AD-A062 479 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MISS F/G 9/2
GRAPHICS IN THE CORPS. PROCEEDINGS OF THE COMPUTER GRAPHICS COL--ETC(U)
1978 J M JONES, R L HALL, N RADHAKRISHNAN

UNCLASSIFIED NL

1 OF 2
AD A062479

DDC FILE COPY
AD A062479

GRAPHICS IN THE CORPS

(12)

A062478

LEVEL III

This document has been approved for public release and sale; its distribution is unlimited.

PROCEEDINGS OF THE COMPUTER GRAPHICS COLLOQUIUM

Destroy this report when no longer needed. Do not return
it to the originator.

(6) 12

GRAPHICS IN THE CORPS.

Proceedings of the Computer Graphics Colloquium, 1-3 August 1978, United States Army Engineer Waterways Experiment Station, Vicksburg, Mississippi. Volume II. Abstracts of Computer Graphics Programs,

This document has been approved for public release and sale; its distribution is unlimited.

DDC
RECEIVED
DEC 26 1978
F

(12) 168 p.

(11) 1978

PROCEEDINGS OF THE COMPUTER GRAPHICS COLLOQUIUM

1-3 AUG 1978

VOL II—ABSTRACTS OF COMPUTER GRAPHICS PROGRAMS

(10) Compiled and Edited by:
James M. Jones, Robert L. Hall, and N. Radhakrishnan

U. S. ARMY ENGINEER
WATERWAYS EXPERIMENT STATION
Vicksburg, Mississippi 39180

038 100

PREFACE

Computers are being increasingly used by engineers in solving design and analysis problems. A primary factor contributing to that use is the development of computer graphics techniques. Computer graphics has made the computer a workable tool for the engineer as it gives him more information than pages full of numbers.

Since 1973, the U. S. Army Engineer Waterways Experiment Station (WES) Automatic Data Processing (ADP) Center has been very active in research in computer graphics and promoting interactive graphics applications to field office engineers. The WES ADP Center conducted the first graphics colloquium in February 1975. These efforts were made possible through funds provided by the Computation and Analysis Section, Civil Works Directorate, Office, Chief of Engineers (OCE), to support projects on "Interactive Graphics Programs for Engineering Design" and "Maintenance and Improvement of the Graphics Compatibility System (GCS)." Also, OCE provided R&D support for several graphics projects through the Scientific and Engineering Division, Engineer Information Data Systems Office (EIDSO), under project AT11 (ISRAD).

Since 1975, through the combined efforts of the WES and the OCE, there has been a tremendous growth in computer graphics applications in the U. S. Army Corps of Engineers Division and field offices. This growth was recognized at the October 1977 INFOCORP meeting in which a special Graphics Users Committee (GUC) was established to address the needs for graphics and dissemination of graphics information. Based on the recommendation of the GUC, OCE supported WES in hosting the Second Graphics Colloquium.

The colloquium was held at WES, 1-3 Aug 78. The objective was to bring together people from throughout the Corps who were involved in developing and supporting graphics activities in their offices. Over 100 participants representing 11 Division offices, 22 District offices, and 3 Corps laboratories attended the colloquium. Speakers from the field offices addressed the graphics applications that are currently being pursued by their offices. Speakers from the R&D laboratories

78 12 22 061

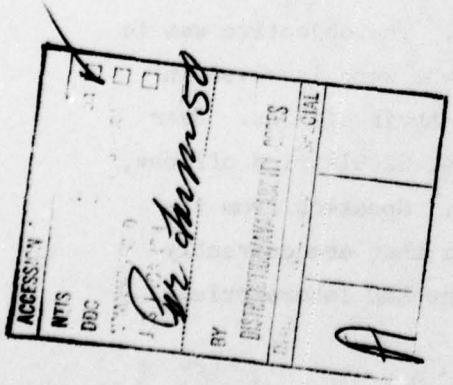
addressed graphics applications developed for field offices' use and other future developments. The interactive and passive workshops informed participants on using existing graphics programs and provided a forum to discuss the future needs of computer graphics.

The Colloquium Proceedings are published in two volumes. All papers and abstracts of the presentations and workshops are included in Volume I. Volume II contains the abstracts of computer graphics programs being used by the Corps' offices.

Several people contributed toward making this colloquium a success. The editors would like to thank all the speakers, authors, and session chairmen for their interest and participation. The following members of the INFOCORP Graphics Users Committee worked enthusiastically to ensure the success of the Conference:

Jim Dahlen, Seattle District
Robert Hall, WES
Bob McMurrer, DAEN-DSE (OCE)
Al Montalvo, Ft. Worth District
Jim Jones, WES
John Lambrecht, Nashville District
Jim Waller, Wilmington District
Don Phillips, Jacksonville District
Ed Stone, Huntington District
Harry Hardin, OCE

These two volumes of the Proceedings were compiled and edited by Messrs. James Jones II, Robert Hall, and Dr. N. Radhakrishnan, ADP Center, WES, under the general supervision of Mr. D. L. Neumann, Chief, ADP Center. Commander and Director of WES during the Colloquium and the preparation of this report was COL John L. Cannon, CE. Mr. Fred R. Brown was Technical Director.



CONTENTS

	Page
PREFACE	1
INTRODUCTION	5
CONSTRUCTION ENGINEERING RESEARCH LABORATORY PROGRAMS	6
COASTAL ENGINEERING RESEARCH CENTER PROGRAMS	8
HYDROLOGIC ENGINEERING CENTER PROGRAMS	27
LOWER MISSISSIPPI VALLEY DIVISION PROGRAMS	29
St. Louis District	31
Vicksburg District	34
MISSOURI RIVER DIVISION PROGRAMS	35
Kansas City District	37
NORTH ATLANTIC DIVISION PROGRAMS	38
Norfolk District	39
Philadelphia District	42
NORTH CENTRAL DIVISION PROGRAMS	47
Detroit District	48
NORTH PACIFIC DIVISION PROGRAMS	49
Seattle District	50
OFFICE, CHIEF OF ENGINEERS PROGRAMS	60
OHIO RIVER DIVISION PROGRAMS	62
Louisville District	64
Nashville District	72
Pittsburgh District	77
SOUTH ATLANTIC DIVISION PROGRAMS	81
Charleston District	83
Jacksonville District	84
Mobile District	96
Savannah District	97
Wilmington District	98
SOUTH PACIFIC DIVISION PROGRAMS	106
South Pacific District	107
Sacramento District	108
SOUTHWESTERN DIVISION PROGRAMS	109
Fort Worth District	110
Little Rock District	115
WATERWAYS EXPERIMENT STATION PROGRAMS	116

	Page
APPENDIX A - PROGRAMS LISTED BY APPLICATION AREA	A-1
Electric	A-2
General	A-3
Hydraulics	A-5
Pavements	A-10
Structures	A-11
APPENDIX B - PROGRAMS LISTED BY GRAPHICS LANGUAGE	B-1
CalComp	B-2
GCS	B-7
Plot 10	B-9
APPENDIX C - PROGRAMS LISTED BY MODE	C-1
Interactive	C-2
Passive	C-6

ABSTRACTS OF COMPUTER GRAPHICS PROGRAMS

Introduction

This volume contains a list of computer graphics programs available in the Corps of Engineers. The list was compiled based on responses to a questionnaire mailed by the Automatic Data Processing Center (ADPC), U. S. Army Engineer Waterways Experiment Station (WES), to all the Corps field offices and on input from several participants attending the Computer Graphics Colloquium held at the WES, 1-3 Aug 78.

Each program listed herein features information on the originating office, a short abstract of the program, the graphics language, and whether the program is interactive or passive. The programs are grouped according to their source. That is, a Division's programs are listed first followed by all the programs of the Districts within that Division.

An on-line index of programs contained in this volume is available in the Boeing Computer network. The index can be sorted and listed according to the originating office, the application area, the graphics language used, or the mode of the program (interactive or passive). To run the program call the Boeing Computer (EKS) and do the following:

```
Get, GPROG/UN=CEROC1
GPROG
```

Listings from the program based on the application area, the graphics language used, and the mode of the program are presented in Appendixes A, B, and C, respectively.

The on-line index can be updated using a program called GUPDATE. To use this program call the Boeing Computer (EKS) and do the following:

```
Get, GUPDATE/UN=CEROC1
GUPDATE
```

The editors feel that the list herein is fairly comprehensive and is in a form that can be revised, enlarged, and updated as necessary.

CONSTRUCTION ENGINEERING RESEARCH LABORATORY PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Janet Spoonamore
Construction Engineering Research Laboratory
Comm 217-352-6511, FTS 958-731J

B. Name of program.
SEARCH

C. Computer used to execute program.
Amdahl 470 (mich Term. System)

D. Program number.

E. Programming language used.
(1) Applications. PL1/FORTRAN
(2) Graphics. IG

F. Graphics equipment needed to support applications.
Storage tube + ALPHA hard copy (MPX) digitizer

G. Relationship to other programs (i.e., generates data for HEC2).
A module of CAEADS

H. Stage of documentation.
Users' manual
System documentation in progress

I. Brief description of program capabilities.
SEARCH provides digitizing of architectural drawings, displays them on the screen, and evaluates designs against established criteria.

COASTAL ENGINEERING RESEARCH CENTER PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
THRED

C. Computer used to execute program.
CDC 6600

D. Program number.
803X6R1AQ0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.
1. Modified version of CalComp
2. Modified version of CalComp preview routines for Tektronix 4006 and 4010 series Plot 10

F. Graphics equipment needed to support applications.
1. Benson Lehner 305 or CalComp equivalent
2. Tektronix 4006 and 4010 series

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Generalized 3D package

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
OUTPUT

C. Computer used to execute program.
CDC 6600

D. Program number.
722X6R19KC

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
Input tape is generated from program TWODS (722XGR19KA)

H. Stage of documentation.
Preliminary

I. Brief description of program capabilities.
Prints tables of:
1. Water levels and currents at specific time intervals
2. Maximum water levels
3. Observed and computed water levels
Generates hydrograph plots for up to 20 grid blocks

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
INLET 2 - A lumped parameter numerical model to predict inlet velocities, discharge, and bay level

C. Computer used to execute program.
CDC 6600

D. Program number.
752X6R1AN0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Computes tables and plots of water levels, discharge, and inlet velocities

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
HPVST

C. Computer used to execute program.
CDC 6600

D. Program number.
720X6R1AXA

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent.

