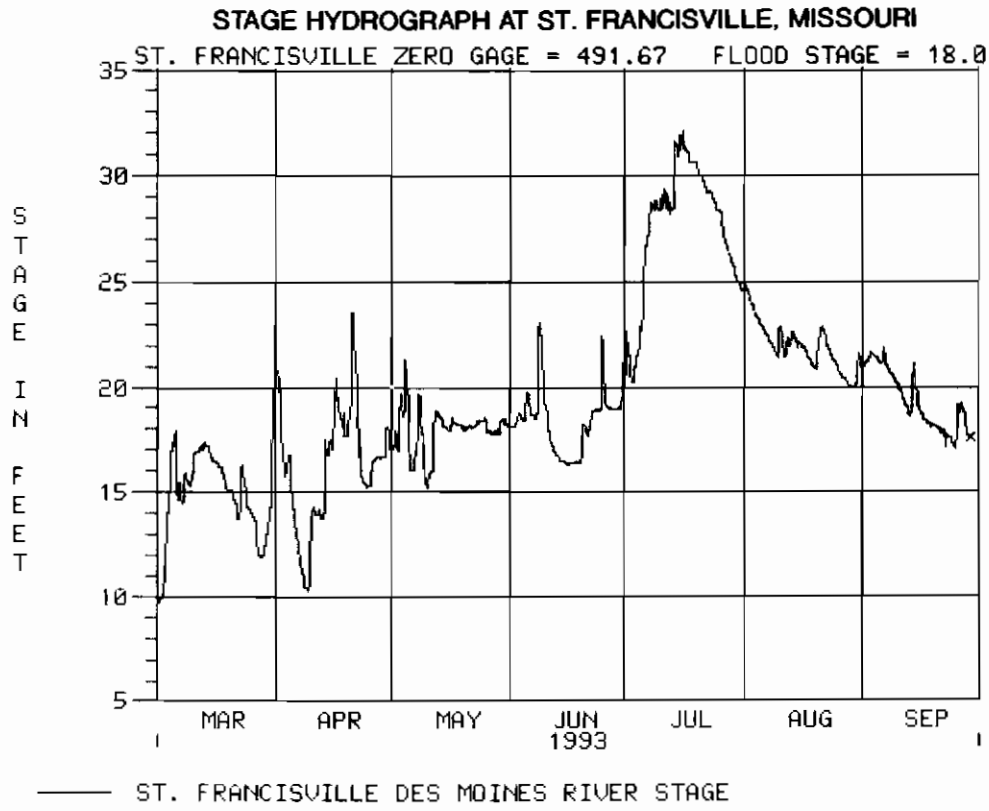
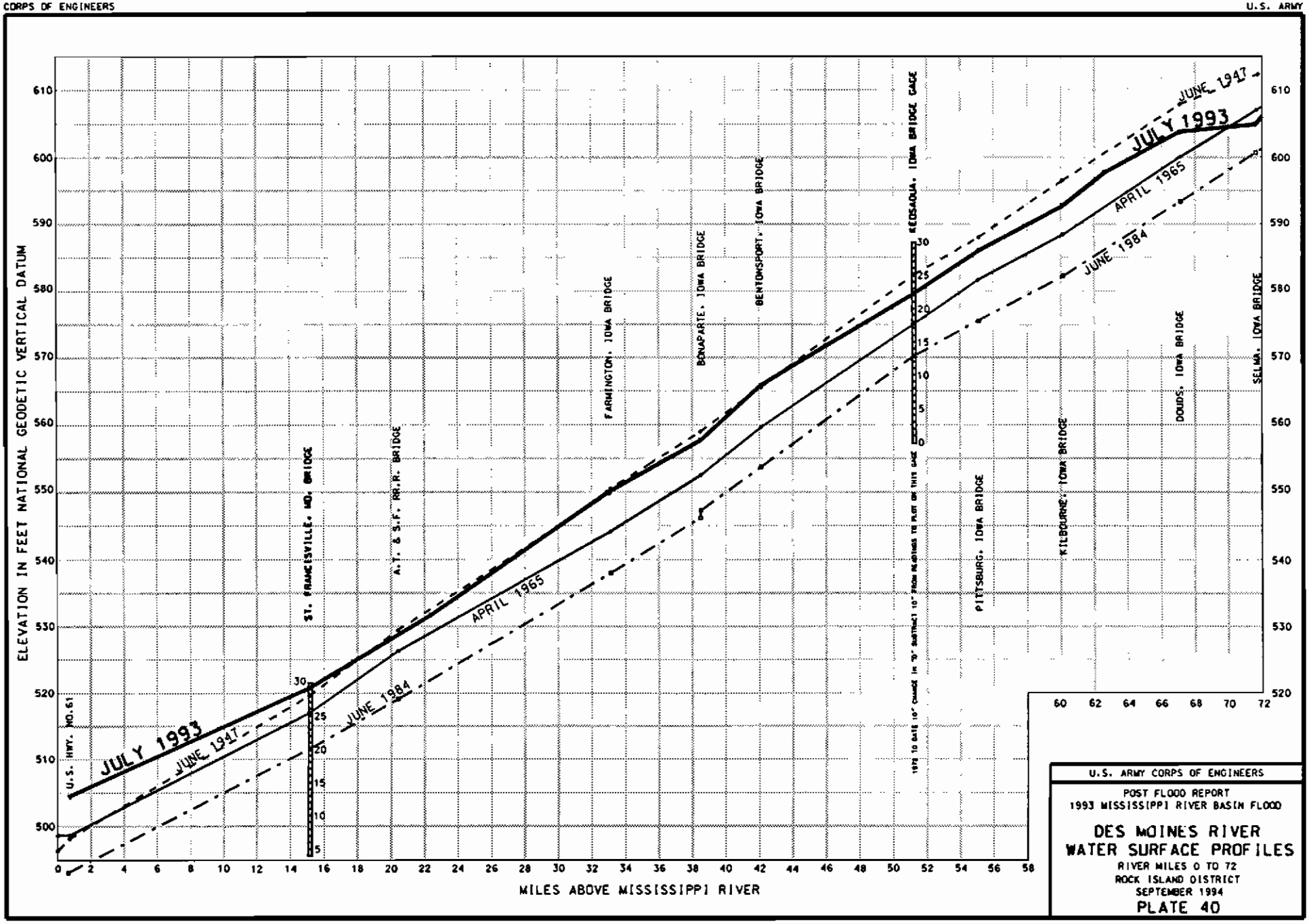
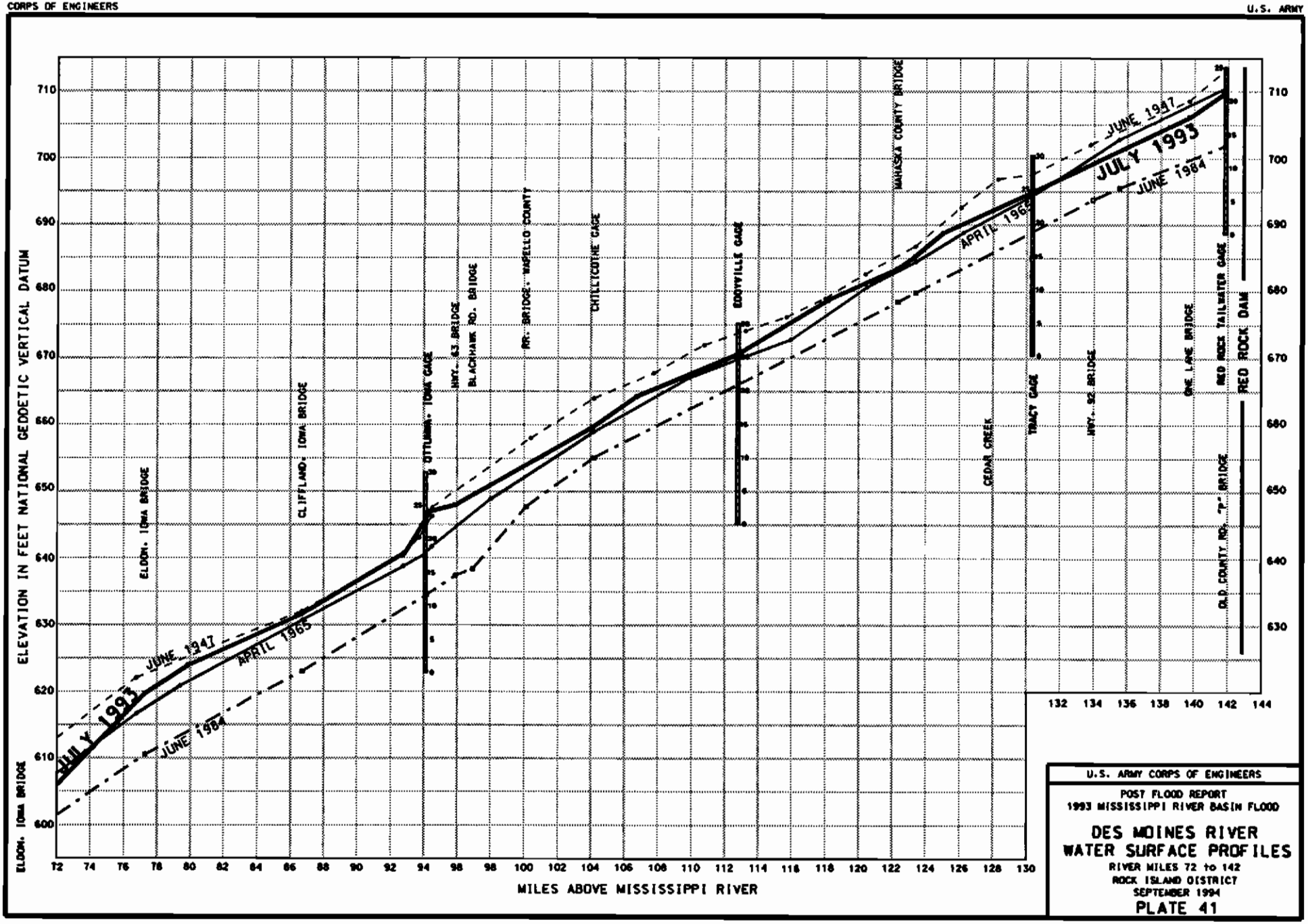

STAGE HYDROGRAPH AT ST. FRANCISVILLE, MISSOURI
ST. FRANCISVILLE ZERO GAGE = 491.67 FLOOD STAGE = 18.0
STAGE IN FEET
35
30
25
20
15
10
5
MAR
APR
MAY
JUN
1993
JUL
AUG
SEP
ST. FRANCISVILLE DES MOINES RIVER STAGE

PLATE 39


ELEVATION IN FEET NATIONAL GEODETIC VERTICAL DATUM
MILES ABOVE MISSISSIPPI RIVER
JULY 1993
JUNE 1947
APRIL 1965
JUNE 1984
U.S. HWY. MO. 61
ST. FRANCESVILLE, MO. BRIDGE
A.T. & S.F. RR.R. BRIDGE
FARMINGTON, IOWA BRIDGE
BONAPARTE, IOWA BRIDGE
BENTONSPORT, IOWA BRIDGE
KEOSAQUA, IOWA BRIDGE GAGE
PITTSBURG, IOWA BRIDGE
KILBOURNE, IOWA BRIDGE
DOUDS, IOWA BRIDGE
SELMA, IOWA BRIDGE
U.S. ARMY CORPS OF ENGINEERS
POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD
DES MOINES RIVER
WATER SURFACE PROFILES
RIVER MILES 0 TO 72
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 40



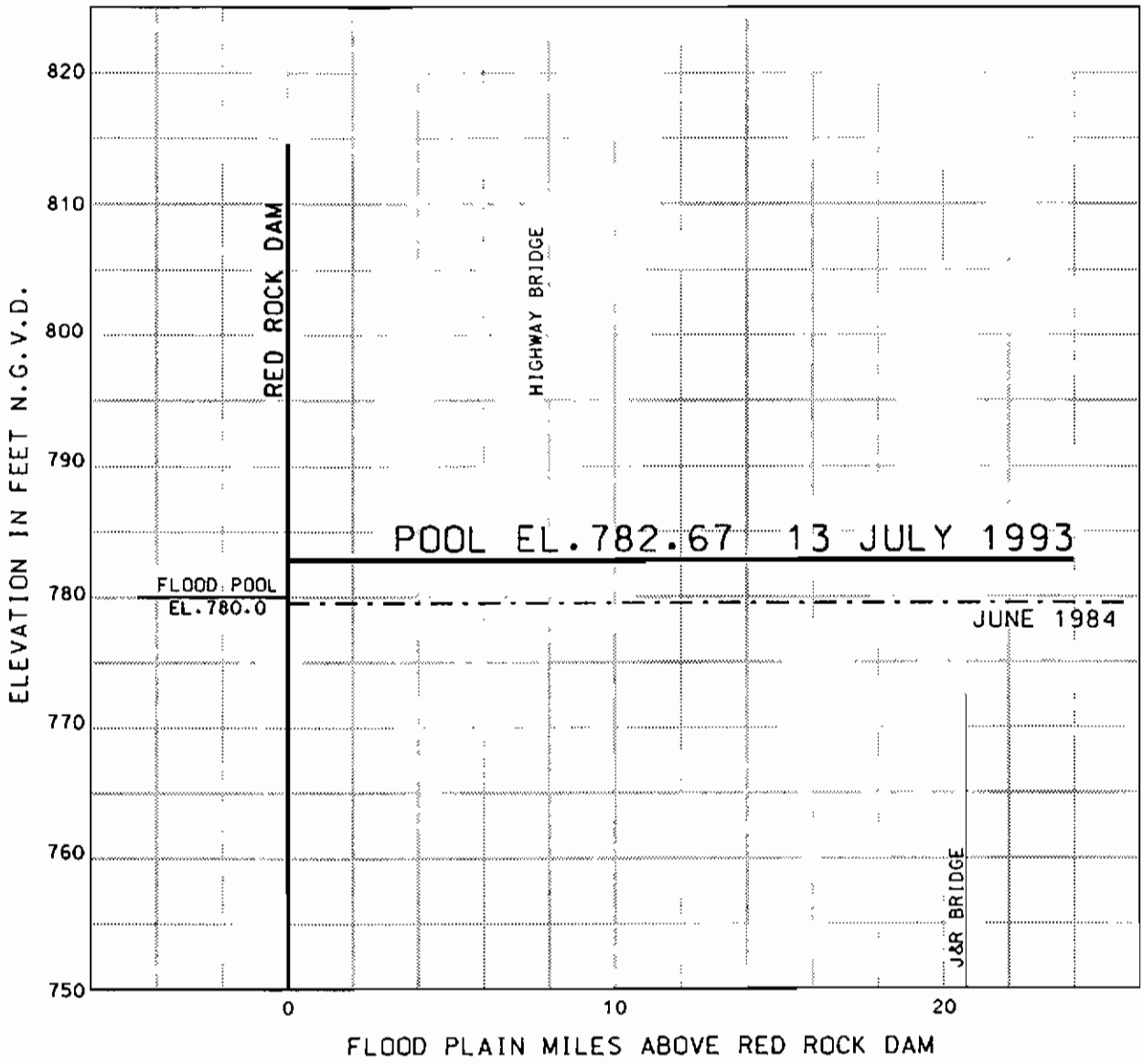
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

DES MOINES RIVER
WATER SURFACE PROFILES

RIVER MILES 72 to 142
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 41



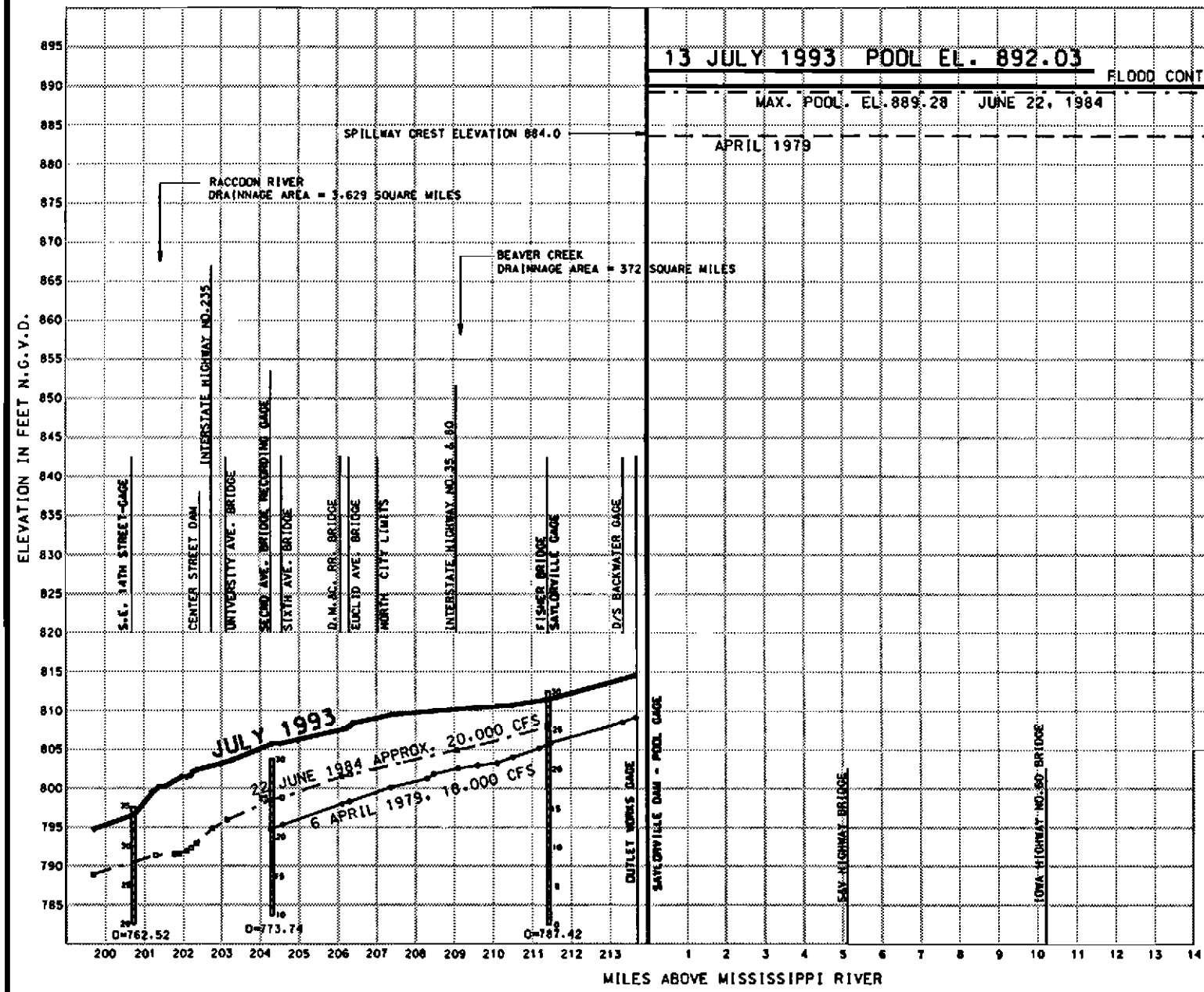
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

DES MOINES RIVER
WATER SURFACE PROFILES

RED ROCK DAM TO SAYLORVILLE
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 42



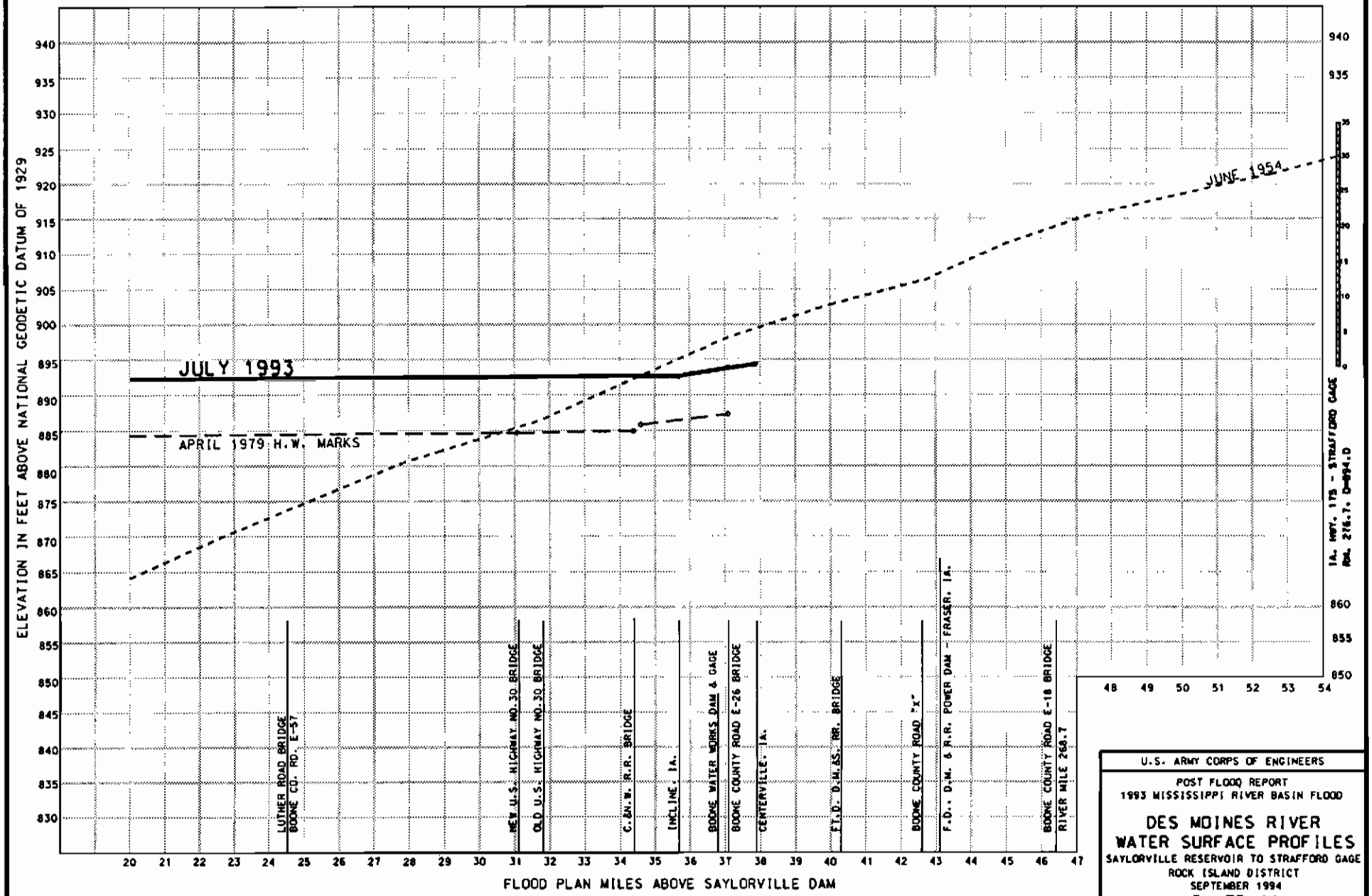
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD
APPENDIX B

DES MOINES RIVER WATER SURFACE PROFILES

SAYLORVILLE RESERVOIR
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 43



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

DES MOINES RIVER
WATER SURFACE PROFILES
SAYLORVILLE RESERVOIR TO STRAFFORD GAGE
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 44

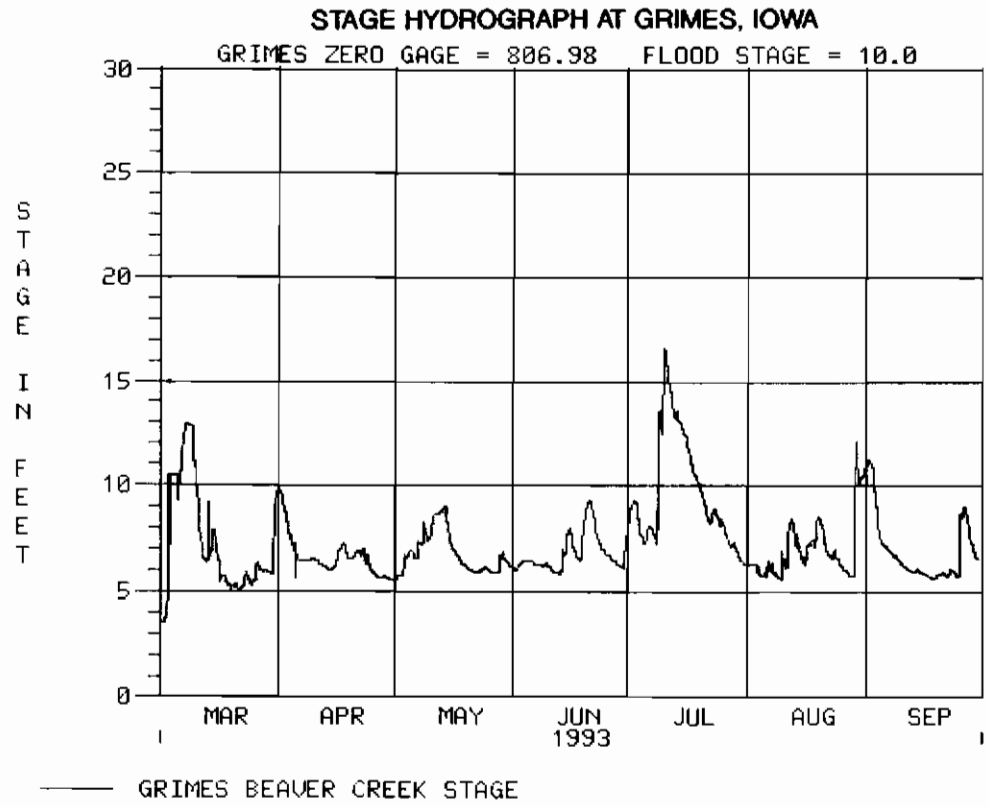


PLATE 45

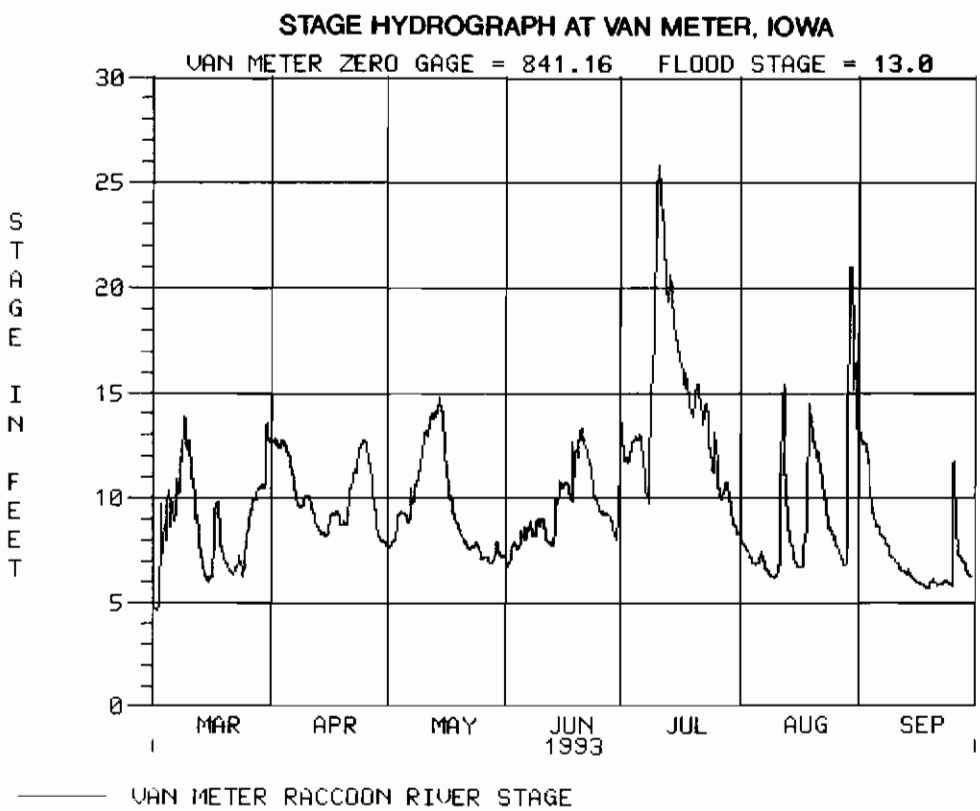
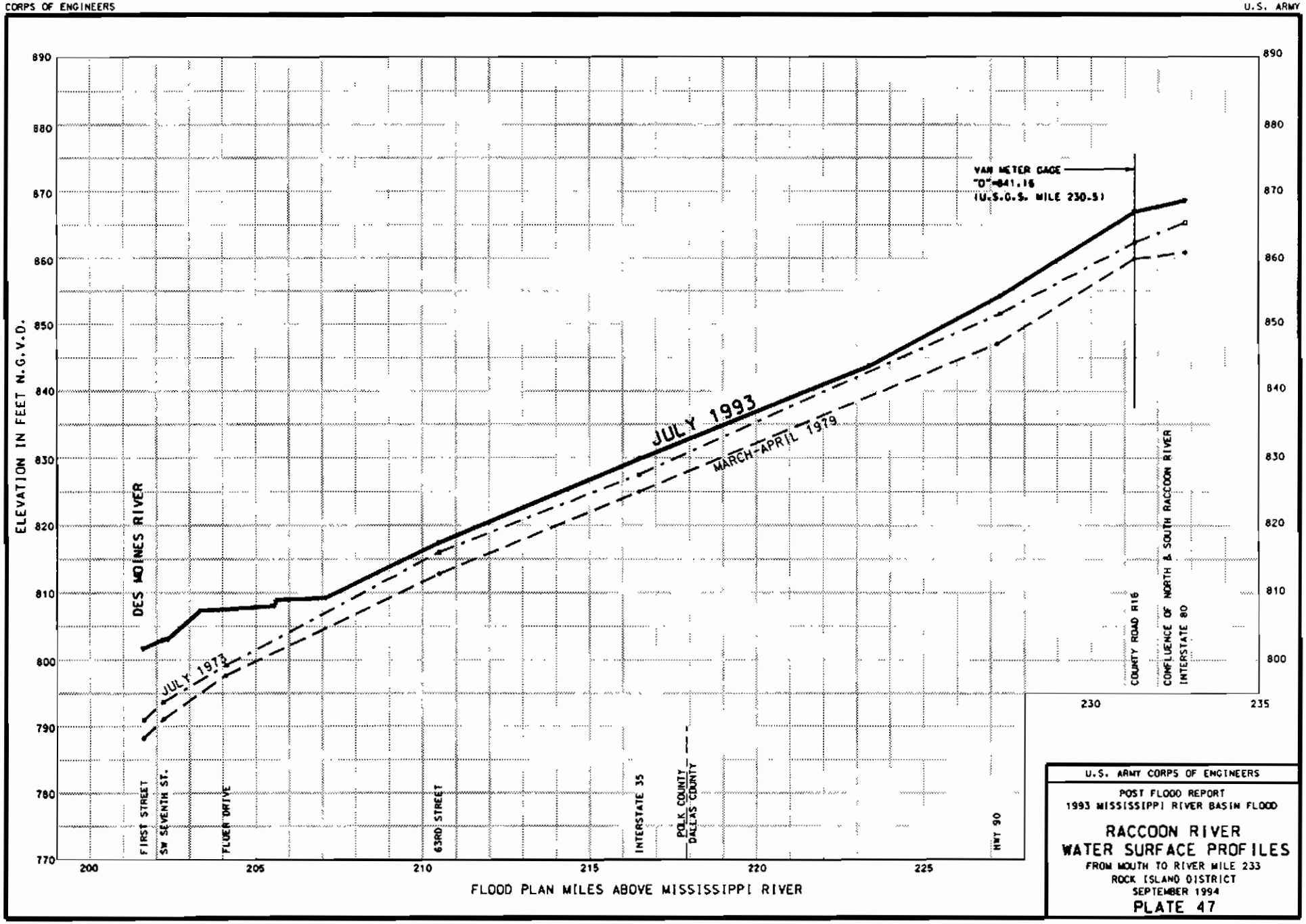


