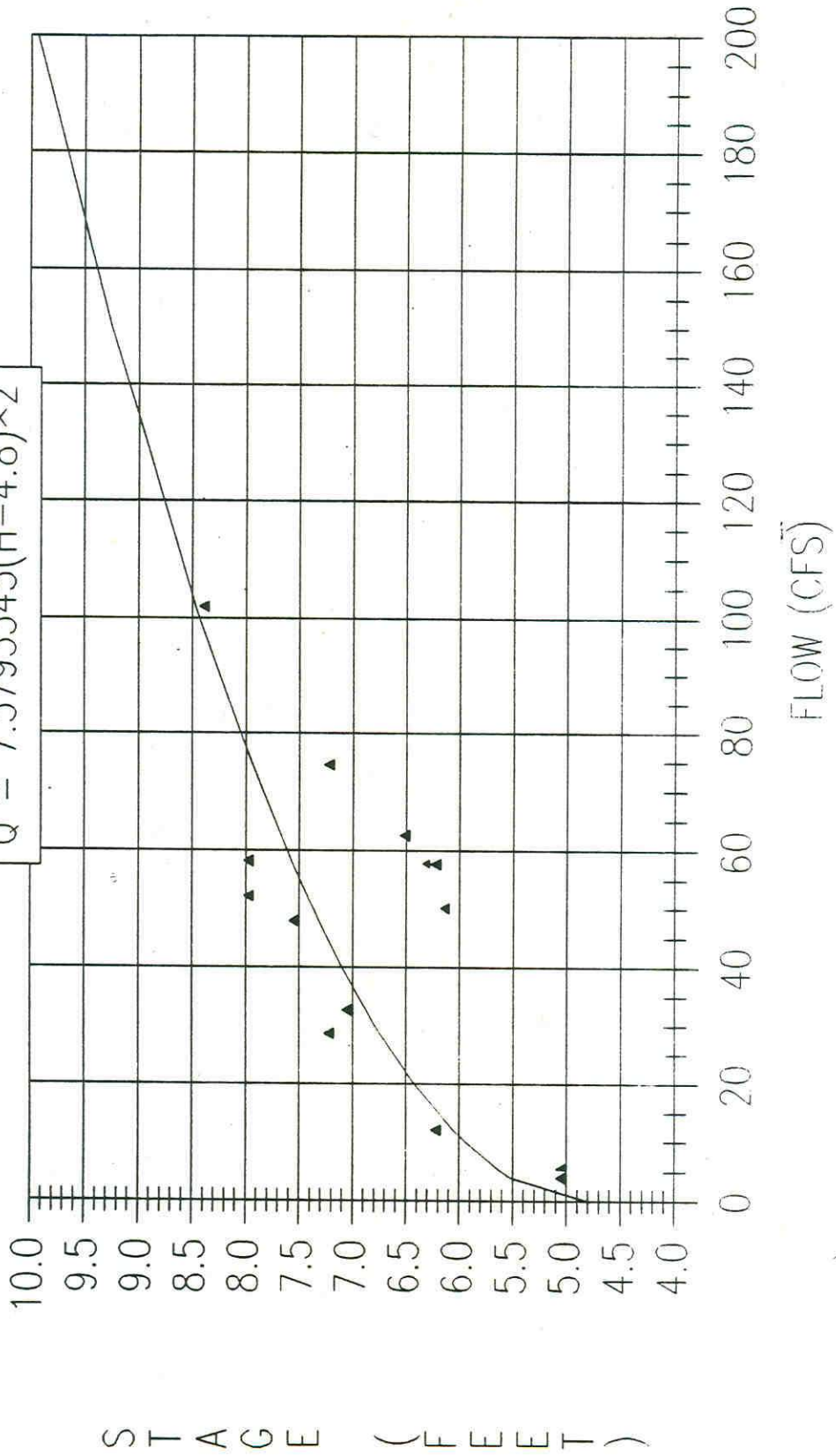


APPENDIX A-1-1

Rating Curves at Berrys Creek and Coles Brook

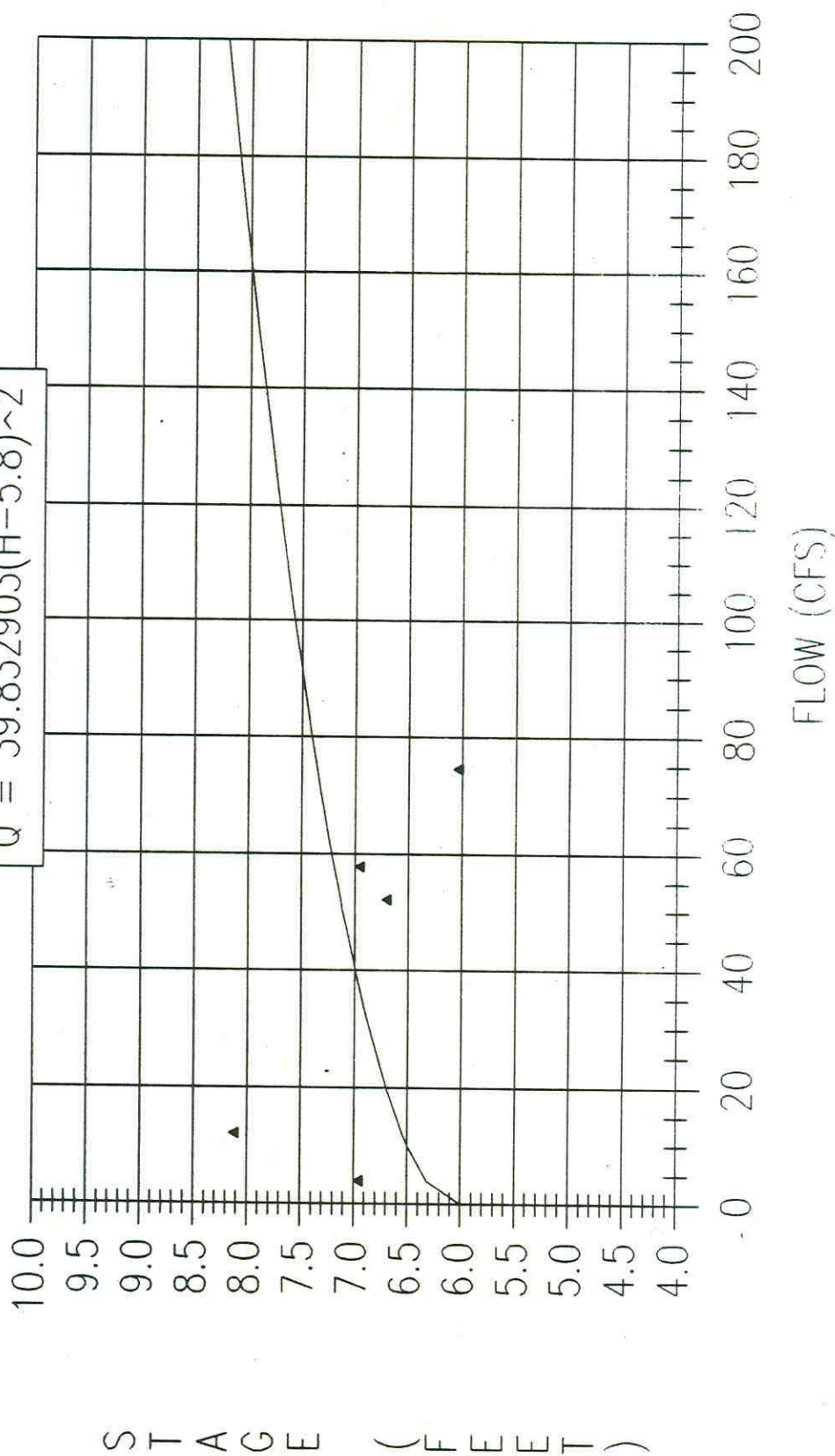
BERRY'S CREEK RATING CURVE - H10

$$Q = 7.5793345(H - 4.8)^{1.2}$$



COLES BROOK RATING CURVE - H8

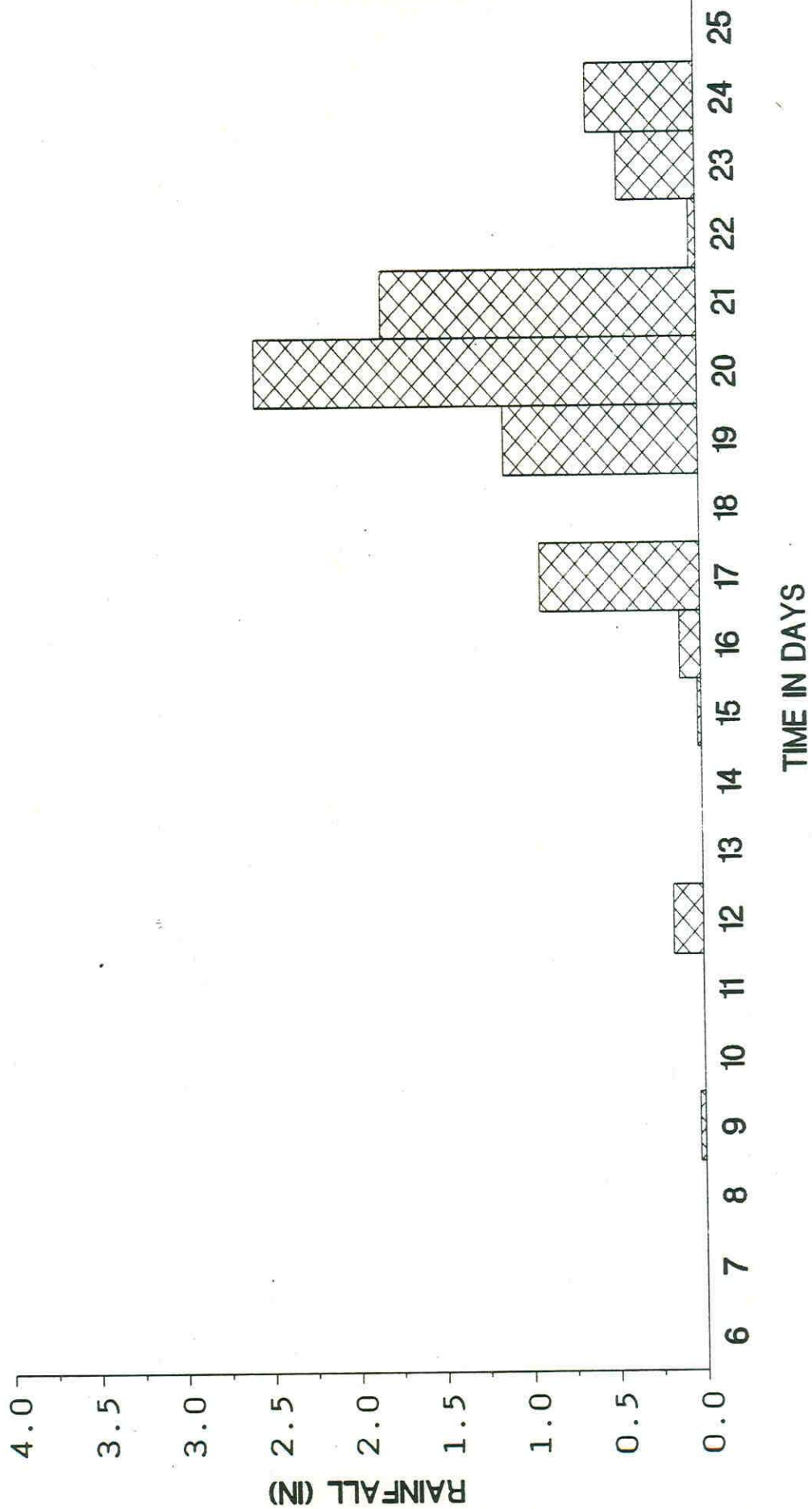
$$Q = 39.832903(H-5.8)^{1.2}$$



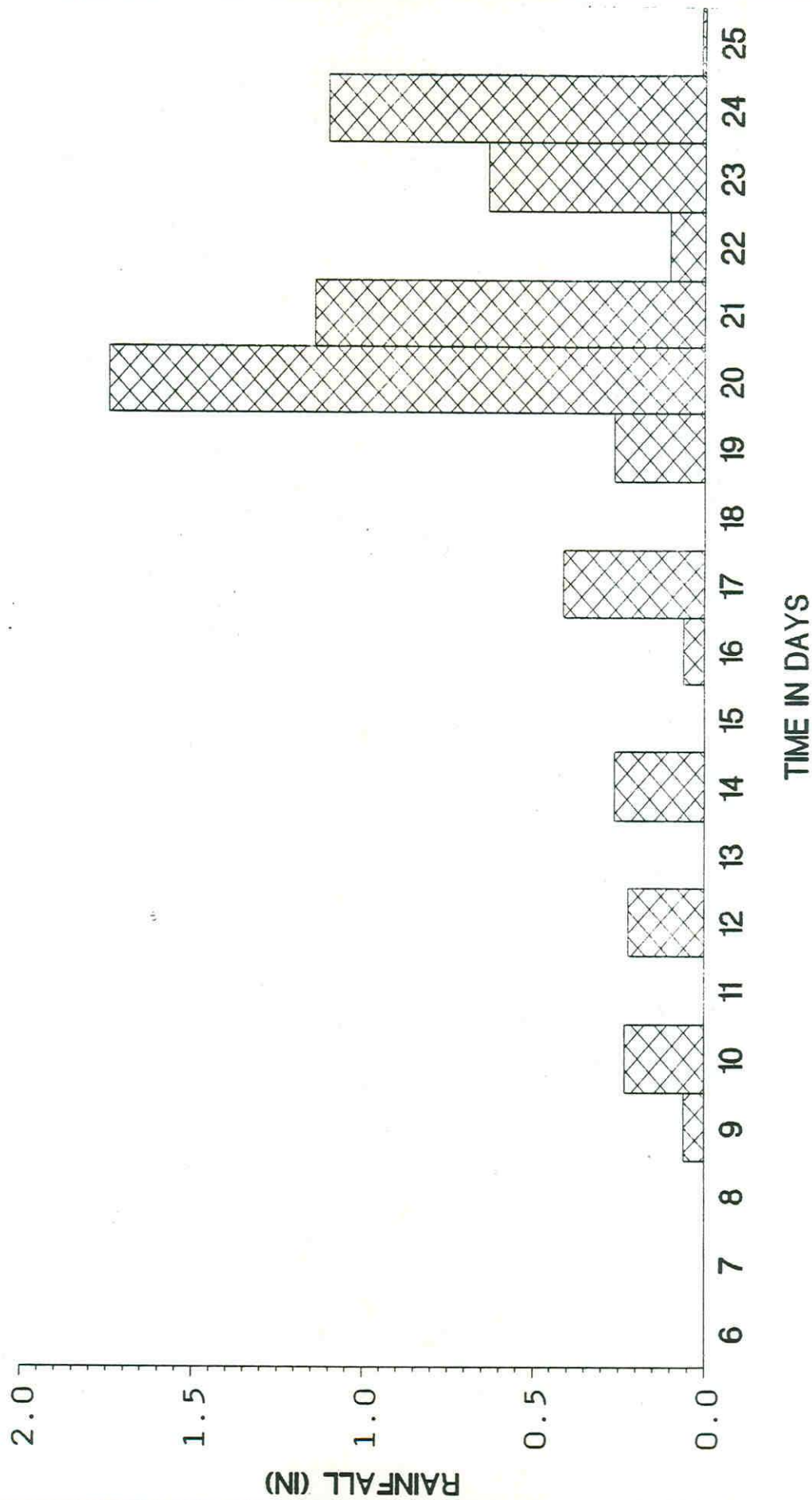
APPENDIX A-1-3

**Short-Term and Long-Term Rainfall Data in the Lower
Hackensack River Watershed
1988 and 1989**

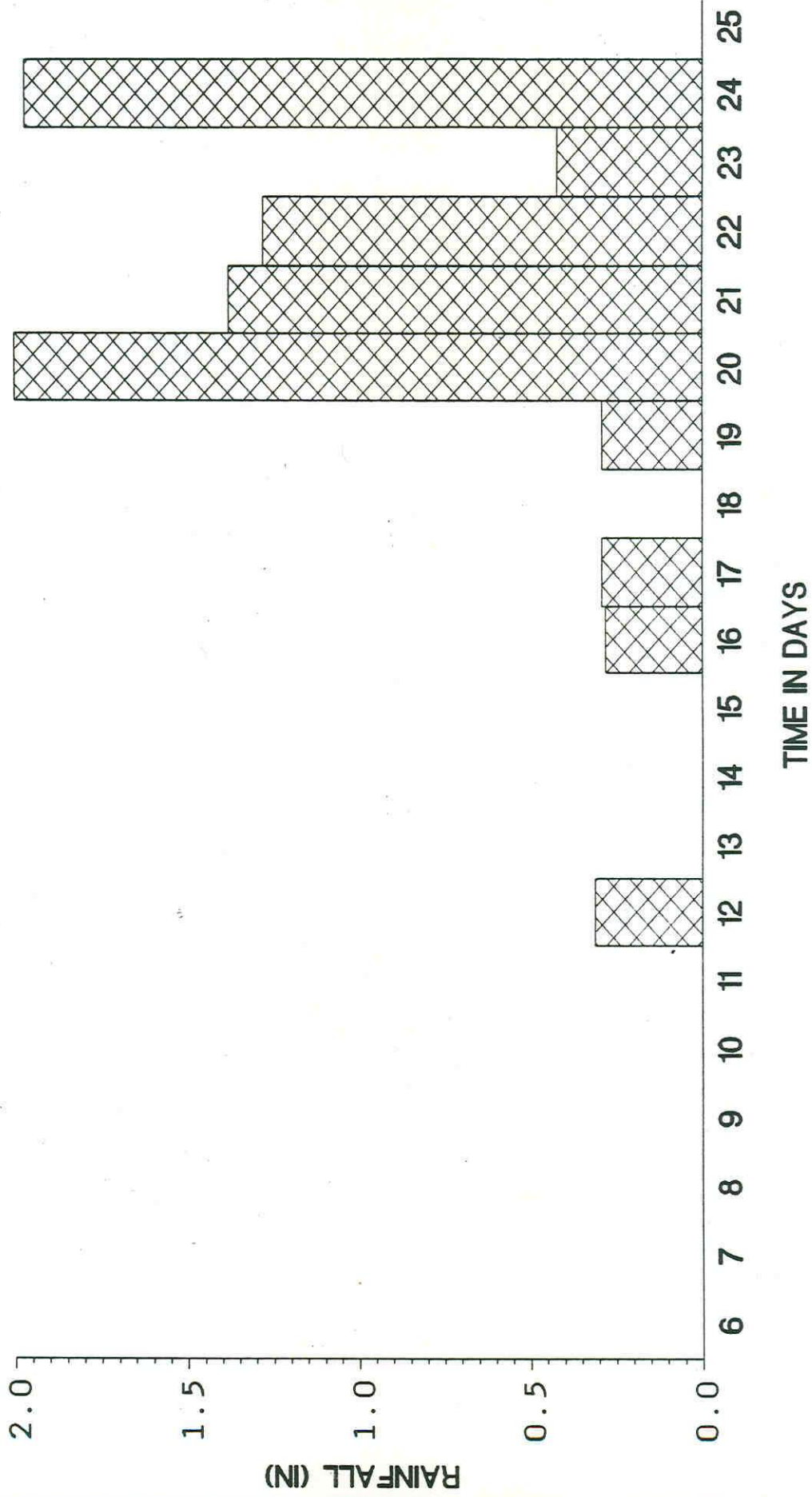
Rainfall Data, July 6-25, 1988 - Newark Airport