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots significant wave height and peak spectral period data vs time

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
SPECT

C. Computer used to execute program.
CDC 6600

D. Program number.
720X6R13A0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
1 source of input generated from program WAVES (720X6R127B)

H. Stage of documentation.
Preliminary

I. Brief description of program capabilities.
1. Computes longshore energy flux factors
2. Plots fraction of wave energy vs frequency

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
SCATTER - Scatter plot of significant wave heights and periods

C. Computer used to execute program.
CDC 6600

D. Program number.
704X6R1BL0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Near completion

I. Brief description of program capabilities.
Computes statistical parameters and generates scatter plot for significant wave height and period data from 2 sources

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
XPDIR

C. Computer used to execute program.
CDC 6600

D. Program number.
720X6R12L0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Preliminary

I. Brief description of program capabilities.
Plots high resolution energy spectra of waves

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
DTSA Digital Time Series Analysis

C. Computer used to execute program.
CDC 6600

D. Program number.
704X6R18M0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Preliminary

I. Brief description of program capabilities.
Performs time series analysis of water current meter data

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
WINDRO - Plot of Wind Rose

C. Computer used to execute program.
CDC 6600

D. Program number.
720X6R1980

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots wind rose based on Littoral Environmental Observation data

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
WAVEHR - Plot of Wave Height Rose

C. Computer used to execute program.
CDC 6600

D. Program number.
720X6R1970

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Calculates percentages of wave heights for compass directions and plots a wave height rose based on Littoral Environmental Observation data

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
WAVEPR - Plot of Wave Period Rose

C. Computer used to execute program.
CDC 6600

D. Program number.
720X6R1330

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Calculates percentages of wave periods from compass directions and plots a wave period rose based on Littoral Environemtnal Observation data

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
SURPRO

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R11T0

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots beach survey profiles

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
SURVY1

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R1BJC

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Computes tables and plots of surveyed profile data, mean contour positions, and contour migrations

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
SURVY2

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R1BJD

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Computes tables and plots of profiles, contour positions, and contour position migrations

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
BEACH

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R1BJE

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Sample I/O, computational procedures, design specifications, and flow chart program not written

I. Brief description of program capabilities.
Computes tables and plots of beach changes through shoreline position migration and unit volume changes

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
VOLCTR

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R1BJF

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Same as BEACH; program under development

I. Brief description of program capabilities.
Computes tables and plots of volume changes at a profile line at each contour from one survey to the next

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
MEANS

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R1BJG

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Same as BEACH; program not written

I. Brief description of program capabilities.
Computes tables and plots of mean unit volume and mean shoreline positions

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Preston C. Pierce
Coastal Engineering Research Center
325-7410

B. Name of program.
ELVDIS

C. Computer used to execute program.
CDC 6600

D. Program number.
733X6R1BJH

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Modified version of CalComp

F. Graphics equipment needed to support applications.
Benson Lehner 305 or CalComp equivalent

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Same as BEACH; program not written

I. Brief description of program capabilities.
Computes tables and plots depicting elevation (max, min, and changes) at specific distances on a profile line

HYDROLOGIC ENGINEERING CENTER PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Hydrologic Engineering Center

B. Name of program.
HEC1
HEC2

C. Computer used to execute program.
LBL
BCS

D. Program number.

E. Programming language used.
(1) Applications.
(2) Graphics.

F. Graphics equipment needed to support applications.
Line printer
Tektronix
CalComp

G. Relationship to other programs (i.e., generates data for HEC2).
Simple output display on line printer
Pre- and post-graphical display (input data/results)

H. Stage of documentation.

I. Brief description of program capabilities.
HEC1, HEC2 } standard line printer graphics
Additional capability is under development for graphically previewing input data to HEC2 as well as displaying output results on Tektonrix and CalComp devices

LOWER MISSISSIPPI VALLEY DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Lower Mississippi Valley Division
River and Reservoir Control Center
6761

B. Name of program.
Zeus

C. Computer used to execute program.
INFONET

D. Program number.
None

E. Programming language used. Not known
(1) Applications.
(2) Graphics.

F. Graphics equipment needed to support applications.
Tektronix and Hardcopier

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
1. Provides for up to 4-degree polynomial curve-fitting of stage discharge data
2. Generates rating table from computed coefficients
3. Provides automated stage-to-stage routing
4. Provides graphical data display
5. Provides a data file system which provides the data base for the various routines used

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Brian Kleber/Gerald Willick
St. Louis District
LMSED-FI /LMSAC-S
268-2734 /268-5176

B. Name of program.
INSTRUMENTATION DATA PLOT SYSTEM (under development)

C. Computer used to execute program.
GE635/TK4051

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN/Basic
(2) Graphics. TK Software

F. Graphics equipment needed to support applications.
TK 4051 Graphic Calculator
TK 4662 Plotter
TK 4907 Flexible Disc
TK 4631 Hard Copy Unit

G. Relationship to other programs (i.e., generates data for HEC2).
Survey input preprocessed by McAuto COGO

H. Stage of documentation.
Under development

I. Brief description of program capabilities.
The system will produce plot instrumentation data in accordance with the requirements of ER 1110-2-100 and DIVR 1110-1-310

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
   John J. Jobst
   St. Louis District
   LMSAC-S
   314-268-5176 (FTS 278-5176)

B. Name of program.
   FORAW - A graphics display program for the results from pile analysis programs

C. Computer used to execute program.
   BCS
   WES
   MACON

D. Program number.
   None yet

E. Programming language used.
   (1) Applications. FORTRAN/GCS
   (2) Graphics.

F. Graphics equipment needed to support applications.
   Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
   Graphics display of output of various pile analysis programs:
   Rigid base pile analysis
   Pile optimization
   Appile (W/SLD post processor)

H. Stage of documentation.
   Preliminary in-house user notes

I. Brief description of program capabilities.
   Display pile geometry, various load factors and forces associated with each pile by load case, and worst case for each pile

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
John J. Jobst
St. Louis District
LMSAC-S
314-268-5176 (FTS 278-5176)

B. Name of program.
PILEGEN - An interactive graphics program for the generation and display of pile geometry data

C. Computer used to execute program.
BCS
WES
MACON

D. Program number.
None yet

E. Programming language used.
(1) Applications. FORTRAN/GCS
(2) Graphics.

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Generate data for rigid base B pile analysis programs

H. Stage of documentation.
Preliminary in-house user notes

I. Brief description of program capabilities.
Can create or update data files for these programs. Can display current file at any time. Can generate single pile, rectangular zones of pile circular arcs of pile. Can delete single or groups of pile. Will be able to rotate zones or entire layout. Can display zone currently being generated. Can list zone currently being generated or current file

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Freddie Rush
Vicksburg District
636-1311, Ext 485

B. Name of program.
LIGHT - used to calculate and plot area lighting levels

C. Computer used to execute program.
WES G-635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014 and 4631

G. Relationship to other programs (i.e., generates data for HEC2).
Uses DAFILE and HIWHYN vs data files. Writes or prints

H. Stage of documentation.
Fair

I. Brief description of program capabilities.
LIGHT is used as a design aid for outdoor lighting. Given data describing the fixture patterns, their mounting heights, and locations, the program generates a contour plot of the area lighting levels

MISSOURI RIVER DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Bill Saint
Missouri River Division
FTS 864-7243

B. Name of program.
General Plot

C. Computer used to execute program.
GE 437 Omaha, NE
CDC 7600 Berkeley, CA

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Input formats

I. Brief description of program capabilities.
Two-dimensional plots options:

Grid Size	X and/or Y	Symbol Sizing	
Grid Scaling	X and/or Y	Axis Scaling	Yes or No
Grid Reduction-exp.	X and/or Y	Special Notes	Yes or No
Grid Plot	Yes or No	3 Pen Positions	1 and/or 2 and/or 3
Legend	Yes or No	2 X-Y Card Formats	Omaha and HEC2
Header	Yes or No	1 X-Y Tape Format	
		8 Line Codes	
		92 Symbol Codes	

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Archie Gatrost, Design Branch
Kansas City District
FTS 758-3235

B. Name of program.
SUPERB

C. Computer used to execute program.
UNI 1108

D. Program number.

E. Programming language used.
(1) Applications.
(2) Graphics.

F. Graphics equipment needed to support applications.
Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
100%

I. Brief description of program capabilities.
The program has the capability to generate input data interactively, edit data, generate Tektronix geometry plots, and display geometry plots.

NORTH ATLANTIC DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Ralph Moses/Wesley Fager
Norfolk District
804-446-3621

B. Name of program.
Passive Plot of Backwater Cross-Sections Including Bridges

C. Computer used to execute program.
CDC 7600

D. Program number.
722X8E4030

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 1039 Drum Plotter with 921 Controller

G. Relationship to other programs (i.e., generates data for HEC2).
Uses standard HEC2 input deck

H. Stage of documentation.
Documentation complete

I. Brief description of program capabilities.
Program reads standard backwater deck and generates plots from data off X1, GR, and BT cards

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard Landin/Wesley Fager
Norfolk District
804-446-3523

B. Name of program.
A Computer Program for Contouring the Output of Finite Element Programs (Passive)

C. Computer used to execute program.
CDC 7600

D. Program number.
704X8E4-236

E. Programming language used.
(1) Applications. FORTRAN extended
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 1039 Drum Plotter with 921 Controller

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Documentation complete

I. Brief description of program capabilities.
This is a WES-developed program. It is used to generate contours from data using the finite element method

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard Landin
Norfolk District
804-446-3524

B. Name of program.
Design Activity Military - Bar Chart Plot (Passive)

C. Computer used to execute program.
GE 400

D. Program number.
604F5E402H

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 1039 Drum Plotter with 921 Controller

G. Relationship to other programs (i.e., generates data for HEC2).
Extracts data from the Design Activity Military Program data base

H. Stage of documentation.
Documentation complete

I. Brief description of program capabilities.
Using dates extracted from the Design Activity Military program, a bar chart is generated showing the progress schedule of the various stages of each project

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Carl B. Doughty
Philadelphia District
215-597-4790

B. Name of program.
RIVER BASIN PLOT

C. Computer used to execute program.
CDC 7600

D. Program number.
F23-F9 E5040

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
Autotrol Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Plots cross-sections of GR, BT data from HEC2 input data

H. Stage of documentation.
Write-up

I. Brief description of program capabilities.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Carl B. Doughty
Philadelphia District
215-597-4790

B. Name of program.
BACKWATER PROFILE PLOT

C. Computer used to execute program.
CDC 7600

D. Program number.
723-F9-E5080

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
Autotrol Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Uses output from HEC2

H. Stage of documentation.
Abstract

I. Brief description of program capabilities.
Up to 12 profiles, variable scales

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Carl B. Doughty
Philadelphia District
215-597-4790

B. Name of program.
HEC2 Sector Plot for Tektronix Graphics Terminal

C. Computer used to execute program.
UNIVAC 1108 (will be converted to Boeing)

D. Program number.
723-F8-E5050

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
Tektronics Graphics Terminal

G. Relationship to other programs (i.e., generates data for HEC2).
Plots GR and BT cross-sections for HEC2 input deck

H. Stage of documentation.
Write-up

I. Brief description of program capabilities.
Plots bridges and GR data superimposed; recursive windowing of screen display; optional scales and grid display

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Carl B. Doughty
Phildelphia District
215-597-4790

B. Name of program.
Monthly Reservoir Regulation-Report

C. Computer used to execute program.
CDC Cyber (Boeing)

D. Program number.
724-F9-E5051

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
Autotrol Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Write-up