PLATE 46

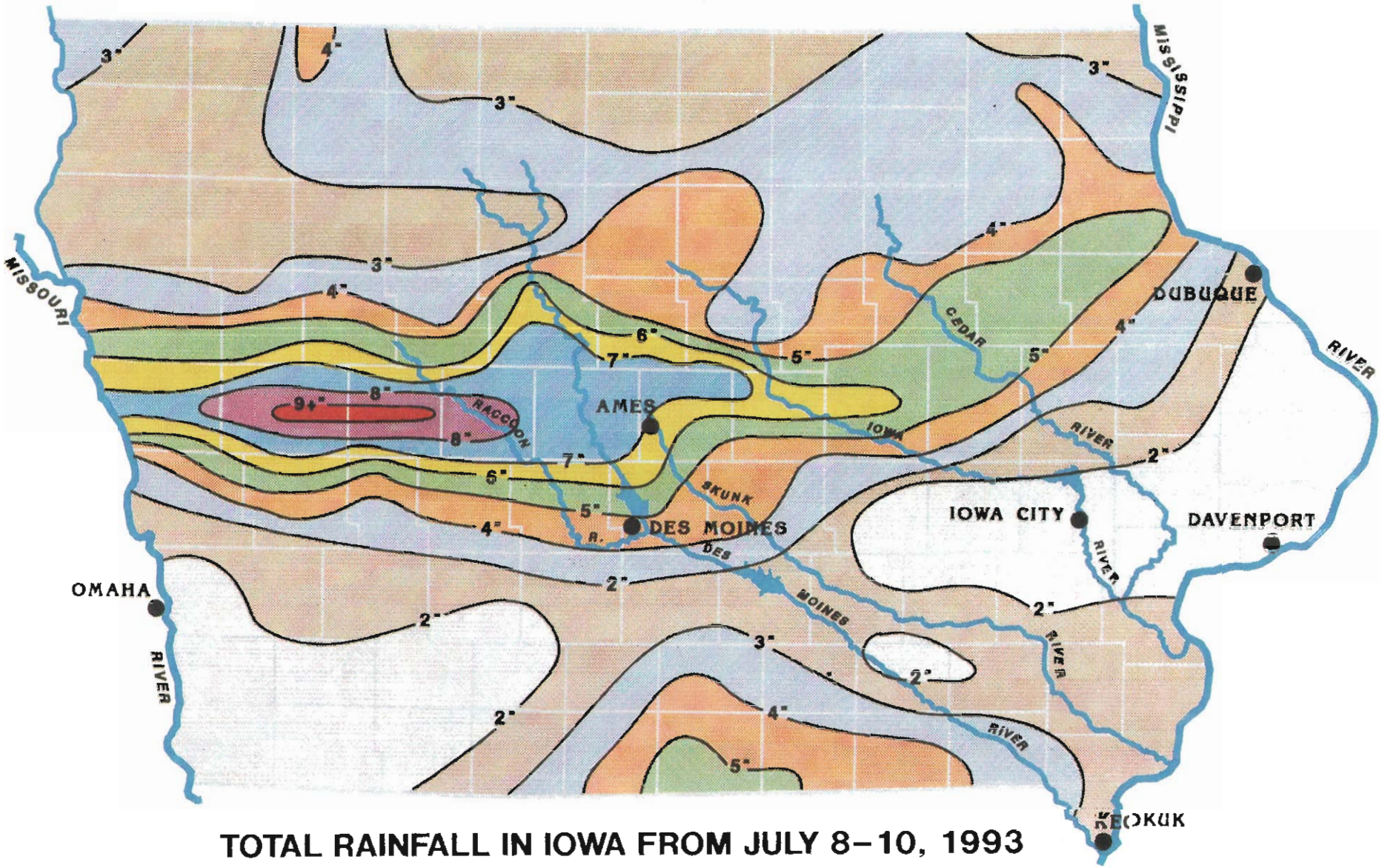


U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

RACCOON RIVER
WATER SURFACE PROFILES
FROM MOUTH TO RIVER MILE 233
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 47

STATE OF IOWA



TOTAL RAINFALL IN IOWA FROM JULY 8–10, 1993

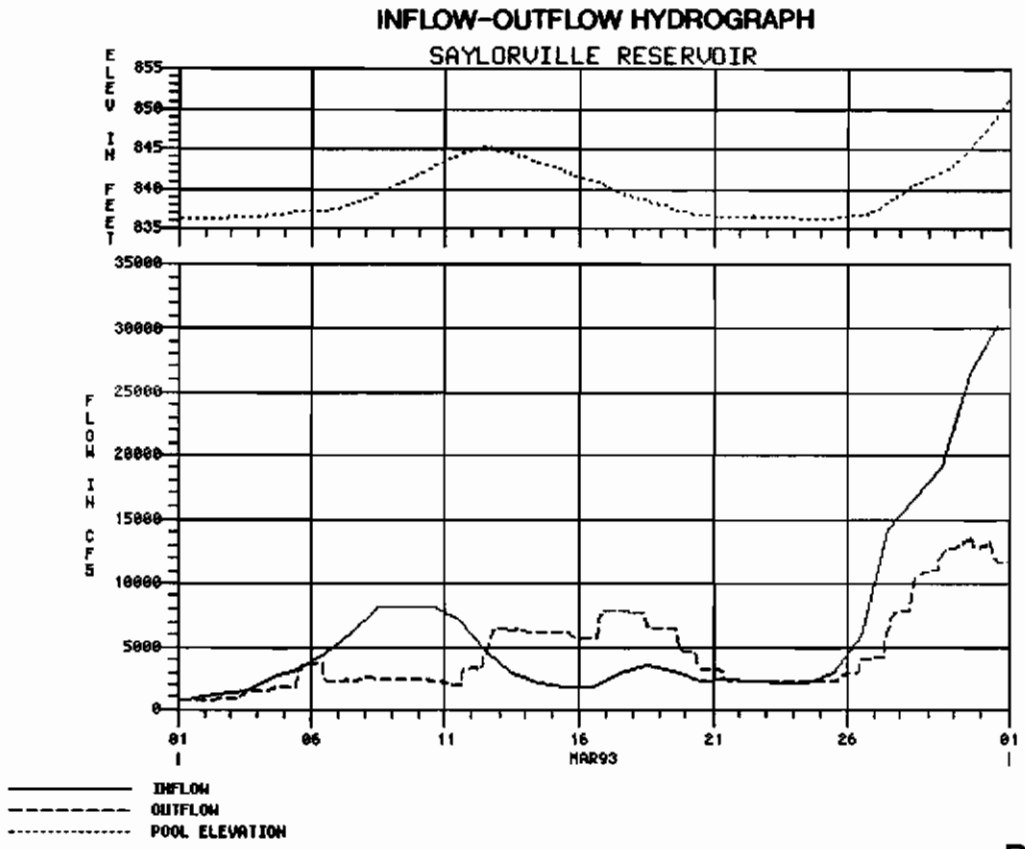


PLATE 49

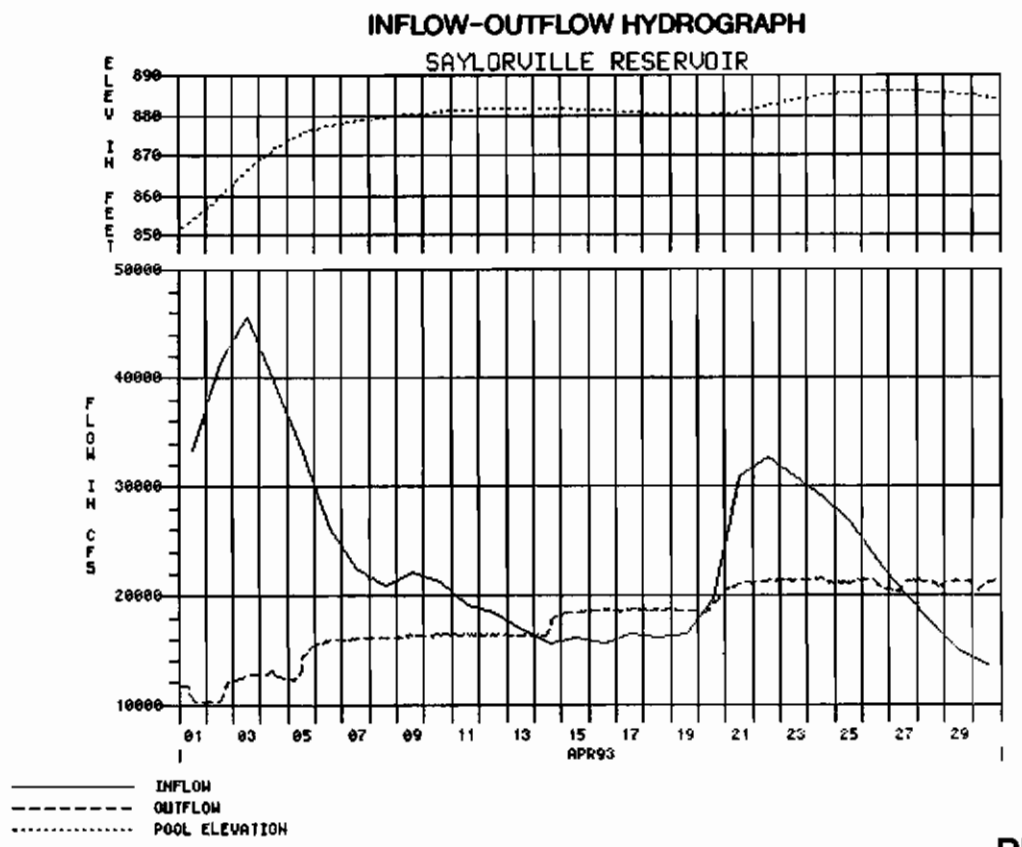


PLATE 50

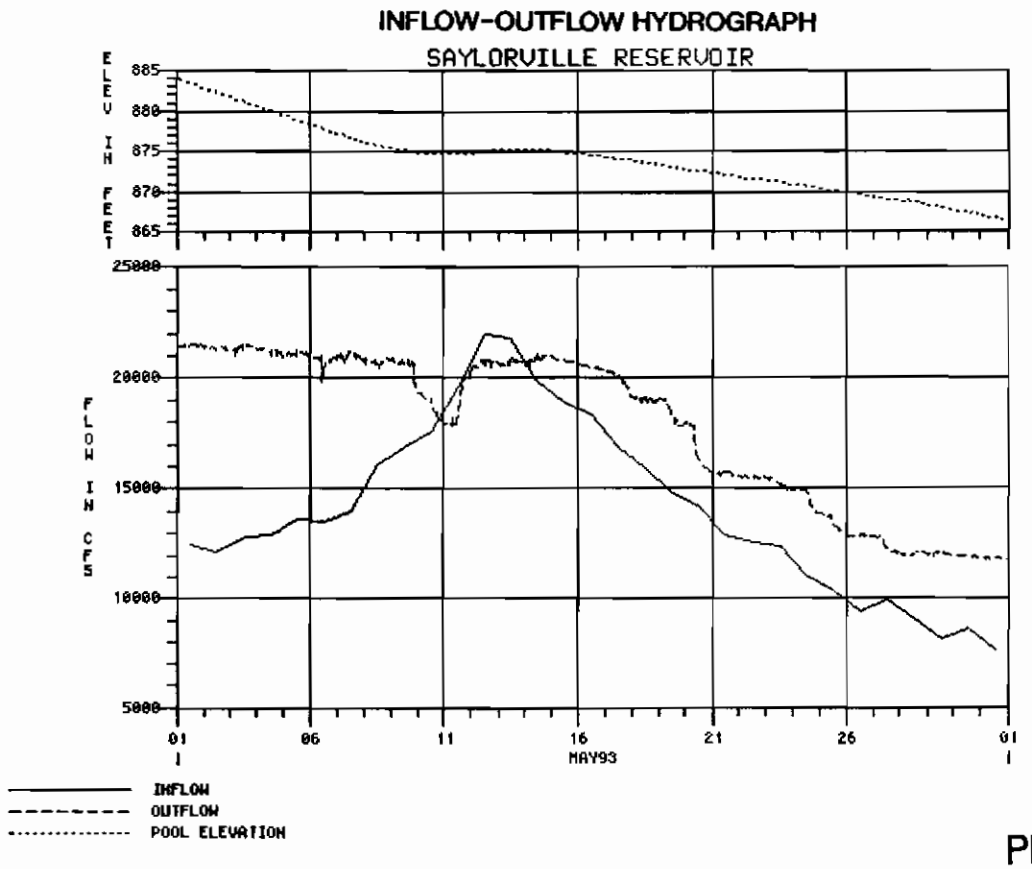


PLATE 51

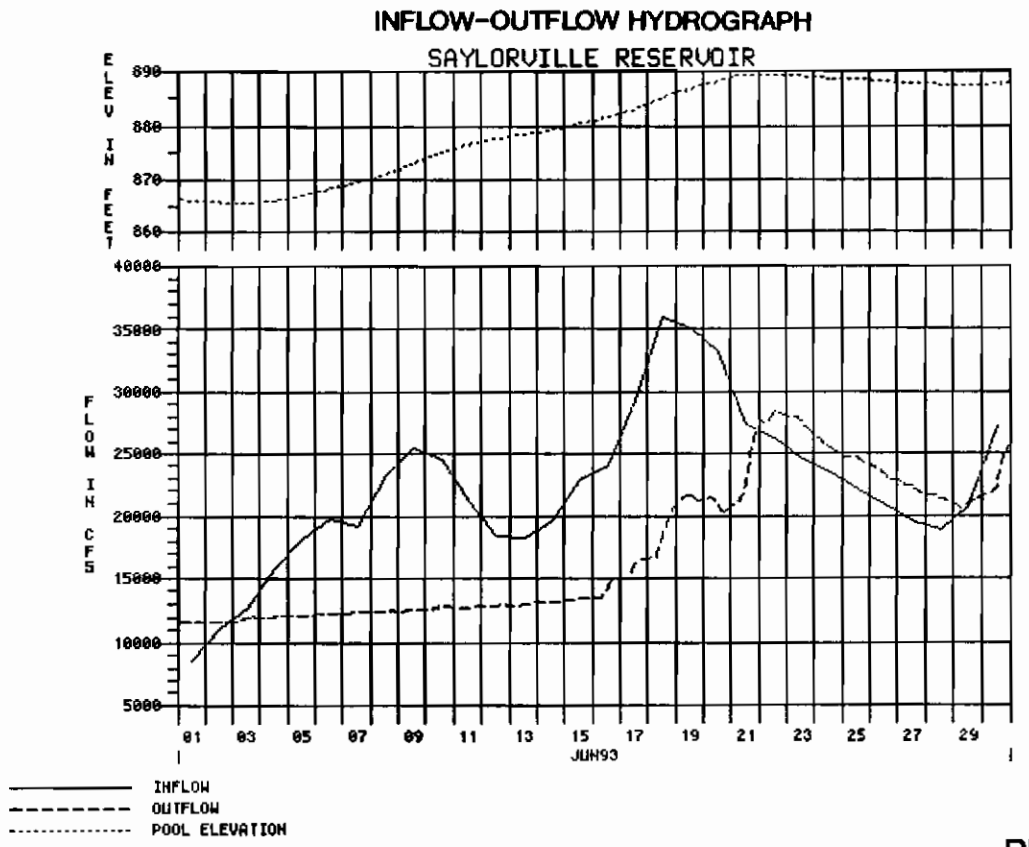


PLATE 52

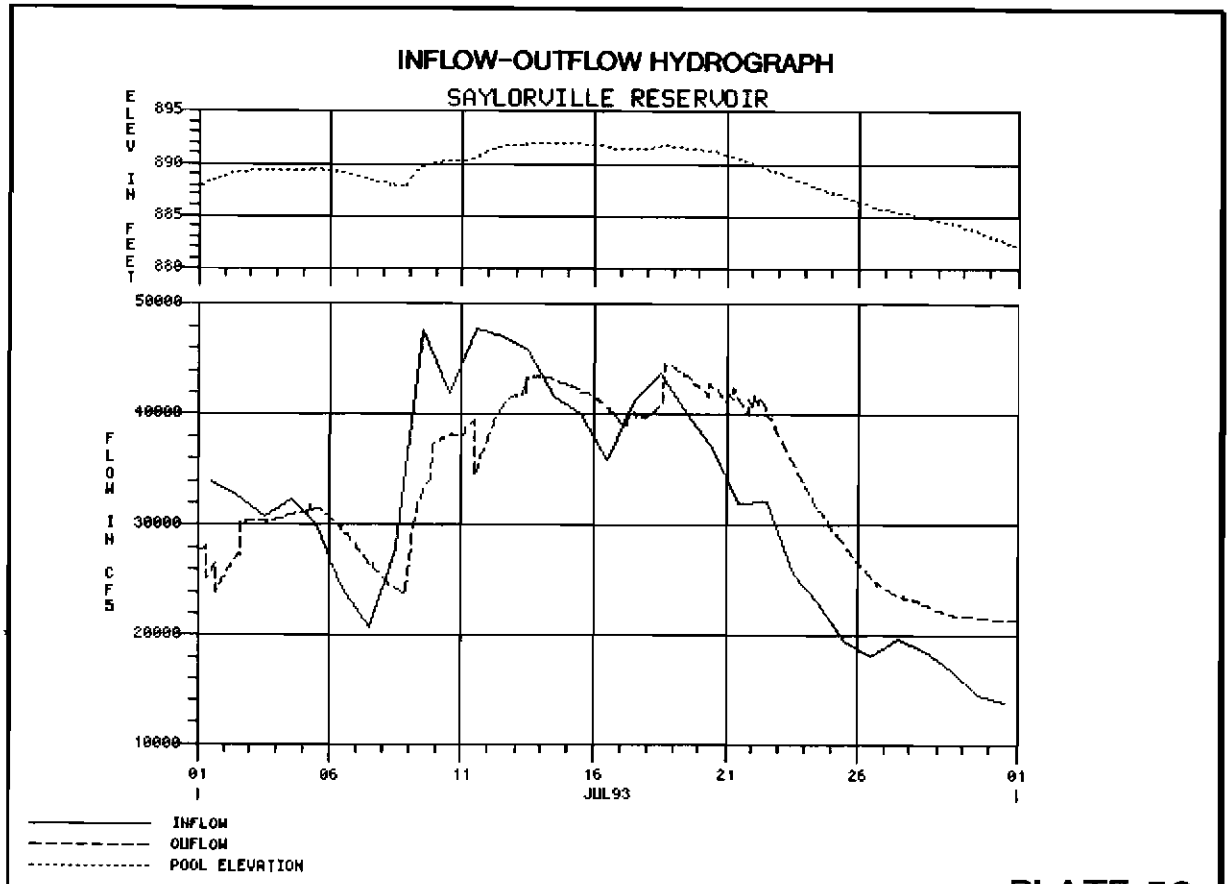


PLATE 53

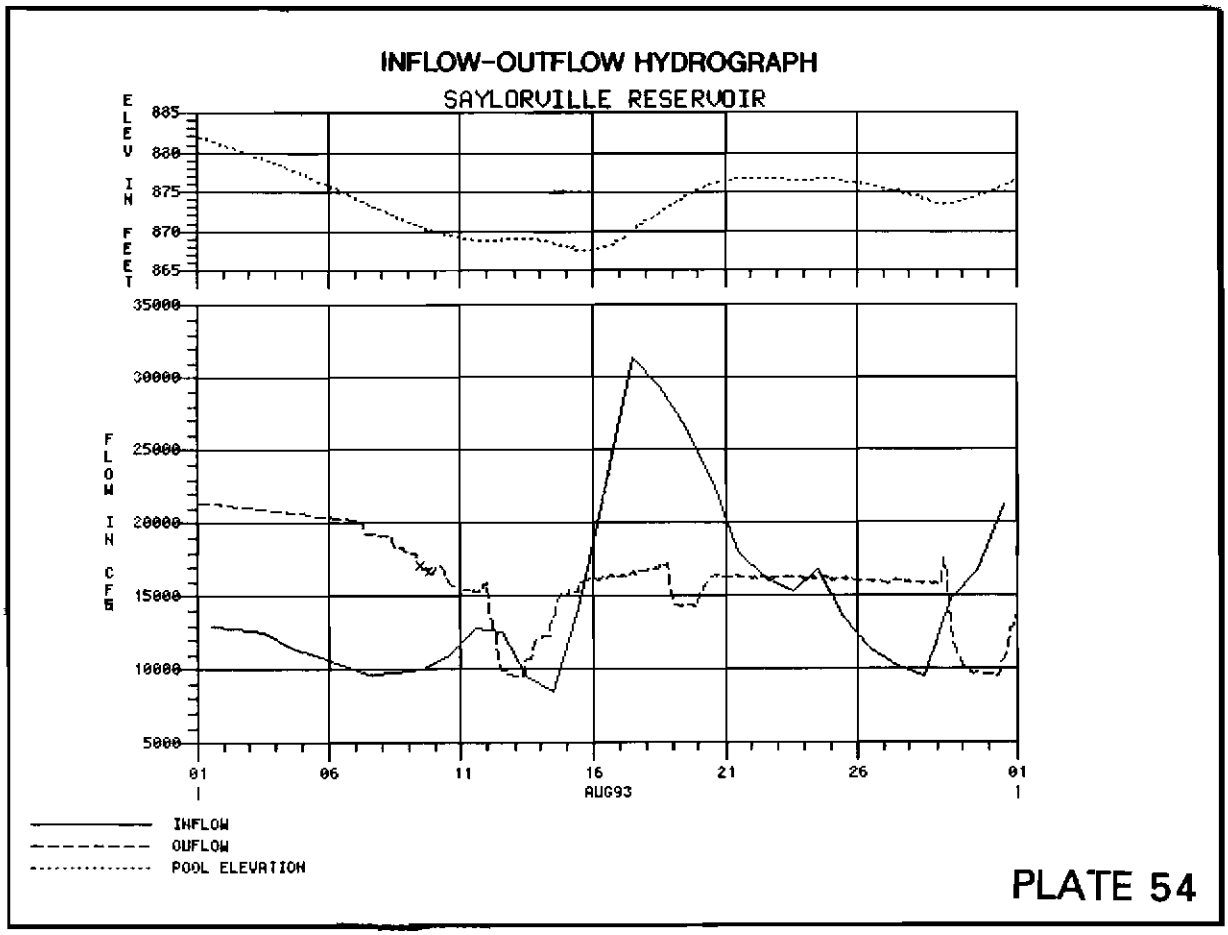


PLATE 54

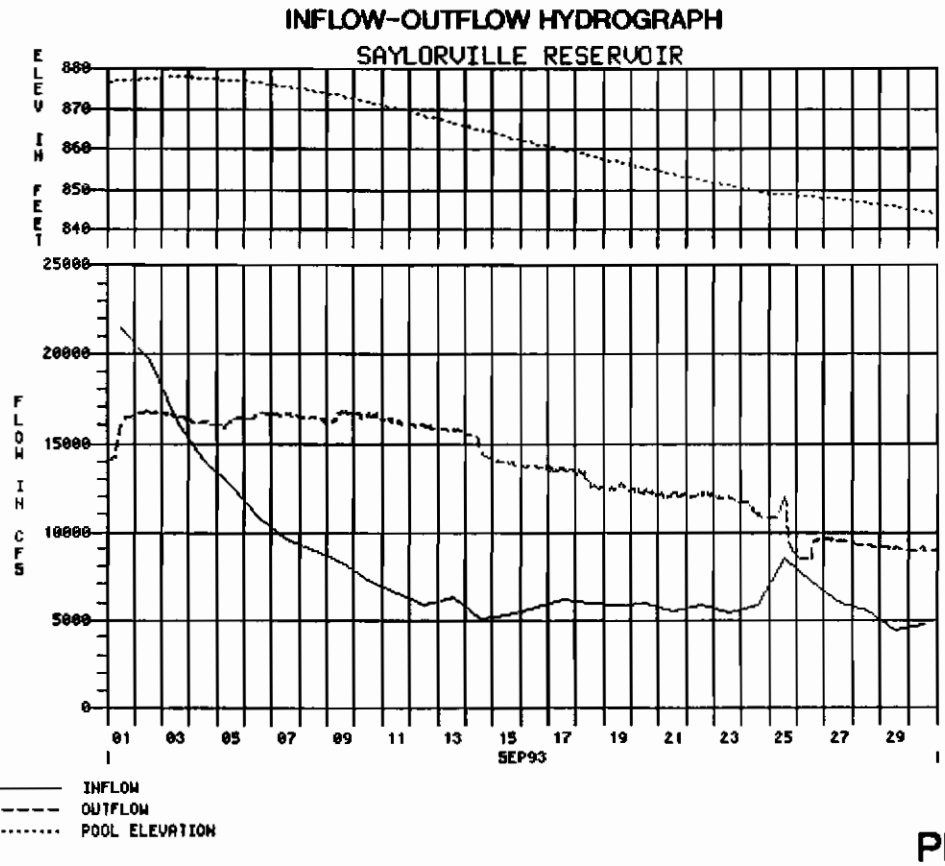

INFLOW-OUTFLOW HYDROGRAPH
SAYLORVILLE RESERVOIR
ELEV IN FEET
880
870
860
850
840
FLOW IN CFS
25000
20000
15000
10000
5000
0
01
03
05
07
09
11
13
15
17
19
21
23
25
27
29
5EP93
INFLOW
OUTFLOW
POOL ELEVATION