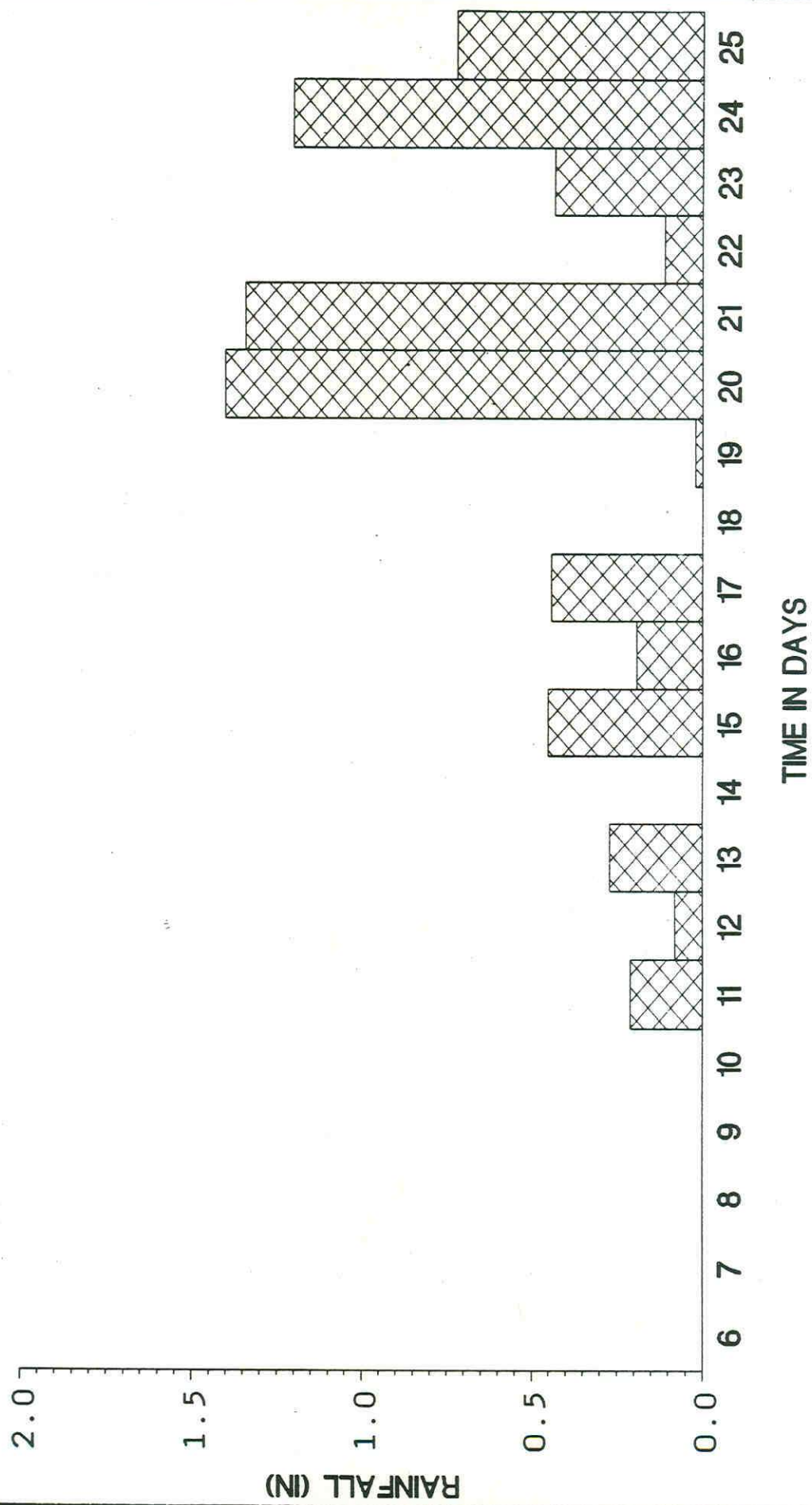
Rainfall Data, July 6-25, 1988 - New Milford



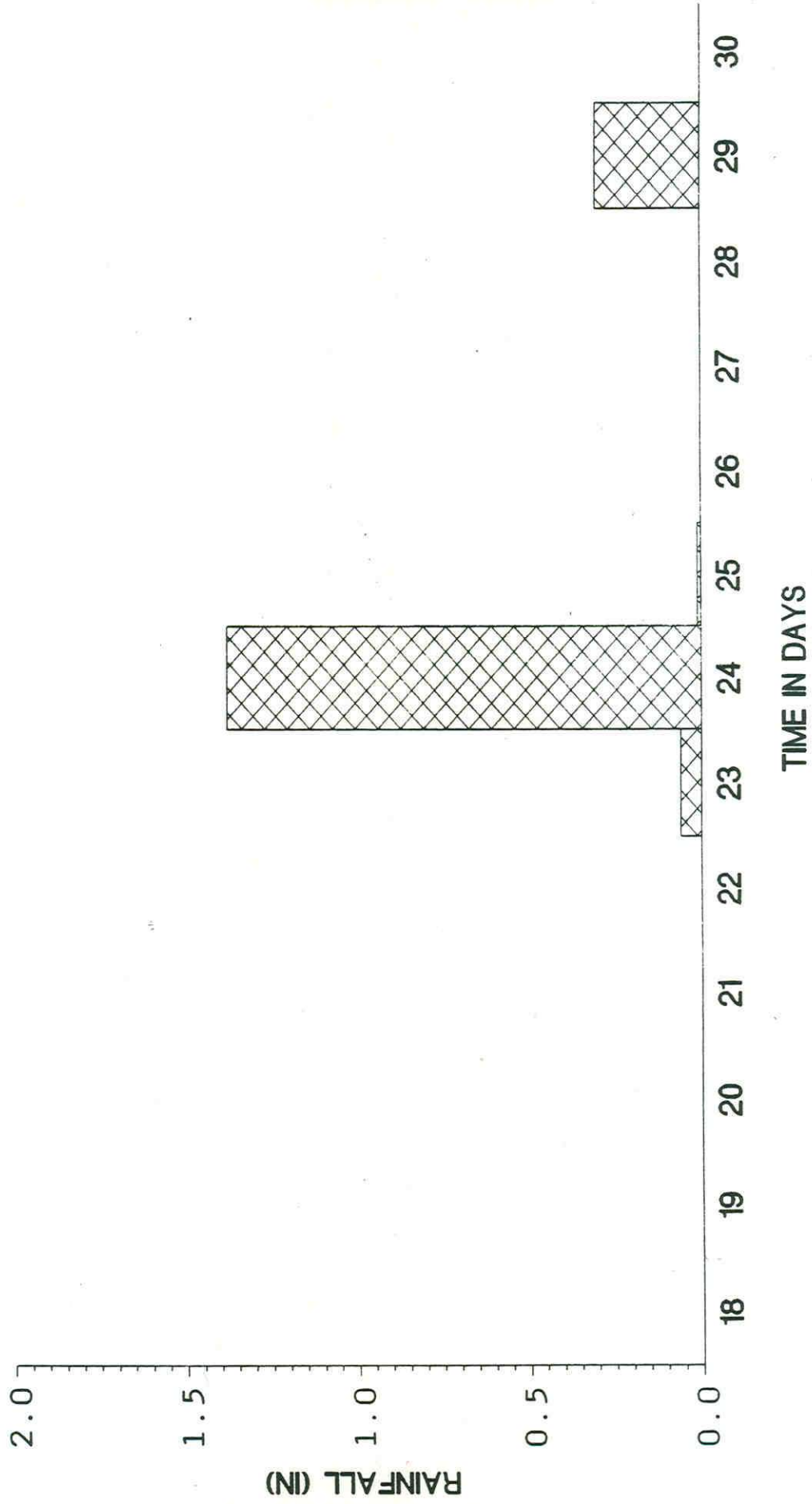
Rainfall Data, July 6-25, 1988 - Hackensack (GTC)



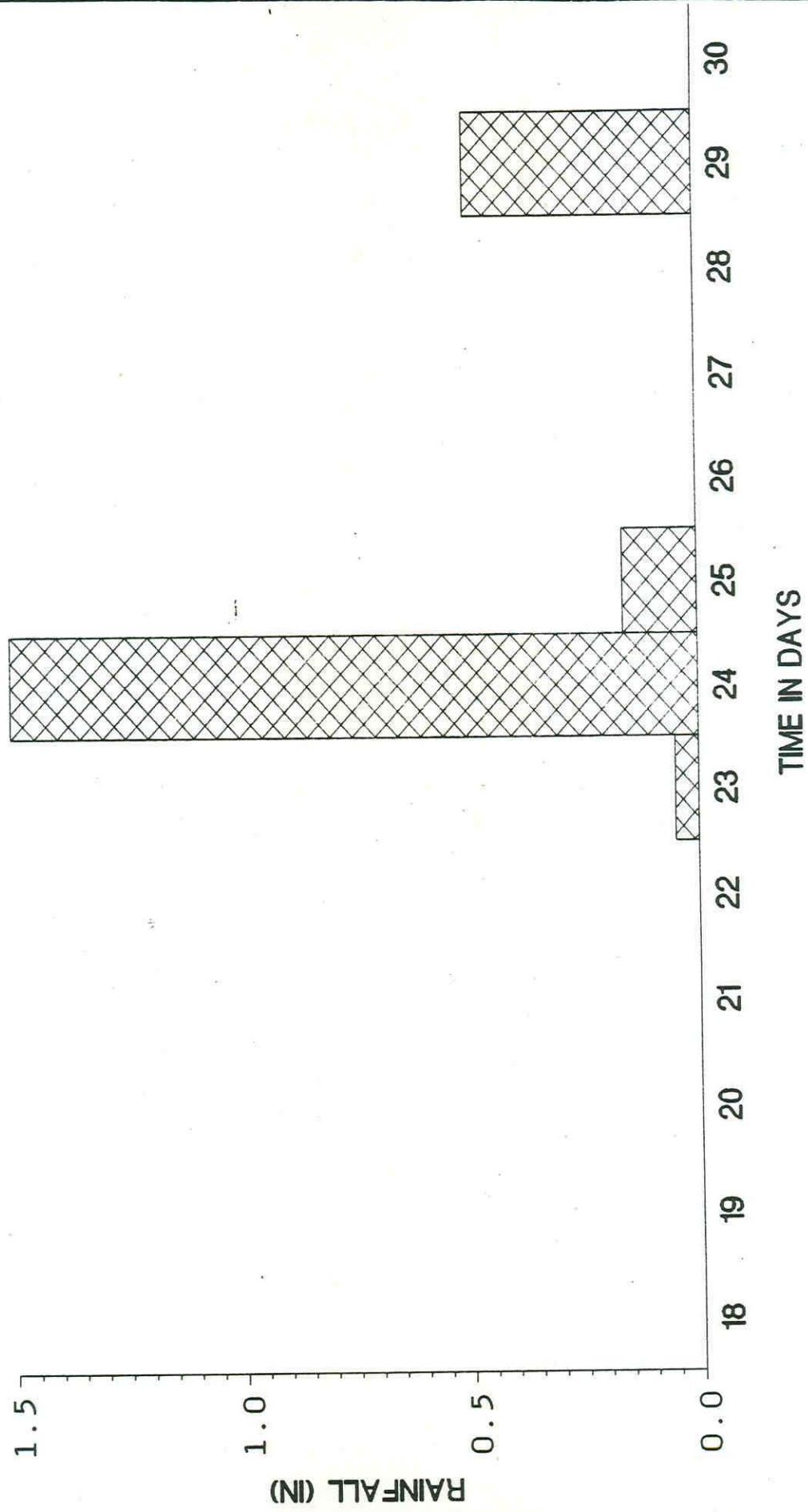
Rainfall Data, July 6-25, 1988 - Fort Lee (CBA)



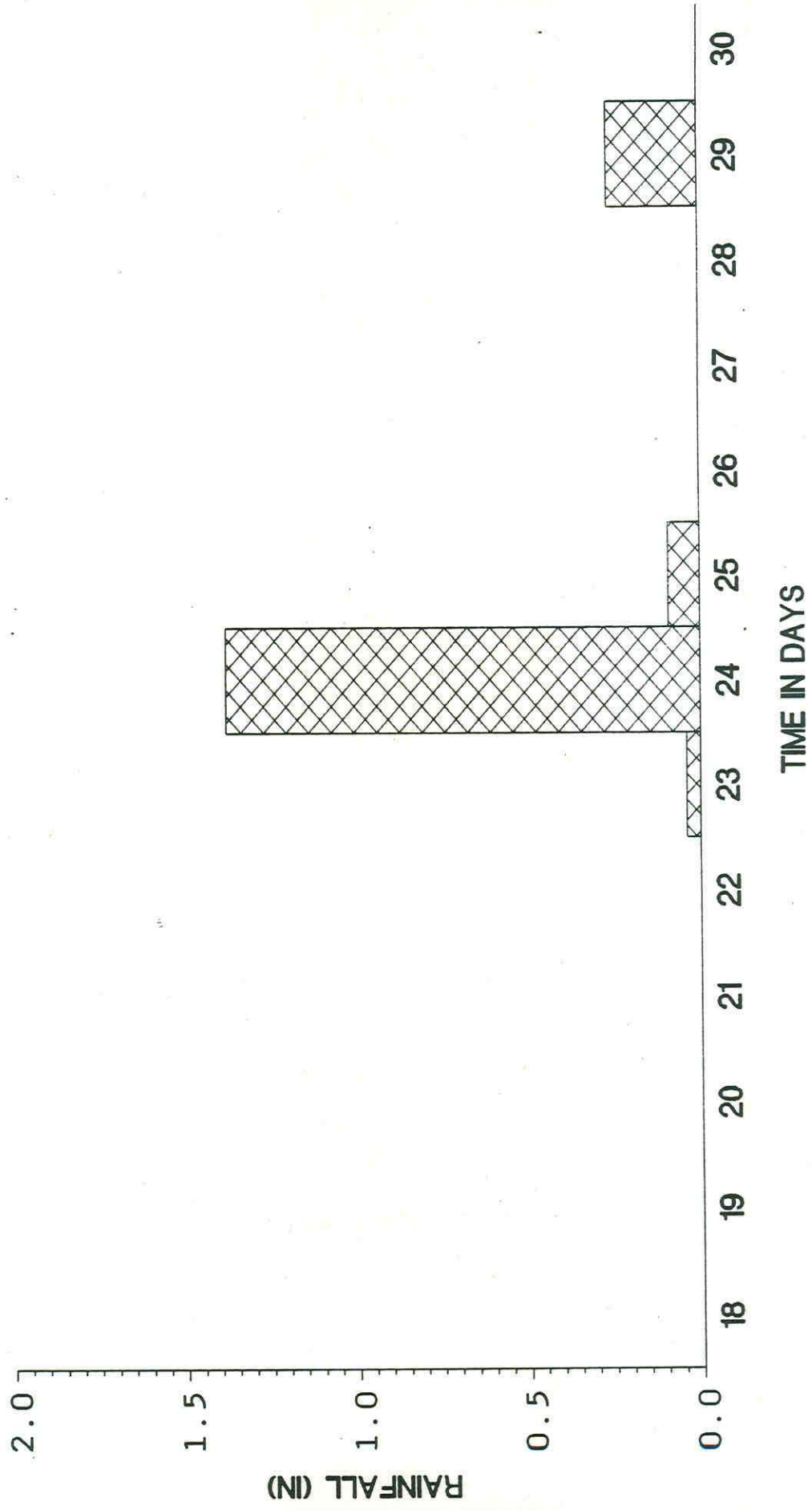
Rainfall Data, August 18-30, 1988 - Newark Airport