I. Brief description of program capabilities.
Plots daily inflow, outflow, storage, and stage for reservoirs

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Carl Doughty
Philadelphia District
215-547-4790

B. Name of program.
AUTOTAPE RANGE/RANGE CHART PLOT

C. Computer used to execute program.
1108 (INFONET) (will be converted to Boeing)

D. Program number.
733-F8-E5090

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
Autotrol Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Write-up

I. Brief description of program capabilities.
Plots range/range charts for use in navigation of dredges

NORTH CENTRAL DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Detroit District
8-226-6448

B. Name of program.

C. Computer used to execute program.
BCS

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
AJ 832 or Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Generates quantities for dredging operations

H. Stage of documentation.

I. Brief description of program capabilities.
Plots x-sections showing proposed channel configuration vs existing channel configuration for shipping channel (verifies data validity)

NORTH PACIFIC DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Tony Stelmack
Seattle District
764-3696, FTS 399-3696

B. Name of program.
Drogue Track and Sounding Plot

C. Computer used to execute program.
IBM 370-155

D. Program number.
803-K5-G323

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter and 925 Controller

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Finished

I. Brief description of program capabilities.
Plots chart of drogue tracks identifying drogues by line type and color and showing directions of movement, times observed, velocity, and depths. Draws chart with title block, scale, labeled reference points, and tide chart for period of observation

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Tony Stelmack
Seattle District
764-3696, FTS 399-3696

B. Name of program.
Photogrammetric Measurement of Movement - Error Ellipse Plot

C. Computer used to execute program.
IBM 370-155
HARRIS S120/4

D. Program number.
733-K5-G318F
733-E1-G318G

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter with 925 Controller
or Gerber 4343 Plotter with Model 4300/4400 Controller

G. Relationship to other programs (i.e., generates data for HEC2).
Utilizes data generated by program 735-K5-G318E,
Photogrammetric Measurement of Movement - Rigorous Method

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Utilizing the locations of points determined photogrammetrical (by Program 733-K5-G318E), this program calculates apparent displacement and error ellipse of displacement vector. Plots map overlay (or on the Gerber plotter - directly on a print). Plot produced using user-set parameters for map size, orientation, and scale, and separate displacement scale.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
Profile Plot

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G308

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
100% Complete

I. Brief description of program capabilities.
Draws a profile grade plot

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
Roadway Design System (RDS)

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G310

E. Programming language used.
(1) Applications. FORTRAN, IBM 360 ASSEMBLER
(2) Graphics. CalComp, FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
100% Complete

I. Brief description of program capabilities.
Plots roadway x-sections, profile, horizontal alignment, roadway surface contours, and geometric data

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
3D-GRAPHICS

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G320

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
100% Complete

I. Brief description of program capabilities.
Draws plan, front, side, x-section, isometric, diometric, stereopairs, and perspective plots and calculates surface area and volume of an enclosed 3-dimensional structure defined by points and planes

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
HIGHWAY PERSPECTIVES

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G322

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp or Tektronix plot 10 FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter or Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Roadway Design System (RDS) generates data for this program

H. Stage of documentation.
100% complete as part of RDS

I. Brief description of program capabilities.
Draws perspective plots of highways

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
X-SECTION PLOT

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G316

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Preliminary

I. Brief description of program capabilities.
Plots North Pacific Division cross-section cards, types, 0, 1, and 2

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
COORDINATE POINT PLOT AND ANNOTATION

C. Computer used to execute program.
IBM 370/155
HARRIS 120

D. Program number.
803-K6-G309

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, FORTRAN; Gerber CalComp compatibility, FORTRAN

F. Graphics equipment needed to support applications.
CalComp Plotter or Gerber Plotter

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
100% complete

I. Brief description of program capabilities.
Plots coordinates within rectangular boundary and labels each with descriptive information

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
General purpose plot

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G310

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, FORTRAN; Gerber CalComp compatibility, FORTRAN

F. Graphics equipment needed to support applications.
CalComp plotter
Gerber plotter

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
90% complete

I. Brief description of program capabilities.
Allows the user to use all CalComp basic and functional software without the need to compile and link a program

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jim Dahlen
Seattle District
FTS 399-3696

B. Name of program.
DAILY STREAMFLOW PLOT

C. Computer used to execute program.
IBM 370/155

D. Program number.
803-K5-G303

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, FORTRAN; Gerber CalComp compatibility, FORTRAN

F. Graphics equipment needed to support applications.
CalComp plotter or
Gerber plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Receives data from a preliminary program

H. Stage of documentation.
100% complete

I. Brief description of program capabilities.
Draws discharge vs time

OFFICE, CHIEF OF ENGINEERS PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Rod Wells
Office, Chief of Engineers,
MC Directorate
Office of Plans and Studies

B. Name of program.
Principally using graphics programs developed for use on Tektronix 4051 mini all using IBM 370 at Univ. of Michigan

C. Computer used to execute program.
Tektronix 4051

D. Program number.
N/A

E. Programming language used.
(1) Applications. Basic
(2) Graphics. Basic

F. Graphics equipment needed to support applications.
Tektronix 4051 and Tektronix 4662 Digitzer/Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
N/A

H. Stage of documentation.
Not required. Systems No

I. Brief description of program capabilities.
Multifunctional programs

OHIO RIVER DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard Beharry
Ohio River Division

B. Name of program.
GCGP2 Contour Plotting, Reservoir Operation Plots
Commodity Tunnage Traffic, Stage Forecasts } Plot 10

C. Computer used to execute program.
CSC UNIVAC 1108

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics.

F. Graphics equipment needed to support applications.
CalComp 936, Tektronix CRT

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
None

I. Brief description of program capabilities.
Plots monthly rainfall
Plots yearly barge traffic by mile/commodity

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Nancy L. Wolf
U. S. Army Engineer District, Louisville
FTS 352-5650

B. Name of program.
Hydrographic Survey Data Plot

C. Computer used to execute program.
UNIVAC 1108

D. Program number.
7338240P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Gerber PSP

F. Graphics equipment needed to support applications.
Gerber 4300 "super plotter"/4343 controller

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Program being tested

I. Brief description of program capabilities.
Plots shoal depth for survey readings - to be used as aid to dredging operation

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Nancy L. Wolf
U. S. Army Engineer District, Louisville
FTS 352-5650

B. Name of program.
Boring Log Plot

C. Computer used to execute program.
UNIVAC 1108

D. Program number.
7418217P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.

I. Brief description of program capabilities.
Plots rock and soil explorations of borings and test pits vs depth

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Nancy L. Wolf
U. S. Army Engineer District, Louisville
FTS 352-5650

B. Name of program.
Relief Well Plot

C. Computer used to execute program.
IBM 360

D. Program number.
741M214P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.

I. Brief description of program capabilities.
Plots gallons per minute, reservoir pool and tailwater elevations vs time (days)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Nancy L. Wolf
U. S. Army Engineer District, Louisville
FTS 352-5650

B. Name of program.
Piezometer Plot

C. Computer used to execute program.
IBM 360

D. Program number.
741M213P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.

I. Brief description of program capabilities.
Plots open or closed system piezometer readings for civil works projects. Pool and tailwater elevations are plotted vs time (days)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Nancy L. Wolf
U. S. Army Engineer District, Louisville
FTS 352-5650

B. Name of program.
Monthly Reservoir Regulation Plot (Modification of Huntington District Program)

C. Computer used to execute program.
UNIVAC 1108

D. Program number.
7248298P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.

I. Brief description of program capabilities.
Used to fulfill monthly reservoir regulation report requirement to Division Office. For each reservoir, plots (1) reservoir outflow and natural stream hydrograph, (2) pool elevation and corresponding storage volume, and (3) daily average basin rainfall vs time (days)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Nancy L. Wolf
U. S. Engineer District, Louisville
FTS 352-5650

B. Name of program.
Cathodic Protection Record Plot

C. Computer used to execute program.
G 437

D. Program number.
712H201P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Plots amps, volts, and temperature vs time (days) and upper and lower pool elevations vs time (days)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard Gowin
U. S. Engineer District, Louisville
FTS 352-5723

B. Name of program.
Pool Elevation Hydrograph with Rule Curve

C. Computer used to execute program.
G 225

D. Program number.
7222213P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Plots pool elevation vs time for 1 year per plot; each plot includes the sectional pool rule curve

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
J. Robert Beck
U. S. Army Engineer District, Louisville
FTS 352-5635

B. Name of program.
Cross-Section Plot

C. Computer used to execute program.
G 437

D. Program number.
732H215P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663/760 Controller

G. Relationship to other programs (i.e., generates data for HEC2).
Uses data from various earthwork quantities programs.

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Program plots cross sections consisting of original ground and a variable number of templates

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Will Forte
Nashville District
FTS 852-5631

B. Name of program.
Monthly Reservoir Operation Plot Program

C. Computer used to execute program.
UNIVAC 1108
CSC - INFONET

D. Program number.
7248344P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp and Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots daily rainfall, elevation, storage, and discharge for each reservoir

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Wayne Abernathy
Nashville District
FTS 852-7138

B. Name of program.
Huntington District Earthwork Plot Program

C. Computer used to execute program.
UNIVAC 1108
CSC - INFONET

D. Program number.
7328320P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots earthwork cross sections and templates

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Jack Brown
Nashville District
FTS 852-5637

B. Name of program.
GPCP-II

C. Computer used to execute program.
UNIVAC 1108
CSC - INFONET

D. Program number.
GPCP-II

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp and Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Used to plot reservoir profiles of temperature, dissolved oxygen, etc.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Sam Bradley
Nashville District
FTS 852-7138

B. Name of program.
Preprocesser Plot Program for HEC2 Data

C. Computer used to execute program.
UNIVAC 1108
CSC - INFONET

D. Program number.
7228324P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp and Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).
Displays for review HEC2 data

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots HEC2 data cross sections on CalComp or Tektronix in sequential or random order

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Sam Bradley
Nashville District
FTS 852-7138

B. Name of program.
Fathometer Streambed Elevation Computation Using Graphics Tablet

C. Computer used to execute program.
UNIVAC 1108
CSC - INFONET

D. Program number.
73383070

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Digitizes fathometer readouts, displays on tektronix screen, and overlays dredging template if requested

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
William H. Salesky
Pittsburgh District
FTS 722-6829

B. Name of program.
Plot of Daily Flow by Year

C. Computer used to execute program.
G-225

D. Program number.
8032411P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN

F. Graphics equipment needed to support applications.
CalComp 915/1036

G. Relationship to other programs (i.e., generates data for HEC2).
Input data can either be coded and punched or extracted from USGS tapes

H. Stage of documentation.
Program (no write-up)

I. Brief description of program capabilities.
Program produces a plot of flow vs time for each year's data that is input

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Lowell R. Hoy
Pittsburgh District
FTS 722-6971