PLATE 55

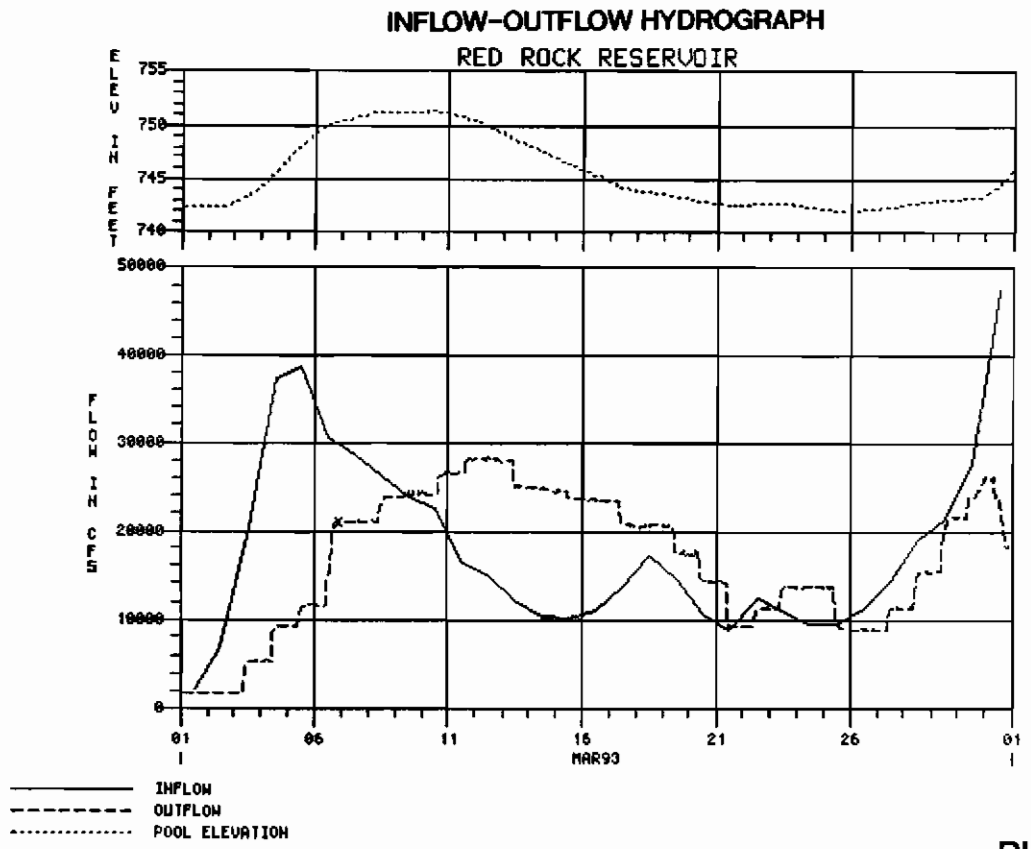


PLATE 56

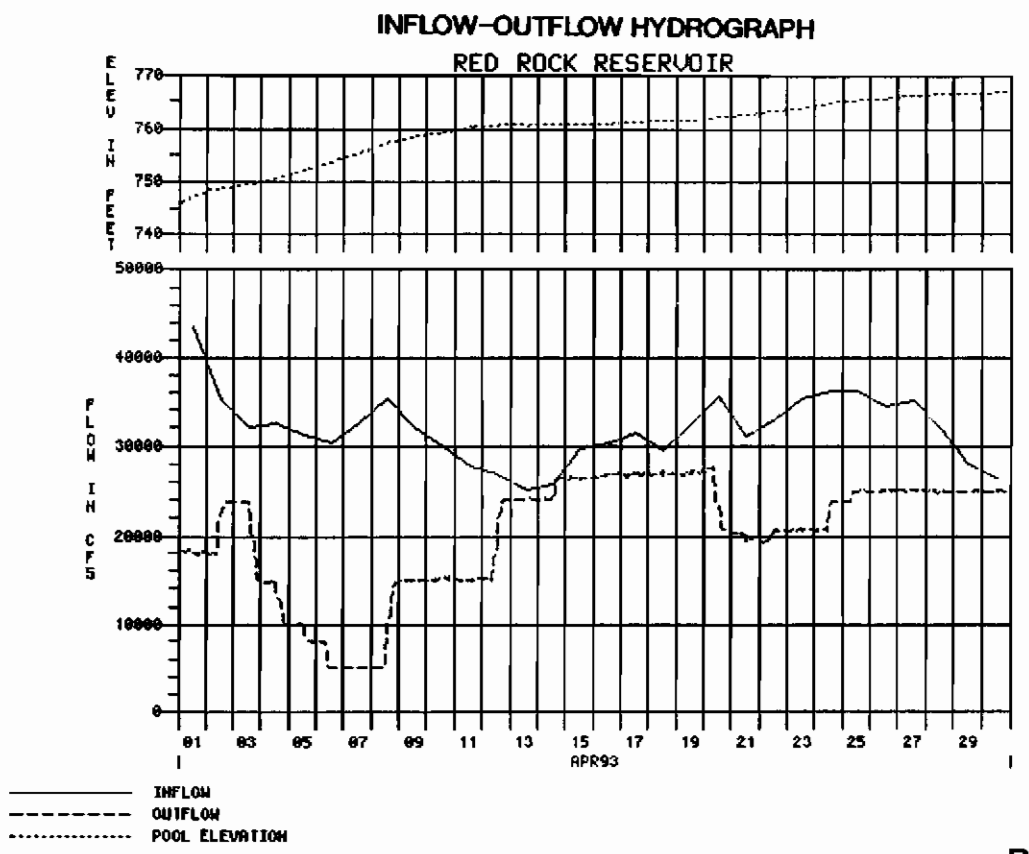


PLATE 57

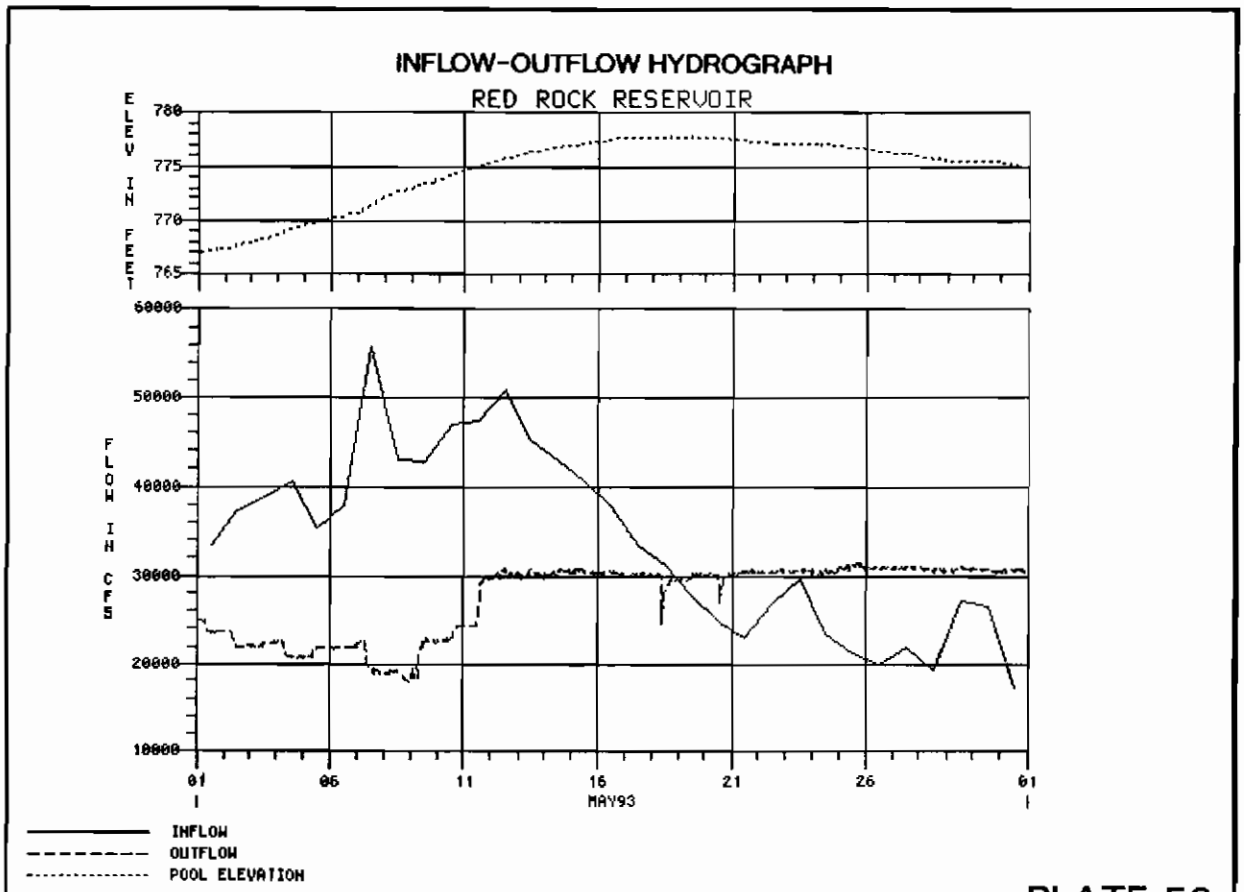


PLATE 58

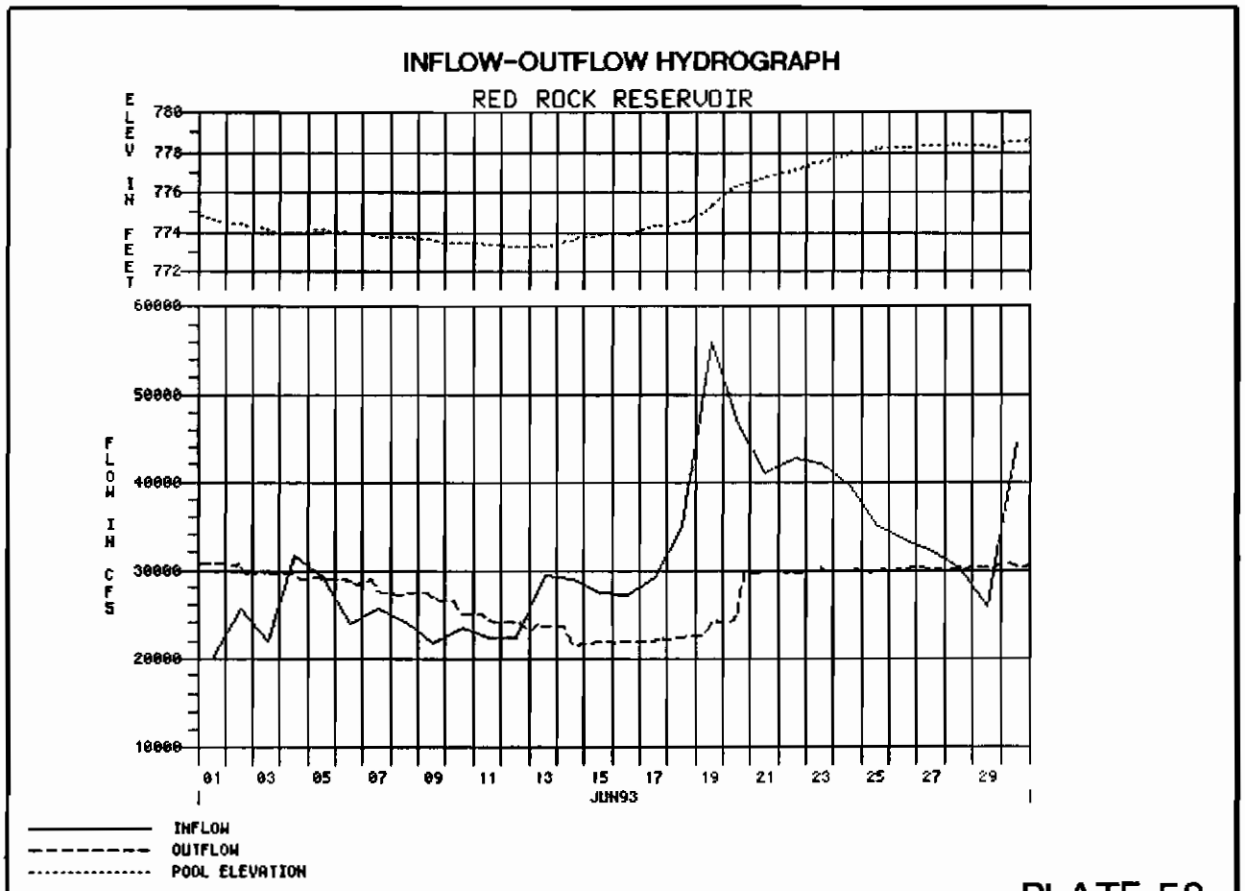


PLATE 59

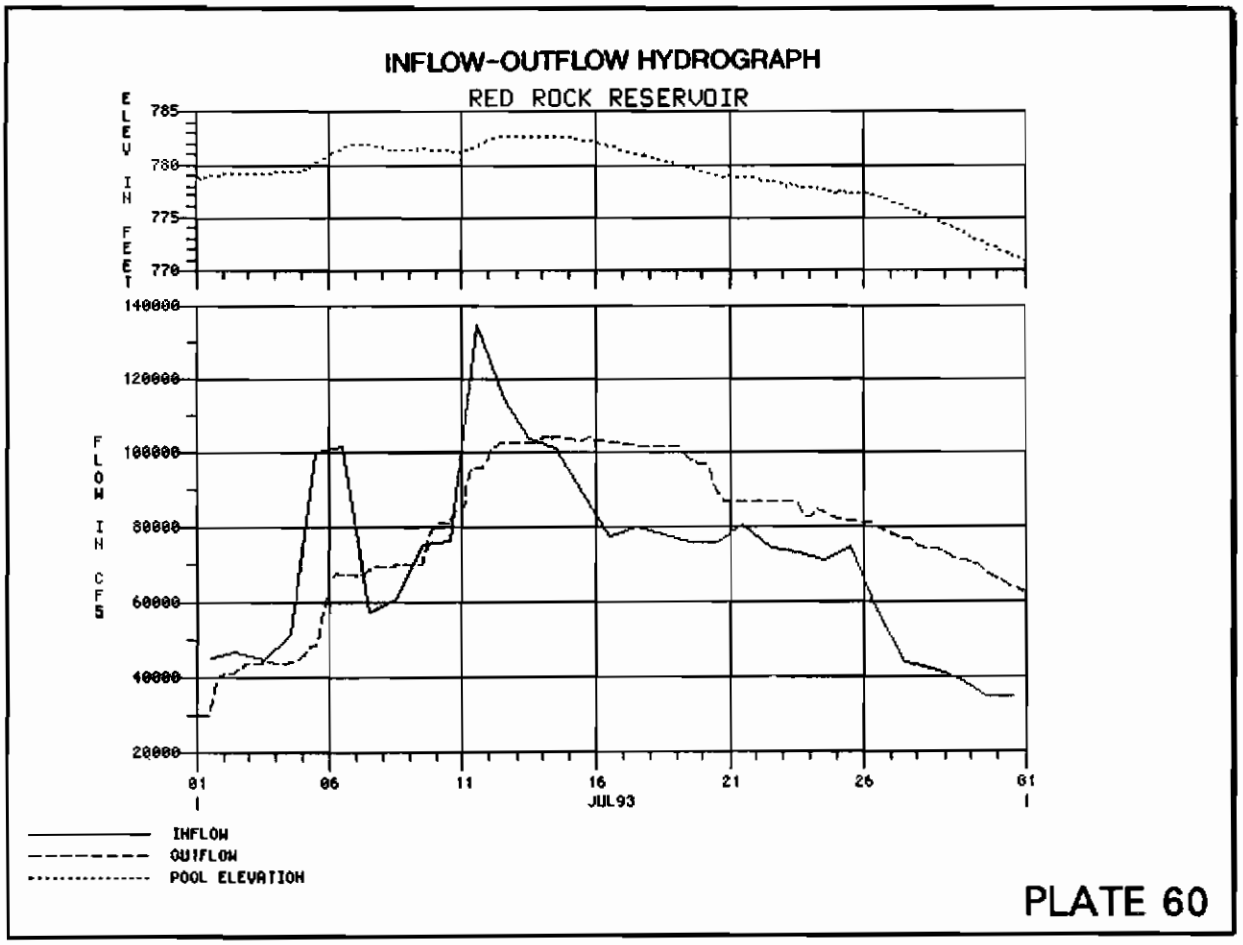


PLATE 60

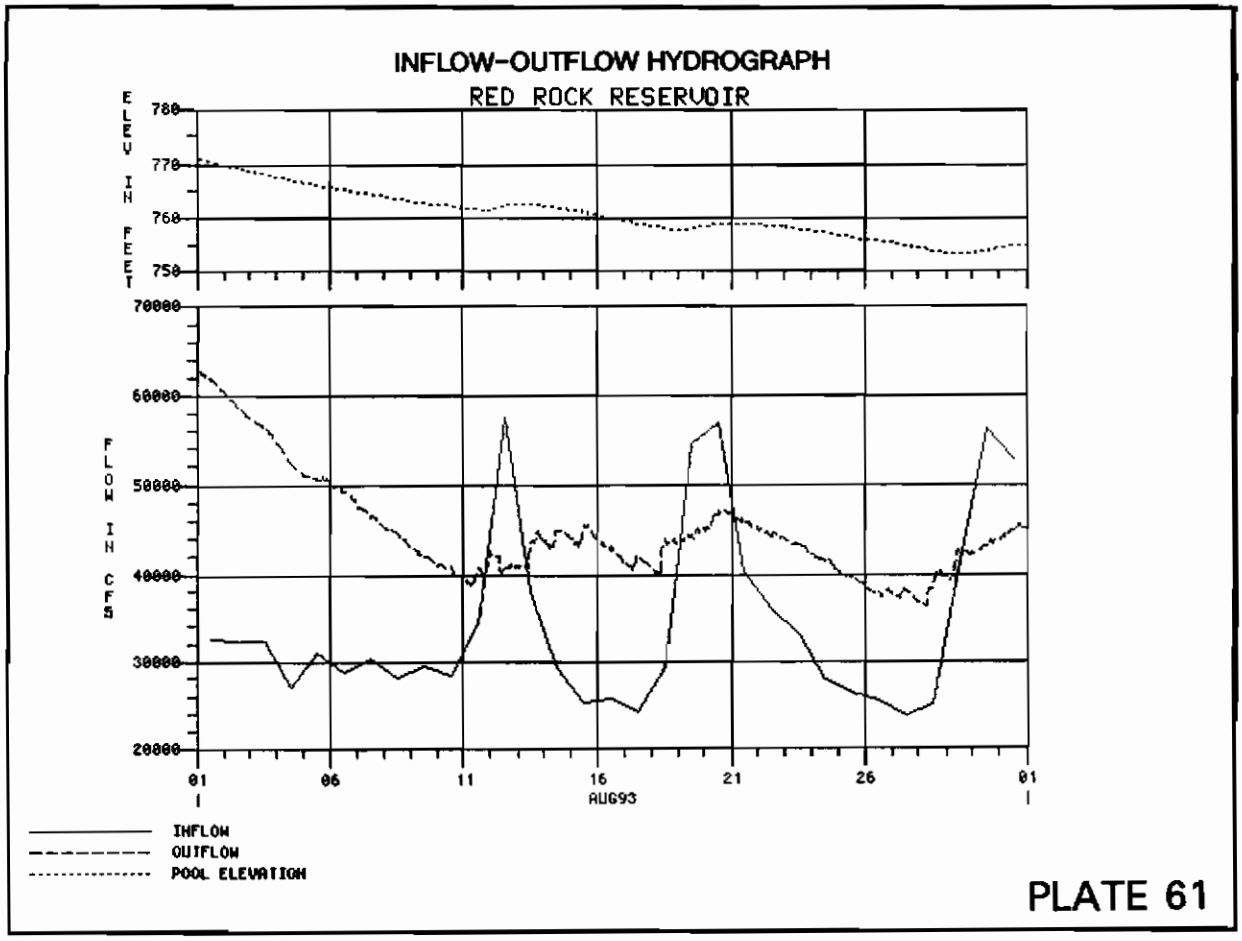


PLATE 61

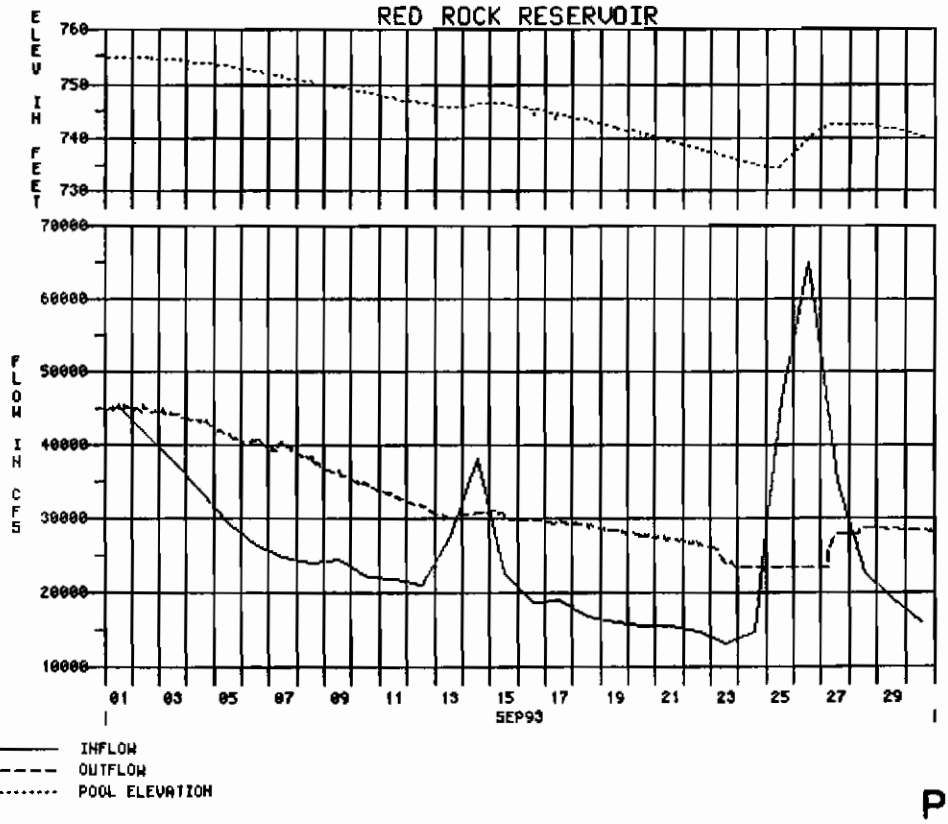
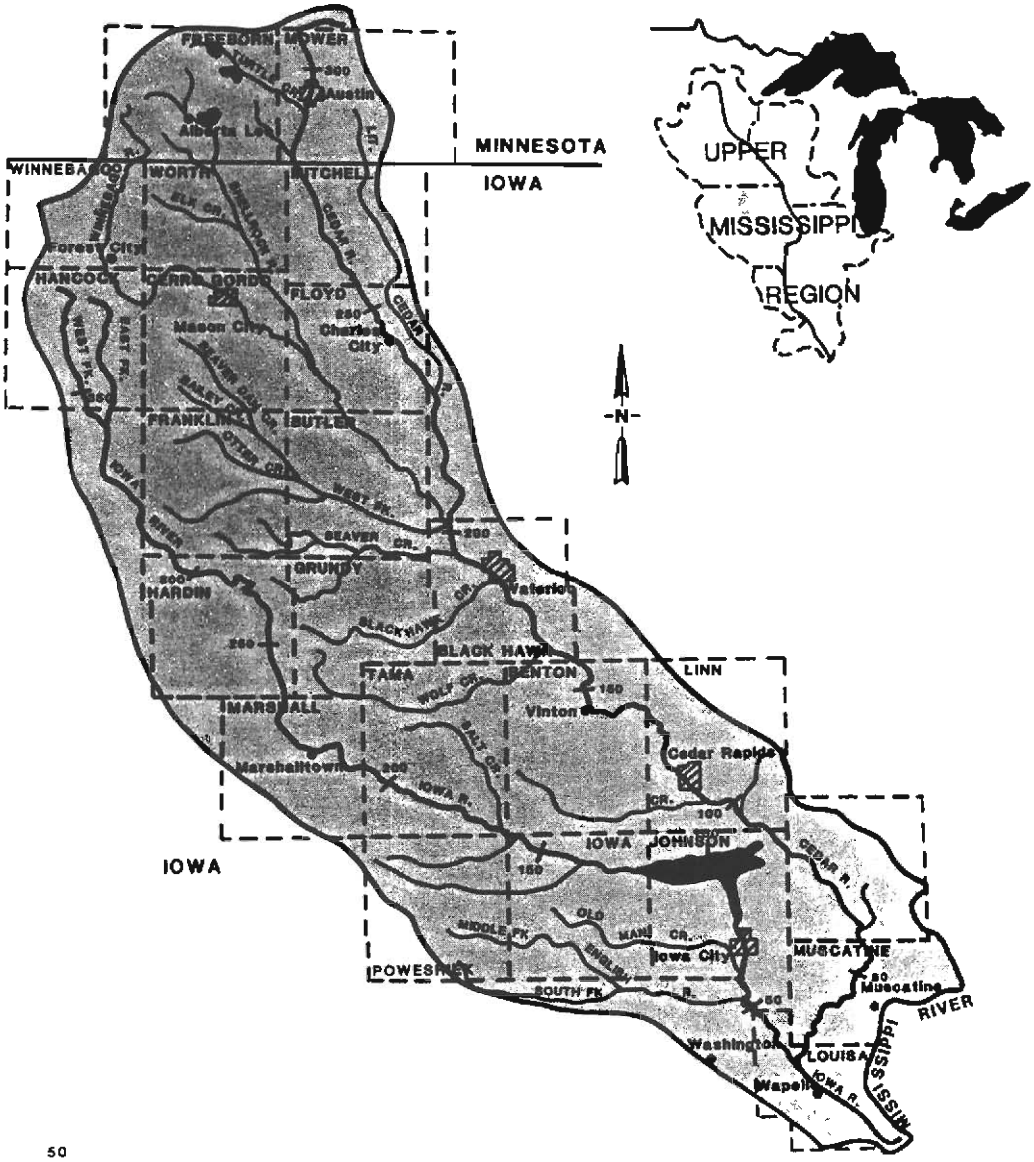

RED ROCK RESERVOIR
ELEV IN FEET
760
750
740
730
FLOW IN CFS
70000
60000
50000
40000
30000
20000
10000
01 03 05 07 09 11 13 15 17 19 21 23 25 27 29
SEP93
INFLOW
OUTFLOW
POOL ELEVATION