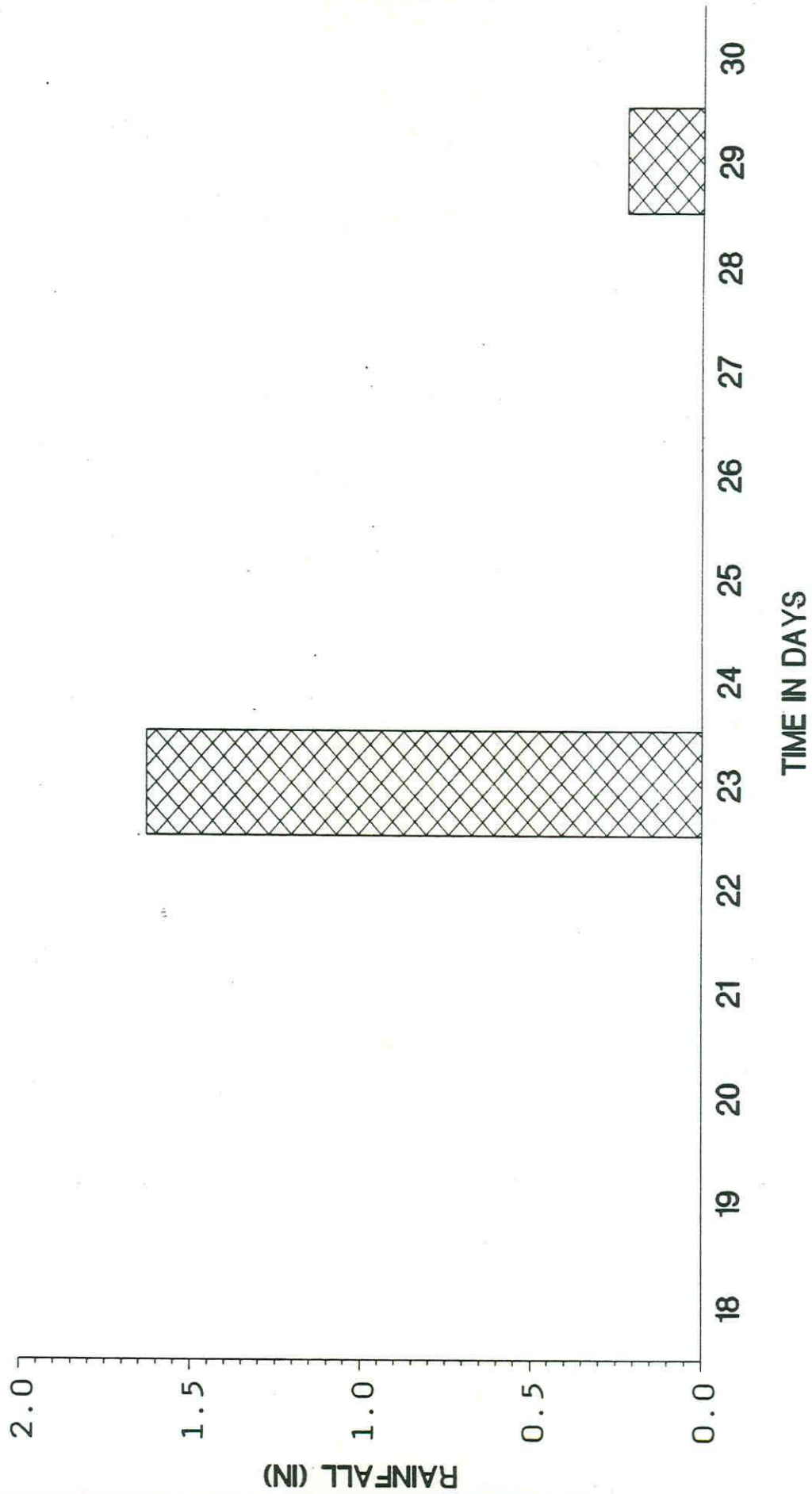
Rainfall Data, August 18-30, 1988 - New Milford



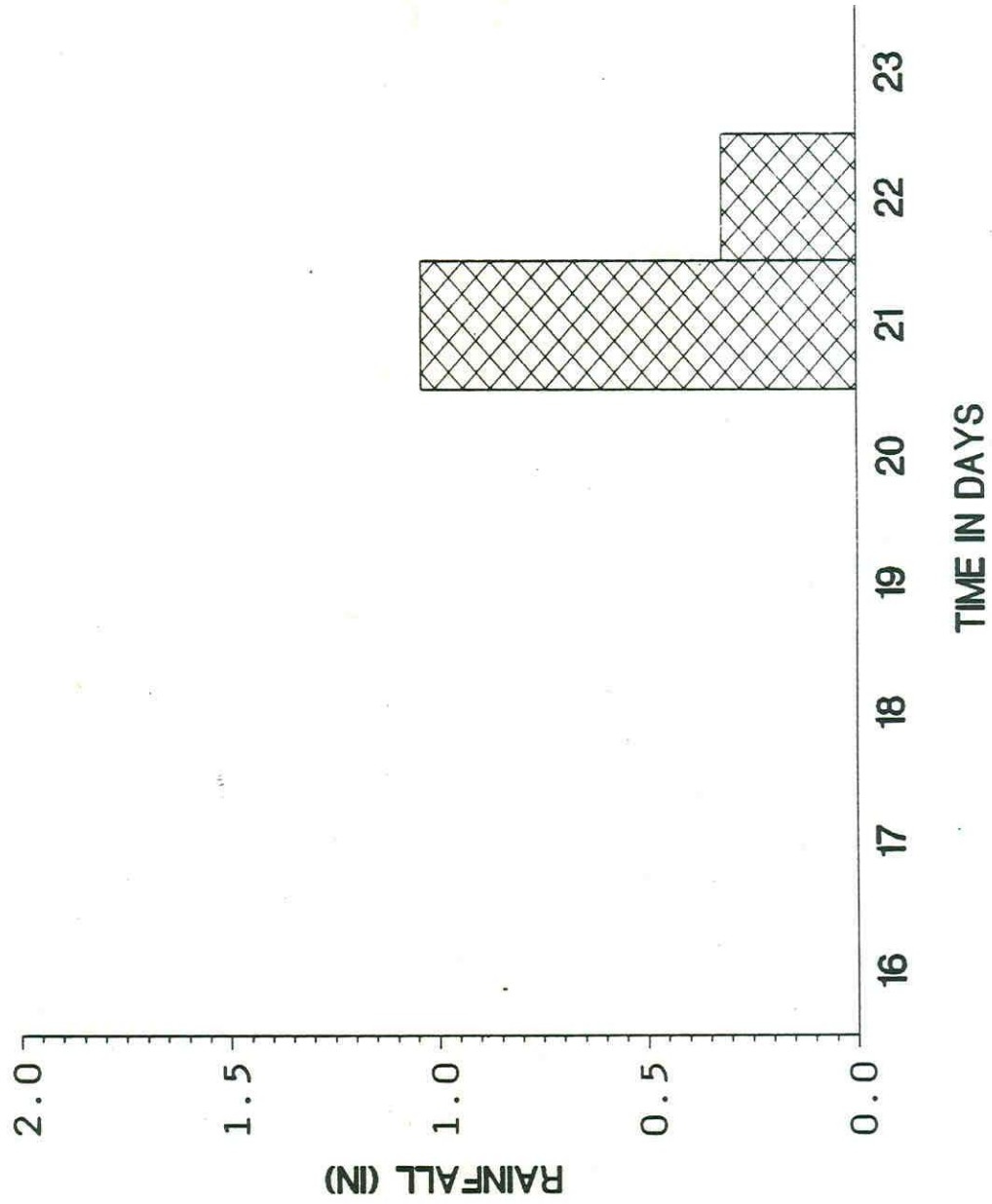
Rainfall Data, August 18-30, 1988 - Hackensack (GTC)



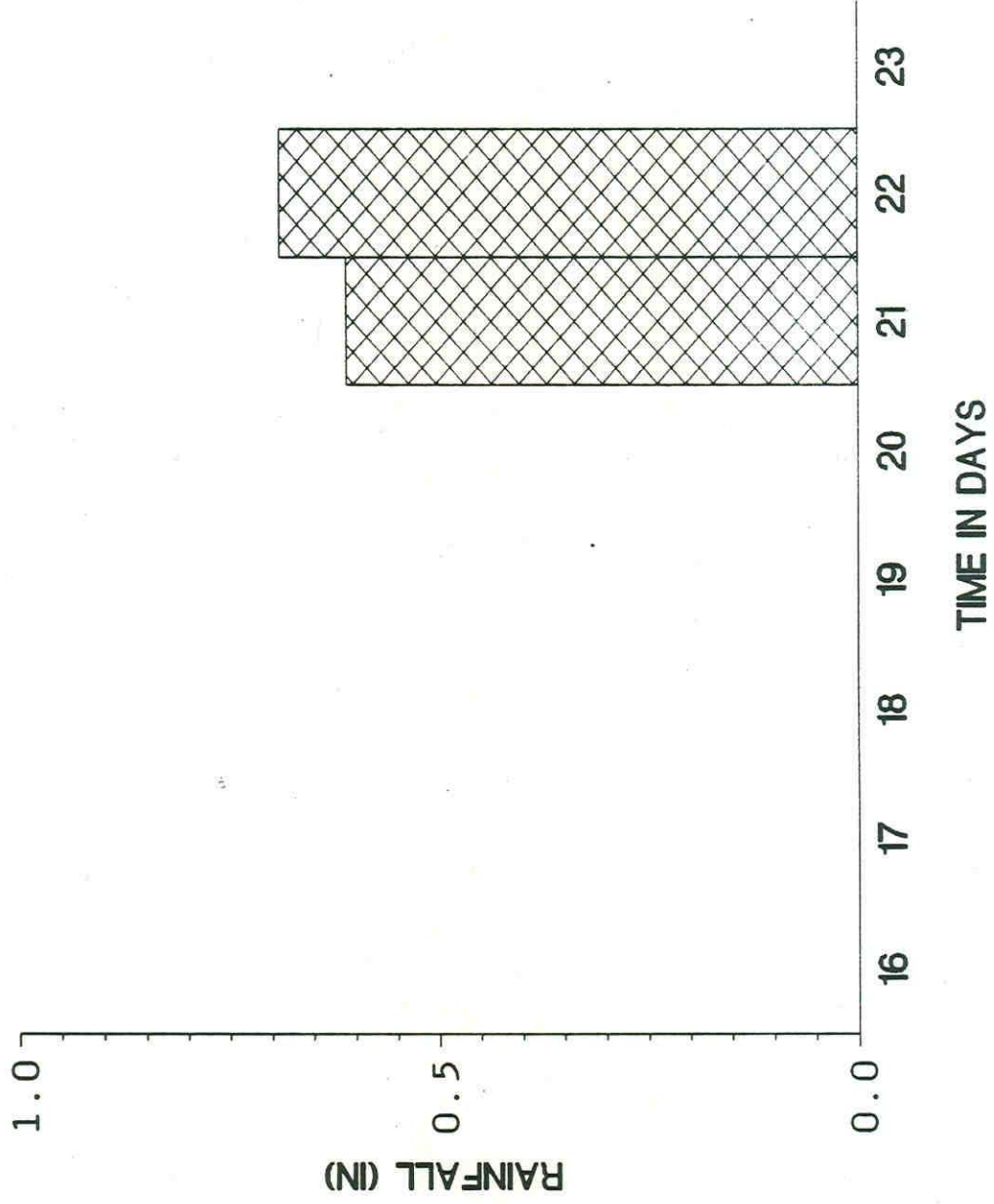
Rainfall Data, August 18-30, 1988 - Fort Lee (CBA)



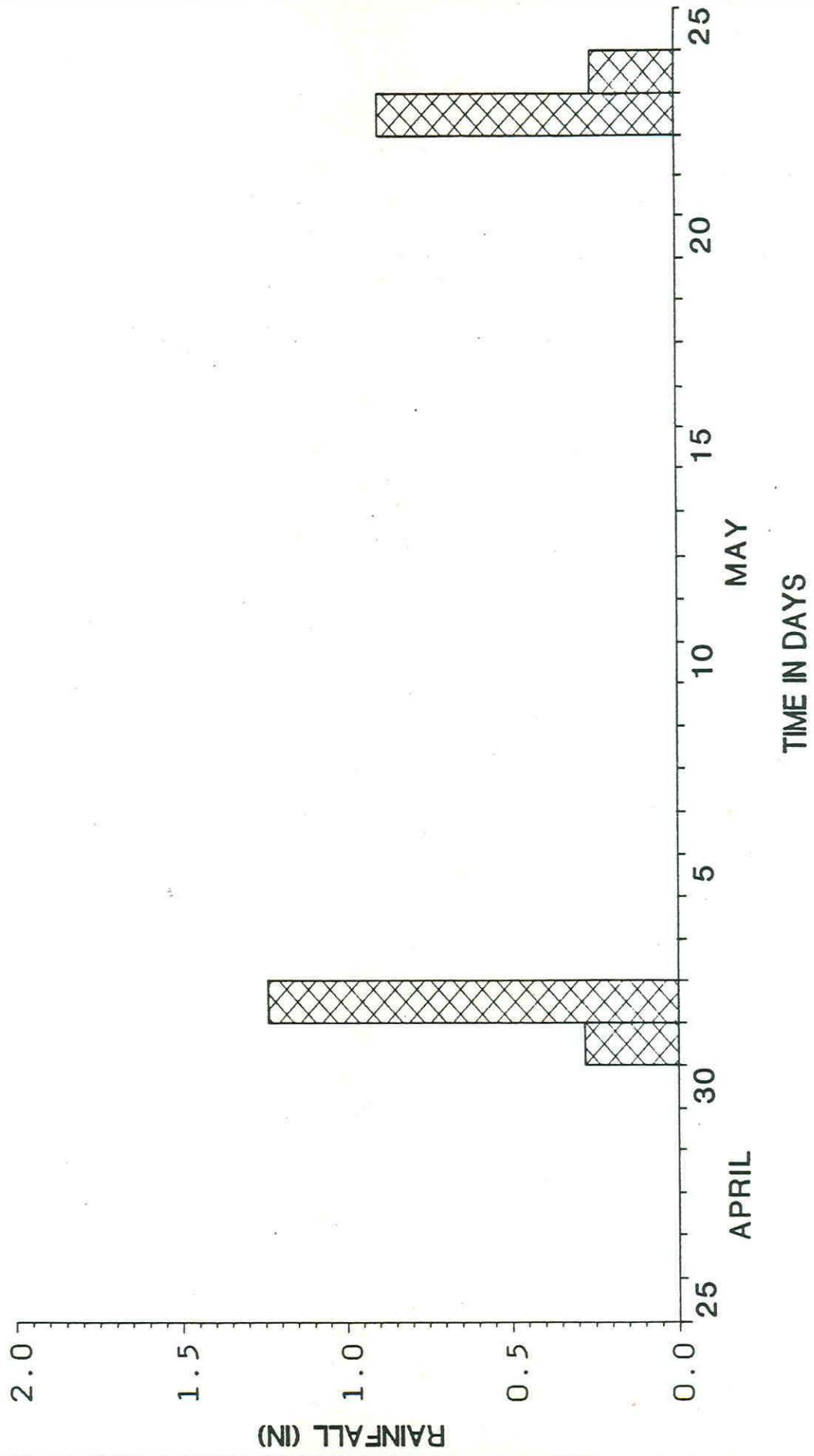
Rainfall Data, October 16-23, 1988 - Newark Airport



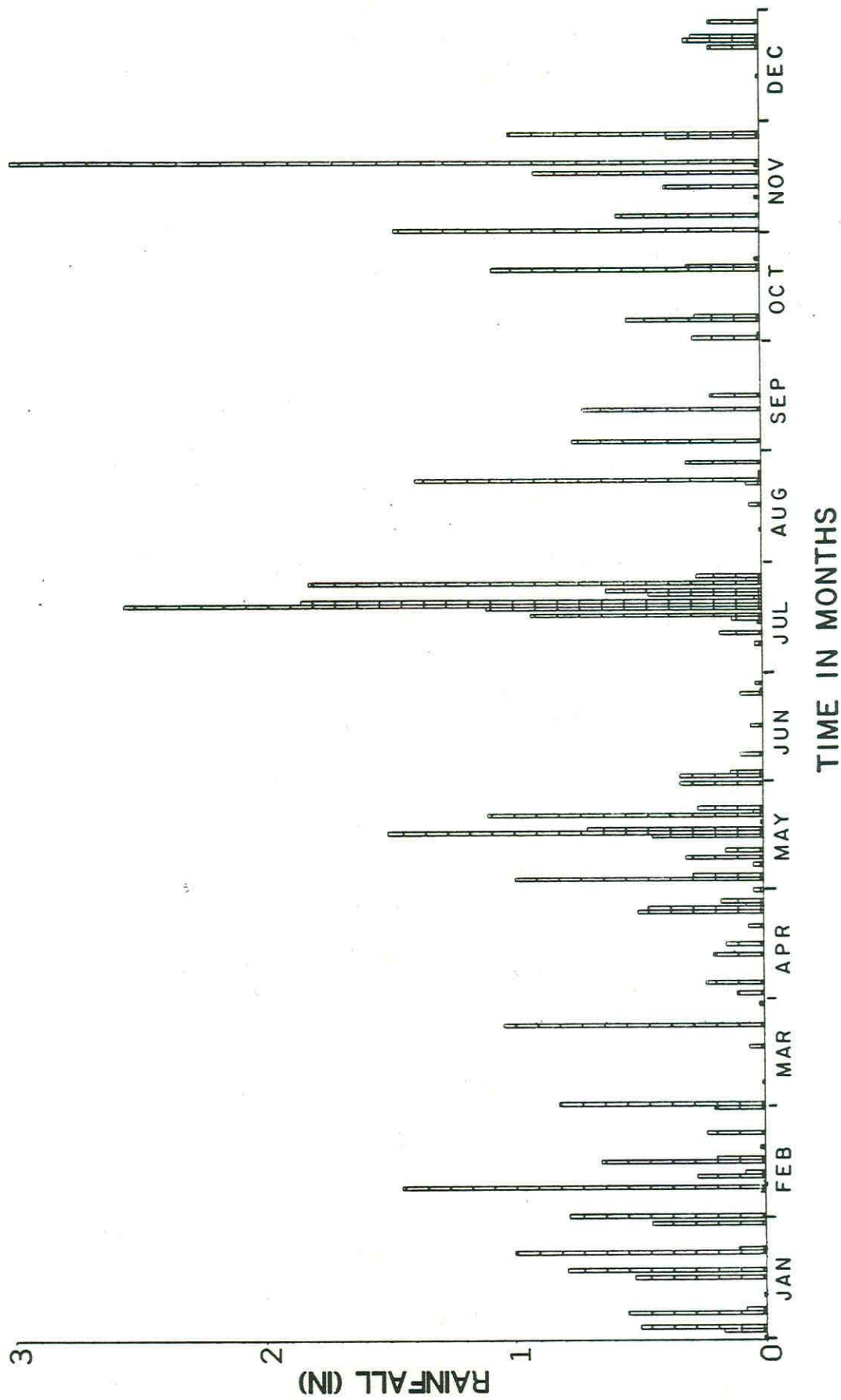
Rainfall Data, October 16-23, 1988 - Hackensack (GTC)