B. Name of program.
CalComp GPCP-II

C. Computer used to execute program.
UNIVAC 1108

D. Program number.
8038401P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN

F. Graphics equipment needed to support applications.
CalComp 915/1036

G. Relationship to other programs (i.e., generates data for HEC2).
Input data for lock-sounding plots are produced by program 8032401D. Input data for water quality plots are extracted from the ORD labmaster file resident on INFONET

H. Stage of documentation.
Write-up (CalComp)

I. Brief description of program capabilities.
(See CalComp write-up)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Robert W. Schmitt
Pittsburgh District
FTS 722-6951

B. Name of program.
Profile Plot for Channels

C. Computer used to execute program.
G-225

D. Program number.
7222405P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN

F. Graphics equipment needed to support applications.
CalComp 915/1036

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Program and write-up

I. Brief description of program capabilities.
For single flow rate, program will plot thalweg profile, energy grade line, water surface profile, and velocities along the profile. For water surface and thalweg profile combination, program will handle up to 8 different flow rates. Options exist to plot an improved channel bottom profile, bridge locations, and appropriate notes

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Robert W. Schmitt
Pittsburgh District
FTS 722-6951

B. Name of program.
Cross-Section Plot from HEC2 Deck

C. Computer used to execute program.
G-225

D. Program number.
7222401P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN

F. Graphics equipment needed to support applications.
CalComp 915/1036

G. Relationship to other programs (i.e., generates data for HEC2).
Processes data prepared as input to HEC2

H. Stage of documentation.
Program only (no write-up)

I. Brief description of program capabilities.
Program handles up to 190 ground points and 2 bridge points

SOUTH ATLANTIC DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Ferrell Ard
South Atlantic Division
FTS 242-6901

B. Name of program.
EZPERT

C. Computer used to execute program.
Honeywell Level 66/80

D. Program number.
EZPERT

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. PLOT-10

F. Graphics equipment needed to support applications.
Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).
Plots data input from RA/PM

H. Stage of documentation.
Final

I. Brief description of program capabilities.
Draws bar charts, x-y charts, and CPM logic networks

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Warren R. Bennett, Jr.
Charleston District
677-4524

B. Name of program.
HEC2 X-Sects, and Profile Plots

C. Computer used to execute program.
Honeywell 66/80

D. Program number.
723K221P

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 936/925

G. Relationship to other programs (i.e., generates data for HEC2).
Uses HEC2 data deck for generation of data for plotting of HEC2 profiles

H. Stage of documentation.
Incomplete; still under development, refinement

I. Brief description of program capabilities.
Cross section and profile plots used in conjunction with HEC2 runs

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Kline Bentley
Jacksonville District
FTS 946-2458

B. Name of program.
RWBD (Retrieve Water Budget Data Program)

C. Computer used to execute program.
PDP 11/70

D. Program number.
WM51A

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Generates data file compatible with GSPLT and PWBD

H. Stage of documentation.
Not started

I. Brief description of program capabilities.
Retrieves data from Water Budget Data base and creates files suitable for plotting or printing

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Kline Bentley
Jacksonville District
FTS 946-2458

B. Name of program.
PWBD (Plot Water Budget Data)

C. Computer used to execute program.
PDP 11/70

D. Program number.
WM51B

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Textronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Plots data from files generated by RWBD

H. Stage of documentation.
Not started

I. Brief description of program capabilities.
Produces plots of data in Water Budget Data base

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Kline Bentley
Jacksonville District
FTS 946-2458

B. Name of program.
GSPLT (Plot and Statistical Program for USGS Formatted Data)

C. Computer used to execute program.
PDP 11/70

D. Program number.
WM53

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Plots data and computes statistics from files generated by USGSSEL and RWBD

H. Stage of documentation.
Finished

I. Brief description of program capabilities.
Generates plots, outputs peak yearly values, and produces frequency statistics of data in USGS 336 byte format

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Oscar B. Knappe
Jacksonville District
FTS 946-2462

B. Name of program.
Range Positioning System Data Plot

C. Computer used to execute program.
PDP 11/70

D. Program number.
KM53

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014, Gerber 4343

G. Relationship to other programs (i.e., generates data for HEC2).
This program is one of a system of ten programs which processes automated survey data

H. Stage of documentation.

I. Brief description of program capabilities.
This program will plot sounding data in either plane view or cross-section view. Options provide for the insertion of channel limits, design turn plate, and station numbering. The program can combine data file into one multiple sheet plots with match lines. The sounding can be plotted at any angle. The 4014 allows full preview before hardcopy is generated

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard W. Bunnell
Jacksonville District
FTS 946-2207

B. Name of program.
Area-Capacity Curve from Digitized Data

C. Computer used to execute program.
PDP 11/70

D. Program number.
WH45

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014 graphics terminal and graphics tablet

G. Relationship to other programs (i.e., generates data for HEC2).
This program reads the data file built by the digitizing program WH46

H. Stage of documentation.
Preliminary user instructions written

I. Brief description of program capabilities.
This program computes areas and volumes from digitized data and it makes U. S. customary to metric or metric to U. S. customary conversions. Input-output options are selected by the user at the time of execution

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard W. Bunnell
Jacksonville District
FTS 946-2207

B. Name of program.
Cross-Section Digitizer

C. Computer used to execute program.
PDP 11/70

D. Program number.
WH57

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014 graphics terminal with graphics tablet

G. Relationship to other programs (i.e., generates data for HEC2).
Generates data for HEC2

H. Stage of documentation.
Preliminary user instructions written

I. Brief description of program capabilities.
The program digitizes cross-section data and puts them in an HEC2 card image file. This file is then punched on cards. The end product is a data deck of "X1" and "GR" cards ready for HEC2 use

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Richard W. Bunnell
Jacksonville District
FTS 946-2207

B. Name of program.
Contour Digitizer

C. Computer used to execute program.
PDP 11/70

D. Program number.
WH46

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014 graphics terminal and graphics tablet

G. Relationship to other programs (i.e., generates data for HEC2).
Generates data for WH45 which computes areas and volumes from basic digitized data

H. Stage of documentation.
Preliminary user instructions written

I. Brief description of program capabilities.
The program digitizes:
1. Contours from maps
2. Cross sections of cuts
3. Excavation cross sections
4. Drainage areas...a data file is set up for WH45 to use in computing areas and volumes

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Tom Arnold
Jacksonville District
FTS 946-3680

B. Name of program.
None

C. Computer used to execute program.
PDP 11/70

D. Program number.
WY48

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014 terminal

G. Relationship to other programs (i.e., generates data for HEC2).
Accepts 4 input files from another program and creates necessary graphs

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Converts duration-damage relationships to depth damage relationships for a given water surface elevation in a specific area. This program is developed for the Boggy Creek Expanded Flood Plain Information Study

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Tom Arnold
Jacksonville District
FTS 946-3680

B. Name of program.
WY37 - Statistical Curvilinear Regression

C. Computer used to execute program.
PDP 11/70

D. Program number.
WY37

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014-1 terminal

G. Relationship to other programs (i.e., generates data for HEC2).
1. Generates data for WY42 - Economic Damage Susceptibility
2. Programs WY38, WY39, WY40 Service WY37

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
1. General-purpose regression, normal and time series
2. Price projections
3. Average annual damage calculation
4. Damage relationship construction and plots
5. Creates files for other programs

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Tom Arnold
Jacksonville District
FTS 946-3680

B. Name of program.
General Linear Plots

C. Computer used to execute program.
PDP 11/70

D. Program number.
WY46

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014-1

G. Relationship to other programs (i.e., generates data for HEC2).
None, display only

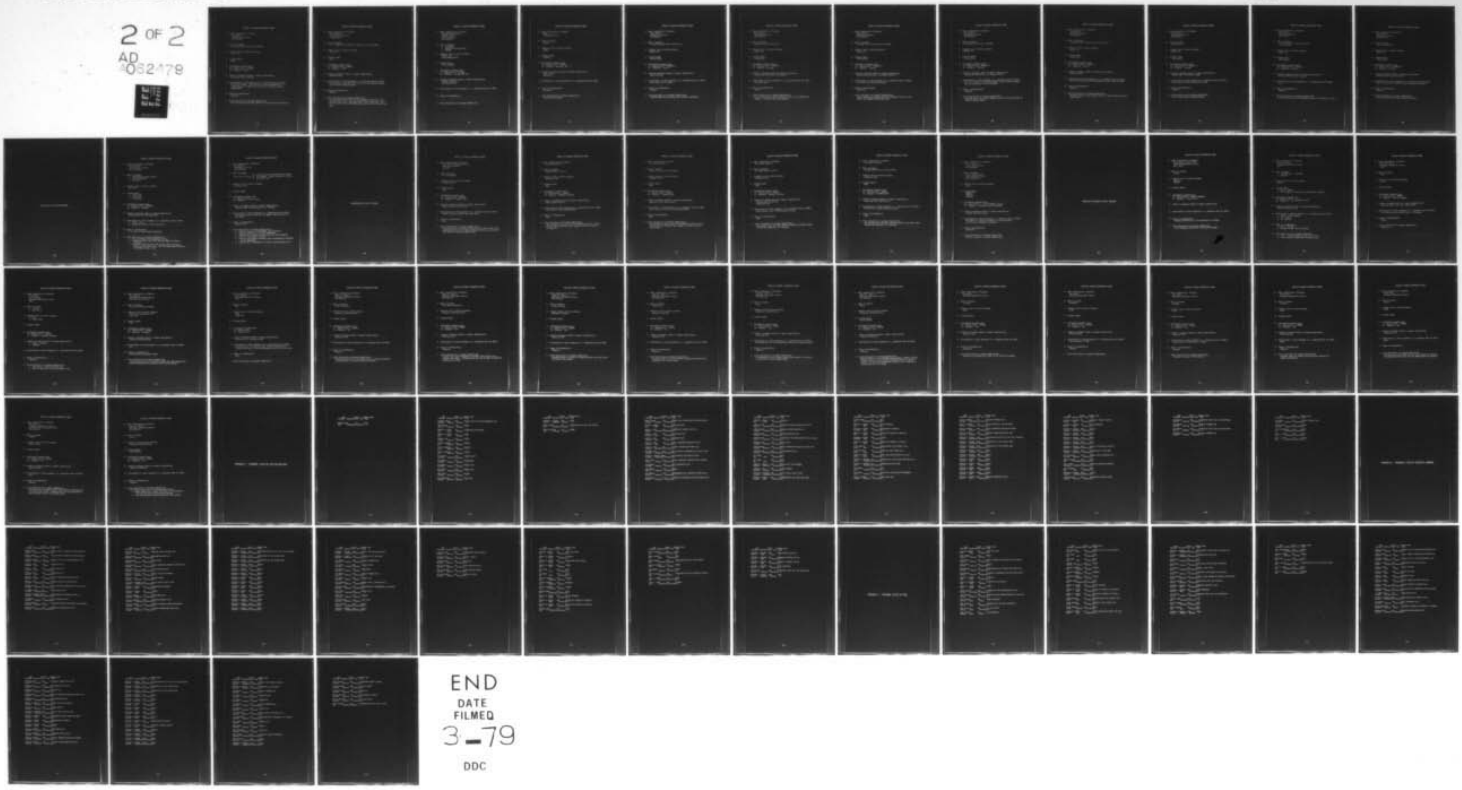
H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Creates plots using linear interpolation among points x and y axes labels. Title and the data are also provided