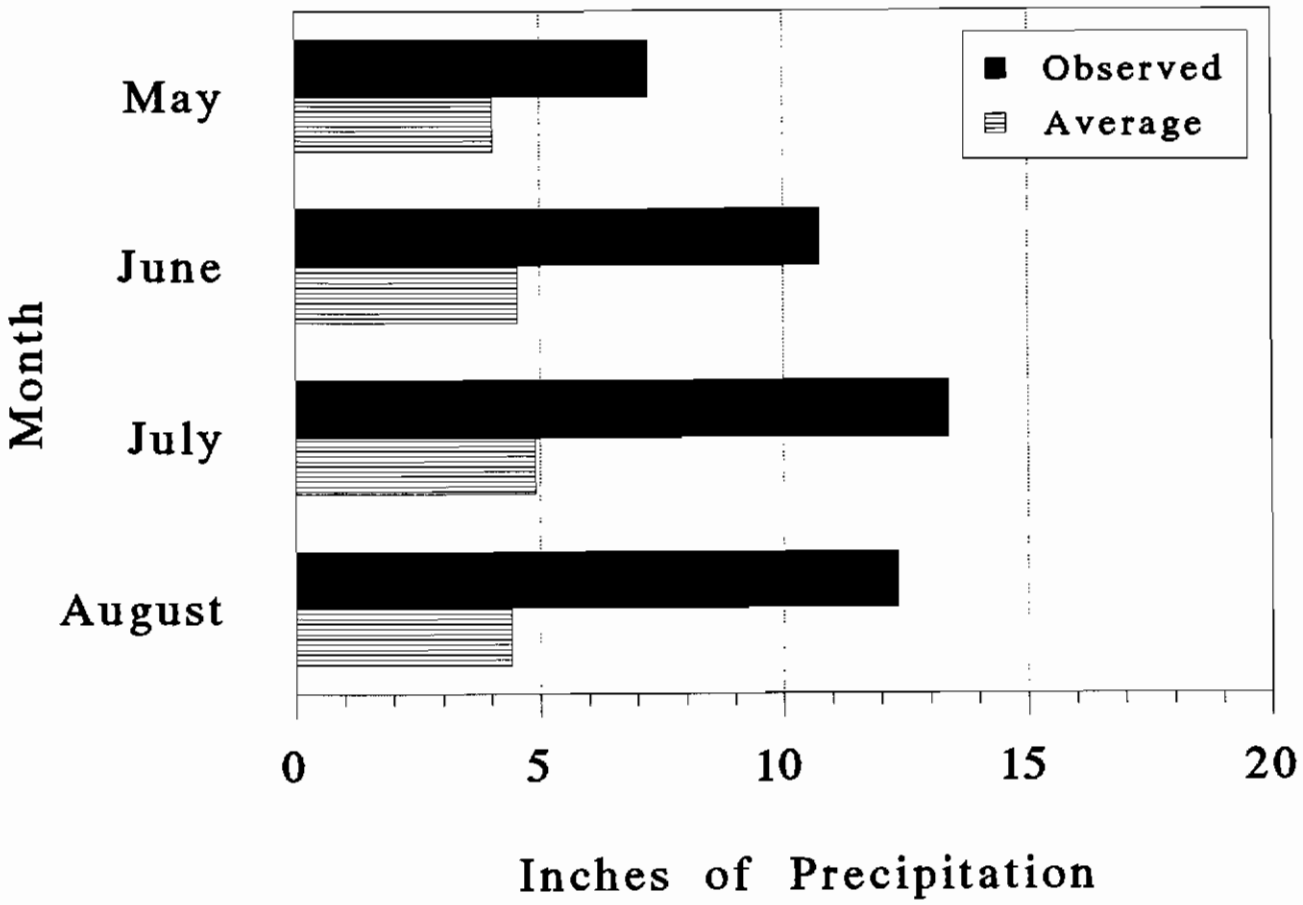
PLATE 62



IOWA - CEDAR RIVERS BASIN

PLATE 63

1993 Monthly Precipitation
Iowa City, Iowa



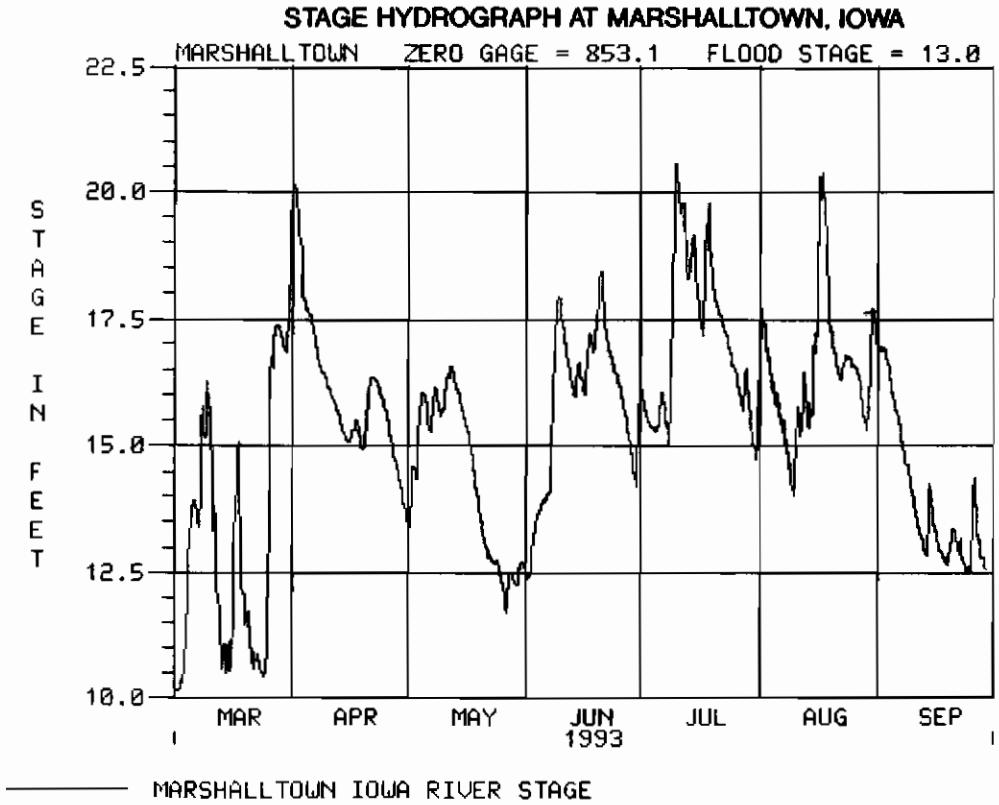


PLATE 65

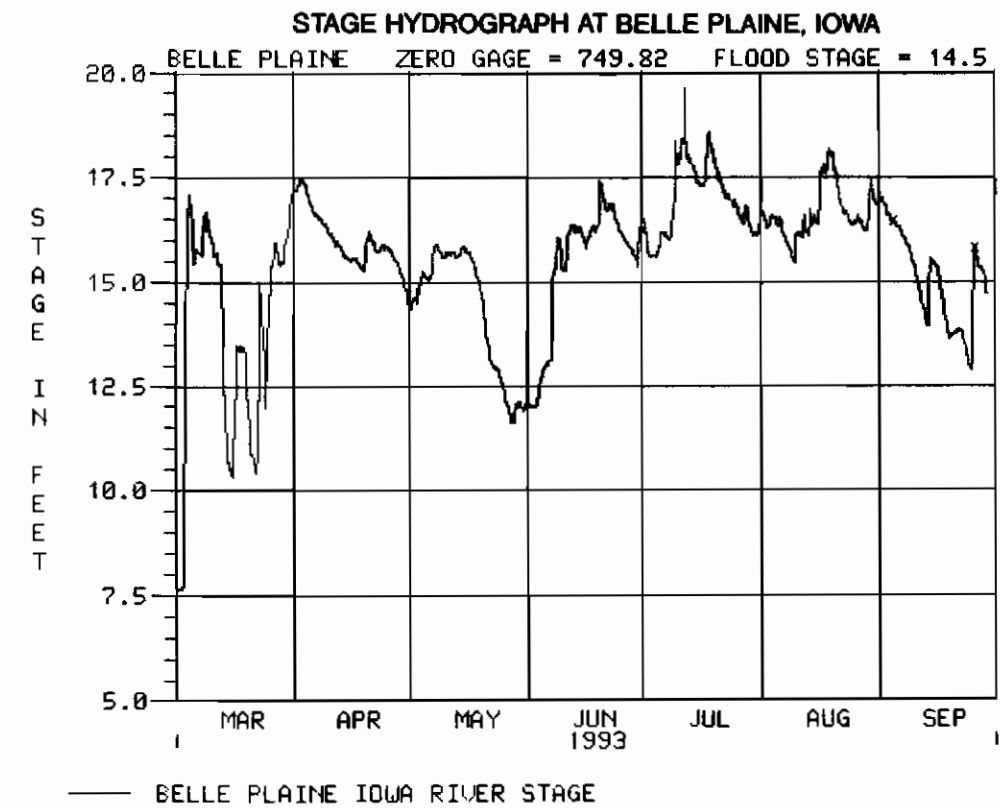


PLATE 66

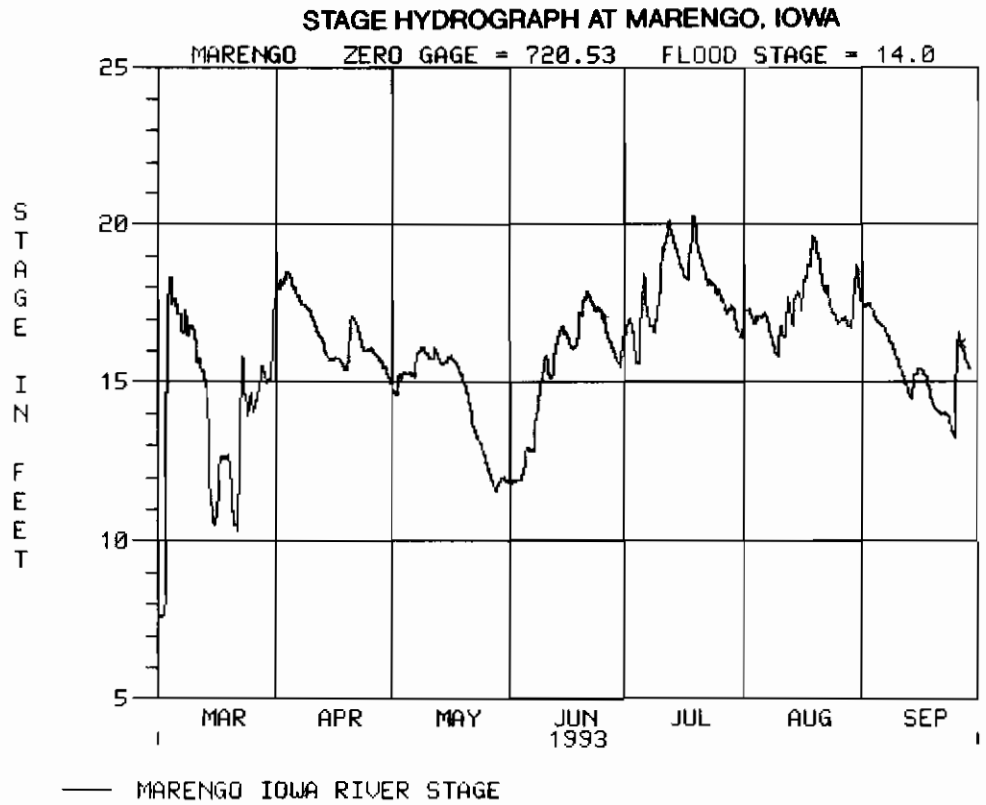


PLATE 67

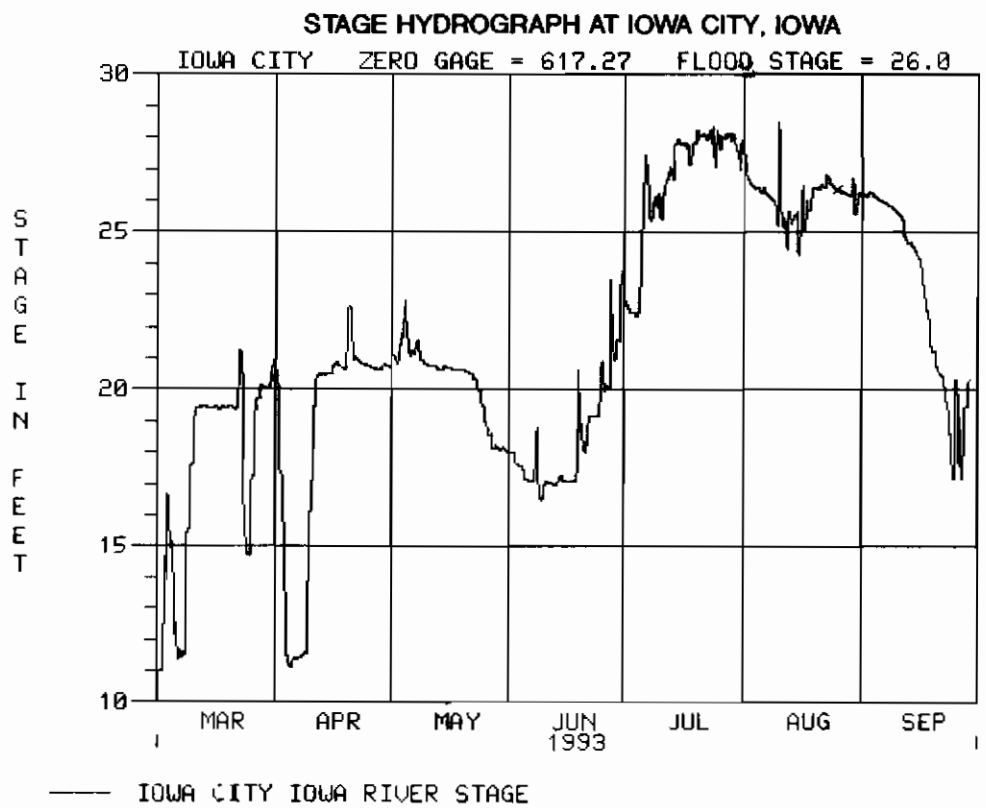


PLATE 68

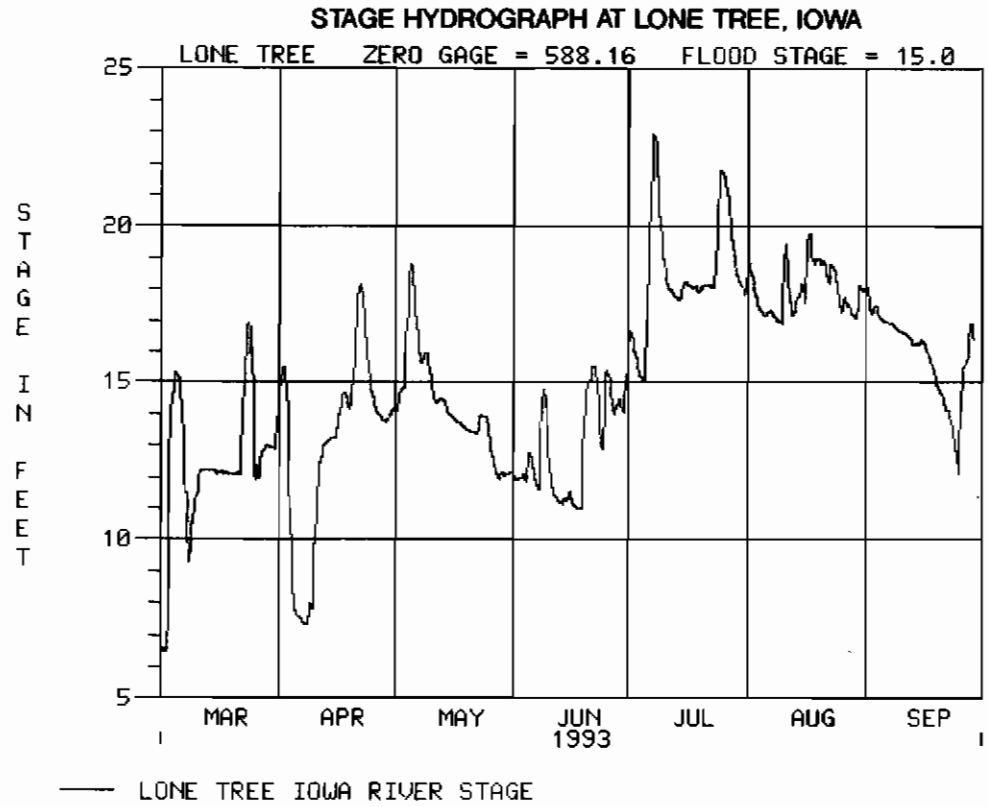


PLATE 69

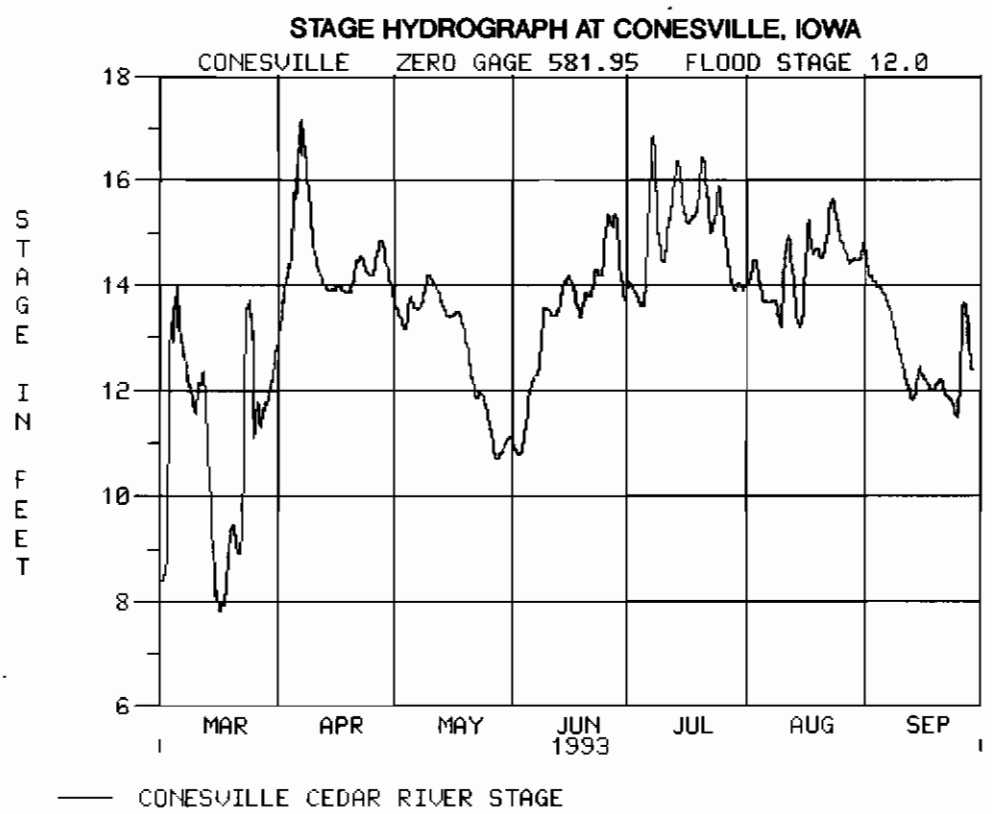


PLATE 70

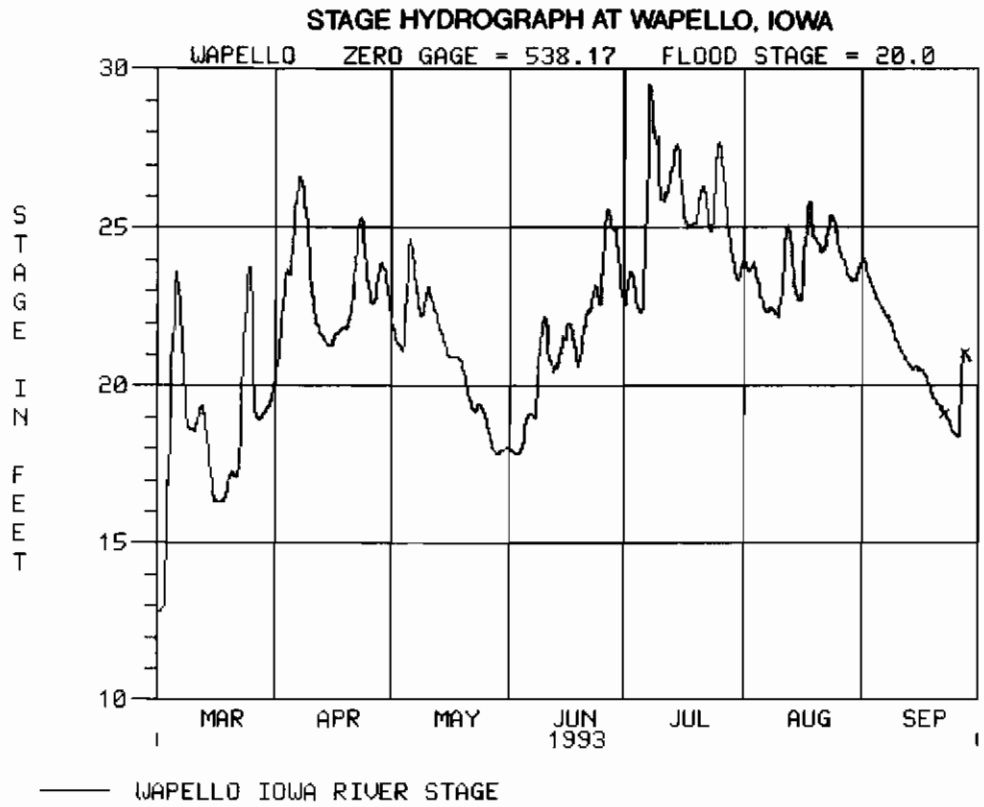
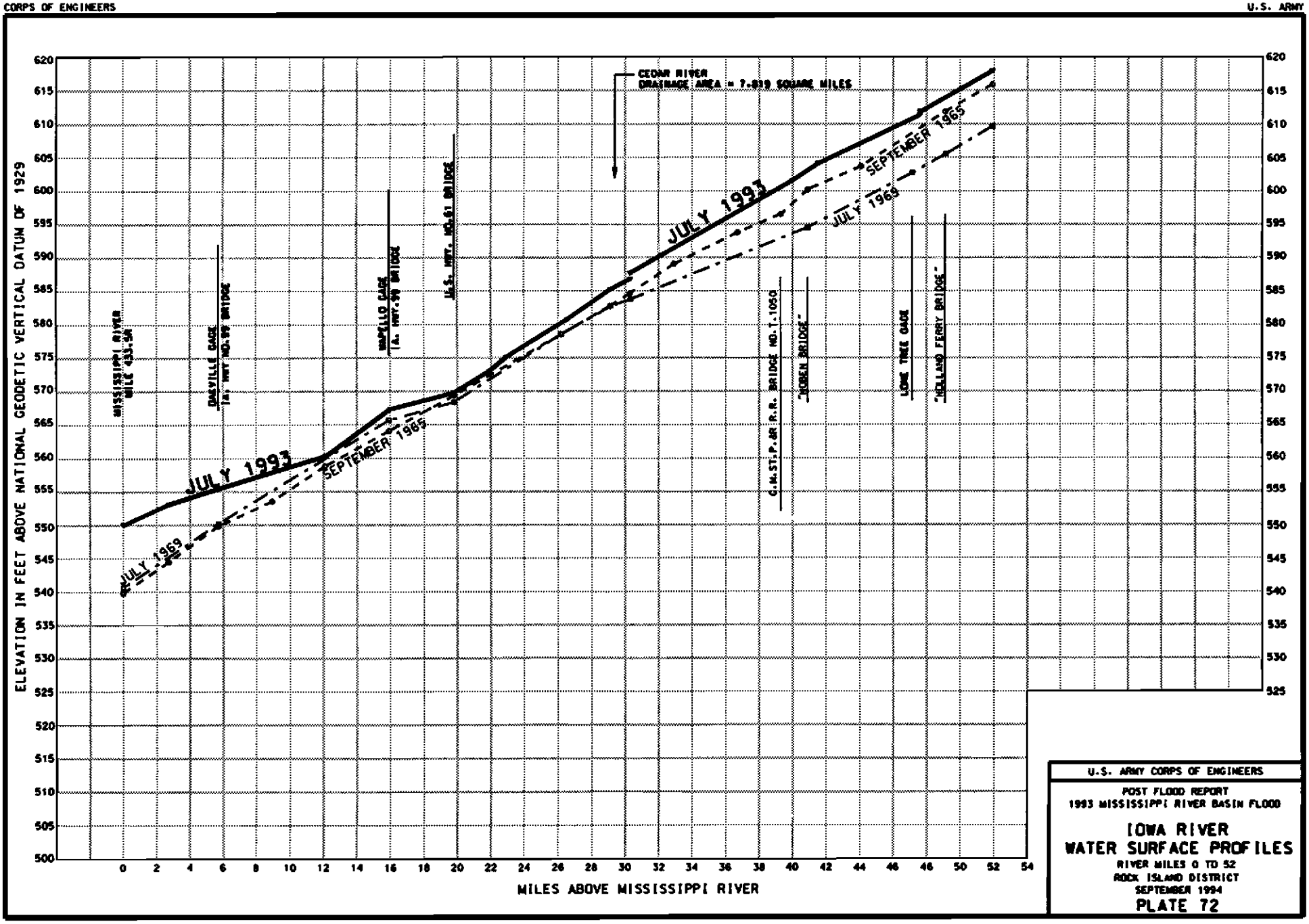

STAGE HYDROGRAPH AT WAPELLO, IOWA
WAPELLO ZERO GAGE = 538.17 FLOOD STAGE = 20.0
STAGE IN FEET
30
25
20
15
10
MAR
APR
MAY
JUN
1993
JUL
AUG
SEP
WAPELLO IOWA RIVER STAGE

PLATE 71



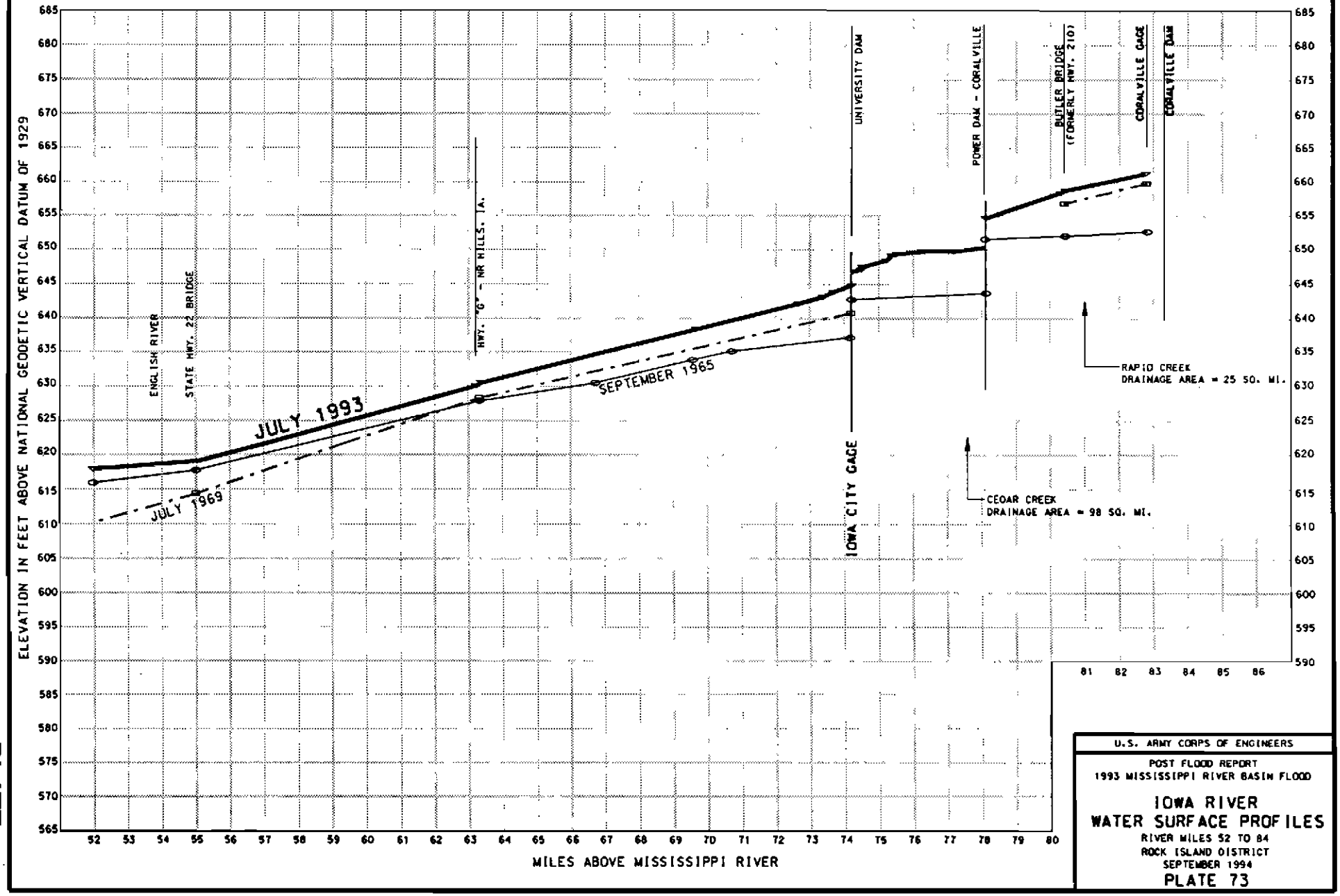
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