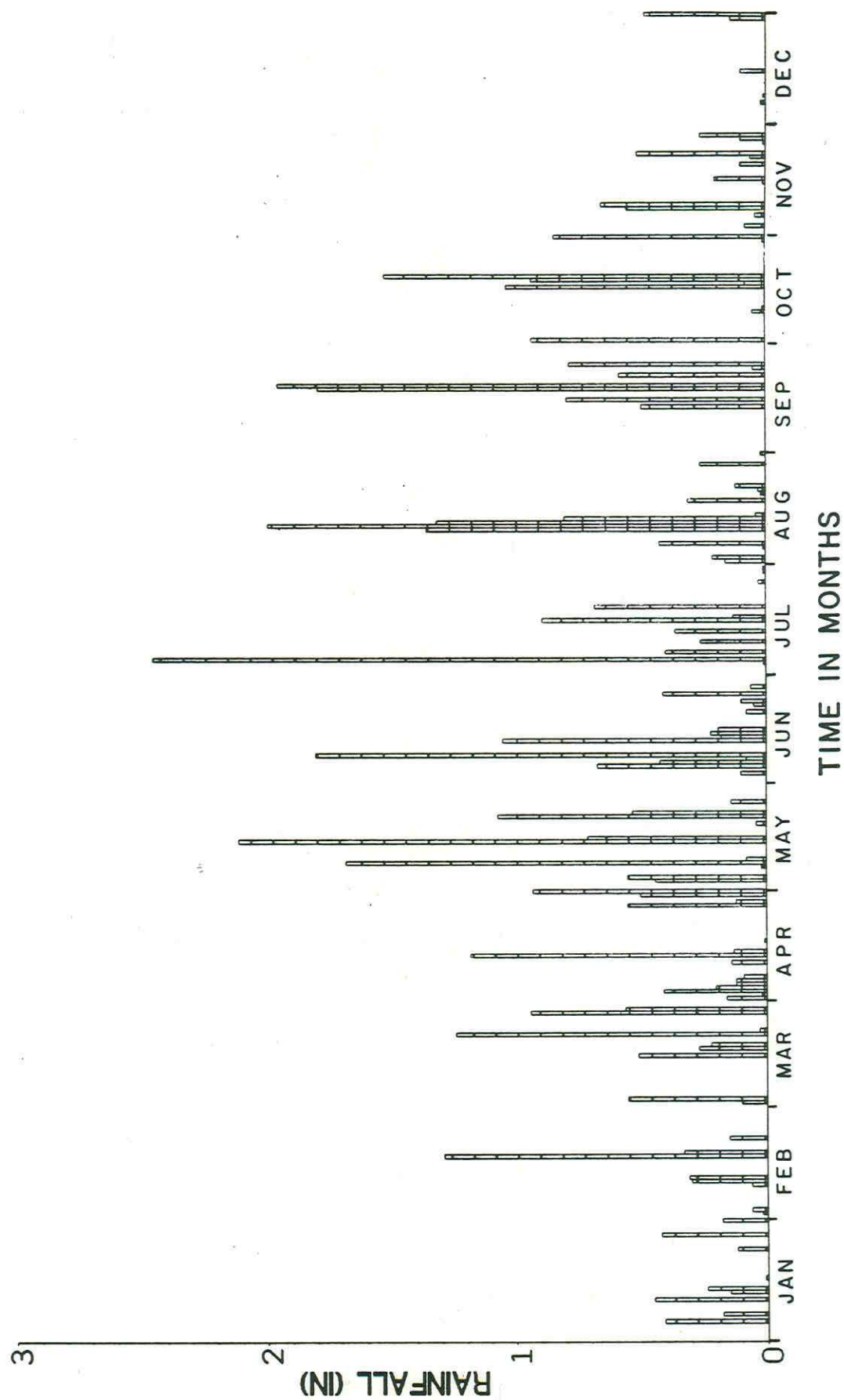
Rainfall Data, April 25 - May 25, 1989 - Hackensack (GTC)