AD-A062 479 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MISS F/G 9/2
GRAPHICS IN THE CORPS. PROCEEDINGS OF THE COMPUTER GRAPHICS COL--ETC(U)
1978 J M JONES, R L HALL, N RADHAKRISHNAN

UNCLASSIFIED NL

2 OF 2
AD
A062479



END
DATE
FILMED
3-79
DDC

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Tom Arnold
Jacksonville District
FTS 946-3680

B. Name of program.
Historical Time Series Plot Routine

C. Computer used to execute program.
PDP 11/70

D. Program number.
WY41

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014-1 terminal

G. Relationship to other programs (i.e., generates data for HEC2).
No direct linkage. Data entered for this program may be transformed to an input file for WY37 by using the service program WY38

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots historical data over periods of time entered interactively

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Kline Bentley
Jacksonville District
FTS 946-2458

B. Name of program.
Fit - General Least Squares Polynomial Fitting Program

C. Computer used to execute program.
PDP 11/70

D. Program number.
WY55

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GPLOT

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Fit generates polynomial coefficient for area capacity curves used in water budget programs

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Fit calculates coefficients of a polynomial curve fit to two-variable (x,y) data. The observations can be weighted. The following options are available y=x, y=lnx, lny=x, lny=lnx, and $y=\frac{1}{x}$

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Engineering Division
Computer Center
Mobile District
205-690-2425

B. Name of program.
1. Hydrology
2. Foundation and material
3. EZPERT

C. Computer used to execute program.
UNIVAC 1108
USCSC MACON H66/80

D. Program number.
Local programs

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp and GCS

F. Graphics equipment needed to support applications.
CalComp 1036 Drum
Tektronix 4014-1

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.

I. Brief description of program capabilities.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
RAPM
Savannah District

B. Name of program.
EZPERT

C. Computer used to execute program.
H6066

D. Program number.
EZPERT-1

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. CalComp, Plot 10

F. Graphics equipment needed to support applications.
Drum Plotter
Tektronix

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Purchased

I. Brief description of program capabilities.
Network plot program

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
Interactive HEC2 Cross Section Plot

C. Computer used to execute program.
HARRIS 120

D. Program number.
722-E1-K702M

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. PLOT 10

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Uses input file for HEC2

H. Stage of documentation.
Limited

I. Brief description of program capabilities.
Displays HEC2 cross sections with optional windowing

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
Backwater Cross Section Plot

C. Computer used to execute program.
HARRIS 120

D. Program number.
722-E1K702D

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 925 Controller, 718 Flatbed

G. Relationship to other programs (i.e., generates data for HEC2).
Uses HEC2 input

H. Stage of documentation.
Limited

I. Brief description of program capabilities.
Plots cross section using different color or line widths for bridges. Selective plot only channel

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
Earthwork Cross Section Plot (CalComp)

C. Computer used to execute program.
HARRIS 120

D. Program number.
732-E1-K702A

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 925 Controller, 718 Flatbed Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Uses data from earthwork program

H. Stage of documentation.
Completed

I. Brief description of program capabilities.
Plots template and ground line with different colors or line widths for template and ground line

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
RPS Cross Section Plot (CalComp)

C. Computer used to execute program.
HARRIS 120

D. Program number.
733-E1-K711E

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 925 Controller, 718 Flatbed Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
One in a system of seven Hydrographic Survey System programs.
Use file generated by other programs

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Displays before and after dredging sections using three pens at three different depths

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
Interactive RPS Cross Section Edit and Plot

C. Computer used to execute program.
HARRIS 120

D. Program number.
733-E1-K711U

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. PLOT 10

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
One in a system of seven Hydrographic Survey System programs

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Displays channel cross section option to delete points by using cross hairs

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
RPS Map Plot

C. Computer used to execute program.
HARRIS 120

D. Program number.
733-E1-K711C

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 925, 718 Plotter System

G. Relationship to other programs (i.e., generates data for HEC2).
Uses output from RPS processing program

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots river depths on predrawn maps

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
Monthly Reservoir Regulation Chart
Plot (CalComp)

C. Computer used to execute program.
HARRIS 120

D. Program number.
723-E1-K7150

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 925/718 Plotter System

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Plots monthly Reservoir Regulation Charts for submission to SAD

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James Waller
Wilmington District
FTS 674-9577

B. Name of program.
Wave Refraction Plot

C. Computer used to execute program.
HARRIS 120

D. Program number.
752-E1-K702A

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 925/718 Plotter System

G. Relationship to other programs (i.e., generates data for HEC2).
One in a series of 10 wave refraction analysis programs

H. Stage of documentation.
Limited

I. Brief description of program capabilities.
Plots calculated wave rays striking shoreline

SOUTH PACIFIC DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Clyde Okazaki
South Pacific Division
(415) 556-0620

B. Name of program.
1. Hydrographic Survey System
2. Salinity System
3. HEC2 Plot

C. Computer used to execute program.
HTS G-437

D. Program number.
1. 731-L3-080
2. 720-L3-050
3. 723-L3-02P

E. Programming language used.
(1) Applications. FORTRAN IV
(2) Graphics. CalComp

F. Graphics equipment needed to support applications.
CalComp 663, 638, 760 (tape unit)

G. Relationship to other programs (i.e., generates data for HEC2).
1. and 2. None
3. Graphical display of HEC2 input data

H. Stage of documentation.
1, 2, and 3 - Users' guides available

I. Brief description of program capabilities.
1. Plots soundings from hydrographic survey
2. Displays salinity test data from the model in various fashions
3. Plots the cross-sectional and profile data and flags a number of key items (e.g., left and right bank elevation, encroachment stas., etc.)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Bob Haavisto
Sacramento District
FTS 448-3188

B. Name of program.
N/A (see "I" below) } Several special applications are under development. Those currently in use are described below

C. Computer used to execute program.
Textronix 4051

D. Program number.

E. Programming language used.
(1) Applications. } 4051 Basic
(2) Graphics. }

F. Graphics equipment needed to support applications.
Tektronix 4662 Plotter/Digitizer is optional

G. Relationship to other programs (i.e., generates data for HEC2).
One program prepares some data for ROADS, which are run on NPD system

H. Stage of documentation.
None/Plot 50

I. Brief description of program capabilities.
1. Displays terrain and embankment cross sections
2. Computes quantities in a zoned embankment
3. Computes and displays traverse data for road alignment
4. Plots x-y data pairs or y=F(x)
5. Computes and displays readings from instrumentation embedded in dam embankment
6. General plot 50 mathematics routines (curve fitting, etc.)

SOUTHWESTERN DIVISION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Flood Plain Management Branch
Fort Worth District
334-3207

B. Name of program.
FP (TTS Version)

C. Computer used to execute program.
Honeywell 6000

D. Program number.
None

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN (GCS)

F. Graphics equipment needed to support applications.
Tektronix 4014, 4662 Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Graphic display of HEC2 input and output

H. Stage of documentation.
None

I. Brief description of program capabilities.
The program plots the input (cross sections) and output (water surface profiles) of the HEC2 backwater program on a Tektronix 4014 CRT and a Tektronix 4662 plotter

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fort Worth District

B. Name of program.
BPLOTCG (Batch Version)

C. Computer used to execute program.
Honeywell 6000

D. Program number.
None

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN (CalComp)

F. Graphics equipment needed to support applications.
Calcomp Drum Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Plots results from program GRAVT2

H. Stage of documentation.
None

I. Brief description of program capabilities.
This program is used to plot the subbasins, center of area, stream, and two different LCA (Length of Center of Area) calculations

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fort Worth District

B. Name of program.
PLOTCG (TTS version of BPLOTCG)

C. Computer used to execute program.
Honeywell 6000

D. Program number.
None

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN (GCS)

F. Graphics equipment needed to support applications.
Tektronix 4014, 4662 plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Plots results or output from program GRAVTZ

H. Stage of documentation.
None

I. Brief description of program capabilities.
This program is used to plot the subbasins, center of area, stream, and two different LCA (Length to Center of Area) calculations

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fort Worth District

B. Name of program.
FT WORTH (Batch Version)

C. Computer used to execute program.
Honeywell 6000

D. Program number.
None

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN (CalComp)

F. Graphics equipment needed to support applications.
CalComp Drum Plotter 936
Comptroller 921

G. Relationship to other programs (i.e., generates data for HEC2).
Fancy profile plot of HEC2 generated output

H. Stage of documentation.
None

I. Brief description of program capabilities.
The program plots the water surface profiles from HEC2 output and has the capability for labeling

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fort Worth District

B. Name of program.
GCS FTW (TTS Version of Fort Worth)

C. Computer used to execute program.
Honeywell 6000

D. Program number.
None

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN (GCS)

F. Graphics equipment needed to support applications.
Tektronix 4014, 4662 plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Profile plot of HEC2 generated output

H. Stage of documentation.
None

I. Brief description of program capabilities.
The program plots the water surface profiles from HEC2 output and has the capability for labeling

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Don G. Bratton
Little Rock District
FTS 740-5609

B. Name of program.
River Cross Sections
Water Surface Profile
Pool Elevations

C. Computer used to execute program.
G-225

D. Program number.
803M4360
803M4370
803M4470

E. Programming language used.
(1) Applications. GE-225 FORTRAN Software
(2) Graphics. CalComp Drum Plot Software

F. Graphics equipment needed to support applications.
CalComp 563 Drum Plotter

G. Relationship to other programs (i.e., generates data for HEC2).
803-360 plots hydraulic elements of cross sections
803-370 plots backwater elevations

H. Stage of documentation.
Completed

I. Brief description of program capabilities.
803-370 overplots 3 surveys (range type)

WATERWAYS EXPERIMENT STATION PROGRAMS

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Ricky Austin, Harry Brown
Waterways Experiment Station
2145 2185

B. Name of program.
PPCALC

C. Computer used to execute program.
WES 600
CARDIN

D. Program number.

E. Programming language used.
(1) Applications. CARDIN (FORTRAN)
(2) Graphics. Drum Plotter

F. Graphics equipment needed to support applications.

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Program productive but not documented for release

I. Brief description of program capabilities.
Plots pavement deflections vs aircraft coverage

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Anthony Bombich
Waterways Experiment Station
3238

B. Name of program.
1. GPREFEM and 2. GPOSTFEM
3. MULPLOT

C. Computer used to execute program.
WES 635

D. Program number.
1. and 2. WESLIB
3. Not numbered (internal Soils Laboratory Program)

E. Programming language used.
(1) Applications.
(2) Graphics.
} FORTRAN and GCS

F. Graphics equipment needed to support applications.
Tektronix 4014 and 4631

G. Relationship to other programs (i.e., generates data for HEC2).
1. Input to FEM programs
2. Not related
3. Not related