IOWA RIVER
WATER SURFACE PROFILES

RIVER MILES 0 TO 52
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 72



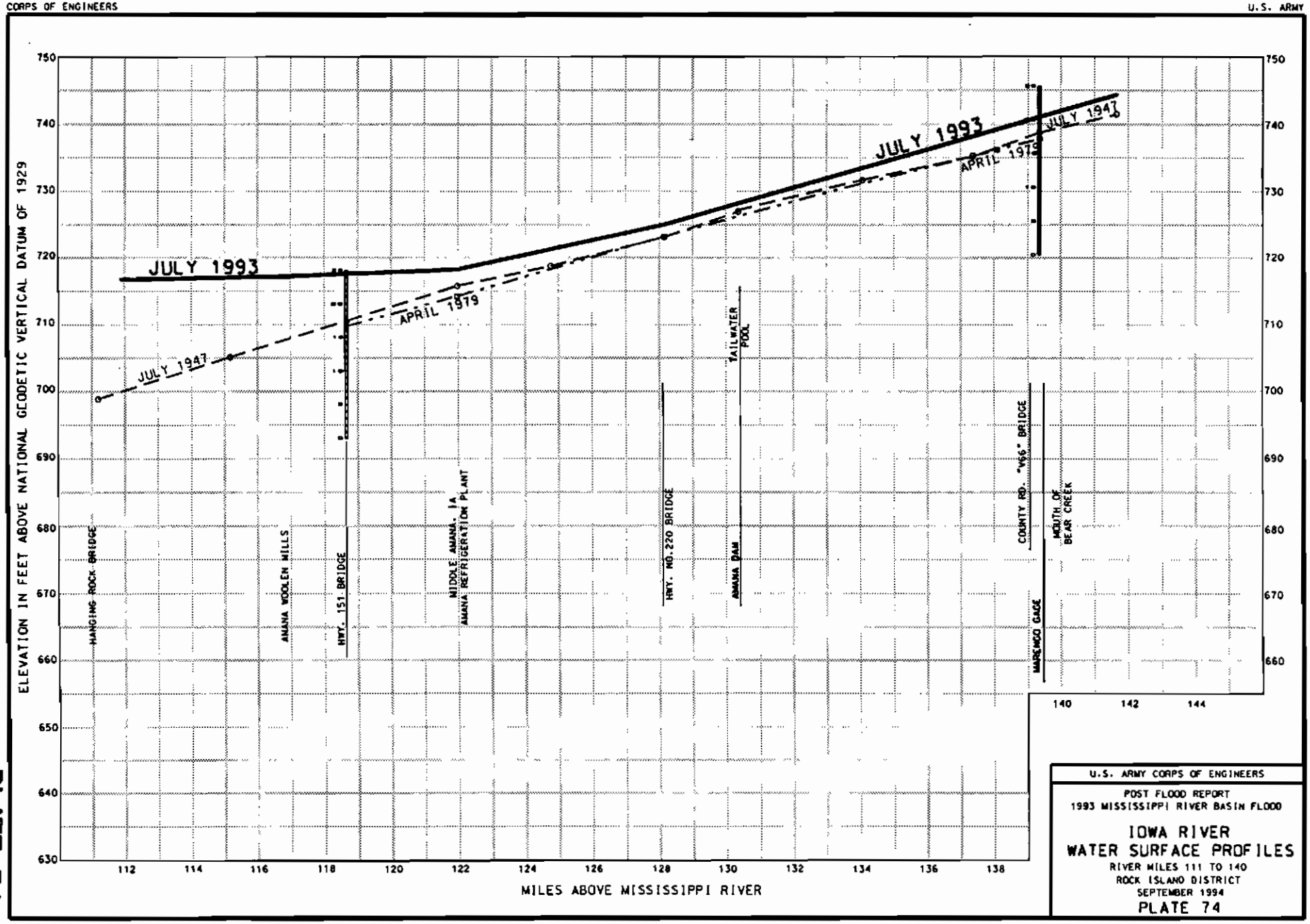
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

IOWA RIVER WATER SURFACE PROFILES

RIVER MILES 52 TO 84
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 73



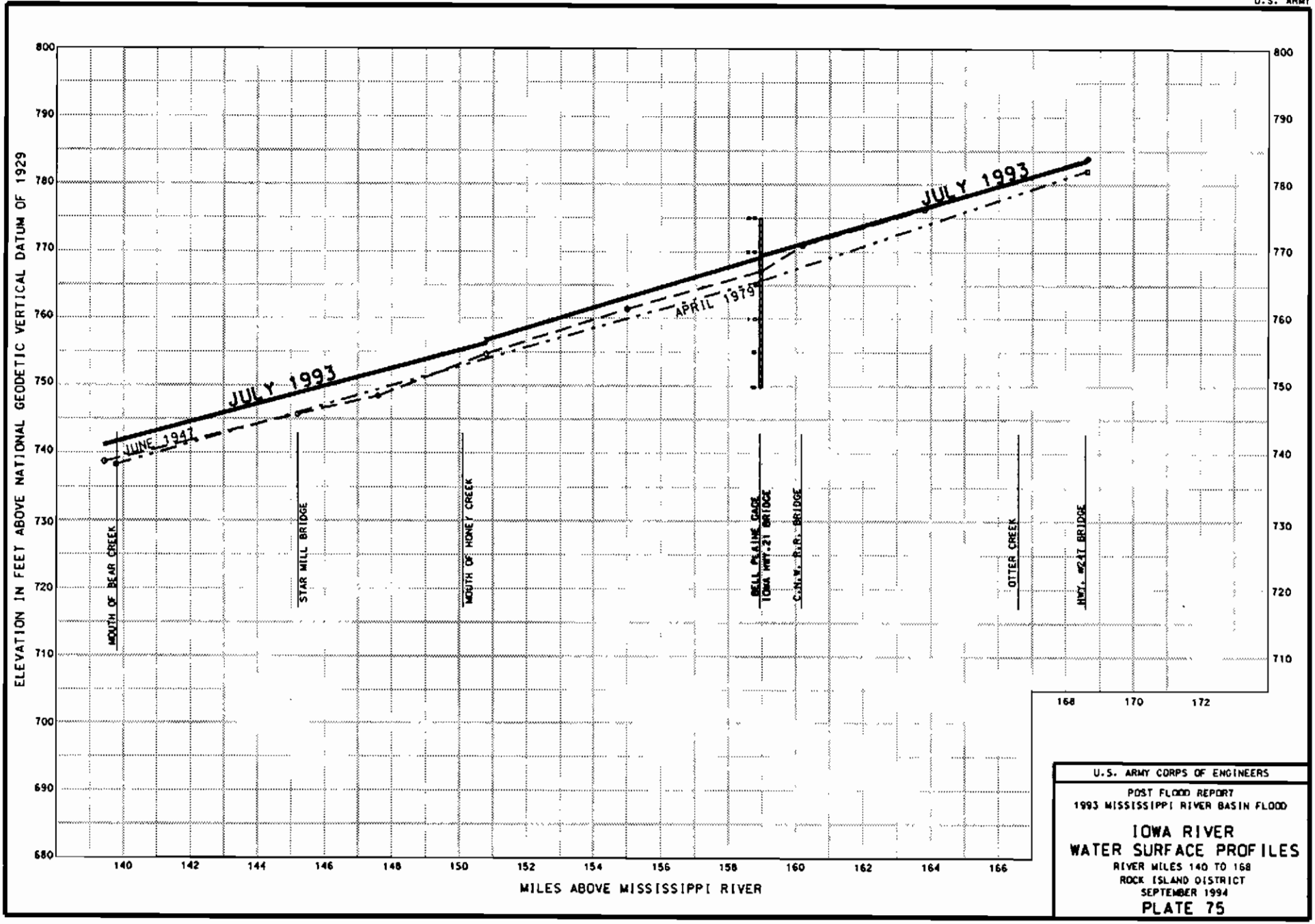
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

IOWA RIVER
WATER SURFACE PROFILES

RIVER MILES 111 TO 140
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 74



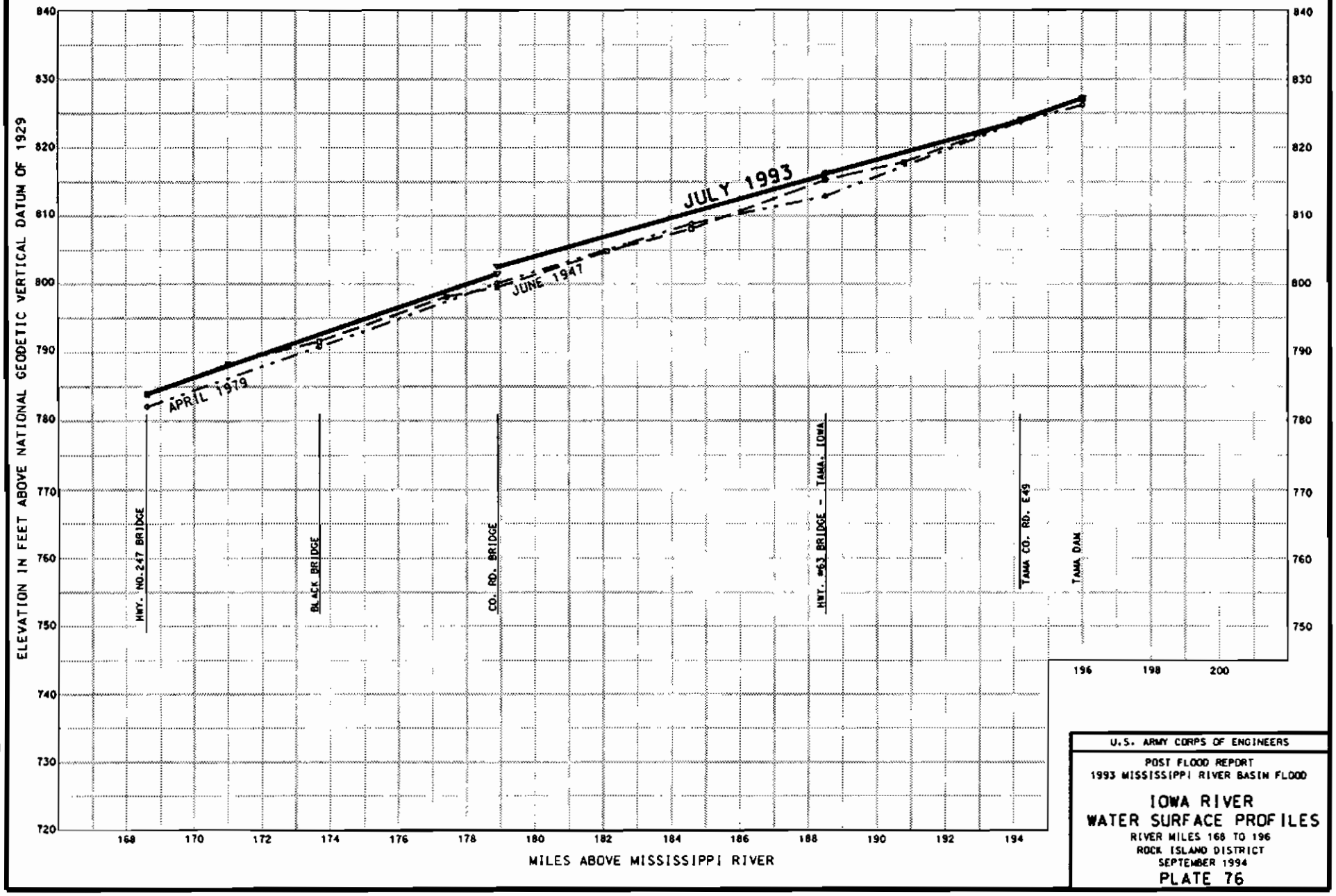
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