Rainfall at Newark Airport - 1988

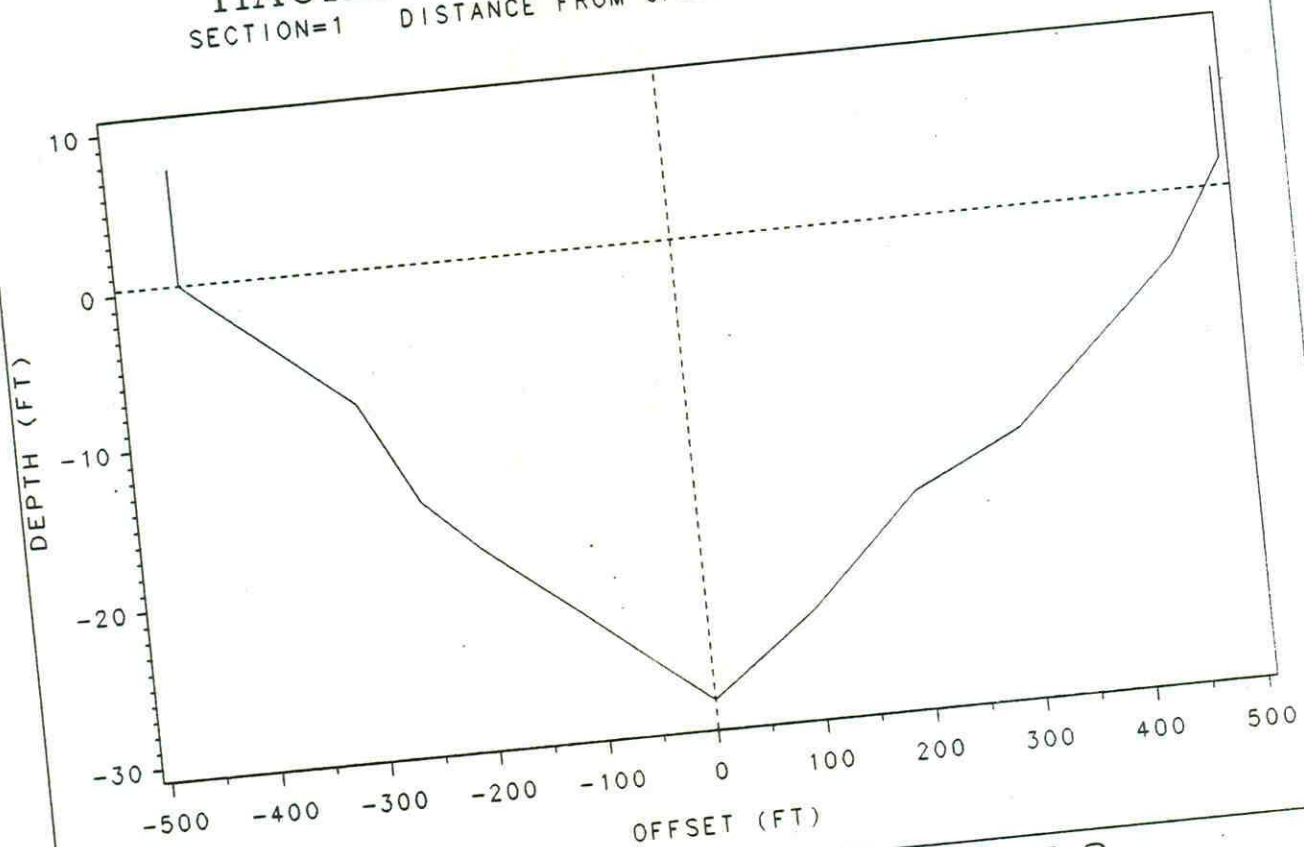


Rainfall at Newark Airport - 1989



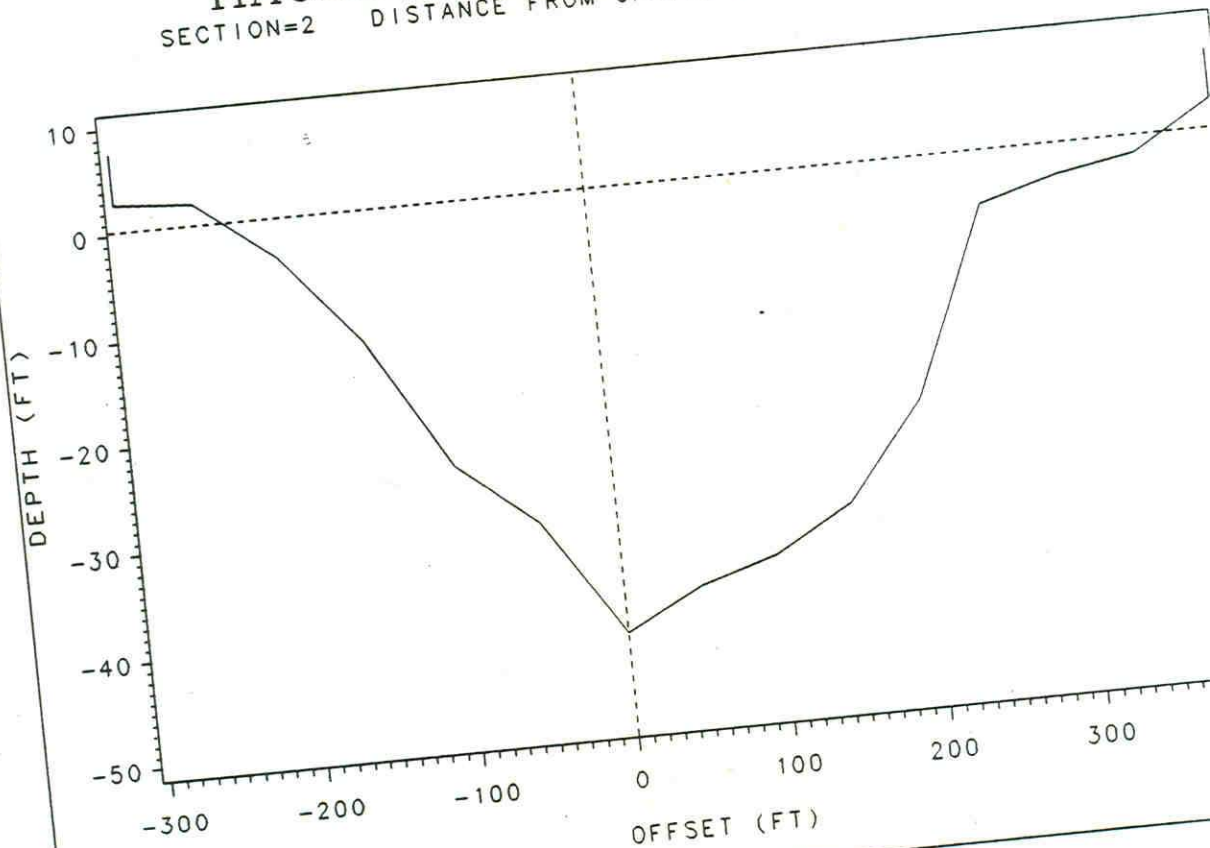
HACKENSACK USCOE REACH 3

SECTION=1 DISTANCE FROM UPSTREAM SECTION (FT)=0



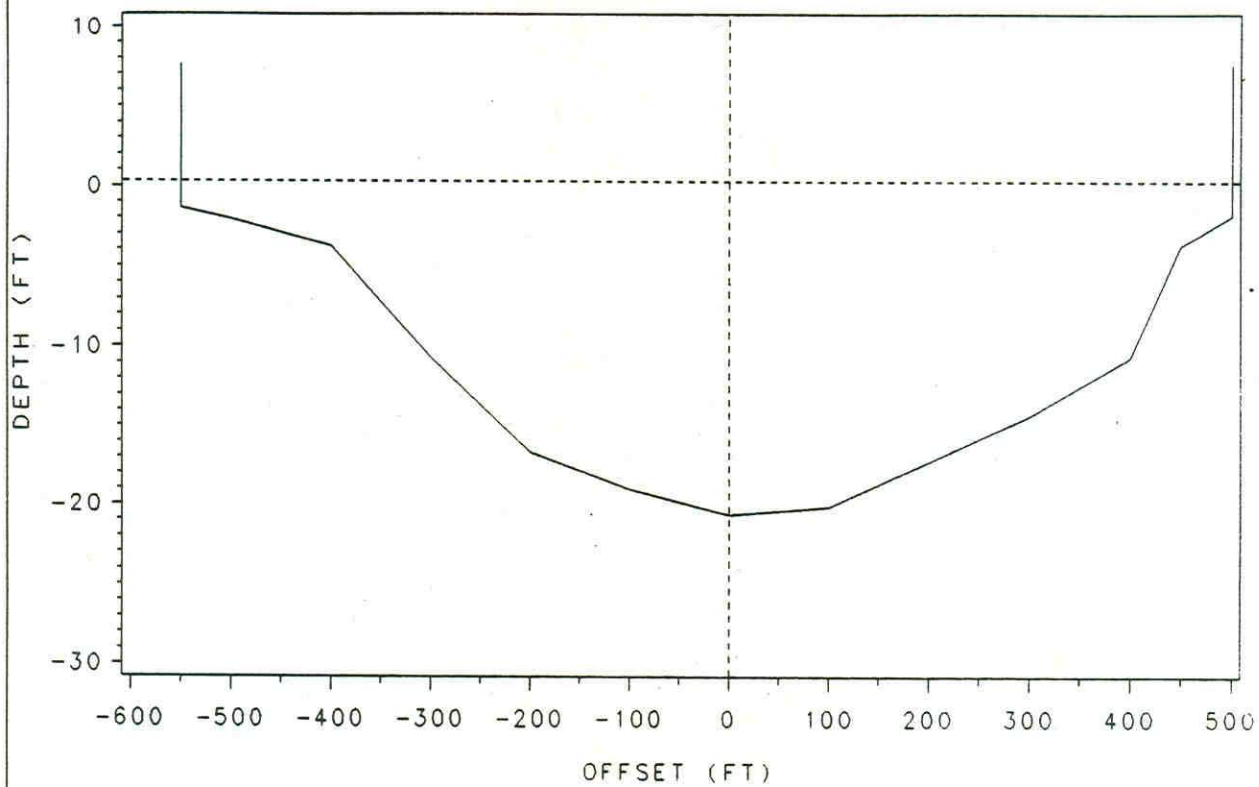
HACKENSACK USCOE REACH 3

SECTION=2 DISTANCE FROM UPSTREAM SECTION (FT)=1520



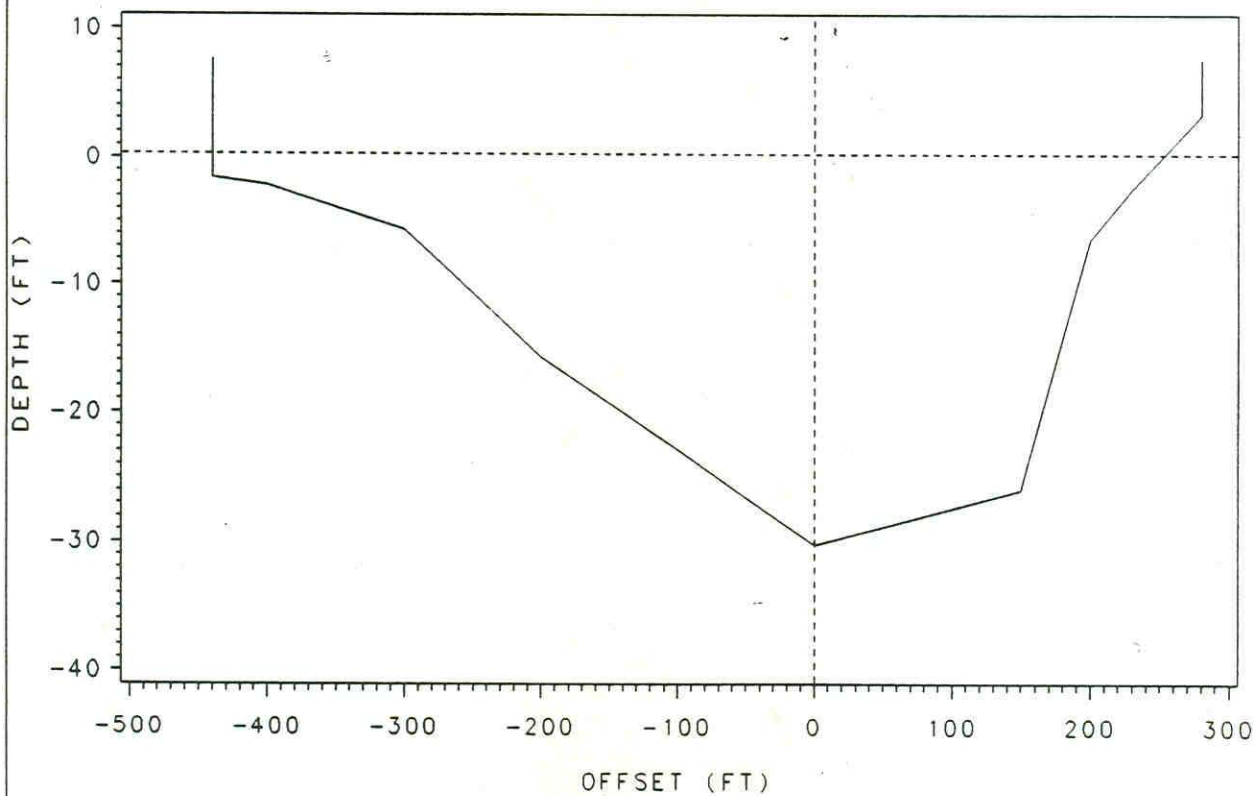
HACKENSACK USCOE REACH 3

SECTION=3 DISTANCE FROM UPSTREAM SECTION (FT)=5020



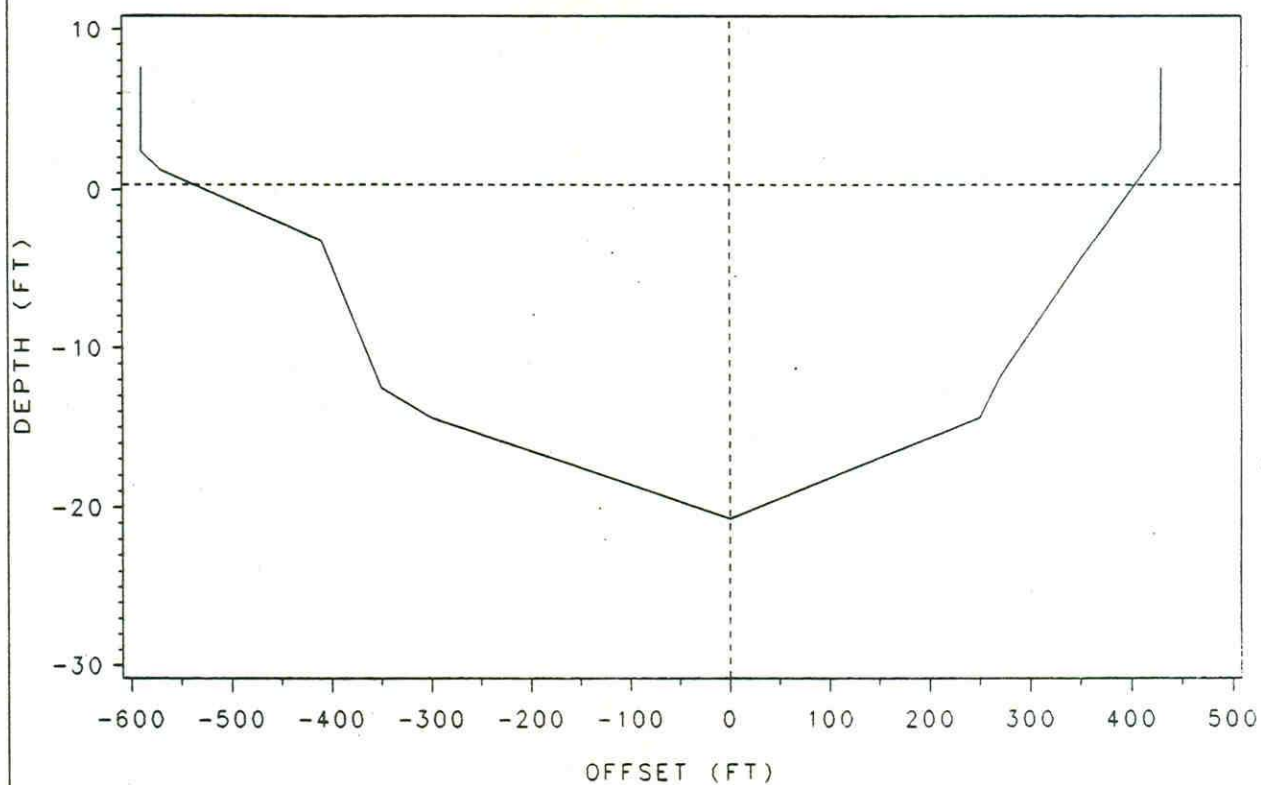
HACKENSACK USCOE REACH 3

SECTION=4 DISTANCE FROM UPSTREAM SECTION (FT)=6660



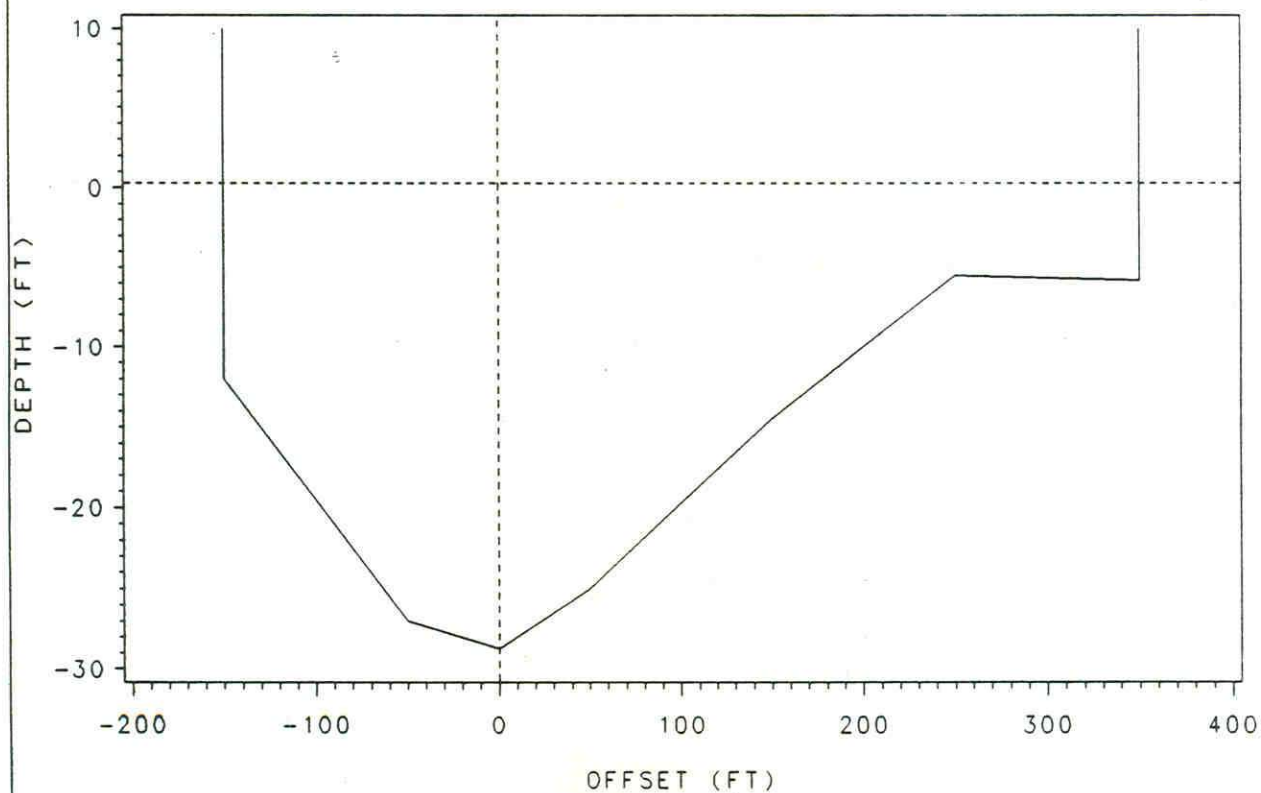
HACKENSACK USCOE REACH 3

SECTION=5 DISTANCE FROM UPSTREAM SECTION (FT)=10420



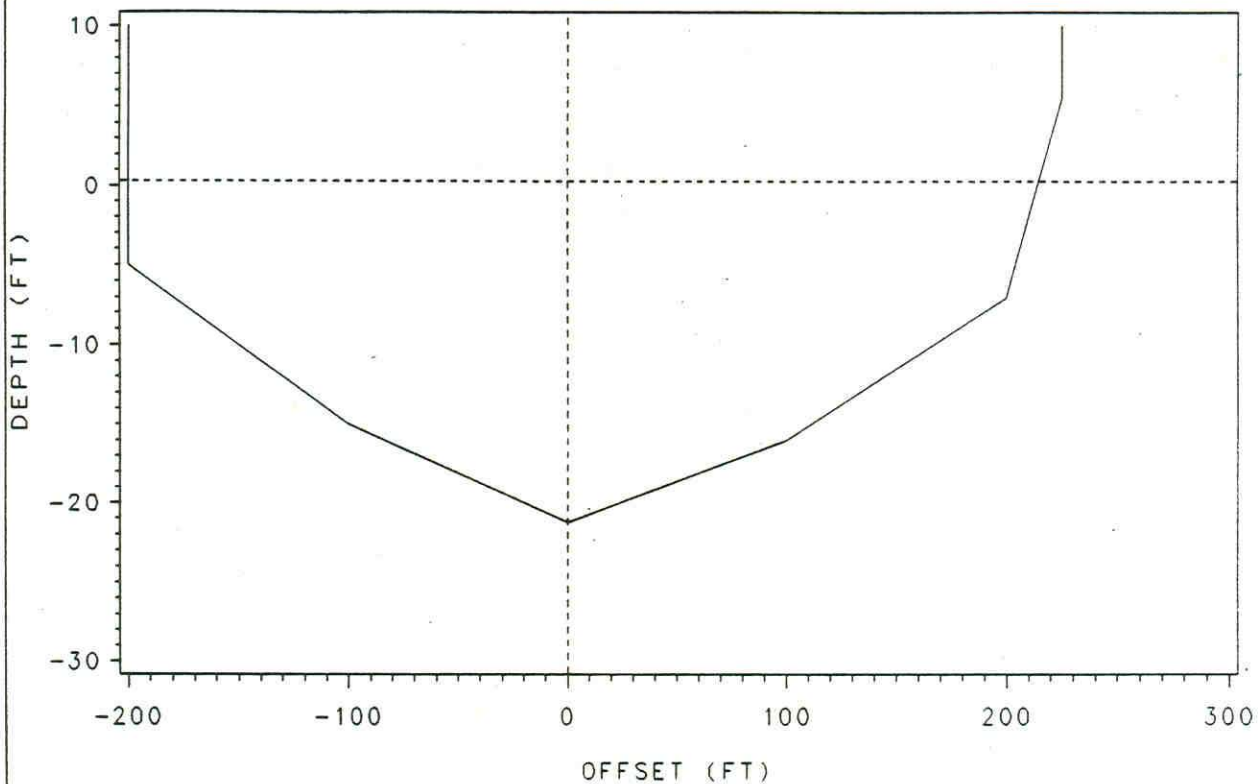
HACKENSACK USCOE REACH 3

SECTION=6 DISTANCE FROM UPSTREAM SECTION (FT)=11520