H. Stage of documentation.
1. and 2. WES ADP
3. Minimal by WES Soils Laboratory

I. Brief description of program capabilities.
1. and 2. Generate FEM grid and plot results
3. Plots multiple dashed line curves/x-y plot

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Martin T. Hebler
Waterways Experiment Station
2403

B. Name of program.
H0011

C. Computer used to execute program.
GE 635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. WES GCS Package

F. Graphics equipment needed to support applications.
Tektronix 4012, 4014, CRT, Drum plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Plots data stored by other Corps H programs

H. Stage of documentation.
Origin

I. Brief description of program capabilities.
Same as G.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fred Tracy
John Shingler
Waterways Experiment Station
3817

B. Name of program.
1. Contour
2. Data Plots

C. Computer used to execute program.
1. H635
2. H635, T1980

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. FORTRAN, CalComp

F. Graphics equipment needed to support applications.
1. and 2. CalComp
3. VERSATEC

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Completed

I. Brief description of program capabilities.
1. Contouring of field-collected data
2. Data vs time plots of data from model test

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Kent Turner
Waterways Experiment Station
601-636-3111, Ext 3746

B. Name of program.
Wave Data Reduction Program

C. Computer used to execute program.
Electronic Associates, Inc.
Pacer 100

D. Program number.
N/A

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. Versaplot

F. Graphics equipment needed to support applications.
Versatec printer/plotter

G. Relationship to other programs (i.e., generates data for HEC2).
N/A

H. Stage of documentation.
Unpublished miscellaneous paper

I. Brief description of program capabilities.
Preliminary reduction of hydraulic model wave data acquired by ADACS (Automated Data Acquisition and Control System)

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Larry Daggett
Waterways Experiment Station
2259

B. Name of program.
HEC2

C. Computer used to execute program.
G 635
CYBER 176

D. Program number.

E. Programming language used.
(1) Applications.
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix HP or CalComp plotter

G. Relationship to other programs (i.e., generates data for HEC2).
Generates plots of x-section data for HEC formatted data
Creates input data to other hydrodynamic models, such as SOCJM

H. Stage of documentation.
None

I. Brief description of program capabilities.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
Flood Histogram

C. Computer used to execute program.
Honeywell 600/6000 series

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Program accepts data of elevation values vs time and produces a histogram over a certain elevation interval

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
Fish Species Barcharts

C. Computer used to execute program.
Honeywell 600/6000 series

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Produces bar charts (grouped) of several fish species for a certain time frame. A CalComp drum plot can be made of Tektronix Display at any time

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
Dredge Disposal

C. Computer used to execute program.
Honeywell 600/6000

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Program produces 3-D plots of dredge disposal area and solves the hidden line problem

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
Weapons Test

C. Computer used to execute program.
Honeywell 600/6000

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Program accepts data from different weapons tests and does a polynomial fit to data points

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
GISB

C. Computer used to execute program.
Honeywell 600/6000 series

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Generates data for the incremental construction program ISBILD

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
GISB generates finite element grids using tablet, cross hairs, or data file for the program ISBILD

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
MOVIE

C. Computer used to execute program.
Honeywell 600/6000 series

D. Program number.
803-F3-R0-202

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4012/4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
MOVIE consists of four FORTRAN program modules (MOVIE, UTILITY, SECTION, TITLE) for the display and manipulation of data to produce two- and three-dimensional models as line drawings or continuous-tone color images

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fred Tracy
Waterways Experiment Station

B. Name of program.
3-D geom.

C. Computer used to execute program.
G-635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Incomplete

I. Brief description of program capabilities.
Generates 3-D geometry for input to 3-D stability program

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fred Tracy
Waterways Experiment Station

B. Name of program.
GPOSTFEM

C. Computer used to execute program.
G-635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Post-processor of FEM

H. Stage of documentation.
Complete

I. Brief description of program capabilities.

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Fred Tracy
Waterways Experiment Station

B. Name of program.
GPREFEM

C. Computer used to execute program.
G-635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
Pre-processor of FEM analysis program

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Generates 2-D grids of FEM analysis

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Robert Hall
Waterways Experiment Station

B. Name of program.
GCulvert

C. Computer used to execute program.
G-635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Displays input and output for lock culvert analysis by moment distribution

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Robert Hall
Waterways Experiment Station

B. Name of program.
GSLOPE

C. Computer used to execute program.
G-635

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.

I. Brief description of program capabilities.
Displays input and output data for slope stability analysis. The program includes both arc and wedge methods of analysis

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
Robert Hall
Waterways Experiment Station
Automatic Data Processing Center
FTS 542-3757

B. Name of program.
STRUPUT

C. Computer used to execute program.
G-635, G-6000

D. Program number.

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4014

G. Relationship to other programs (i.e., generates data for HEC2).
None

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
Generates data for planar rigid frame analysis; displays data for editing and review. Analyzes data and displays moment/shear diagrams as well as deformed shape

GRAPHICS PROGRAM INFORMATION SHEET

A. Name, Organization, Telephone.
James M. Jones II
Waterways Experiment Station
FTS 542-3533

B. Name of program.
SOLIDS

C. Computer used to execute program.
Honeywell 600/6000 series

D. Program number.
803-F3-R0-201

E. Programming language used.
(1) Applications. FORTRAN
(2) Graphics. GCS

F. Graphics equipment needed to support applications.
Tektronix 4012/4014

G. Relationship to other programs (i.e., generates data for HEC2).

H. Stage of documentation.
Complete

I. Brief description of program capabilities.
The SOLIDS system has the following capabilities:
a. Model generation, display, editing, and verification. The user may define 3-D bricks and prisms
b. Load and boundary condition generation and display

