FLOOD CONTROL STUDY
FOR HISTORIC STE. GENEVIEVE — 80061

VOLUME THREE
PLATES FOR APPENDICES

7. AUTHOR(s)
James Zerega
George Knight
John Brady

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20. ABSTRACT (Continues on reverse side if necessary and identify by block number)

A report addresses the feasibility of Federal participation in a flood protection project for the historic community of Ste. Genevieve, Missouri. The town was founded in the 1700's by French colonists. Much of the community has been designated a Registered National Historic Landmark. Flooding is primarily from the Mississippi River. The proposed plan includes a major levee and pump station, tributary channel widening and other features, and costs $33,580,000 at October 1984 price levels. Benefits include historic preservation and reduction in flood damages.
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U.S. Army Corps of Engineers
St. Louis District
Lower Mississippi Valley Division

"Original map, aerial
plates: All map illus-
trations will be in black and
white"
STE. GENEVIEVE, MISSOURI
FEASIBILITY REPORT

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**FEASIBILITY REPORT**

**VOLUME THREE**

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LEGEND FOR TRIBUTARY MEASURE
Δ SMALL LEEVE
CHANNEL WIDENING - GABIONS ON BOTH SIDES OF CREEK
CHANNEL WIDENING - GABIONS ON ONE SIDE OF CREEK
NEW BRIDGE
PART OF FLOOD PROTECTION BAND

SCALE IN FEET
400 0 800 1600
NOTE: RECREATION FACILITIES SHOWN ON MAP
ALL RECREATION FACILITIES ARE ON
FLOOD CONTROL LANDS

STE GENEVIEVE, MISSOURI
MEASURE 16
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PLAN 1 (RECREATION
FACILITIES NOT SHOWN)

SCALE IN FEET
MISSISSIPPI RIVER FLOODING

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MISSISSIPPI RIVER FLOODING

- 100 YEAR FLOOD LIMITS
- 1000 YEAR FLOOD LIMITS
- 5000 YEAR FLOOD LIMITS

STELE GENEVIEVE, MO & VICINITY

MAP SCALE 1:24,000

DATE: 1999
EXCEEDANCE PROBABILITY

NOTES:
1. DATA POINTS REFLECT ANNUAL HIGH STAGES PLOTTED BY THE WEIBULL METHOD.
2. CURVE REPRESENTS ANALYTICAL RESULTS FROM HEC-2 MODEL.

STE. GENEVIEVE, MISSOURI

STAGE-FREQUENCY RELATIONSHIP
MISSISSIPPI RIVER AT LITTLE ROCK
LANDING GAGE (RM 125.5)
1951 - 1981

U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI
EXCEEDANCE PROBABILITY

NOTES:
1. DATA POINTS REFLECT ANNUAL HIGH STAGES PLOTTED BY THE WEIBULL METHOD.
2. CURVE REPRESENTS ANALYTICAL RESULTS FROM HEC-2 MODEL.

STE. GENEVIEVE, MISSOURI

STAGE-FREQUENCY RELATIONSHIP
MISSISSIPPI RIVER AT BRICEKEY'S LANDING
GAGE (RM 136.0)
1951-1981

U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI
TRIBUTARY FLOODING

- STANDARD PROJECT FLOOD LIMITS
- 100 YEAR FLOOD LIMITS
- 25 YEAR FLOOD LIMITS

STE GENEVIEVE, MO & VICINITY

NOTE

- PROJECT MAP SCALE: 1:24,000
- MAP DRAWING: T.W. (WBE) KRT, Chickamauga District, Corps of Engineers
- MAP OF AREA SHOWN: WEST 3 NO. 9
MEASURE 5

* UNIT HYDROGRAPH (125) REPRESENTS COMBINED HYDROGRAPH OF (100), (10), AND (20).

LEGEND

100 SUBAREA NO.
100 ROUTING REACH

M5STOR AVAILABLE INTERIOR STORAGE

STE. GENEVIEVE, MISSOURI
HEC-1 SCHEMATIC
FOR MEASURES 5 AND 6
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

PLATE C-18
I6
07
70
(1
50
MEASURE 7
MEASURES 8
UNIT HYDROGRAPH * REPRESENTS COMBINED HYDROGRAPH OF 100, 110, AND 120.

LEGEND

50
SUBAREA NO.

125
ROUTING REACH

M7STOR
AVAILABLE INTERIOR STORAGE

STE. GENEVIEVE, MISSOURI
HEC-I SCHEMATIC
FOR MEASURES 7 AND 8
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

PLATE C-19
MISSISSIPPI
PRAIRIE DU ROCHER LEVEE DISTRICT

BASEN MAP-MEASURE 9
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

STE GENEVIEVE, MO.

PLATE C-22
PUMPING STATION
AT GD2

GRAVITY DRAIN
AT GD2

* NOTE:
UNIT HYDROGRAPH 75 REPRESENTS COMBINED HYDROGRAPHS OF THROUGH 70
UNIT HYDROGRAPH 95 REPRESENTS COMBINED HYDROGRAPHS OF 90
UNIT HYDROGRAPH 125 REPRESENTS COMBINED HYDROGRAPHS OF 90, 110, AND 120
UNIT HYDROGRAPH 155 REPRESENTS COMBINED HYDROGRAPHS OF 130, 140, AND 150

LEGEND

95  SUBAREA NO.

PSSTOR  ROUTING REACH

GD2STOR  INTERIOR STORAGE AREA

STE. GENEVIEVE, MISSOURI
HEC-1 SCHEMATIC
FOR MEASURE 9
PUMPING STATION AND GRAVITY DRAIN AT GD2
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

PLATE C-23
LEGEND

910
SUBAREA NO

930
SUBAREA NO

GDISTOR
INTERIOR STORAGE
AR' A

GRAVITY DRAIN
AT GD1

GRAVITY DRAIN
AT GD3

ST. GENEVIEVE, MISSOURI
HEC-1 SCHEMATIC
FOR MEASURE 9
GRAVITY DRAINS AT GD1 AND GD3
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

PLATE C-24
INFLOW HYDROGRAPH

OUTFLOW HYDROGRAPH WITH 5-LIDIA CM'S IN PLACE.

NOTE: HYDROGRAPHS BASED ON 10-YEAR STORM WITH 24-HOUR DURATION AT 20-MINUTE INTERVALS.

STE. GENEVIEVE, MISSOURI
DISCHARGE HYDROGRAPH FOR GRAVITY DRAIN GD2
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

PLATE C-25 A
STE. GENEVIEVE, MISSOURI
INTERIOR STAGE
HYDROGRAPH
FOR GRAVITY DRAIN GD2
U.S. ARMY ENGINEER DISTRICT,
ST. LOUIS
CORPS OF ENGINEERS
ST. LOUIS, MO.

PLATE C-258
LNO FOR TRIBUTARY MEASURE
SMALL LEVEE
CHANNEL WIDENING - GABIONS ON BOTH SIDES OF CREEK
CHANNEL WIDENING - GABIONS ON ONE SIDE OF CREEK
NEW BRIDGE
PART OF FLOOD PROTECTION LAND

STE. GENEVIEVE, MISSOURI
PLAN 1 (RECREATION FACILITIES NOT SHOWN)
DATE

ILMED

-8