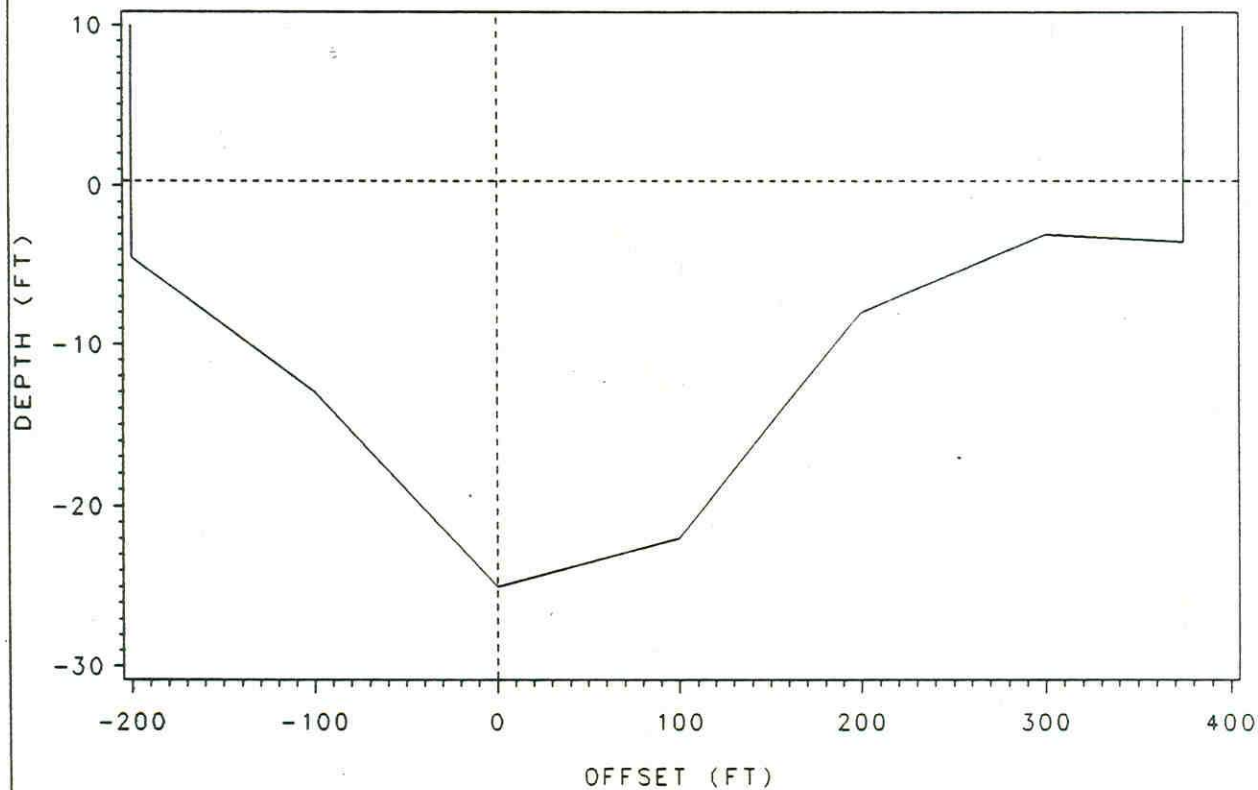
HACKENSACK USCOE REACH 3

SECTION=7 DISTANCE FROM UPSTREAM SECTION (FT)=16115



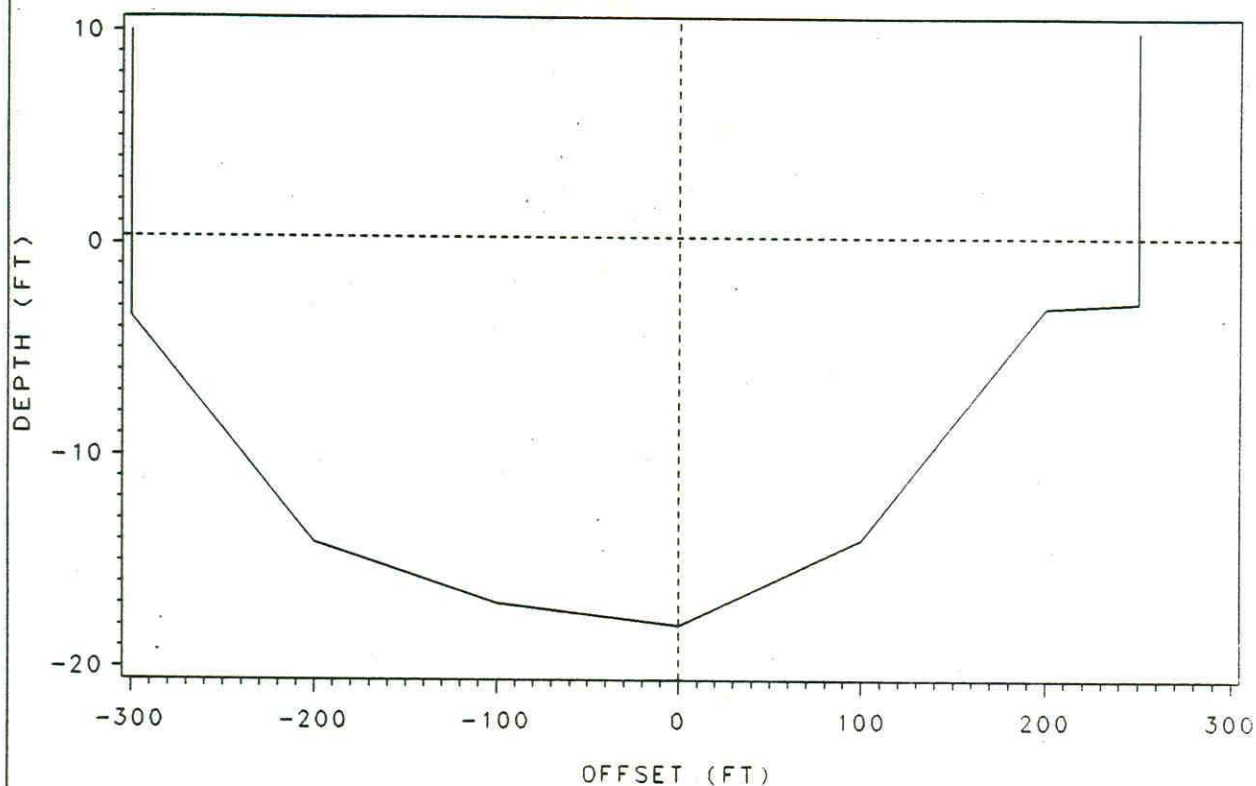
HACKENSACK USCOE REACH 3

SECTION=8 DISTANCE FROM UPSTREAM SECTION (FT)=19175



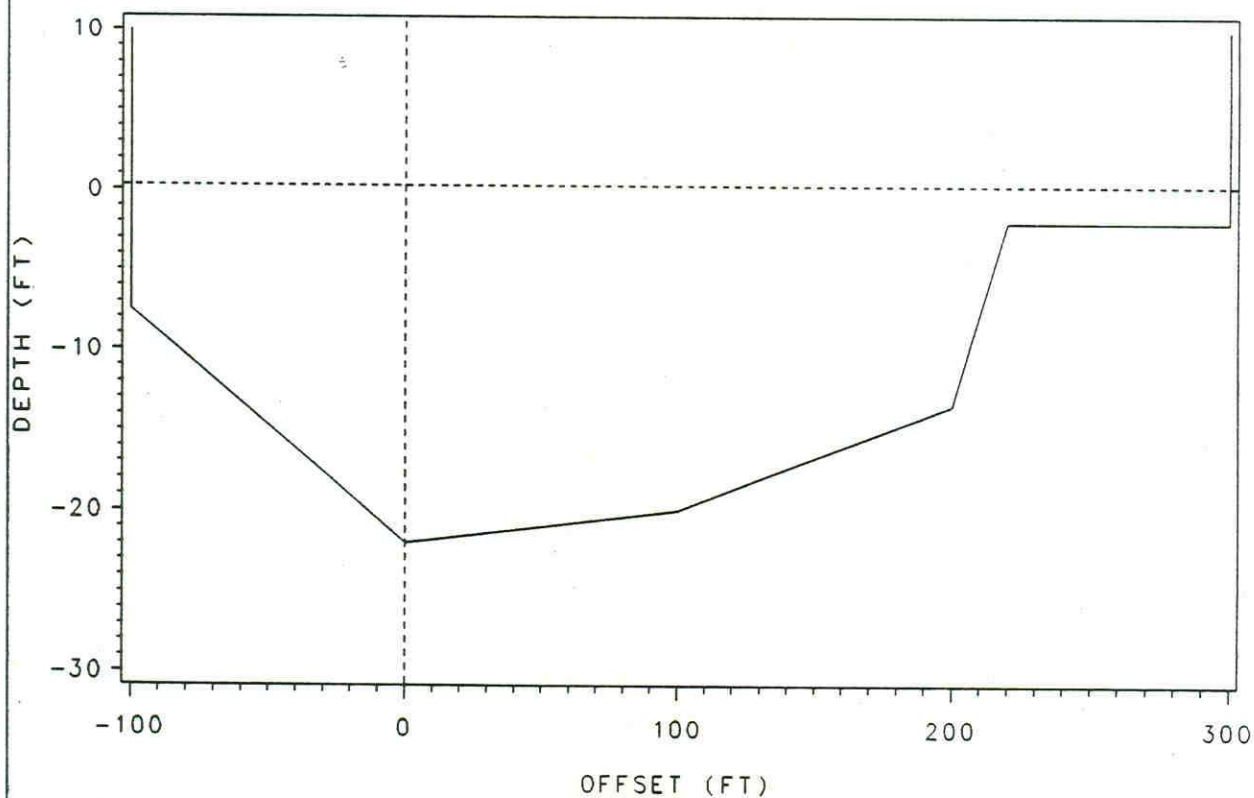
HACKENSACK USCOE REACH 3

SECTION=9 DISTANCE FROM UPSTREAM SECTION (FT)=20717



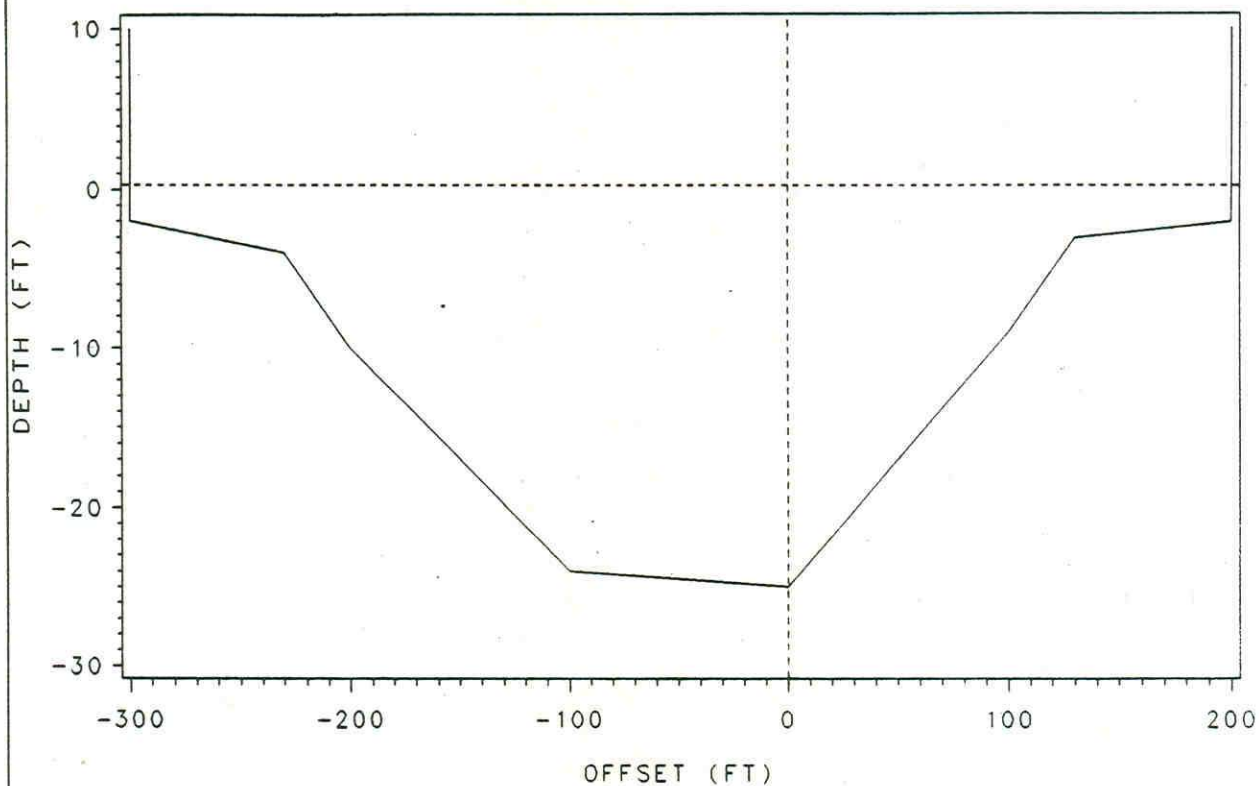
HACKENSACK USCOE REACH 3

SECTION=10 DISTANCE FROM UPSTREAM SECTION (FT)=21635



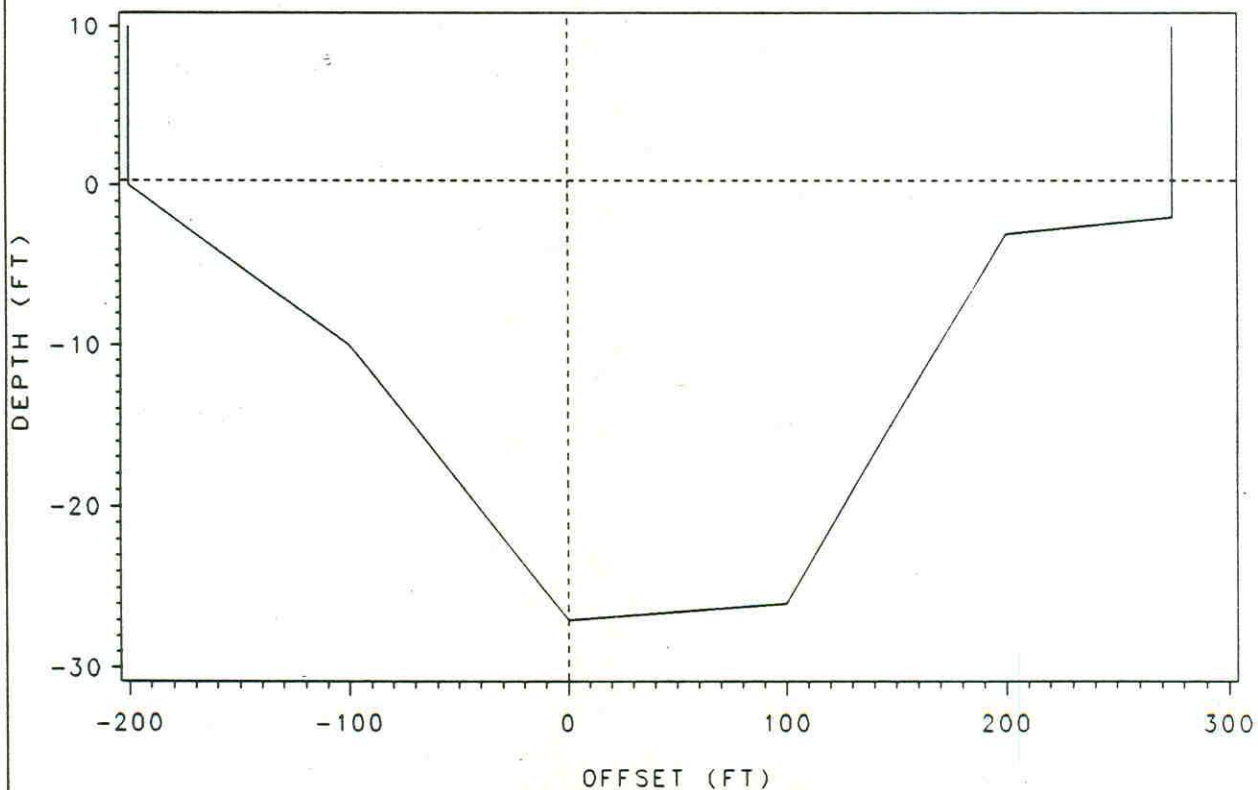
HACKENSACK USCOE REACH 3

SECTION=11 DISTANCE FROM UPSTREAM SECTION (FT)=22020



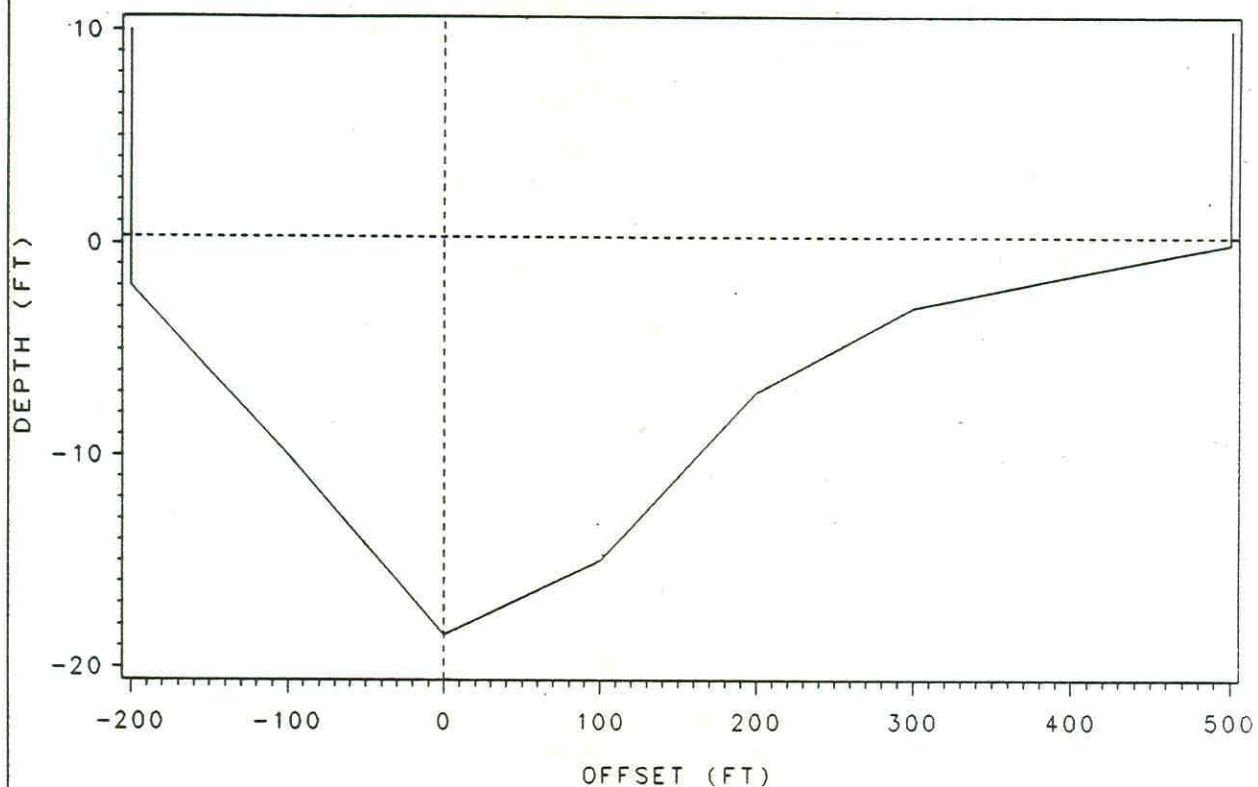
HACKENSACK USCOE REACH 3

SECTION=12 DISTANCE FROM UPSTREAM SECTION (FT)=22690



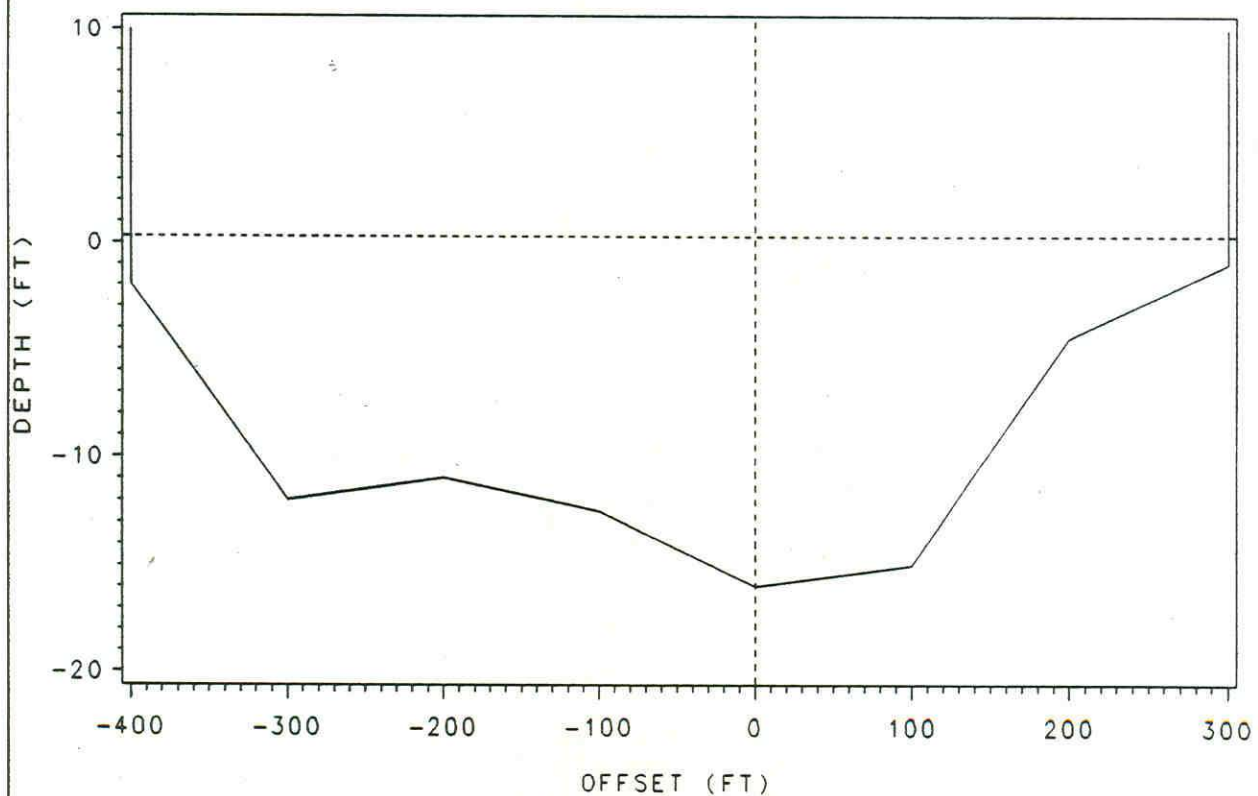
HACKENSACK USCOE REACH 3