APPENDIX A - PROGRAMS LISTED BY APPLICATION AREA

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
FREDDIE RUSH	LMK	LIGHT	
GCS	INCOMPLETE	ELECTRIC	I

NAME	OFFICE	PROGRAM NAME
LANGUAGE DOCUMENTATION	AREA	MODE
RICHARD LANDIN	NAO	DESIGN ACTIVITY MILITARY-BARCHART PLOT
CALCOMP COMPLETE	GENERAL	P
WARD POWERS	SAS	EZPERT
PLOT10 COMPLETE	GENERAL	I
NORMAN R. SNYDER	SAM	FOUNDATION AND MATERIAL
GCS NONE	GENERAL	I
NORMAN R. SNYDER	SAM	EZPERT
GCS NONE	GENERAL	I
FERRELL ARD	SAD	EZPERT
PLOT10 COMPLETE	GENERAL	I
ANTHONY BOMBICH	WES	GPREFEM
GCS COMPLETE	GENERAL	I
ANTHONY BOMBICH	WES	GPOSTFEM
GCS COMPLETE	GENERAL	I
ANTHONY BOMBICH	WES	MULPLOT
GCS COMPLETE	GENERAL	I
JIM DAHLEN	NPS	X-SECTION PLOT
CALCOMP INCOMPLETE	GENERAL	P
JIM DAHLEN	NPS	3D-GRAPHICS
CALCOMP COMPLETE	GENERAL	P
JIM DAHLEN	NPS	PROFILE PLOT
CALCOMP COMPLETE	GENERAL	P
BILL SAINT	MRO	GENERAL PLOT
CALCOMP INCOMPLETE	GENERAL	P
FRED TRACY	WES	CONTOUR
CALCOMP COMPLETE	GENERAL	P
JOHN SHINGLER	WES	DATA PLOTS
CALCOMP COMPLETE	GENERAL	P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
PRESTON C. PIERCE	CERC	THRED
PLOT10	COMPLETE	GENERAL	I
BRIAN KLEBER	LMS	INSTRUMENTATION DATA PLOT SYSTEM
GCS	INCOMPLETE	GENERAL	P
ARCHIE GATROST	MRK	SUPERB
GCS	COMPLETE	GENERAL	I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
WESLEY FAGER	NAO	PASSIVE PLOT OF BACKWATER CROSS SECTIONS
CALCOMP	COMPLETE	HYDRAULICS P
WILLIAM LAWHEAD	NCE	X-SECTION PLOTS
GCS	NONE	HYDRAULICS I
NANCY L. WOLF	ORL	HYDROGRAPHIC SURVEY DATA PLOT
GERBER	INCOMPLETE	HYDRAULICS P
NANCY L. WOLF	ORL	RELIEF WELL PLOT
CALCOMP	NONE	HYDRAULICS P
NANCY L. WOLF	ORL	PIEZOMETER PLOT
CALCOMP	NONE	HYDRAULICS P
NANCY L. WOLF	ORL	MONTHLY RESERVOIR REGULATION PLOT
CALCOMP	NONE	HYDRAULICS P
NANCY L. WOLF	ORL	CATHODIC PROTECTION RECORD PLOT
CALCOMP	INCOMPLETE	HYDRAULICS P
RICHARD GOWIN	ORL	POOL ELEVATION HYDROGRAPH WITH RULE CURVE
CALCOMP	INCOMPLETE	HYDRAULICS P
WARREN R. BENNETT JR	SAC	HEC-2 X-SECTS AND PROFILE PLOTS
CALCOMP	INCOMPLETE	HYDRAULICS P
WILL FORTE	ORN	MONTHLY RESERVOIR OPERATION PLOT PROGRAM
PLOT10	COMPLETE	HYDRAULICS I
JIM DAHLEN	ORN	DAILY STREAMFLOW PLOT
CALCOMP	COMPLETE	HYDRAULICS P
JACK BROWN	ORN	GPCP-II
PLOT10	COMPLETE	HYDRAULICS I
SAM BRADLEY	ORN	PREPROCESSER PLOT PROGRAM FOR HEC-2 DATA
PLOT10	COMPLETE	HYDRAULICS I
SAM BRADLEY	ORN	FATHOMETER STREAMBED ELEVATION COMPUTATION
PLOT10	COMPLETE	HYDRAULICS I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
NORMAN R. SNYDER	SAM	HYDROLOGY
GCS	NONE	HYDRAULICS I
JAMES WALLER	SAW	INTERACTIVE HEC-2 CROSS SECTION PLOT
PLOT10	INCOMPLETE	HYDRAULICS I
JAMES WALLER	SAW	BACKWATER CROSS SECTION PLOT
CALCOMP	INCOMPLETE	HYDRAULICS P
JAMES WALLER	SAW	RPS CROSS SECTION PLOT
CALCOMP	COMPLETE	HYDRAULICS P
JAMES WALLER	SAW	INTERACTIVE RPS CROSS SECTION EDIT AND PLOT
PLOT10	COMPLETE	HYDRAULICS I
JAMES WALLER	SAW	RPS MAP PLOT
CALCOMP	COMPLETE	HYDRAULICS P
JAMES WALLER	SAW	MONTHLY RESERVOIR REGULATION CHART PLOT
CALCOMP	COMPLETE	HYDRAULICS P
JAMES WALLER	SAW	WAVE REFRACTION PLOT
CALCOMP	INCOMPLETE	HYDRAULICS P
ART PABST	HEC	HEC-1
GCS	NONE	HYDRAULICS I
ART PABST	HEC	HEC-2
GCS	NONE	HYDRAULICS I
ROBERT W. SCHMITT	ORP	PROFILE PLOT FOR CHANNELS
CALCOMP	COMPLETE	HYDRAULICS P
LOWELL R. HOY	ORP	CALCOMP GPCPII
CALCOMP	COMPLETE	HYDRAULICS P
WILLIAM H. SALESKY	ORP	PLOT OF DAILY FLOW BY YEAR
CALCOMP	INCOMPLETE	HYDRAULICS P
ROBERT W. SCHMITT	ORP	CROSS-SECTION PLOT FROM HEC-2 DECK
CALCOMP	NONE	HYDRAULICS P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
GEORGE BRAGG	LMV	ZEUS
GCS	INCOMPLETE	HYDRAULICS I
DONALD R. WALKER	SWF	FP(TTS VERSION)
GCS	NONE	HYDRAULICS I
DONALD R. WALKER	SWF	BPLOTCG(BATCH VERSION)
CALCOMP	NONE	HYDRAULICS P
DONALD R. WALKER	SWF	PLOTCG(TTS VERSION OF BPLOTCG)
GCS	NONE	HYDRAULICS I
DONALD R. WALKER	SWF	FTWORTH
CALCOMP	NONE	HYDRAULICS P
DONALD R. WALKER	SWF	GCSFTW(TTS VERSION OF FTWORTH)
GCS	NONE	HYDRAULICS I
KLINE BENTLEY	SAJ	RWBD-RETRIEVE WATER BUDGET DATA
GPLOT	NONE	HYDRAULICS I
KLINE BENTLEY	SAJ	PWBD-PLOT WATER BUDGET DATA
GPLOT	NONE	HYDRAULICS I
OSCAR B. KNAPPE	SAJ	RANGE POSITIONING SYSTEM DATA PLOT
GPLOT	NONE	HYDRAULICS I
RICHARD W. BUNNELL	SAJ	AREA-CAPACITY CURVE FROM DIGITIZED DATA
GPLOT	INCOMPLETE	HYDRAULICS I
RICHARD W. BUNNELL	SAJ	CROSS-SECTION DIGITIZER
GPLOT	INCOMPLETE	HYDRAULICS I
TOM ARNOLD	SAJ	WY48
GPLOT	INCOMPLETE	HYDRAULICS I
TOM ARNOLD	SAJ	STATISTICAL CURVILLINEAR REGRESSION
GPLOT	COMPLETE	HYDRAULICS I
CARL B. DOUGHTY	NAP	RIVER BASIN PLOT
CALCOMP	COMPLETE	HYDRAULICS P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
CARL B. DOUGHTY	NAP	BACKWATER PROFILE PLOT
CALCOMP	INCOMPLETE	HYDRAULICS P
CARL B. DOUGHTY	NAP	HEC-2 SECTOR PLOT FOR TEKTRONIX
PLOT10	COMPLETE	HYDRAULICS I
CARL B. DOUGHTY	NAP	MONTHLY RESERVOIR REGULATION REPORT
CALCOMP	COMPLETE	HYDRAULICS P
CARL B. DOUGHTY	NAP	AUTOTAPE RANGE/RANGE CHART PLOT
CALCOMP	COMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	SCATTER-SCATTER PLOT OF WAVE HTS & PERIODS
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	WAVEHR-PLOT OF WAVE HEIGHT ROSE
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	WAVEPR-PLOT OF WAVE PERIOD ROSE
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	SURVY1
CALCOMP	COMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	SURVY2
CALCOMP	COMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	BEACH
CALCOMP	NONE	HYDRAULICS P
PRESTON C. PIERCE	CERC	VOLCTR
CALCOMP	NONE	HYDRAULICS P
PRESTON C. PIERCE	CERC	MEANS
CALCOMP	NONE	HYDRAULICS P
PRESTON C. PIERCE	CERC	ELVDIS
CALCOMP	NONE	HYDRAULICS P
RICHARD L. BEHARRY	ORD	RESERVOIR OPERATION PLOTS
PLOT10	NONE	HYDRAULICS I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
RICHARD L. BEHARRY	ORD	COMMODITY TONNAGE TRAFFIC
PLOT10	NONE	HYDRAULICS P
RICHARD L. BEHARRY	ORD	STAGE FORECASTS
PLOT10	NONE	HYDRAULICS I
PRESTON C. PIERCE	CERC	INLET-2
CALCOMP	COMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	HPVST
CALCOMP	COMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	SPECT
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	XPDIR
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	DIGITAL TIME SERIES ANALYSIS
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	WINDRO-PLOT OF WIND ROSE
CALCOMP	COMPLETE	HYDRAULICS P
TONY STELMACK	NPS	DREDGE TRACK & SOUNDING PLOT
CALCOMP	COMPLETE	HYDRAULICS P
MARTIN HEBLER	WES	H0001
GCS	INCOMPLETE	HYDRAULICS I
KENT TURNER	WES	WAVE:DATA REDUCTION PROGRAM
VERSAPLOT	INCOMPLETE	HYDRAULICS P
LARRY DAGGETT	WES	NONE
GCS	NONE	HYDRAULICS I
PRESTON C. PIERCE	CERC	OUTPUT
CALCOMP	INCOMPLETE	HYDRAULICS P
CLYDE OKAZAKI	SPD	HYDROGRAPHIC SURVEY SYSTEM
CALCOMP	COMPLETE	HYDRAULICS P

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
JIM DAHLEN	NPS	COORDINATE POINT PLOT AND ANNOTATION	
PLOT10	COMPLETE	PAVEMENTS	I
JIM DAHLEN	NPS	GENERAL PURPOSE PLOT	
CALCOMP	COMPLETE	PAVEMENTS	P
JIM DAHLEN	NPS	COORDINATE POINT PLOT AND ANNOTATION	
PLOT10	COMPLETE	PAVEMENTS	I
JIM DAHLEN	NPS	GENERAL PURPOSE PLOT	
CALCOMP	COMPLETE	PAVEMENTS	P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
JIM DAHLEN	NPS	HIGHWAY PERSPECTIVES
CALCOMP	COMPLETE	STRUCTURES	P
RICKY AUSTIN	WES	PPCALC
CALCOMP	INCOMPLETE	STRUCTURES	P
JANET SPOONAMORE	CERL	SEARCH
IG	INCOMPLETE	STRUCTURES	I
JOHN J. JOBST	LMS	FORAW
GCS	INCOMPLETE	STRUCTURES	I
JOHN J. JOBST	LMS	PILEGEN
GCS	INCOMPLETE	STRUCTURES	I

APPENDIX B - PROGRAMS LISTED BY GRAPHICS LANGUAGE

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
WESLEY FAGER	NAO	PASSIVE PLOT OF BACKWATER CROSS SECTIONS
CALCOMP	COMPLETE	HYDRAULICS	P
WESLEY FAGER	NAO	FINITE ELEMENT PROGRAMS OUTPUT-CONTOURS
CALCOMP	COMPLETE	SOILS	P
RICHARD LANDIN	NAO	DESIGN ACTIVITY MILITARY-BARCHART PLOT
CALCOMP	COMPLETE	GENERAL	P
NANCY L. WOLF	ORL	BORING LOG PLOT
CALCOMP	NONE	SOILS	P
NANCY L. WOLF	ORL	RELIEF WELL PLOT
CALCOMP	NONE	HYDRAULICS	P
NANCY L. WOLF	ORL	PIEZOMETER PLOT
CALCOMP	NONE	HYDRAULICS	P
NANCY L. WOLF	ORL	MONTHLY RESERVOIR REGULATION PLOT
CALCOMP	NONE	HYDRAULICS	P
NANCY L. WOLF	ORL	CATHODIC PROTECTION RECORD PLOT
CALCOMP	INCOMPLETE	HYDRAULICS	P
RICHARD GOWIN	ORL	POOL ELEVATION HYDROGRAPH WITH RULE CURVE
CALCOMP	INCOMPLETE	HYDRAULICS	P
J. ROBERT BECK	ORL	CROSS SECTION PLOT
CALCOMP	INCOMPLETE	SOILS	P
WARREN R. BENNETT JRSAC	HEC-2;X-SECTS AND PROFILE PLOTS
CALCOMP	INCOMPLETE	HYDRAULICS	P
JIM DAHLEN	ORN	DAILY STREAMFLOW PLOT
CALCOMP	COMPLETE	HYDRAULICS	P
WAYNE ABERNATHY	ORN	HUNTINGTON DISTRICT EARTHWORK PLOT PROGRAM
CALCOMP	COMPLETE	SOILS	P
JAMES WALLER	SAW	BACKWATER CROSS SECTION PLOT
CALCOMP	INCOMPLETE	HYDRAULICS	P

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
JAMES WALLER	SAW	EARTHWORK CROSS SECTION PLOT	
CALCOMP	COMPLETE	SOILS	P
JAMES WALLER	SAW	RPS CROSS SECTION PLOT	
CALCOMP	COMPLETE	HYDRAULICS	P
JAMES WALLER	SAW	RPS MAP PLOT	
CALCOMP	COMPLETE	HYDRAULICS	P
JAMES WALLER	SAW	MONTHLY RESERVOIR REGULATION CHART PLOT	
CALCOMP	COMPLETE	HYDRAULICS	P
JAMES WALLER	SAW	WAVE REFRACTION PLOT	
CALCOMP	INCOMPLETE	HYDRAULICS	P
ROBERT W. SCHMITT	ORP	PROFILE PLOT FOR CHANNELS	
CALCOMP	COMPLETE	HYDRAULICS	P
LOWELL R. HOY	ORP	CALCOMP GPCPII	
CALCOMP	COMPLETE	HYDRAULICS	P
WILLIAM H. SALESKY	ORP	PLOT OF DAILY FLOW BY YEAR	
CALCOMP	INCOMPLETE	HYDRAULICS	P
DONALD R. WALKER	SWF	BPLOTCG(BATCH VERSION)	
CALCOMP	NONE	HYDRAULICS	P
DONALD R. WALKER	SWF	FTWORTH	
CALCOMP	NONE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	RIVER BASIN PLOT	
CALCOMP	COMPLETE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	BACKWATER PROFILE PLOT	
CALCOMP	INCOMPLETE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	MONTHLY RESERVOIR REGULATION REPORT	
CALCOMP	COMPLETE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	AUTOTAPE RANGE/RANGE CHART PLOT	
CALCOMP	COMPLETE	HYDRAULICS	P