IOWA RIVER
WATER SURFACE PROFILES

RIVER MILES 140 TO 168
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 75



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

IOWA RIVER
WATER SURFACE PROFILES

RIVER MILES 168 TO 196
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 76

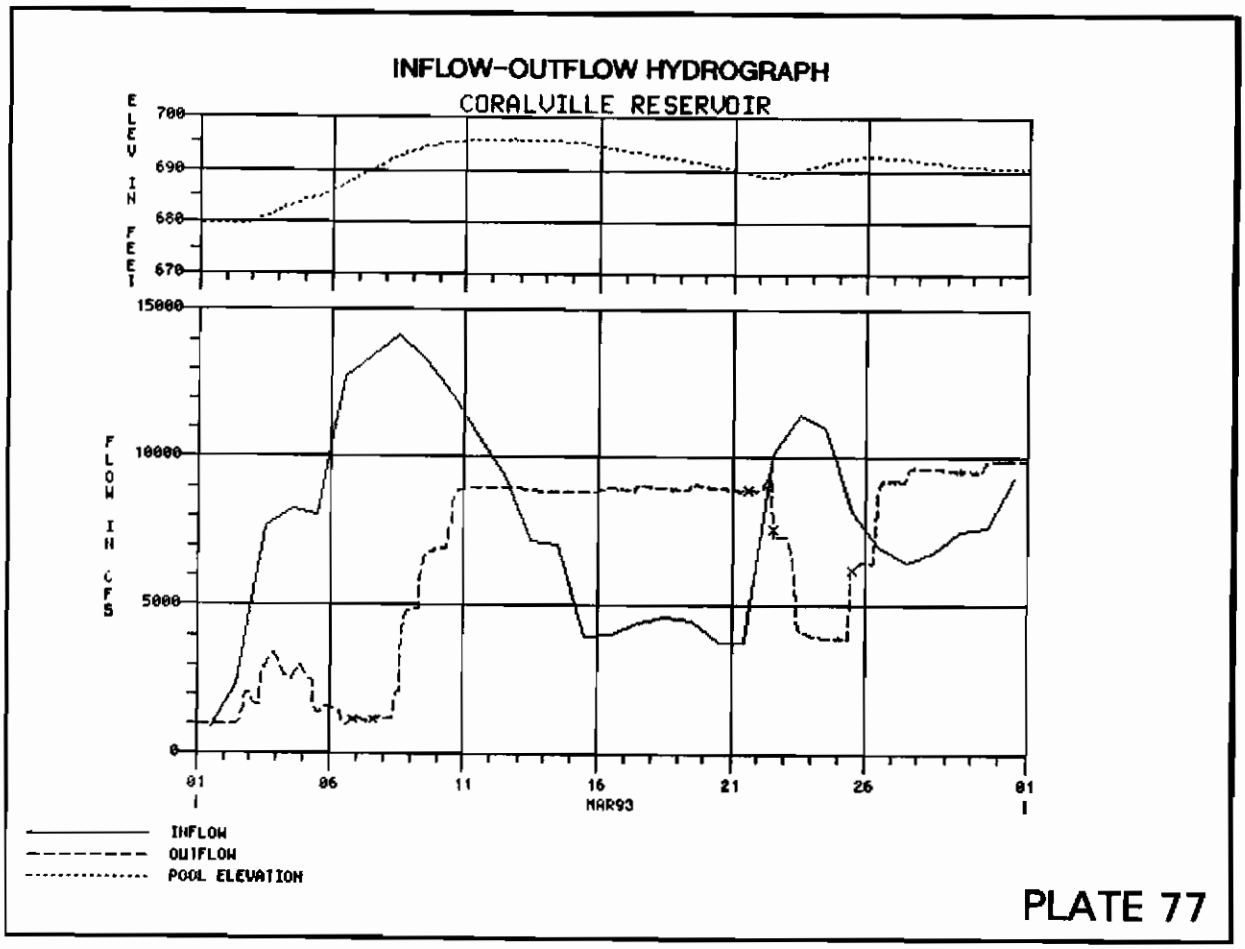


PLATE 77

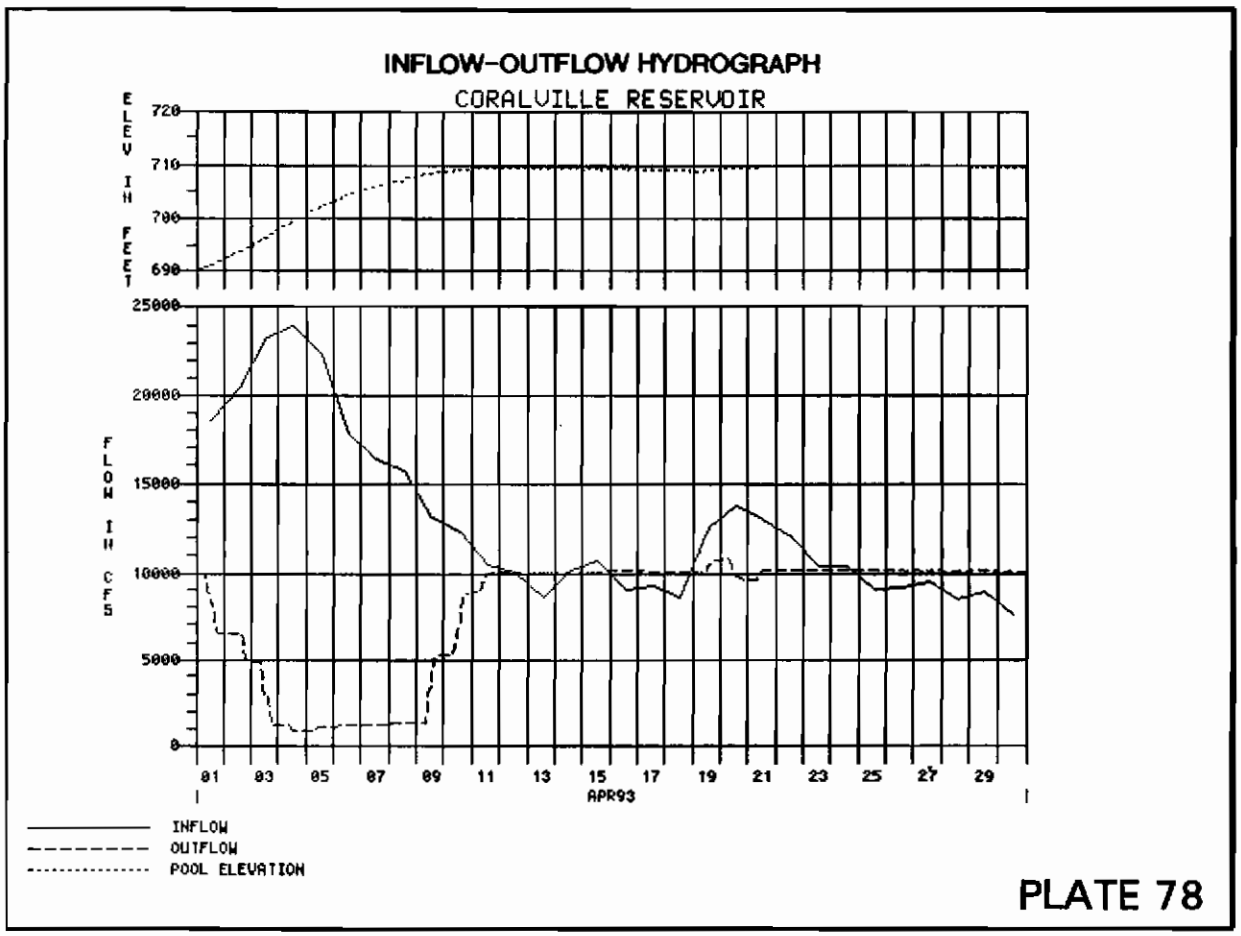


PLATE 78

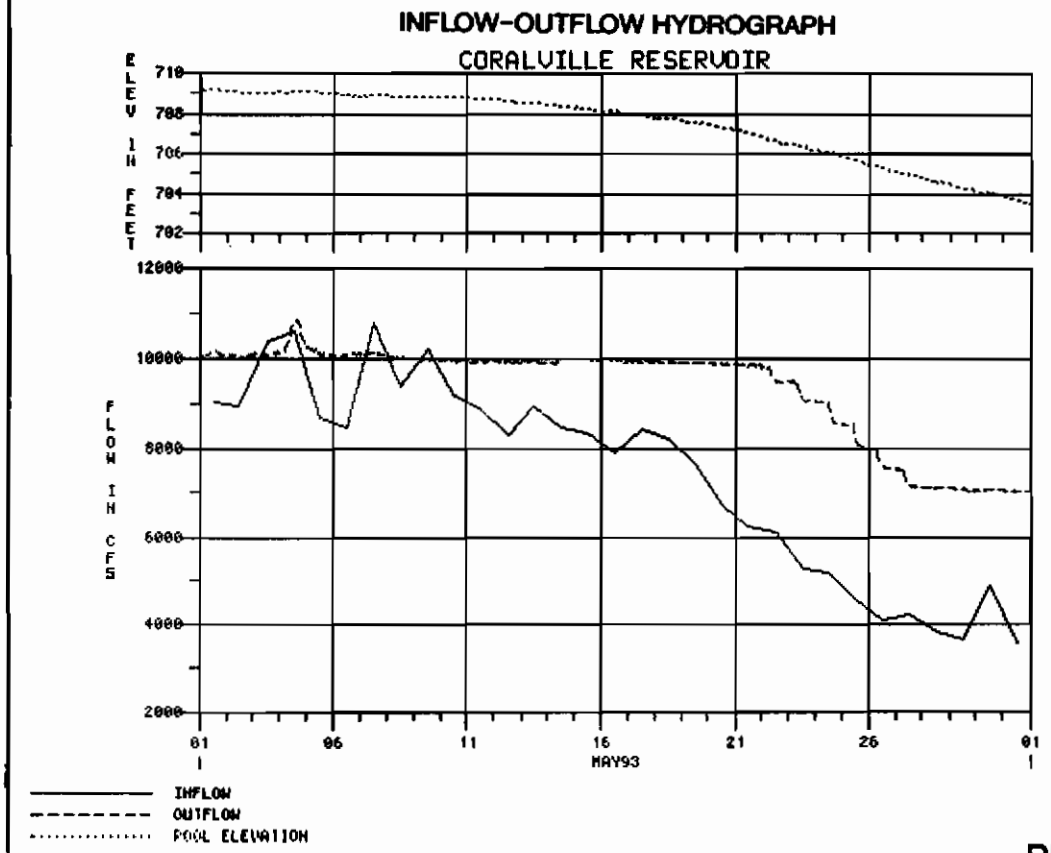


PLATE 79

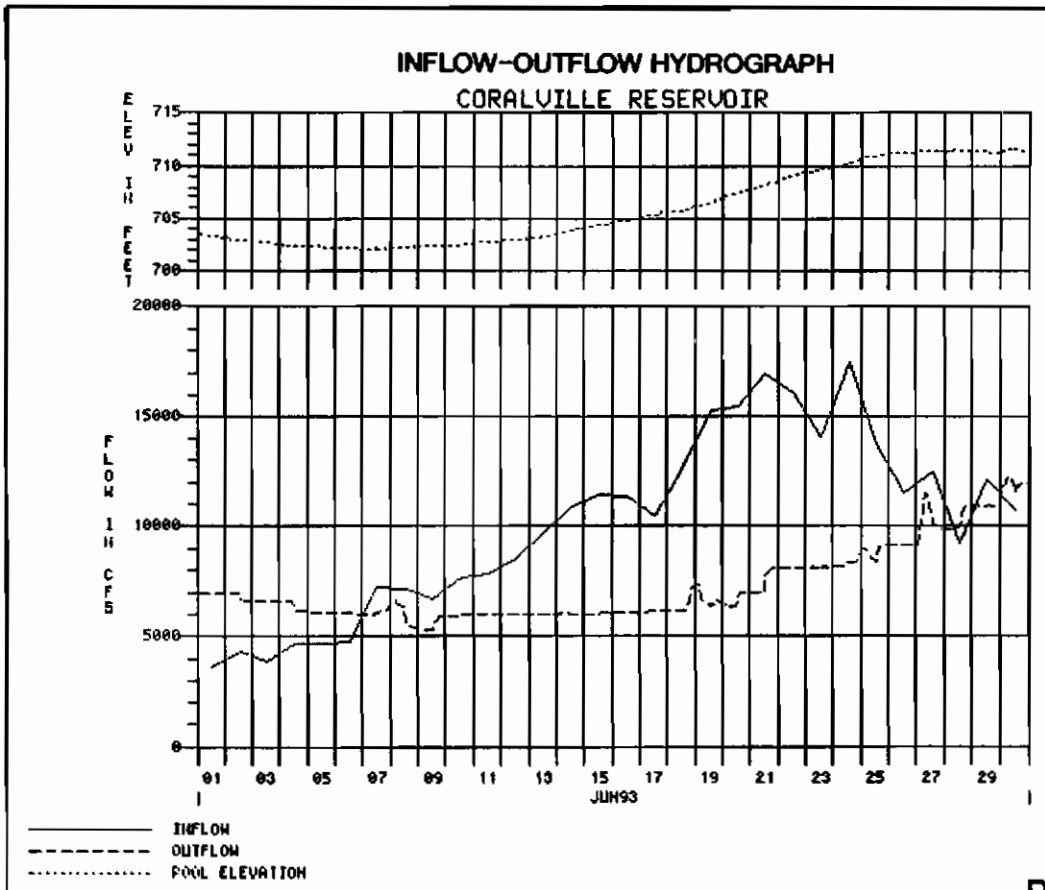


PLATE 80

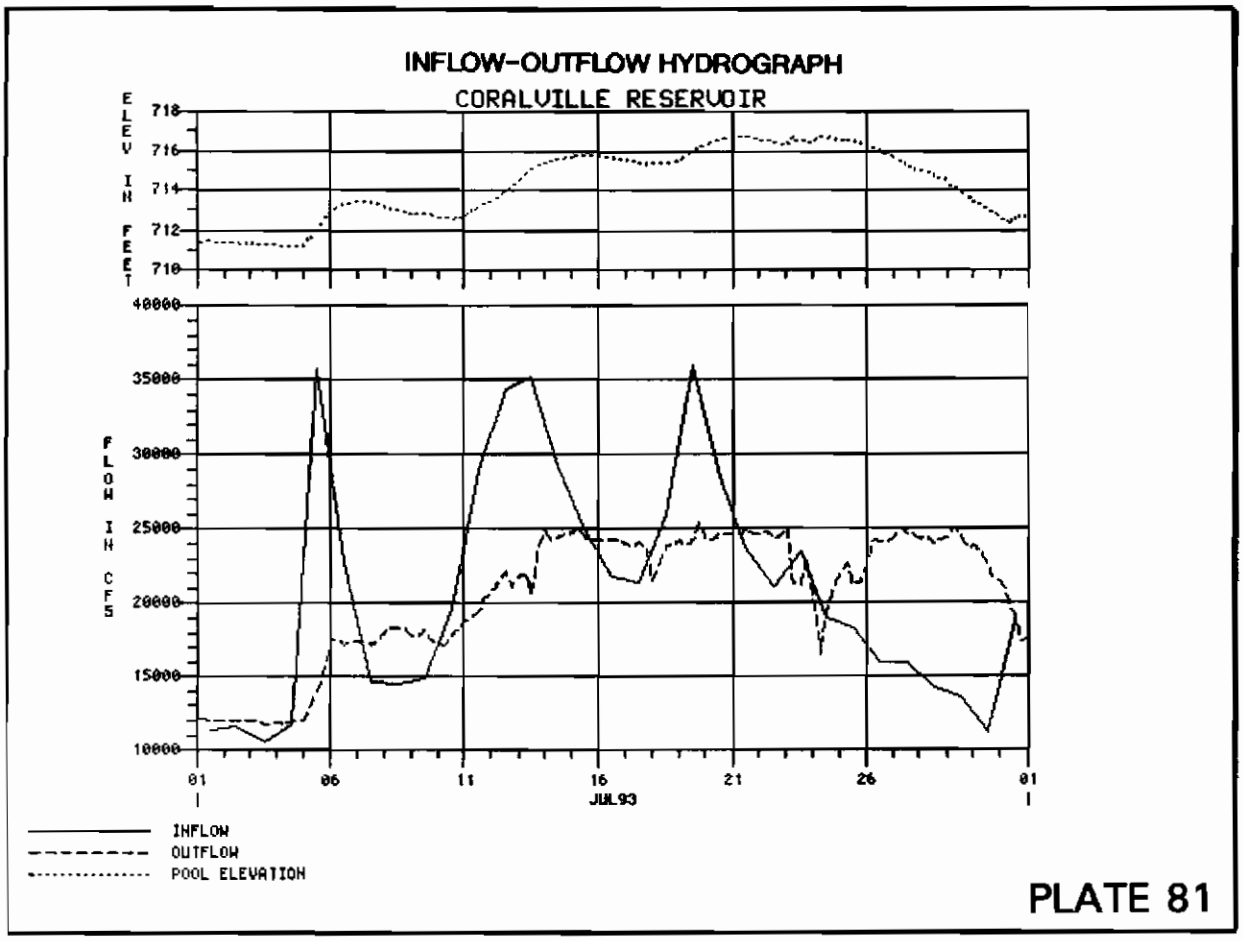


PLATE 81

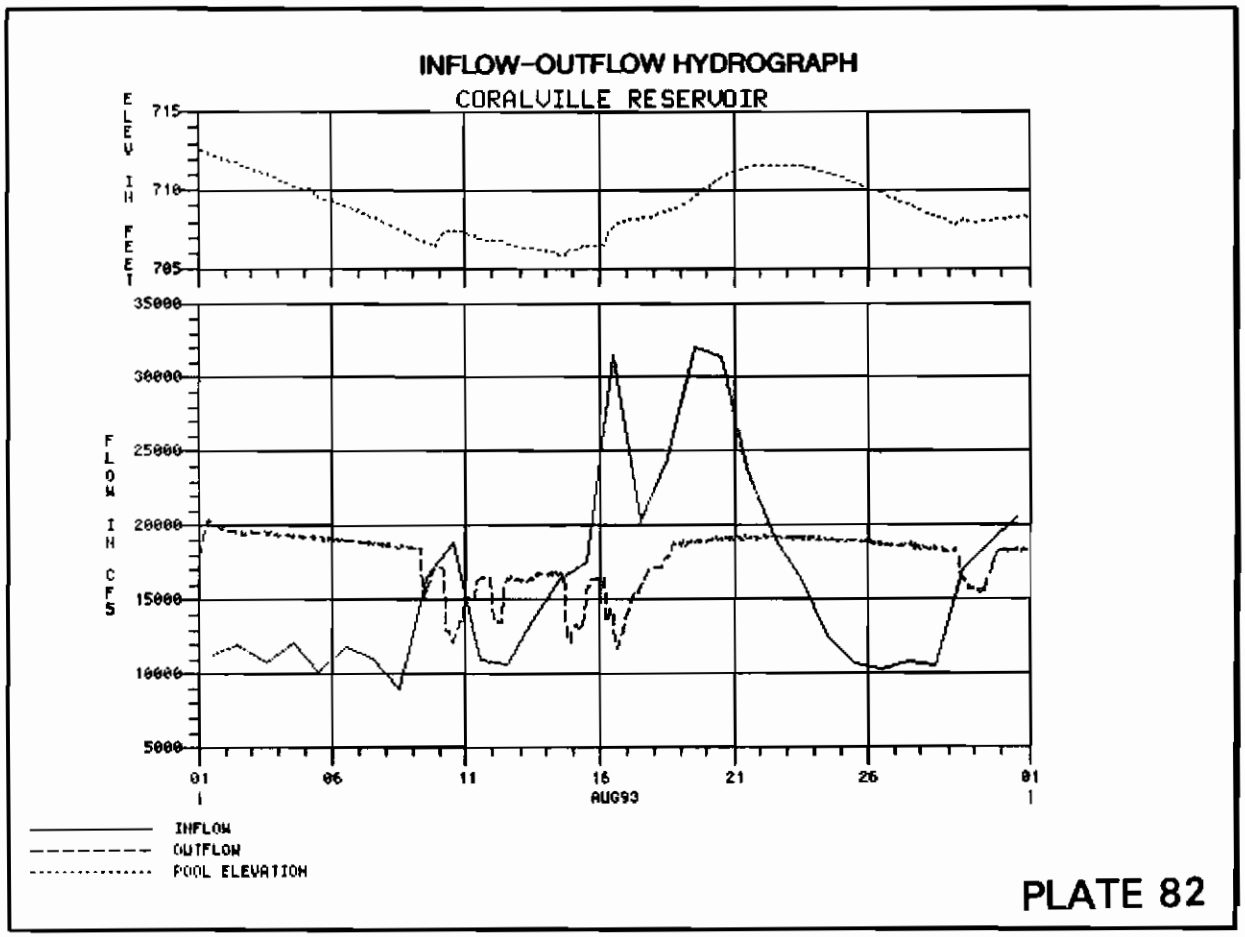
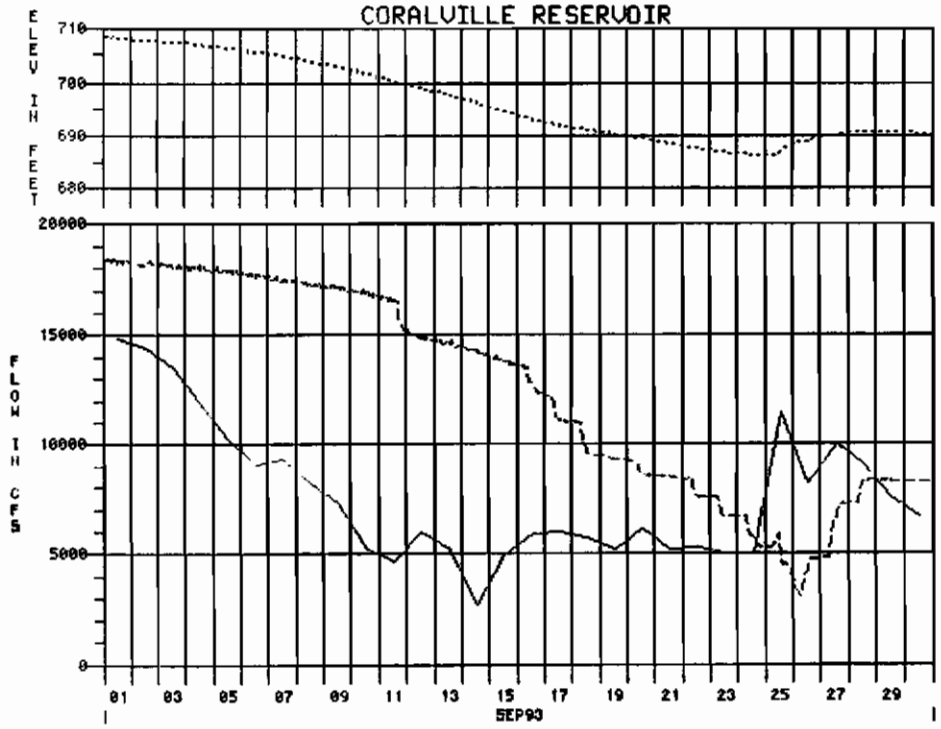


PLATE 82

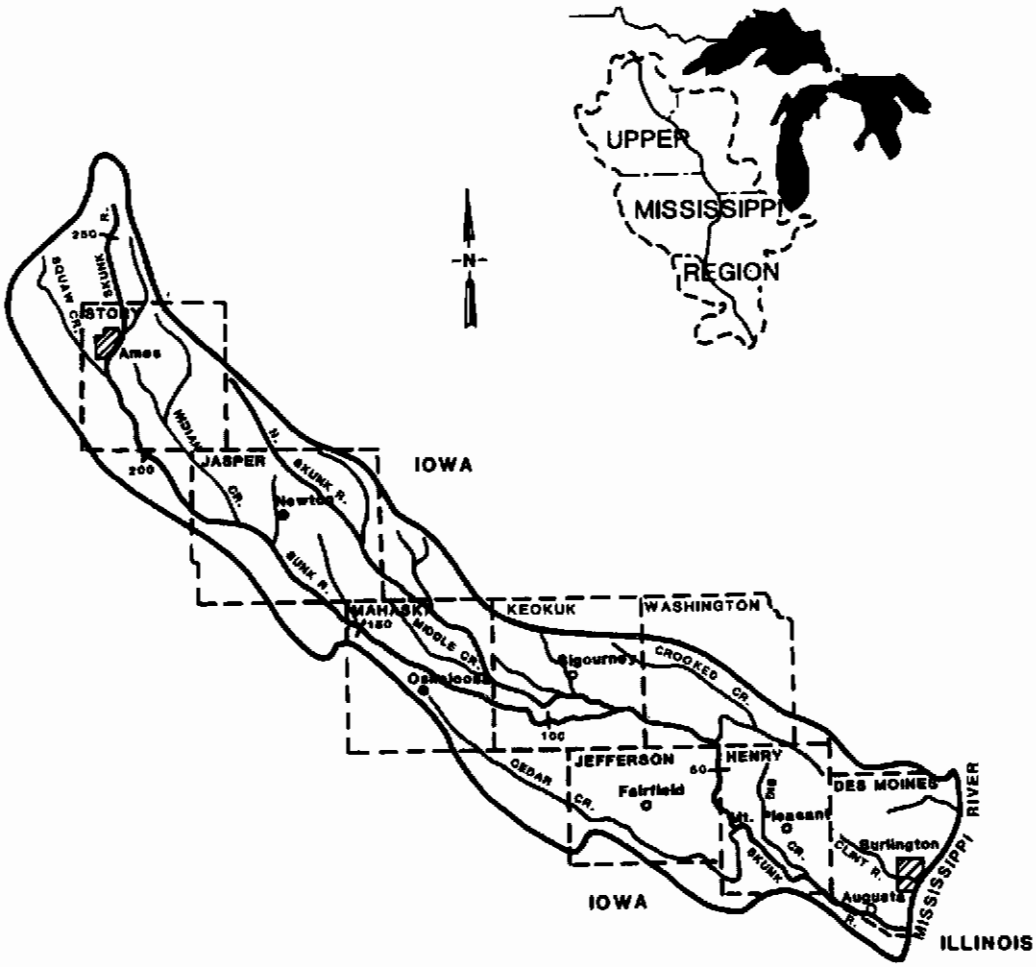
INFLOW-OUTFLOW HYDROGRAPH

CORALVILLE RESERVOIR



INFLOW
OUTFLOW
POOL ELEVATION

PLATE 83



SKUNK RIVER BASIN

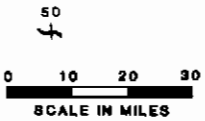
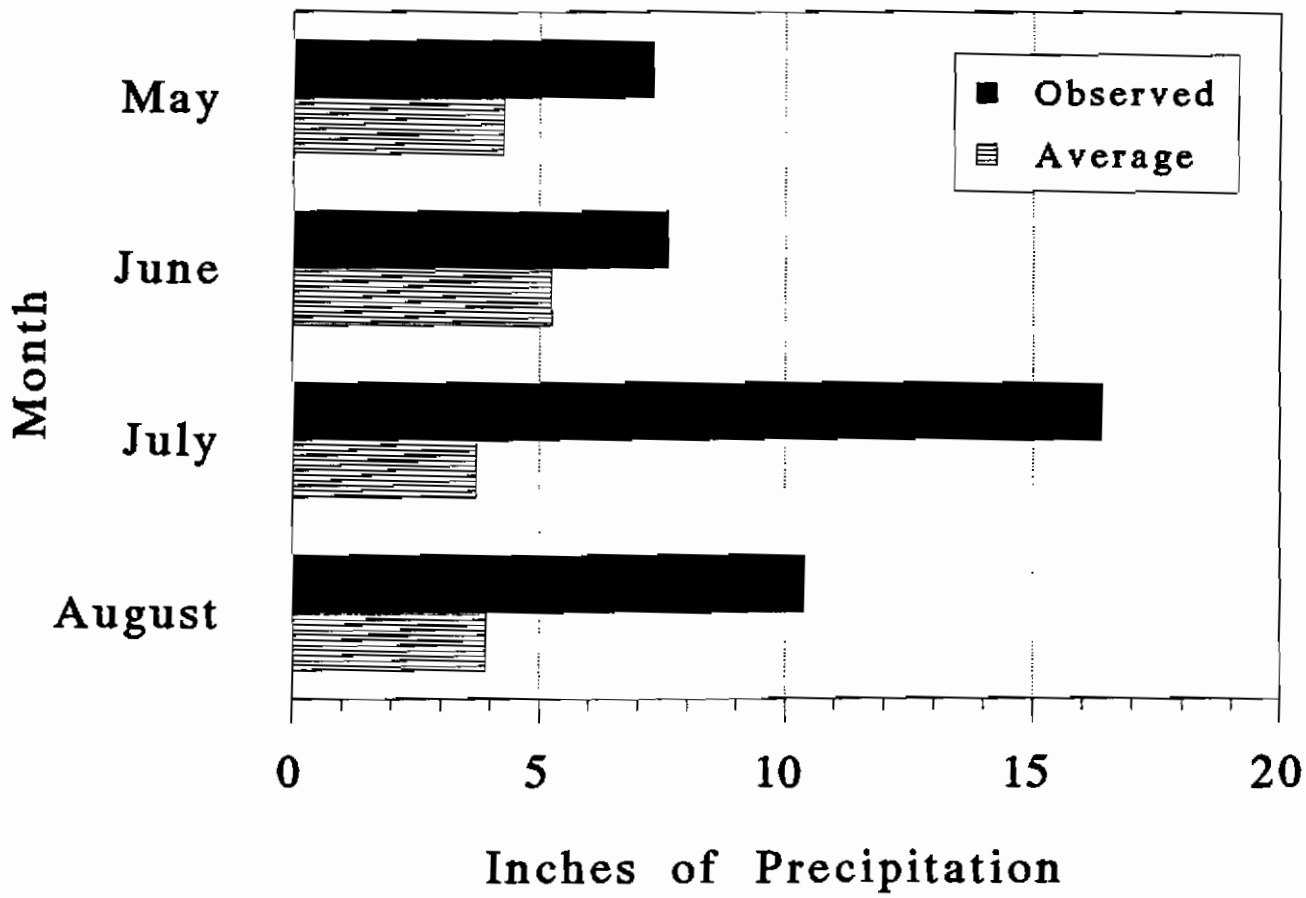


PLATE 84

1993 Monthly Precipitation
Ames, Iowa



STAGE HYDROGRAPH AT SQUAW CREEK, IOWA

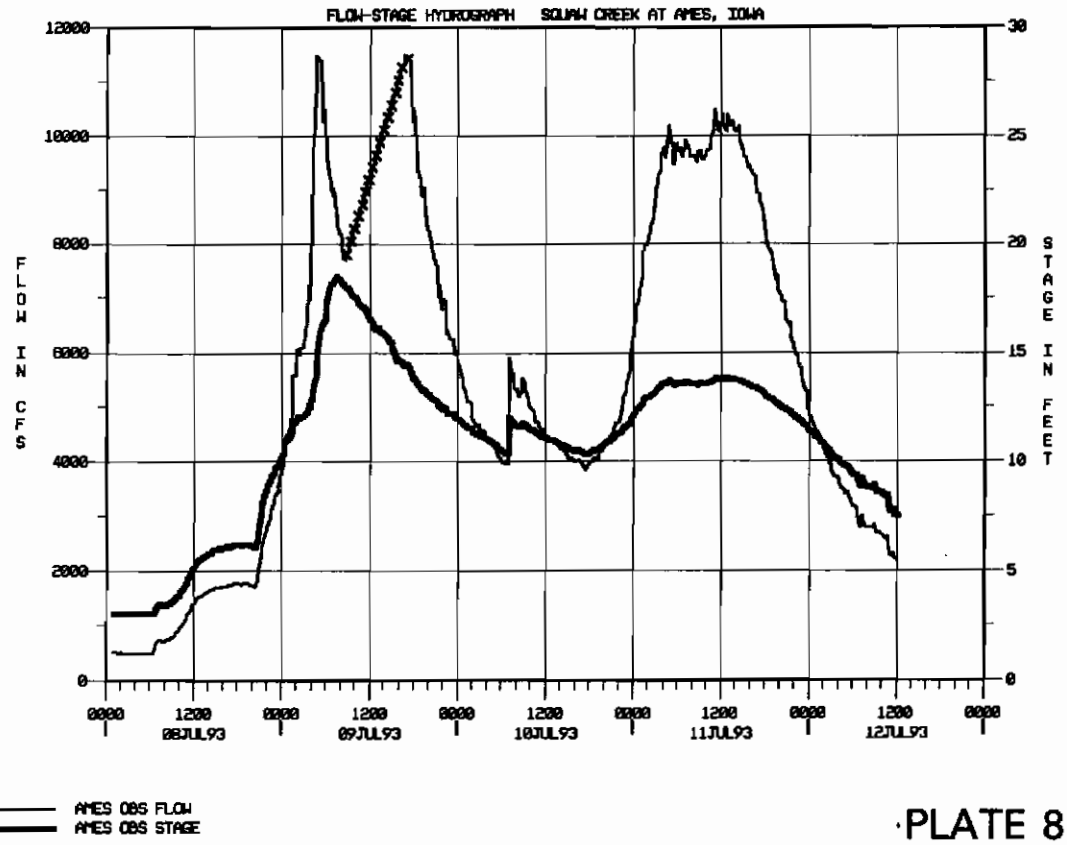


PLATE 86

STAGE HYDROGRAPH AT OSKALOOSA, IOWA

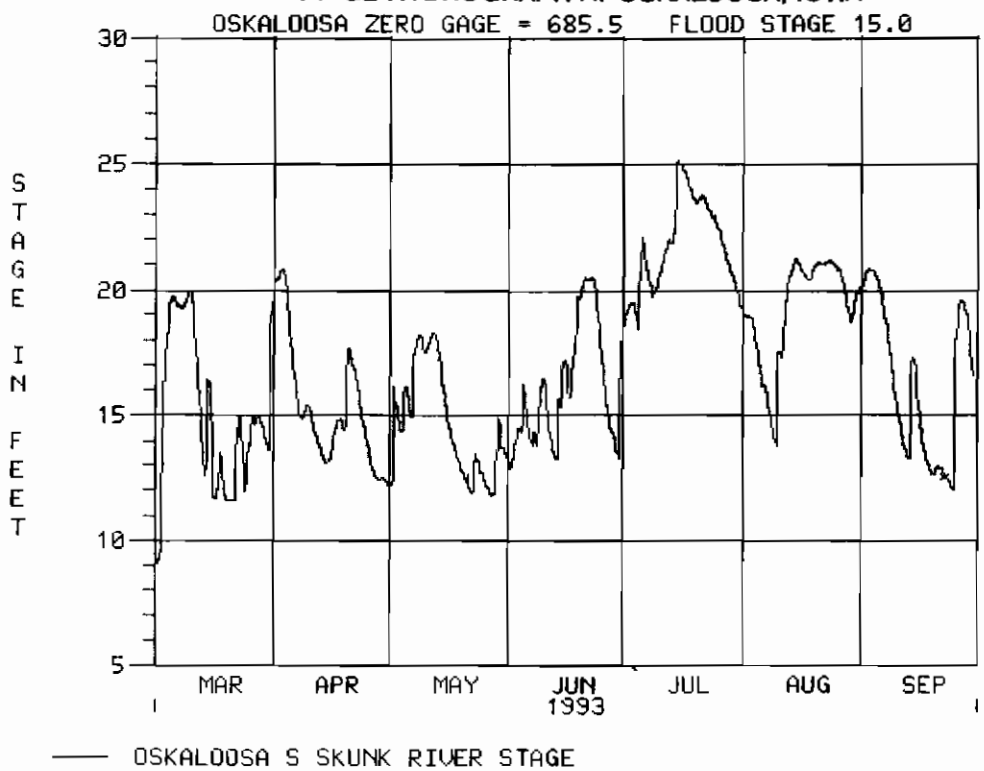


PLATE 87

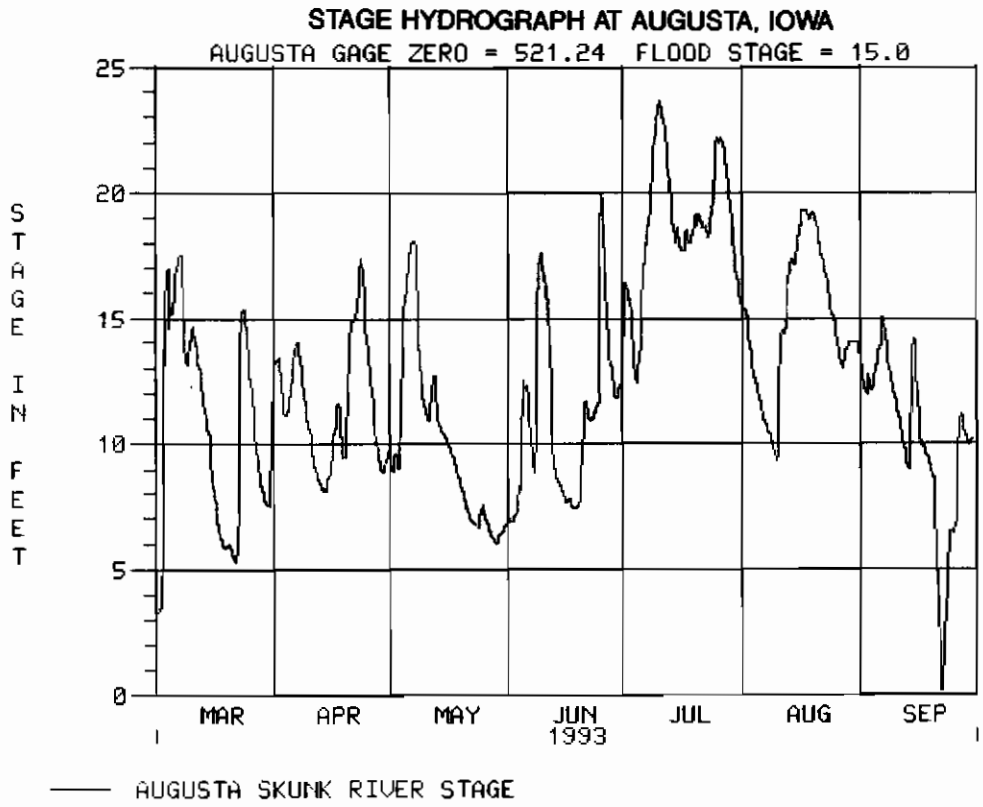
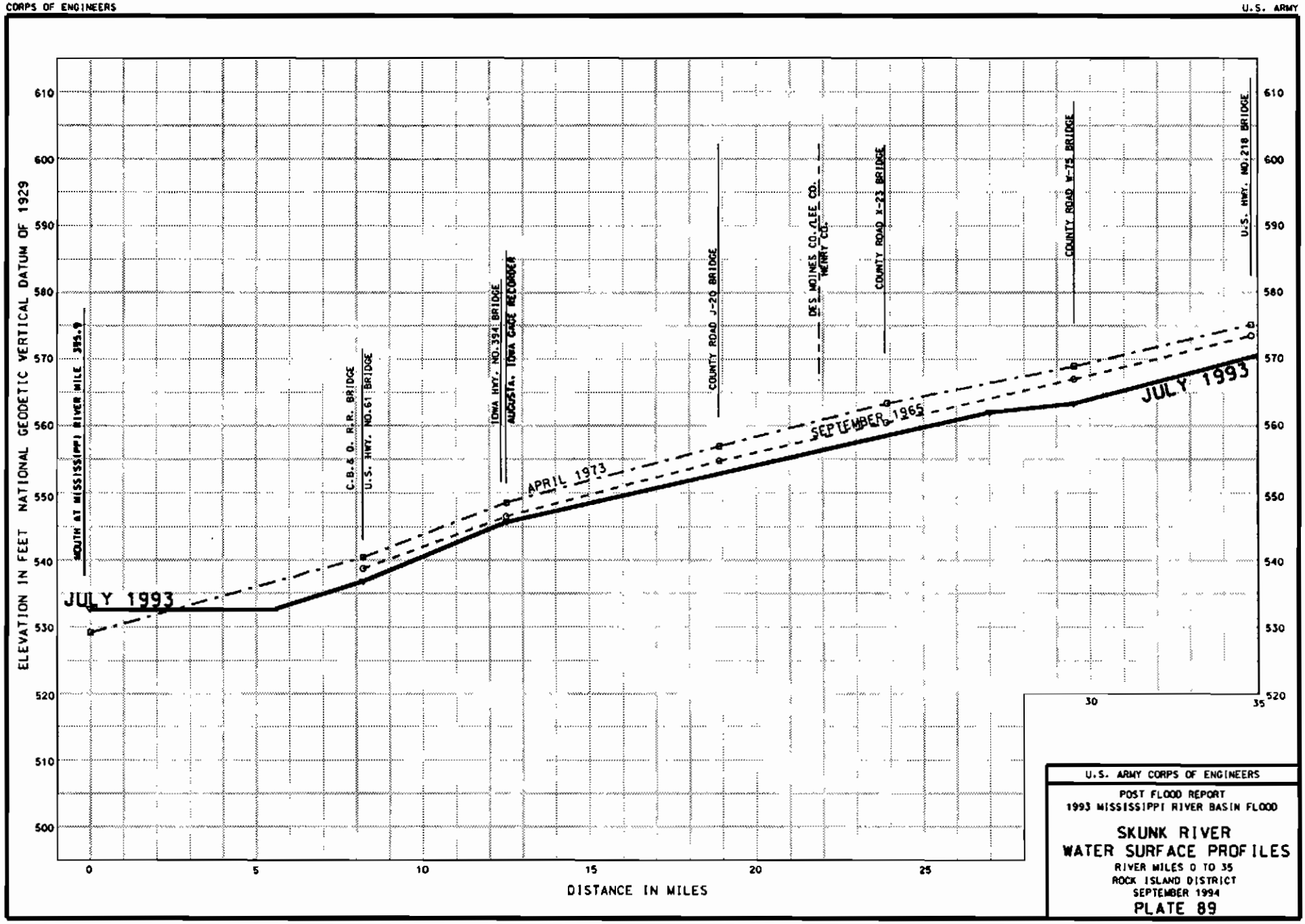

STAGE HYDROGRAPH AT AUGUSTA, IOWA
AUGUSTA GAGE ZERO = 521.24 FLOOD STAGE = 15.0
STAGE IN FEET
25
20
15
10
5
0
MAR
APR
MAY
JUN
1993
JUL
AUG
SEP
AUGUSTA SKUNK RIVER STAGE