SECTION=13 DISTANCE FROM UPSTREAM SECTION (FT)=22985



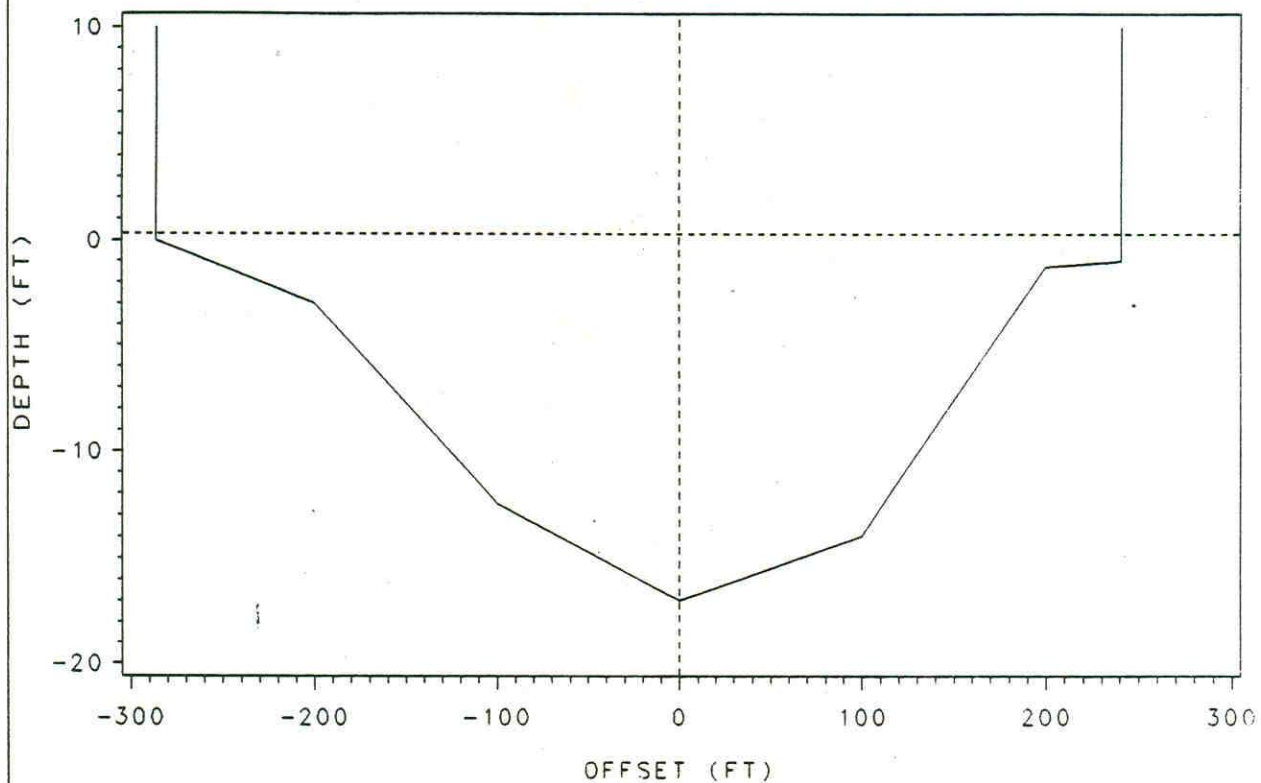
HACKENSACK USCOE REACH 3

SECTION=14 DISTANCE FROM UPSTREAM SECTION (FT)=23757



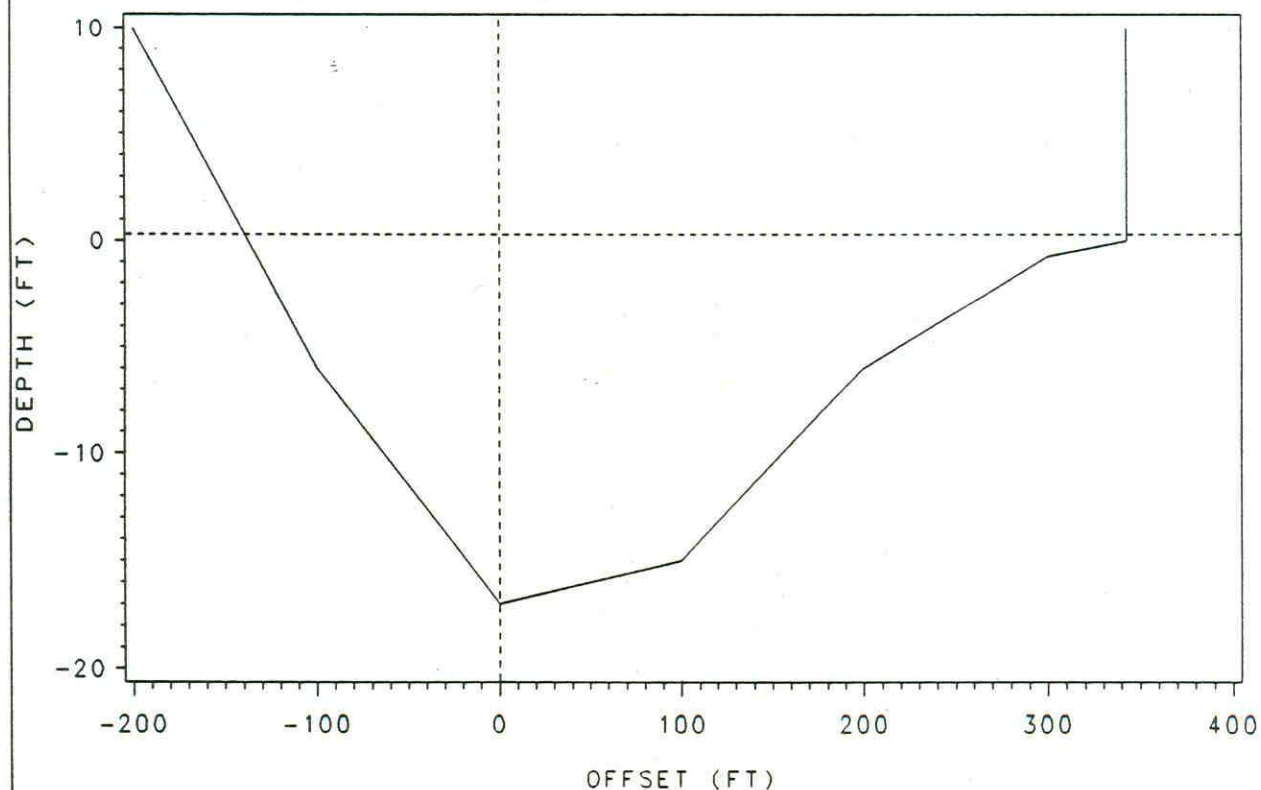
HACKENSACK USCOE REACH 3

SECTION=15 DISTANCE FROM UPSTREAM SECTION (FT)=24880



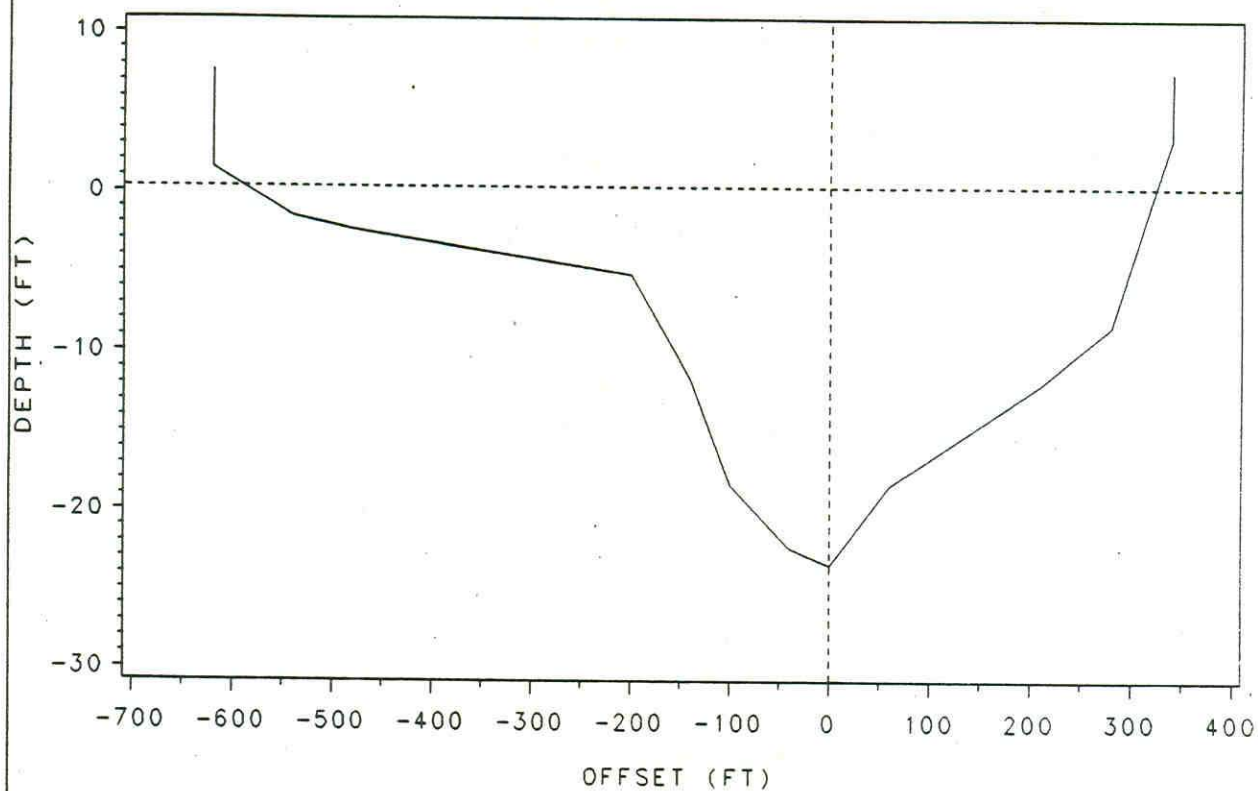
HACKENSACK USCOE REACH 3

SECTION=16 DISTANCE FROM UPSTREAM SECTION (FT)=26512



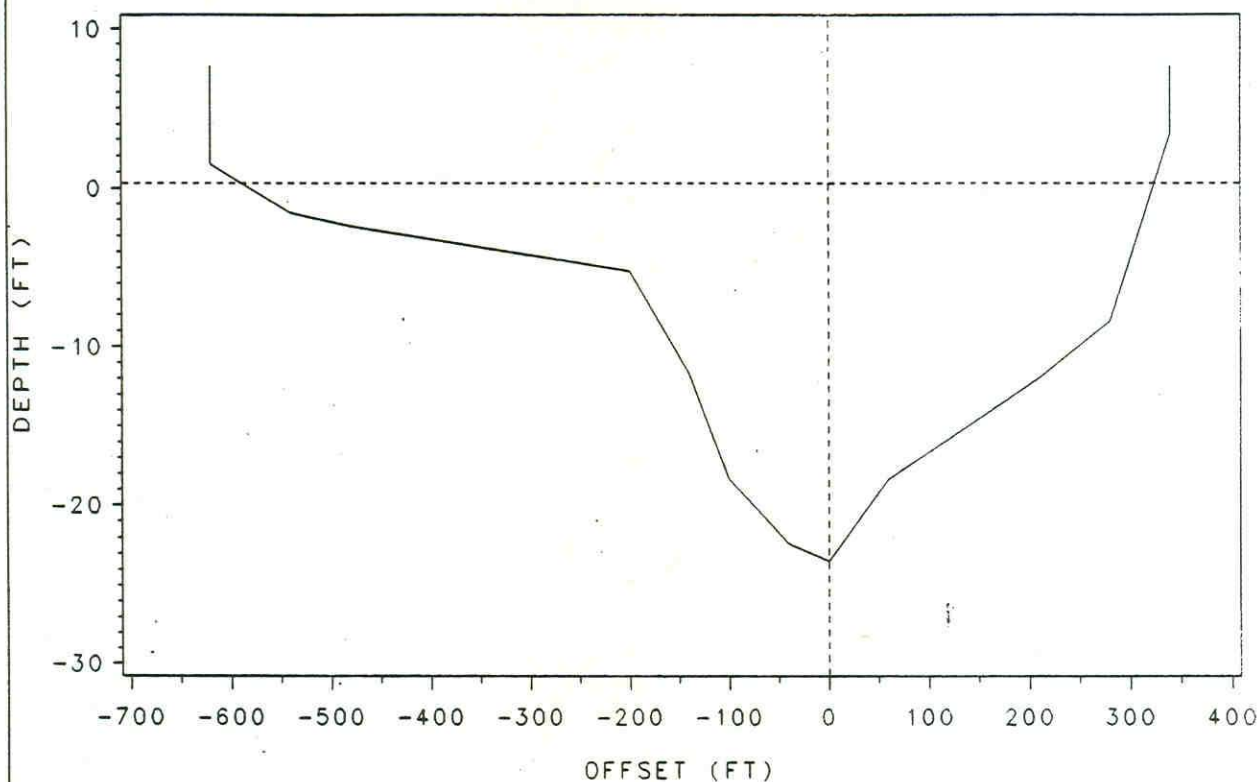
HACKENSACK USCOE REACH 3

SECTION=17 . DISTANCE FROM UPSTREAM SECTION (FT)=27460



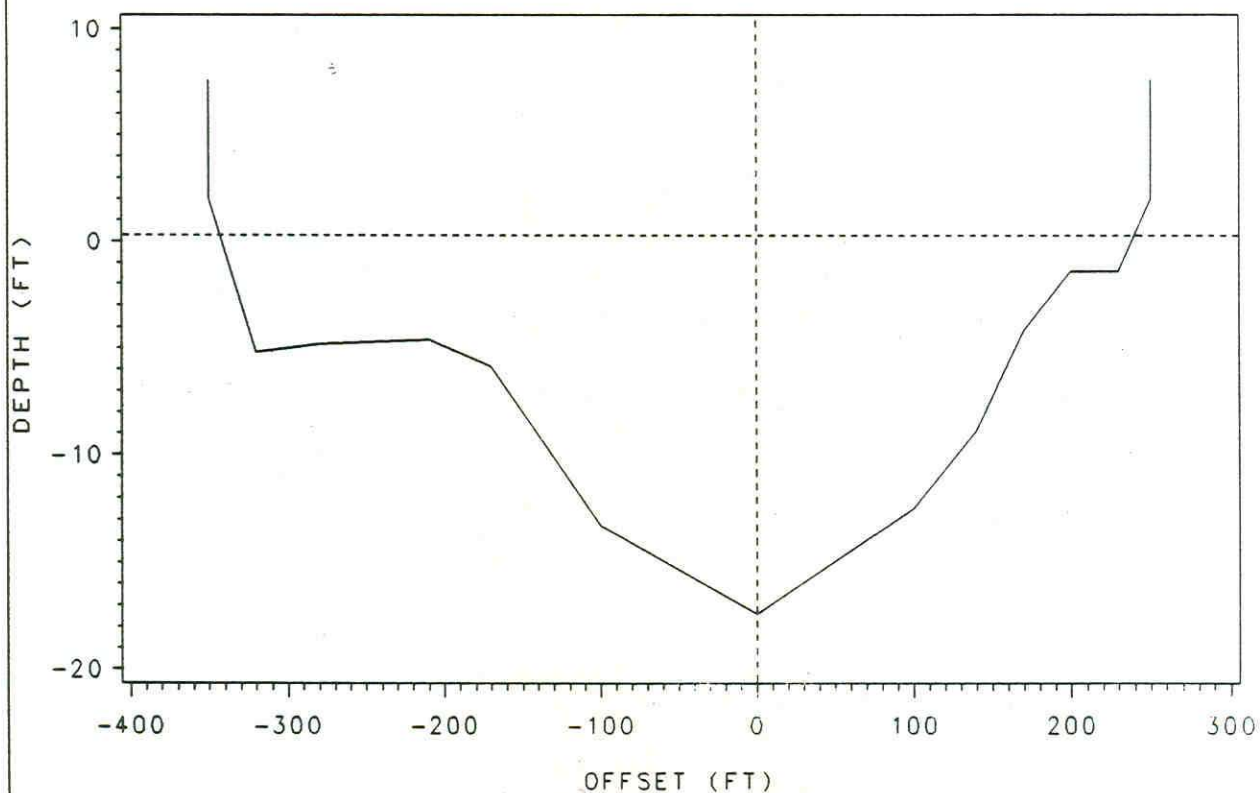
HACKENSACK USCOE REACH 5

SECTION=1 DISTANCE FROM UPSTREAM SECTION (FT)=0



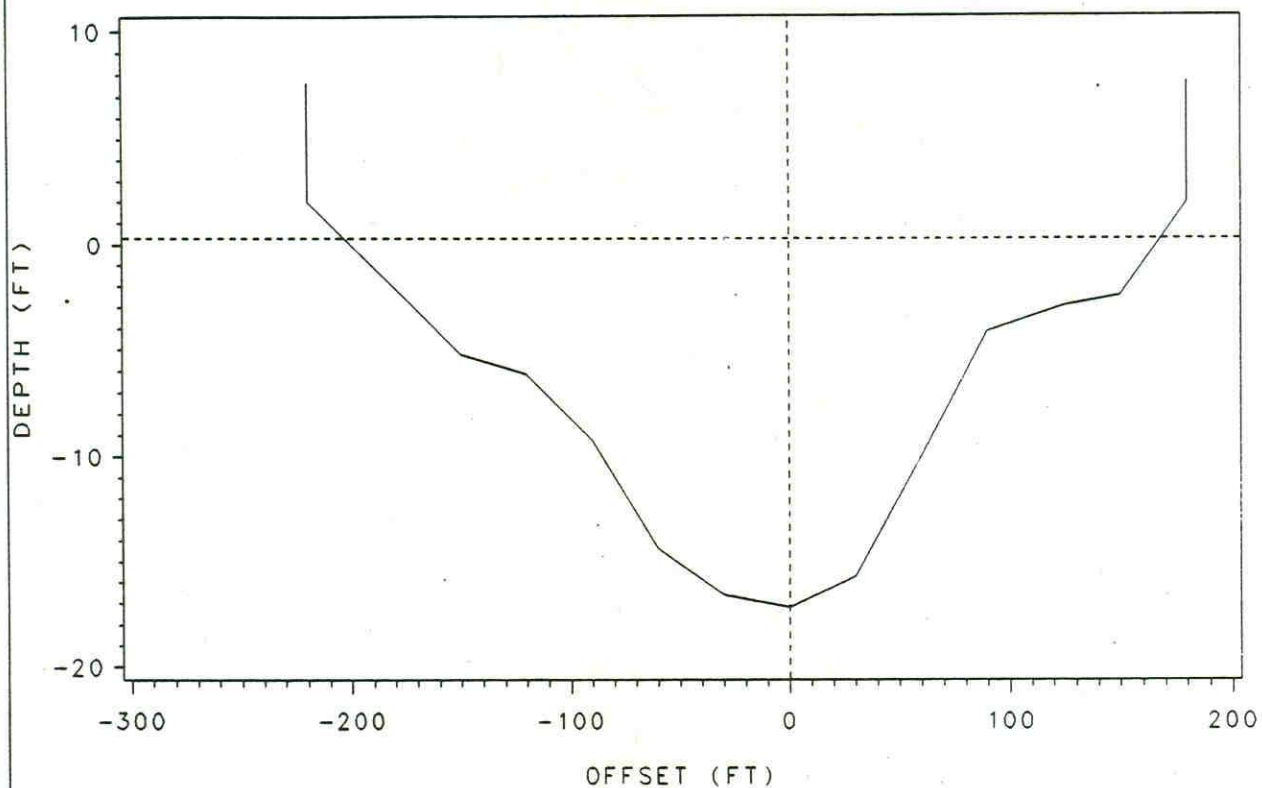
HACKENSACK USCOE REACH 5

SECTION=2 DISTANCE FROM UPSTREAM SECTION (FT)=350



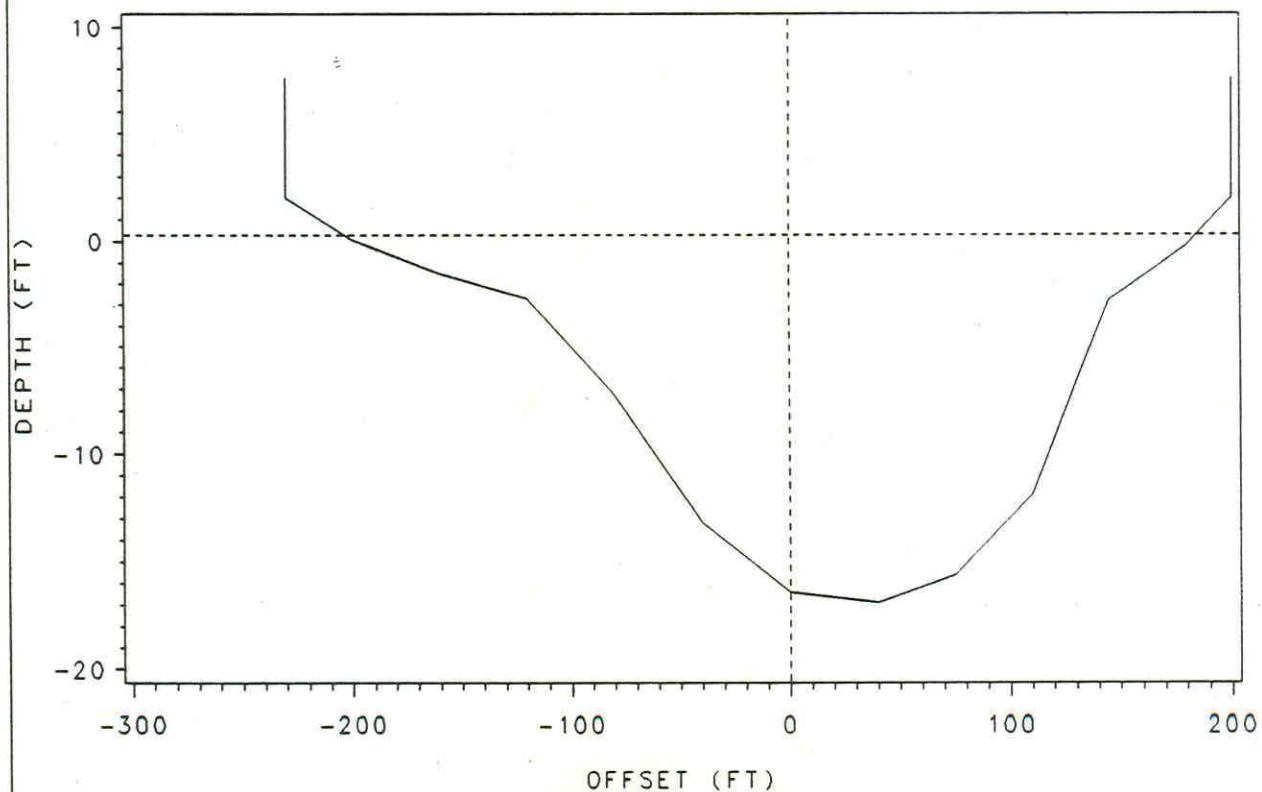
HACKENSACK USCOE REACH 5

SECTION=3 DISTANCE FROM UPSTREAM SECTION (FT)=1570



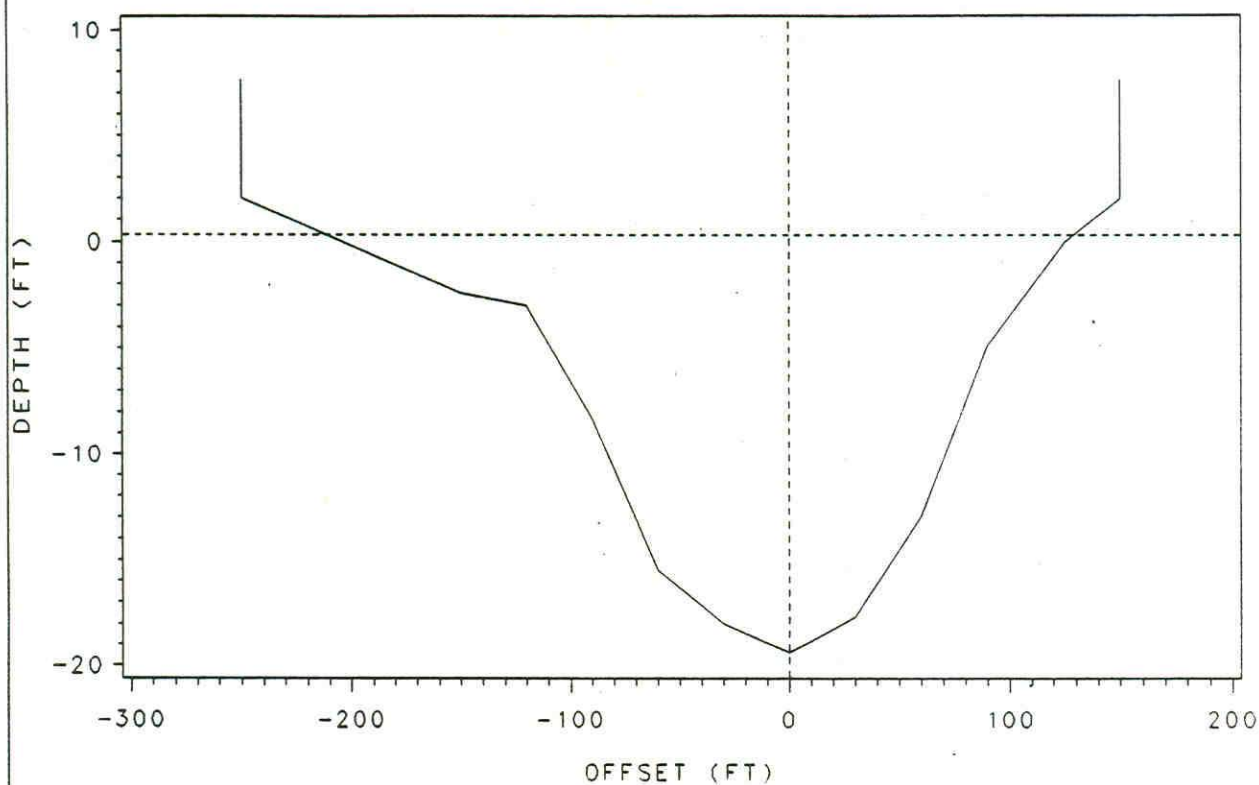
HACKENSACK USCOE REACH 5

SECTION=4 DISTANCE FROM UPSTREAM SECTION (FT)=2805



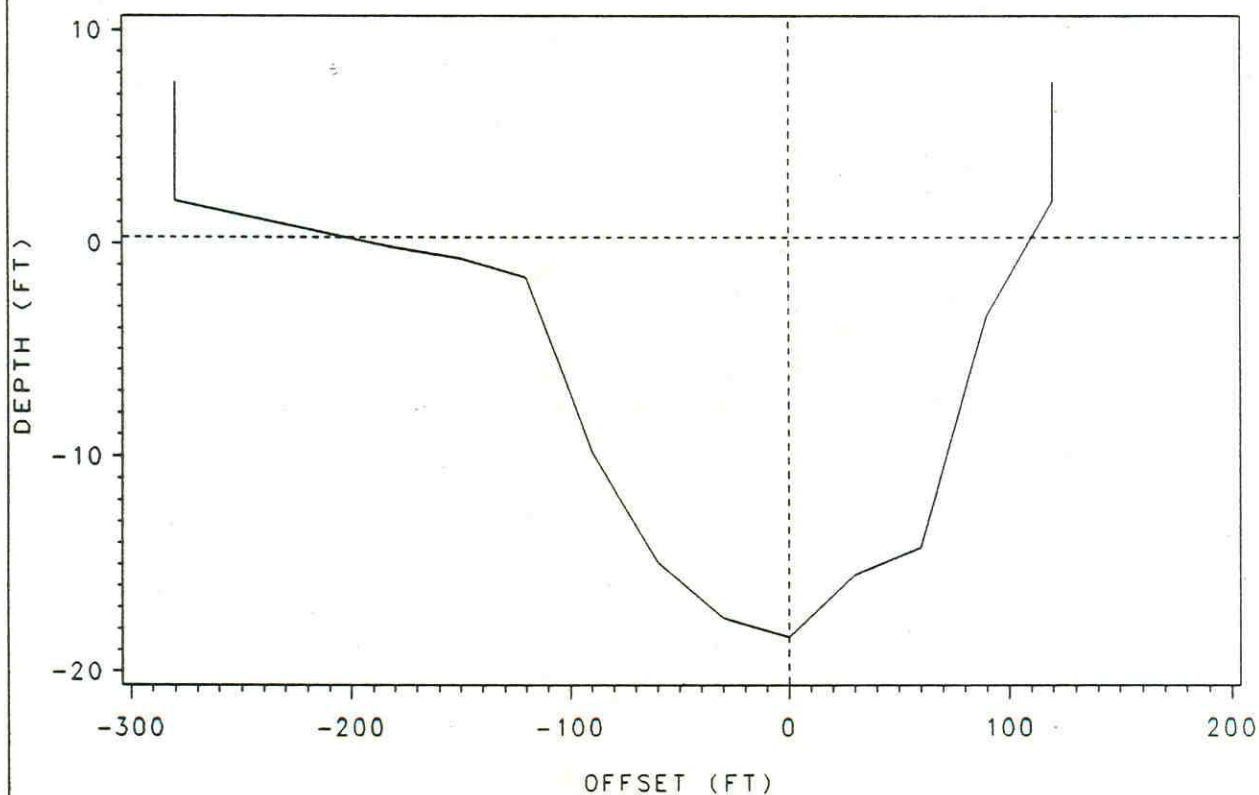
HACKENSACK USCOE REACH 5

SECTION=5 DISTANCE FROM UPSTREAM SECTION (FT)=5055



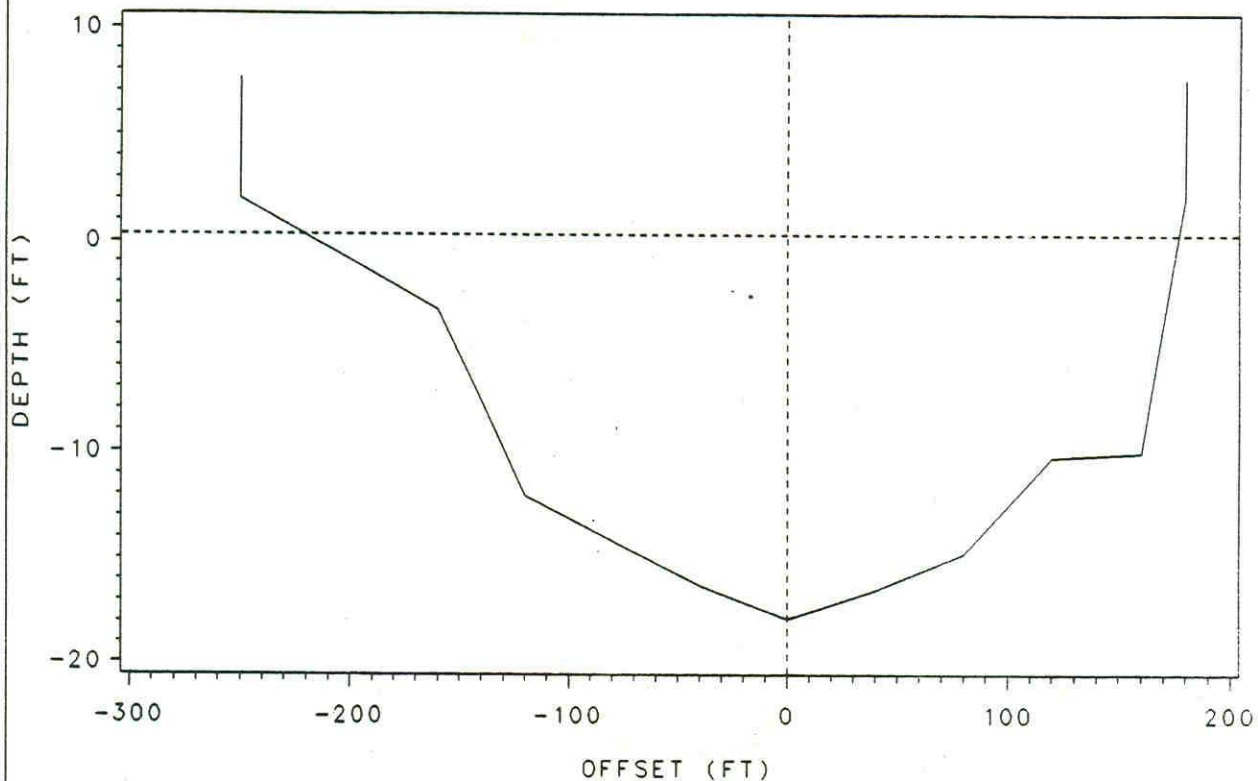
HACKENSACK USCOE REACH 5

SECTION=6 DISTANCE FROM UPSTREAM SECTION (FT)=6915



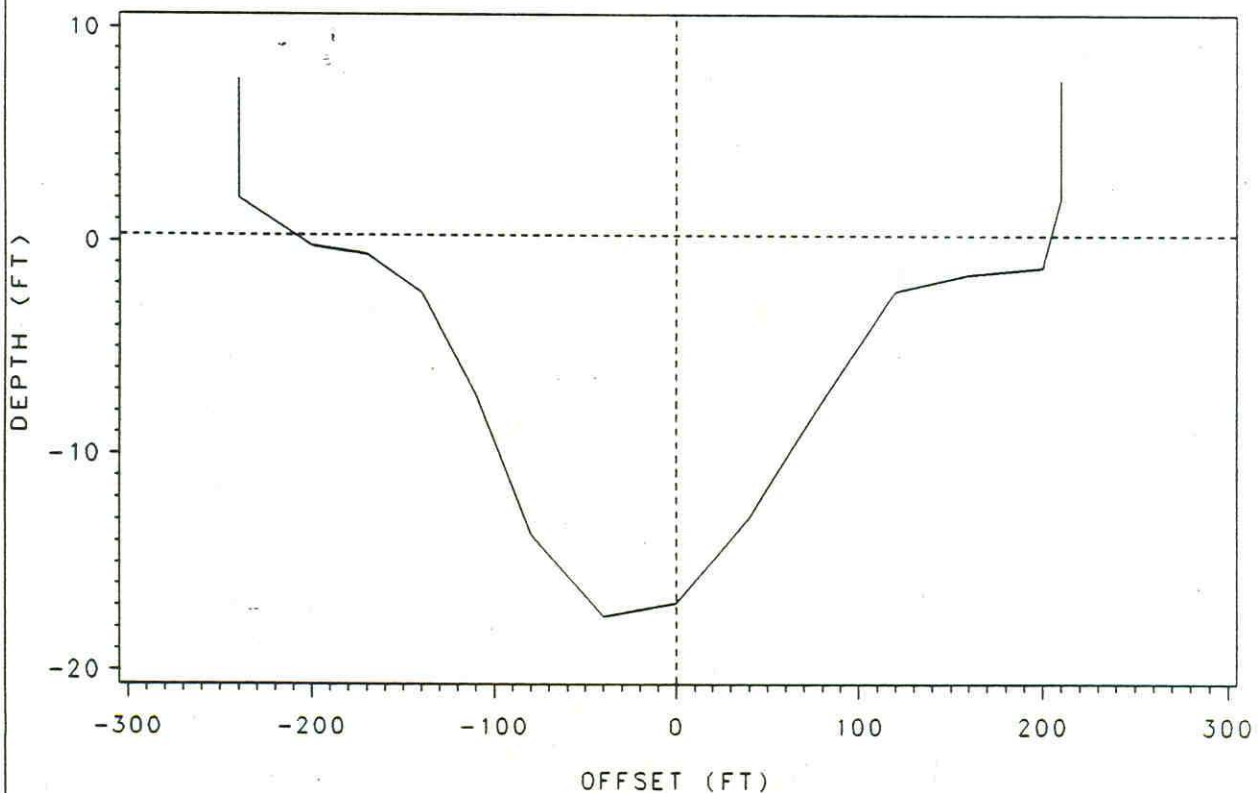
HACKENSACK USCOE REACH 5

SECTION=7 DISTANCE FROM UPSTREAM SECTION (FT)=8015



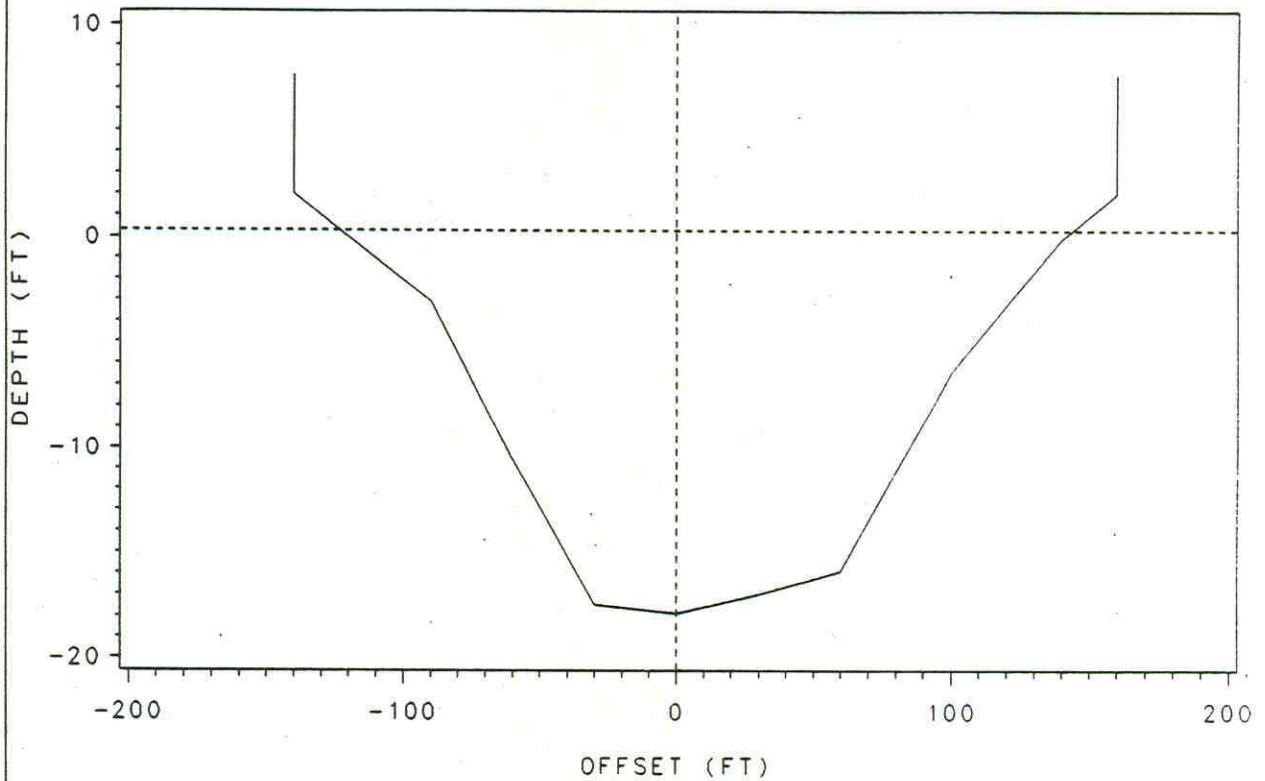
HACKENSACK USCOE REACH 5

SECTION=8 DISTANCE FROM UPSTREAM SECTION (FT)=9755



HACKENSACK USCOE REACH 5

SECTION=9 DISTANCE FROM UPSTREAM SECTION (FT)=11555



HACKENSACK USCOE REACH 5

SECTION=10 DISTANCE FROM UPSTREAM SECTION (FT)=13295