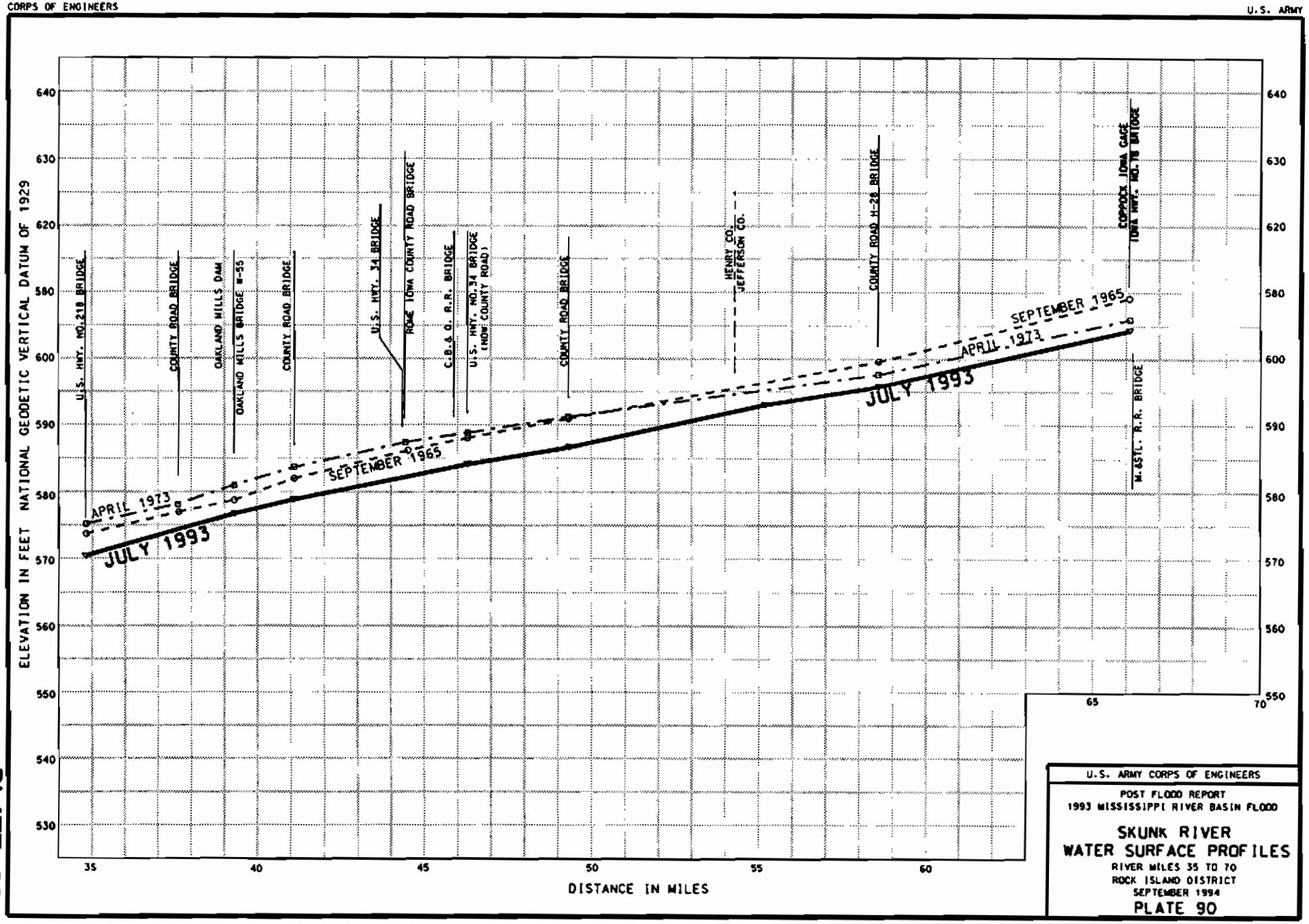
PLATE 88



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES
RIVER MILES 0 TO 35
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 89



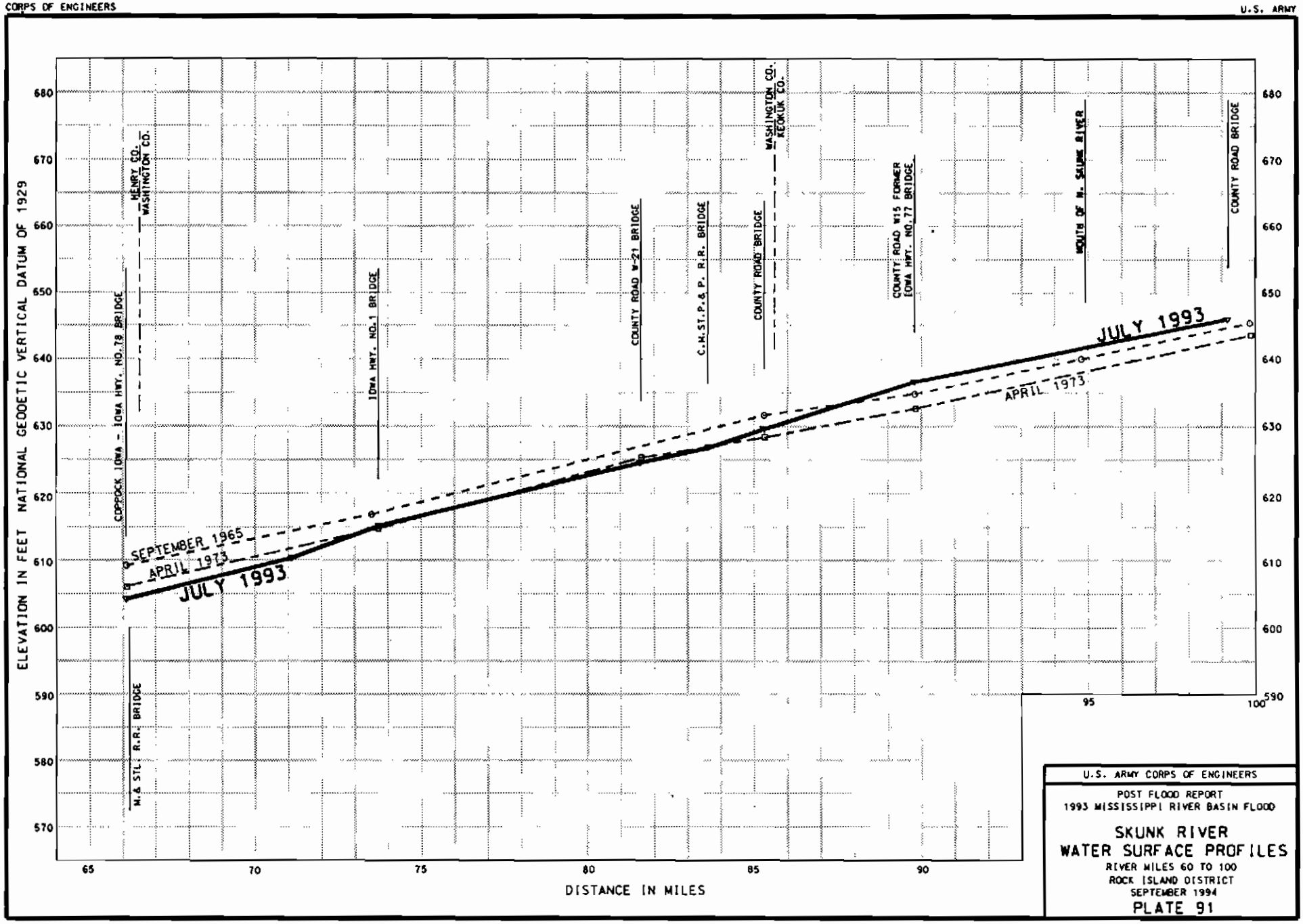
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES

RIVER MILES 35 TO 70
ROCK ISLAND DISTRICT
SEPTEMBER 1994

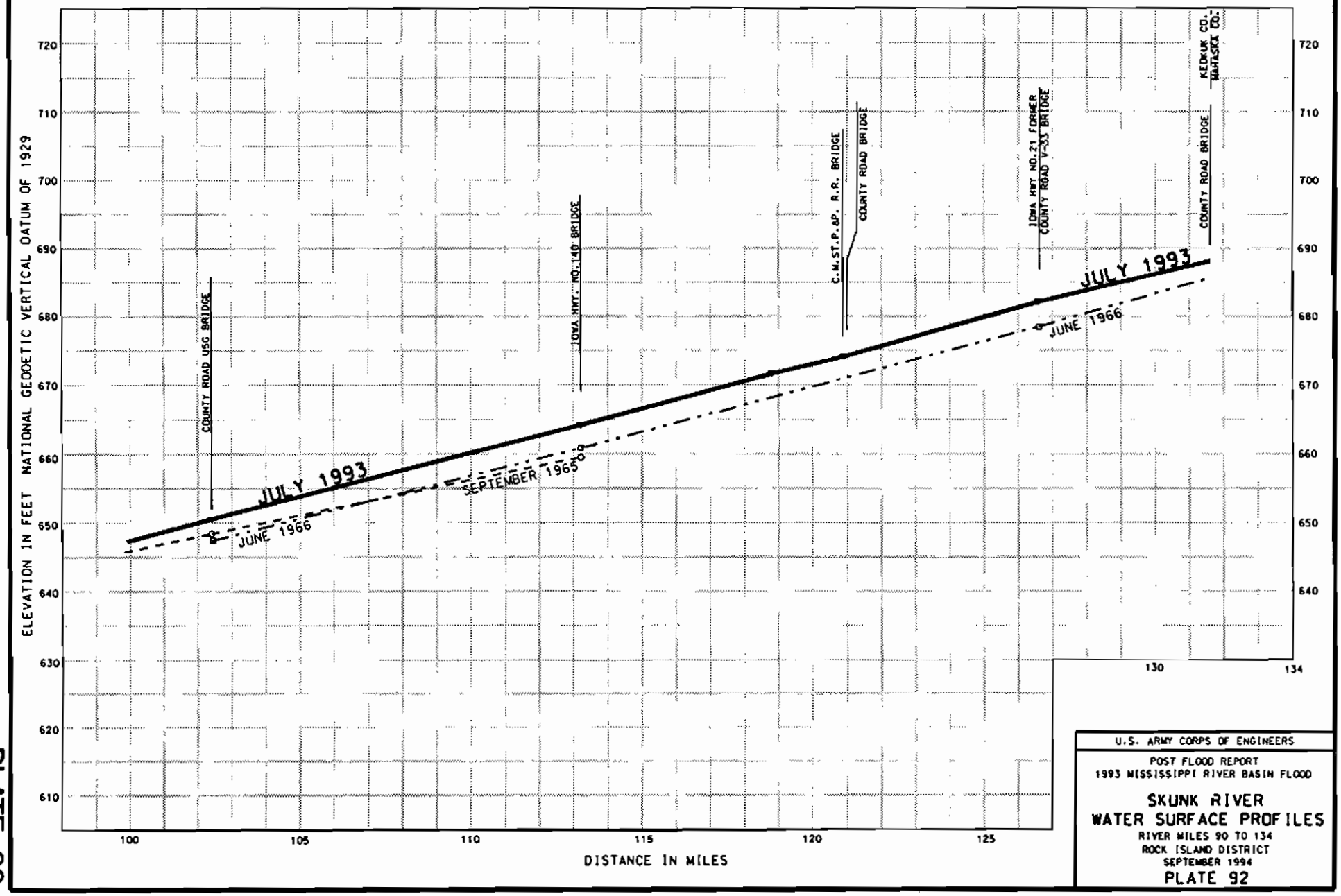
PLATE 90



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES
RIVER MILES 60 TO 100
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 91



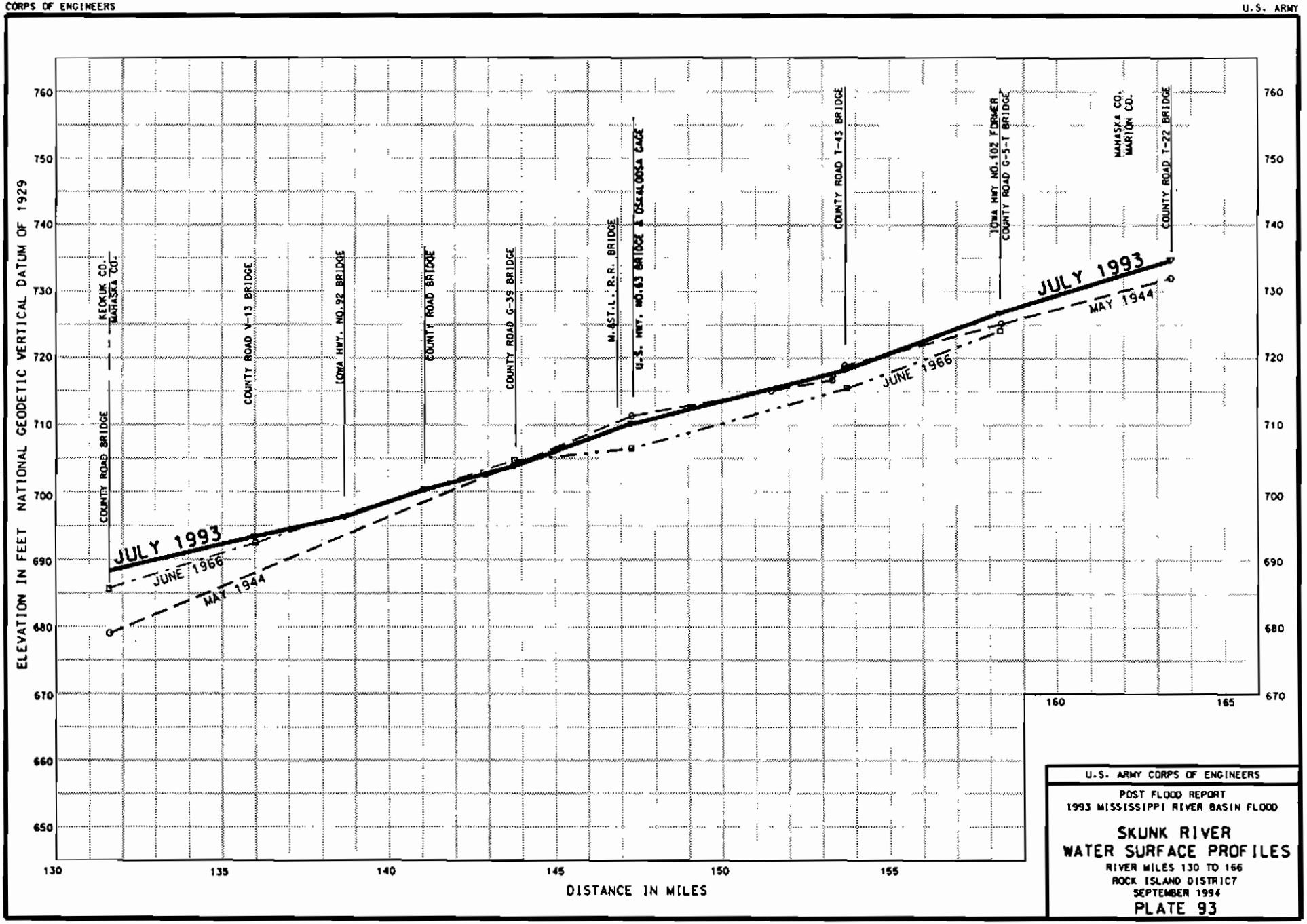
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES

RIVER MILES 90 TO 134
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 92



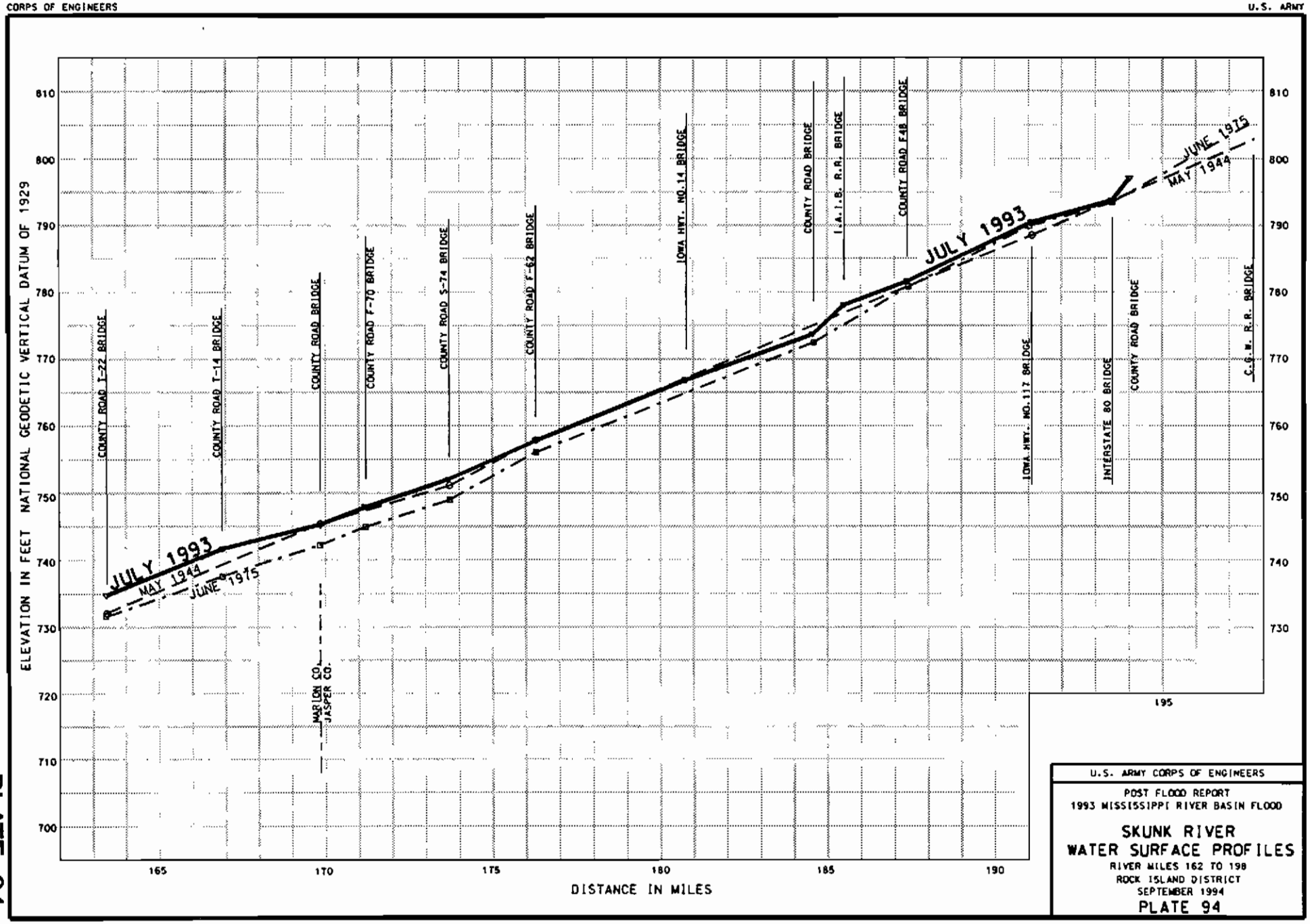
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES

RIVER MILES 130 TO 166
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 93



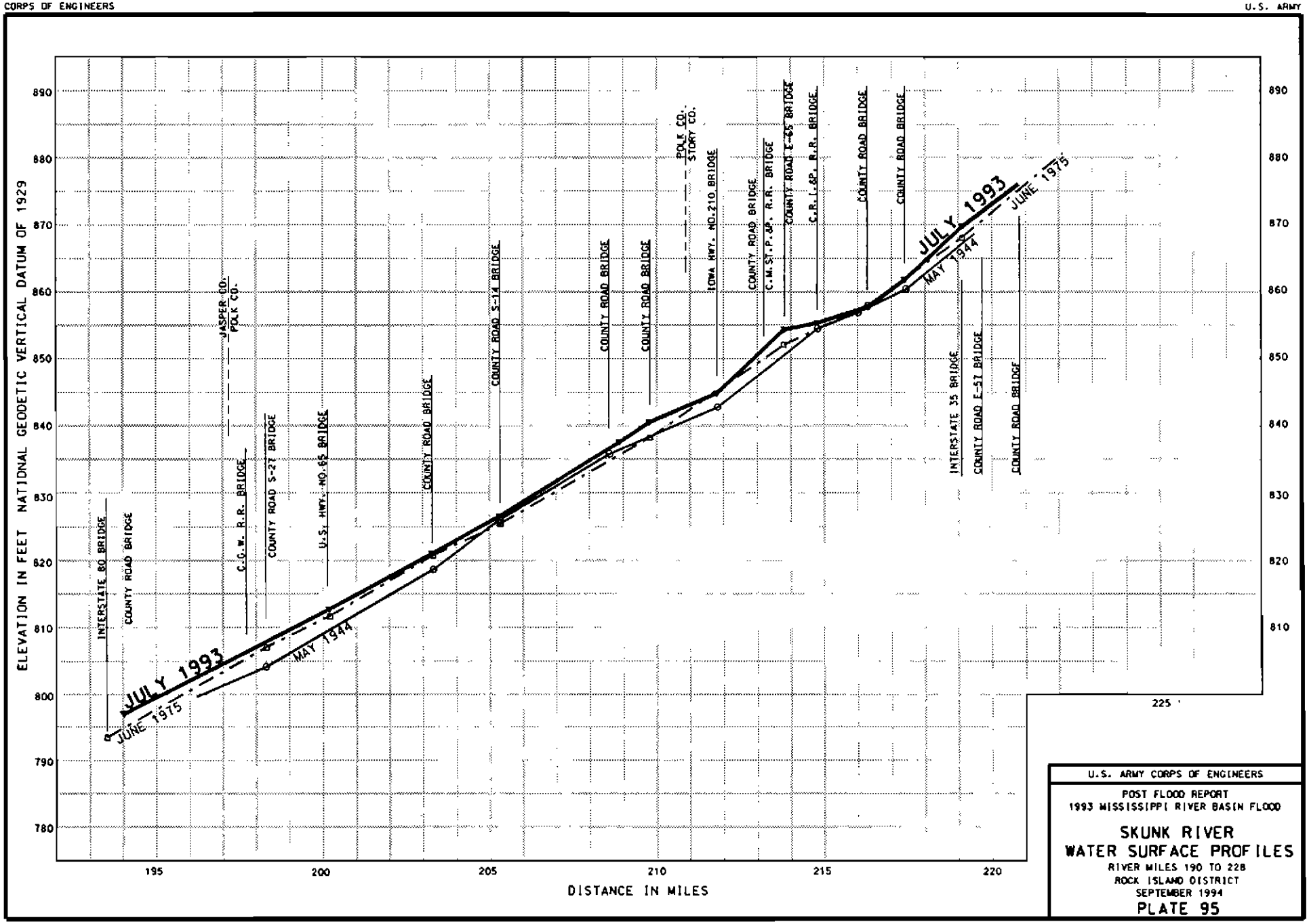
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES

RIVER MILES 162 TO 198
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 94



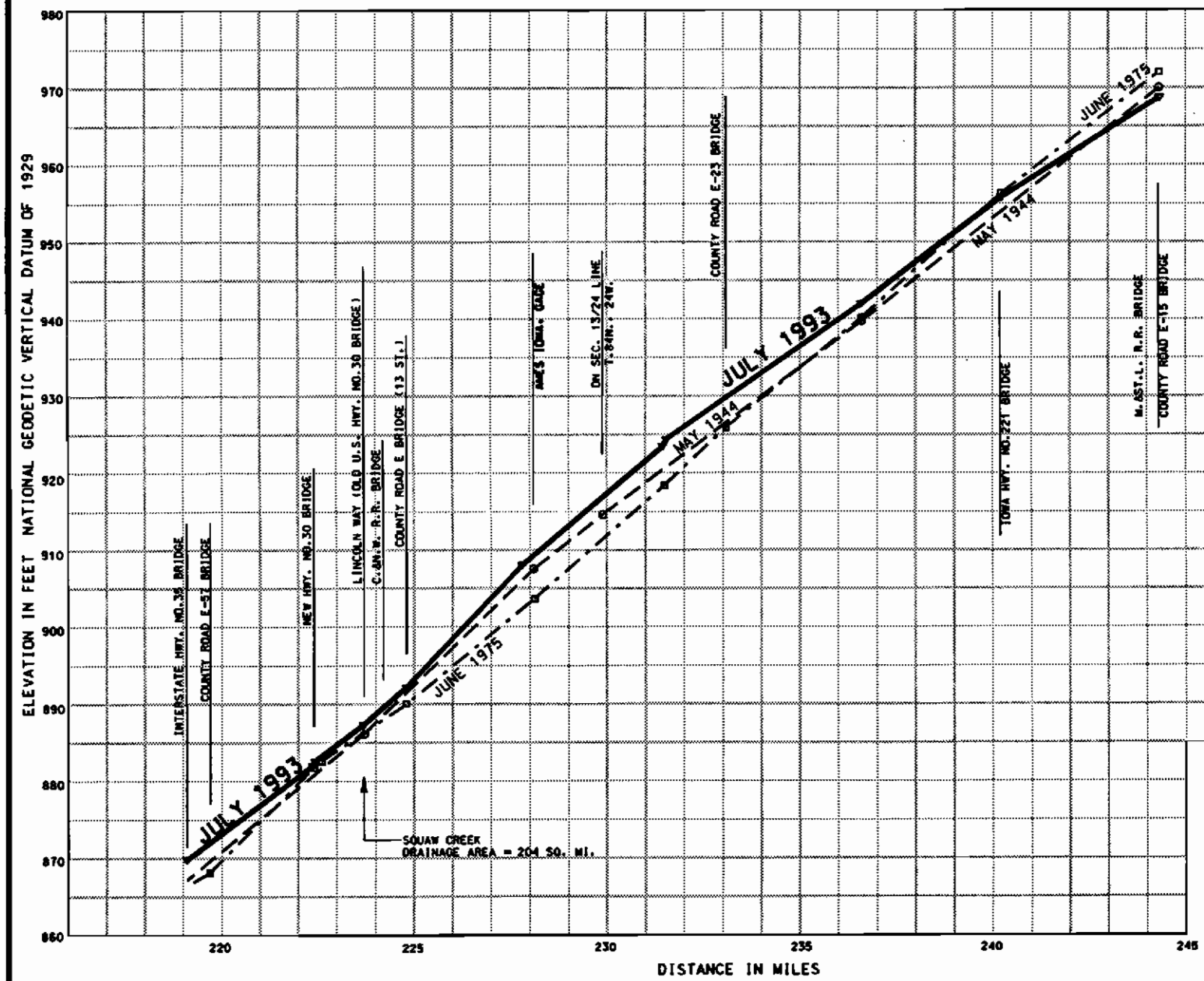
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES

RIVER MILES 190 TO 228
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 95



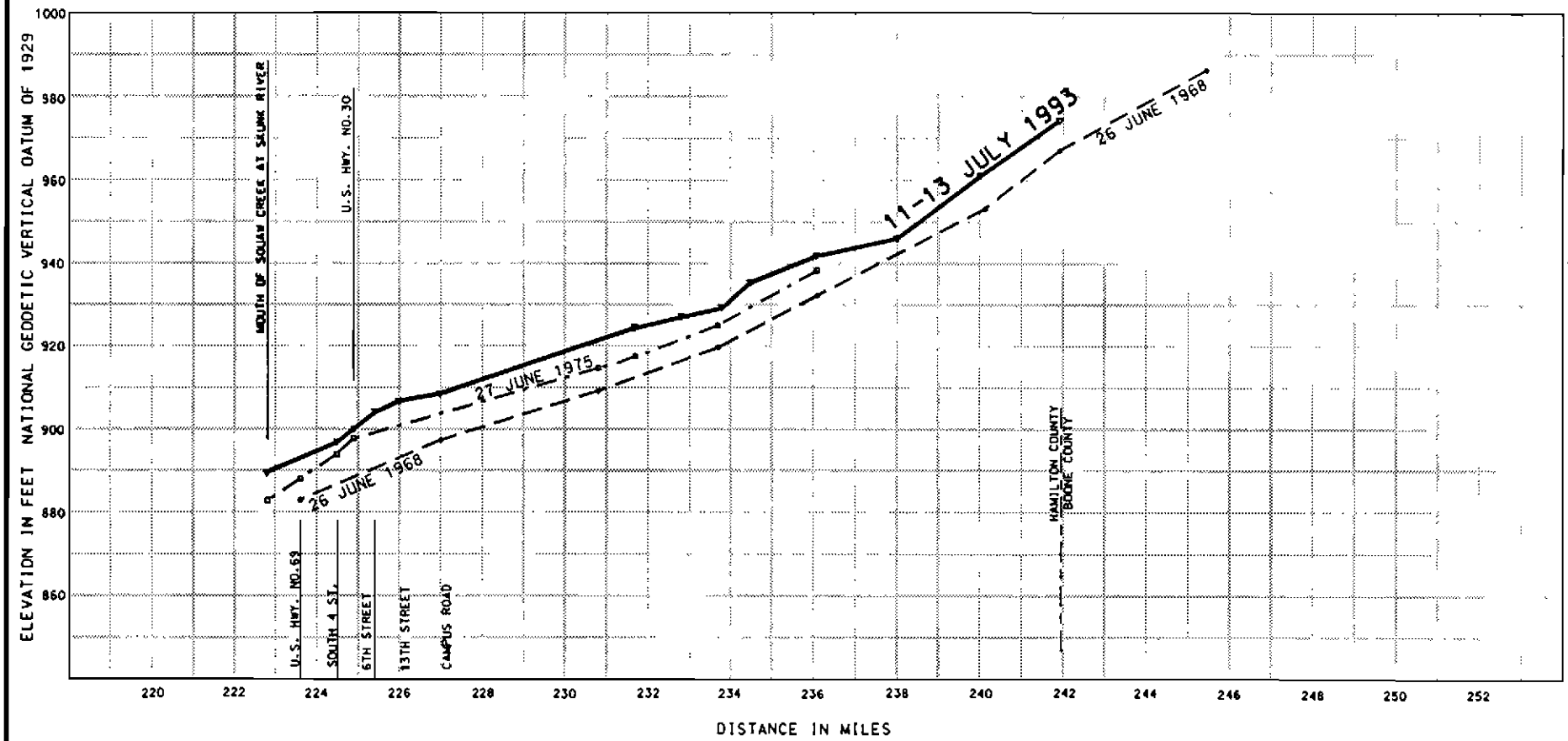
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SKUNK RIVER
WATER SURFACE PROFILES

RIVER MILES 216 TO 245
ROCK ISLAND DISTRICT
SEPTEMBER 1994

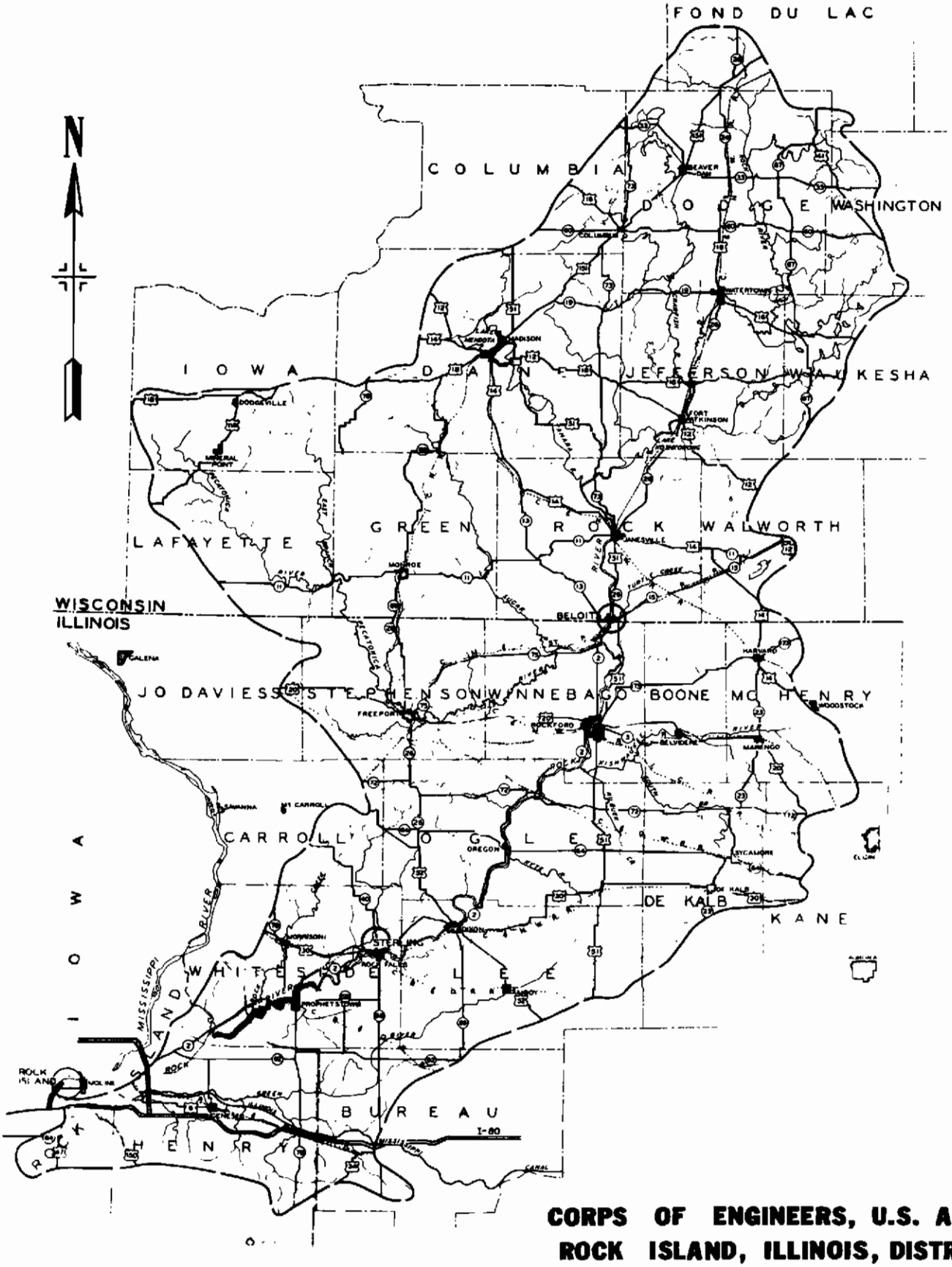
PLATE 96



U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

SQUAW CREEK
WATER SURFACE PROFILES
FROM MOUTH TO RIVER MILE 246
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 97



CORPS OF ENGINEERS, U.S. ARMY
ROCK ISLAND, ILLINOIS, DISTRICT

ROCK RIVER WATERSHED

10 0 10 20 30 40 50

SCALE IN MILES

PLATE 98

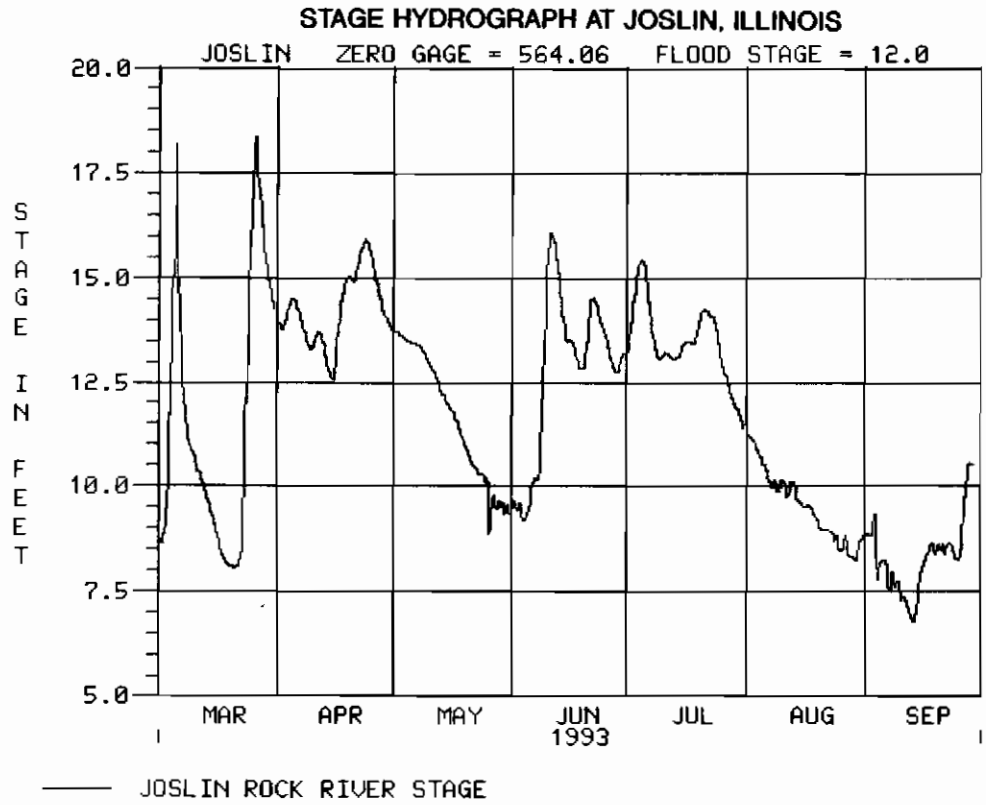


PLATE 99

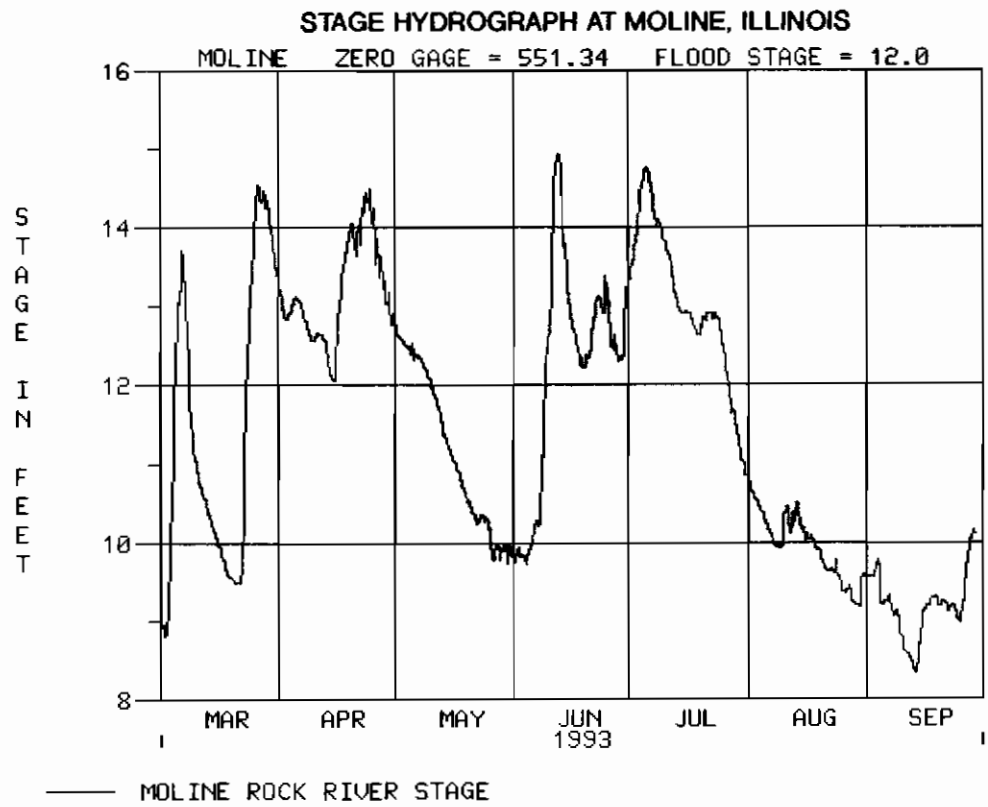
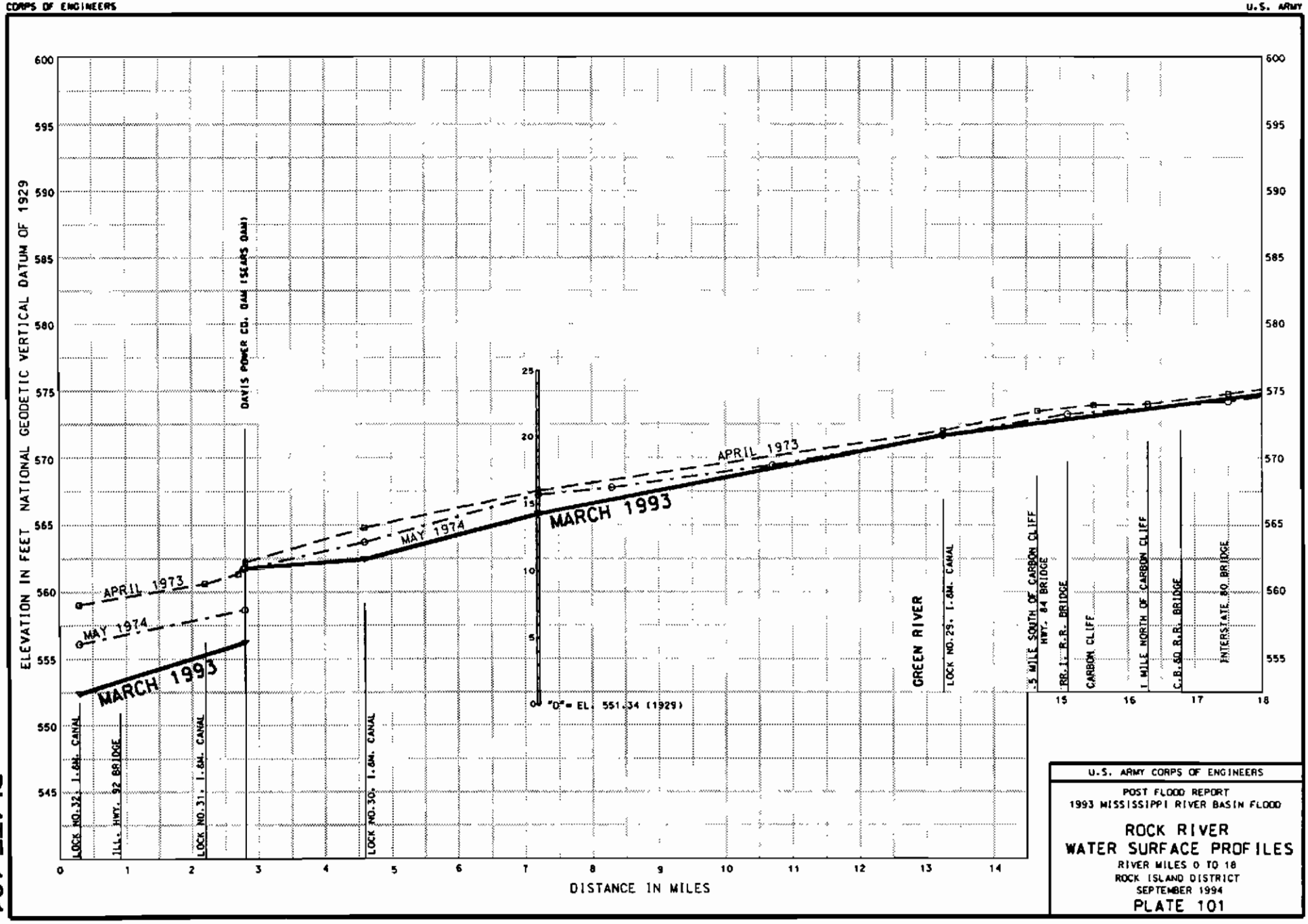


PLATE 100

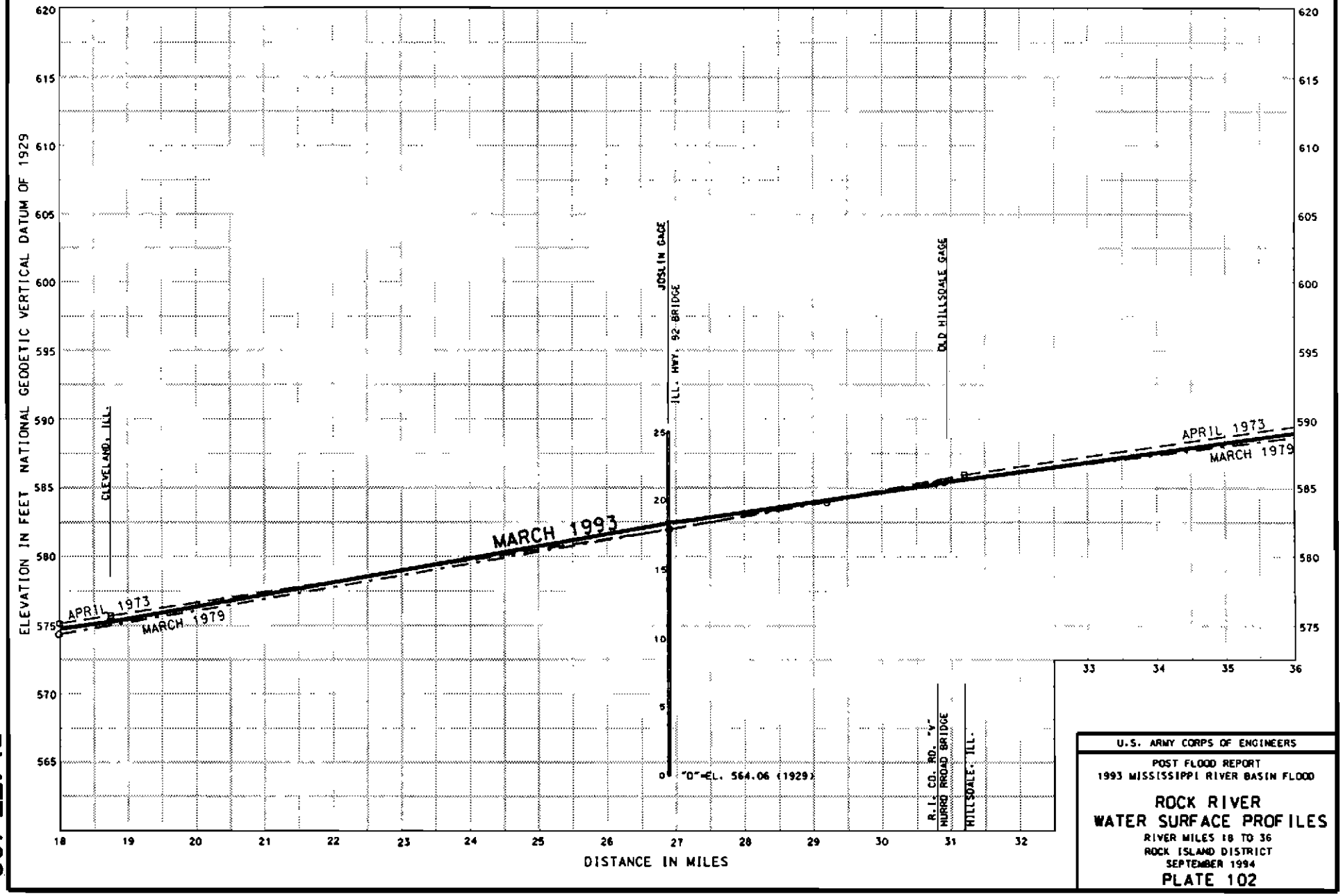


U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

ROCK RIVER
WATER SURFACE PROFILES
RIVER MILES 0 TO 18
ROCK ISLAND DISTRICT
SEPTEMBER 1994
PLATE 101

PLATE 101



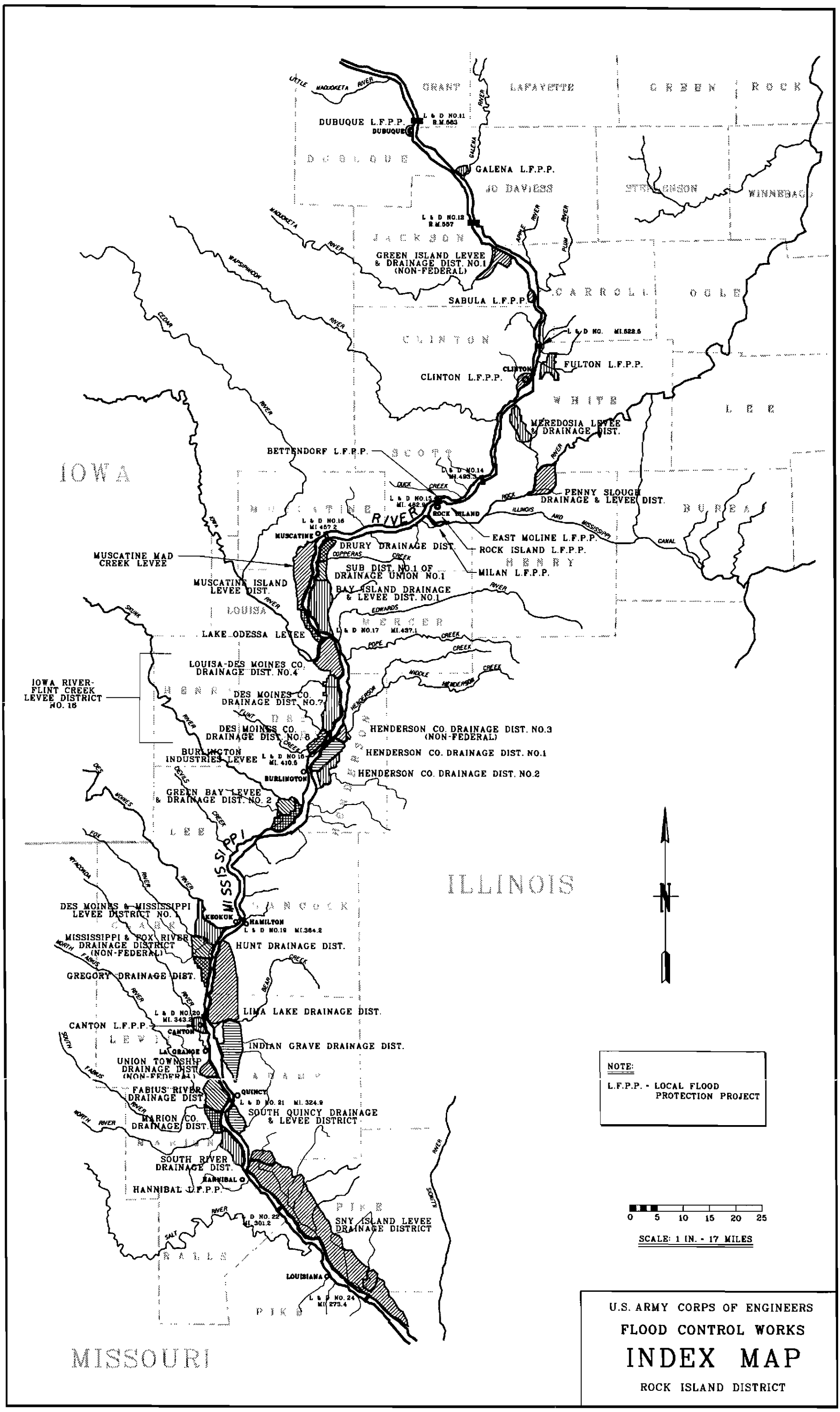
U.S. ARMY CORPS OF ENGINEERS

POST FLOOD REPORT
1993 MISSISSIPPI RIVER BASIN FLOOD

ROCK RIVER
WATER SURFACE PROFILES

RIVER MILES 18 TO 36
ROCK ISLAND DISTRICT
SEPTEMBER 1994

PLATE 102



NOTE:

L.F.P.P. - LOCAL FLOOD PROTECTION PROJECT

U.S. ARMY CORPS OF ENGINEERS

FLOOD CONTROL WORKS

INDEX MAP

ROCK ISLAND DISTRICT

PLATE 103

DISTRICT BOUNDARIES and FLOOD EMERGENCY AREAS

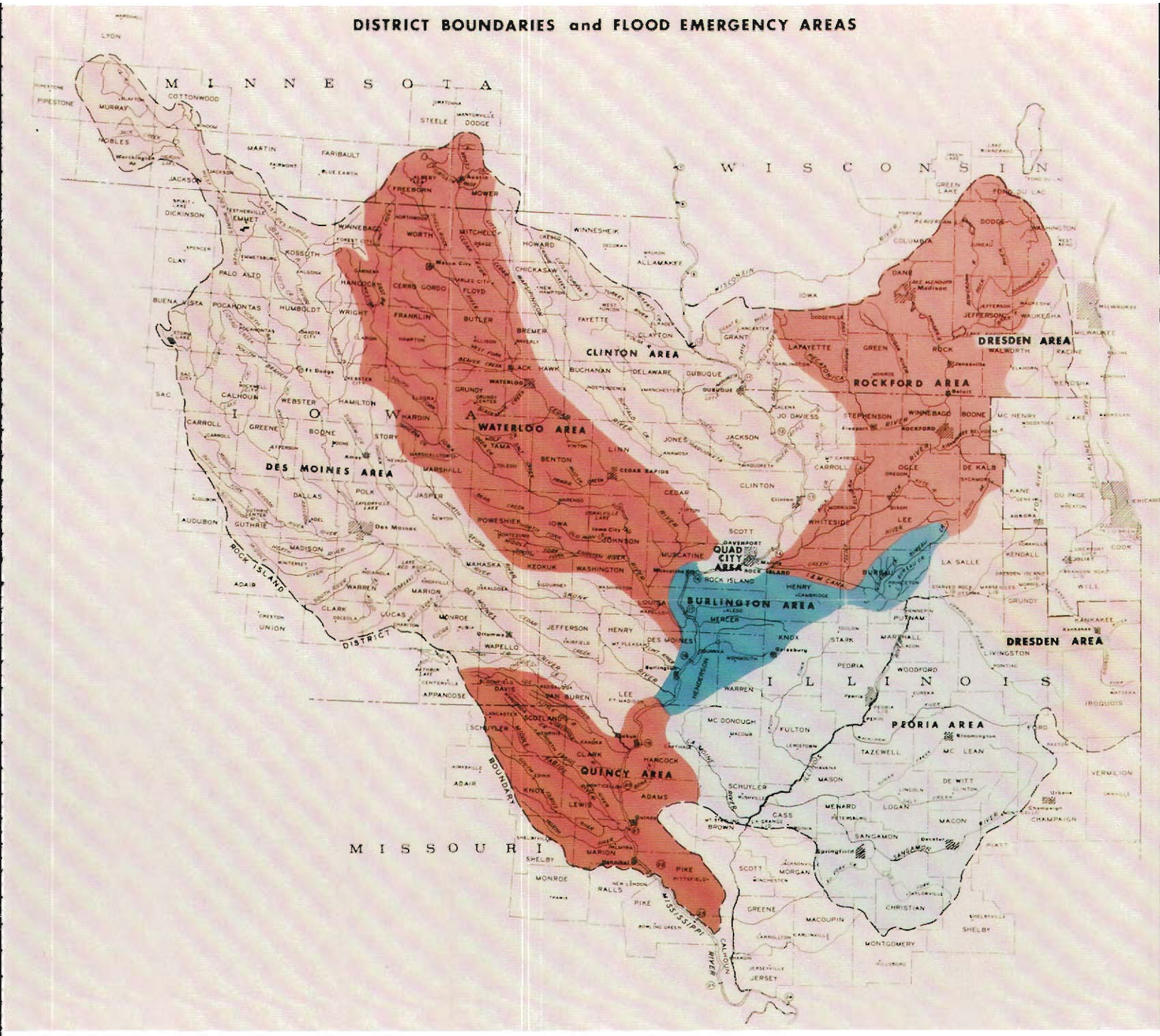


PLATE 104