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
PRESTON C. PIERCE	CERC	SCATTER=SCATTER PLOT OF WAVE HTS & PERIODS	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	WAVEHR=PLOT OF WAVE HEIGHT ROSE	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	WAVEPR=PLOT OF WAVE PERIOD ROSE	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	SURPRO	
CALCOMP	COMPLETEHY	DRAULICS	P
PRESTON C. PIERCE	CERC	SURVY1	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	SURVY2	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	BEACH	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	VOLCTR	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	MEANS	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	ELVDIS	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	INLET=2	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	HPVST	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	SPECT	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	XPDIR	
CALCOMP	INCOMPLETE	HYDRAULICS	P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
PRESTON C. PIERCE	CERC	DIGITAL TIME SERIES ANALYSIS
CALCOMP	INCOMPLETE	HYDRAULICS P
PRESTON C. PIERCE	CERC	WINDRO-PLOT OF WIND ROSE
CALCOMP	COMPLETE	HYDRAULICS P
JIM DAHLEN	NPS	GENERAL PURPOSE PLOT
CALCOMP	COMPLETE	PAVEMENTS P
JIM DAHLEN	NPS	X-SECTION PLOT
CALCOMP	INCOMPLETE	GENERAL P
JIM DAHLEN	NPS	3D-GRAPHICS
CALCOMP	COMPLETE	GENERAL P
JIM DAHLEN	NPS	HIGHWAY PERSPECTIVES
CALCOMP	COMPLETE	STRUCTURES P
JIM DAHLEN	NPS	PROFILE PLOT
CALCOMP	COMPLETE	GENERAL P
TONY STELMACK	NPS	DREDGE TRACK & SOUNDING PLOT
CALCOMP	COMPLETE	HYDRAULICS P
TONY STELMACK	NPS	PHOTOGRAMMETRIC MEASUREMENT OF MOVEMENT
CALCOMP	COMPLETE	MATHEMATIC P
BILL SAINT	MRO	GENERAL PLOT
CALCOMP	INCOMPLETE	GENERAL P
FRED TRACY	WES	CONTOUR
CALCOMP	COMPLETE	GENERAL P
JOHN SHINGLER	WES	DATA PLOTS
CALCOMP	COMPLETE	GENERAL P
RICKY AUSTIN	WES	PPCALC
CALCOMP	INCOMPLETE	STRUCTURES P
PRESTON C. PIERCE	CERC	OUTPUT
CALCOMP	INCOMPLETE	HYDRAULICS P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
CLYDE OKAZAKI	SPD	HYDROGRAPHIC SURVEY SYSTEM
CALCOMP	COMPLETE	HYDRAULICS P
CLYDE OKAZAKI	SPD	SALINITY SYSTEM
CALCOMP	COMPLETE	HYDRAULICS P
CLYDE OKAZAKI	SPD	HEC-2 PLOT
CALCOMP	COMPLETE	HYDRAULICS P
DON G. BRATTON	SWL	RIVER CROSS SECTIONS
CALCOMP	COMPLETE	HYDRRAULIC
DON G. BRATTON	SWL	WATER SURFACE PROFILE
CALCOMP	COMPLETE	HYDRAULICS P
DON G. BRATTON	SWL	POOL ELEVATIONS
CALCOMP	COMPLETE	HYDRAULICS P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
WILLIAM LAWHEAD	NCE	X-SECTION PLOTS
GCS	NONE	HYDRAULICS I
NORMAN R. SNYDER	SAM	HYDROLOGY
GCS	NONE	HYDRAULICS I
NORMAN R. SNYDER	SAM	FOUNDATION AND MATERIAL
GCS	NONE	GENERAL I
NORMAN R. SNYDER	SAM	EZPERT
GCS	NONE	GENERAL I
ART PABST	HEC	HEC-1
GCS	NONE	HYDRAULICS I
ART PABST	HEC	HEC-2
GCS	NONE	HYDRAULICS I
ANTHONY BOMBICH	WES	GPREFEM
GCS	COMPLETE	GENERAL I
ANTHONY BOMBICH	WES	GPOSTFEM
GCS	COMPLETE	GENERAL I
ANTHONY BOMBICH	WES	MULPLOT
GCS	COMPLETE	GENERAL I
GEORGE BRAGG	LMV	ZEUS
GCS	INCOMPLETE	HYDRAULICS I
DONALD R. WALKER	SWF	FP(TTS VERSION)
GCS	NONE	HYDRAULICS I
DONALD R. WALKER	SWF	PLOTCG(TTS VERSION OF BPLOTCG)
GCS	NONE	HYDRAULICS I
DONALD R. WALKER	SWF	GCSFTW(TTS VERSION OF FTWORTH)
GCS	NONE	HYDRAULICS I
FREDDIE RUSH	LMK	LIGHT
GCS	INCOMPLETE	ELECTRIC I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
MARTIN HEBLER	WES	H0001
GCS	INCOMPLETE	HYDRAULICS I
LARRY DAGGETT	WES	NONE
GCS	NONE	HYDRAULICS I
BRIAN KLEBER	LMS	INSTRUMENTATION DATA PLOT SYSTEM
GCS	INCOMPLETE	GENERAL P
ARCHIE GATHOST	MRK	SUPERB
GCS	COMPLETE	GENERAL I
BOB RENNER	WES	CURFIT
GCS	COMPLETE	MATHEMATIC I
JERRY WILLICK	LMS	INSTRUMENTATION DATA REDUCTION SYSTEM
GCS	INCOMPLETE	SOILS I
JOHN J. JOBST	LMS	FORAW
GCS	INCOMPLETE	STRUCTURES I
JOHN J. JOBST	LMS	PILEGEN
GCS	INCOMPLETE	STRUCTURES I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION AREA	MODE
RICHARD L. BEHARRY	ORD	GCGP2 CONTOUR PLOTTING
PLOT10	NONE SOILS	P
RICHARD L. BEHARRY	ORD	RESERVOIR OPERATION PLOTS
PLOT10	NONE HYDRAULICS	I
RICHARD L. BEHARRY	ORD	COMMODITY TONNAGE TRAFFIC
PLOT10	NONE HYDRAULICS	P
RICHARD L. BEHARRY	ORD	STAGE FORECASTS
PLOT10	NONE HYDRAULICS	I
JIM DAHLEN	NPS	COORDINATE POINT PLOT AND ANNOTATION
PLOT10	COMPLETE PAVEMENTS	I
PRESTON C. PIERCE	CERC	THRED
PLOT10	COMPLETE GENERAL	I

APPENDIX C - PROGRAMS LISTED BY MODE

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
WILLIAM LAWHEAD	NCE	X-SECTION PLOTS
GCS	NONE	HYDRAULICS	I
WARD POWERS	SAS	EZPERT
PLOT10	COMPLETE	GENERAL	I
WILL FORTE	ORN	MONTHLY RESERVOIR OPERATION PLOT PROGRAM
PLOT10	COMPLETE	HYDRAULICS	I
JACK BROWN	ORN	GPCP-II
PLOT10	COMPLETE	HYDRAULICS	I
SAM BRADLEY	ORN	PREPROCESSER PLOT PROGRAM FOR HEC-2 DATA
PLOT10	COMPLETE	HYDRAULICS	I
SAM BRADLEY	ORN	FATHOMETER STREAMBED ELEVATION COMPUTATION
PLOT10	COMPLETE	HYDRAULICS	I
NORMAN R. SNYDER	SAM	HYDROLOGY
GCS	NONE	HYDRAULICS	I
NORMAN R. SNYDER	SAM	FOUNDATION AND MATERIAL
GCS	NONE	GENERAL	I
NORMAN R. SNYDER	SAM	EZPERT
GCS	NONE	GENERAL	I
JAMES WALLER	SAW	INTERACTIVE HEC-2 CROSS SECTION PLOT
PLOT10	INCOMPLETE	HYDRAULICS	I
JAMES WALLER	SAW	INTERACTIVE RPS CROSS SECTION EDIT AND PLOT
PLOT10	COMPLETE	HYDRAULICS	I
BOB HAAVISTO	SPK	ZONED EMBANKMENT
PLOT10	NONE	SOILS	I
BOB HAAVISTO	SPK	TRAVERSE DATA FOR ROAD ALIGNMENTS
PLOT10	NONE	PAVEMENTS	I
BOB HAAVISTO	SPK	X-Y DATA PLOTS
PLOT10	NONE	MATHEMATIC	I
BOB HAAVISTO	SPK	DAM EMBANKMENT
PLOT10	NONE	SOILS	I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
BOB HAAVISTO	SPK	GENERAL PLOT 50 MATH ROUTINES
PLOT10	NONE	MATHEMATIC I
ART PABST	HEC	HEC-1
GCS	NONE	HYDRAULICS I
ART PABST	HEC	HEC-2
GCS	NONE	HYDRAULICS I
FERRELL ARD	SAD	EZPERT
PLOT10	COMPLETE	GENERAL I
ANTHONY BOMBICH	WES	GPREFEM
GCS	COMPLETE	GENERAL I
ANTHONY BOMBICH	WES	GPOSTFEM
GCS	COMPLETE	GENERAL I
ANTHONY BOMBICH	WES	MULPLOT
GCS	COMPLETE	GENERAL I
GEORGE BRAGG	LMV	ZEUS
GCS	INCOMPLETE	HYDRAULICS I
DONALD R. WALKER	SWF	FP(TTS VERSION)
GCS	NONE	HYDRAULICS I
DONALD R. WALKER	SWF	PLOTCG(TTS VERSION OF BPLOTCG)
GCS	NONE	HYDRAULICS I
DONALD R. WALKER	SWF	GCSFTW(TTS VERSION OF FTWORTH)
GCS	NONE	HYDRAULICS I
KLINE BENTLEY	SAJ	RWBD-RETRIEVE WATER BUDGET DATA
GPLOT	NONE	HYDRAULICS I
KLINE BENTLEY	SAJ	PWBD-PLOT WATER BUDGET DATA
GPLOT	NONE	HYDRAULICS I
KLINE BENTLEY	SAJ	GSPLT
GPLOT	COMPLETE	STATISTICS I
OSCAR B. KNAPPE	SAJ	RANGE POSITIONING SYSTEM DATA PLOT
GPLOT	NONE	HYDRAULICS I

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
RICHARD W. BUNNELL	SAJ	AREA-CAPACITY CURVE FROM DIGITIZED DATA	
GPLOT	INCOMPLETE	HYDRAULICS	I
RICHARD W. BUNNELL	SAJ	CROSS-SECTION DIGITIZER	
GPLOT	INCOMPLETE	HYDRAULICS	I
TOM ARNOLD	SAJ	WY48	
GPLOT	INCOMPLETE	HYDRAULICS	I
TOM ARNOLD	SAJ	STATISTICAL CURVILLINEAR REGRESSION	
GPLOT	COMPLETE	HYDRAULICS	I
TOM ARNOLD	SAJ	GENERAL LINEAR PLOTS	
GPLOT	INCOMPLETE	MATHEMATIC	I
TOM ARNOLD	SAJ	HISTORICAL TIME SERIES PLOT ROUTINE	
GPLOT	COMPLETE	MATHEMATIC	I
KLINE BENTLEY	SAJ	GENERAL LEAST SQUARES POLYNOMIAL DISTRIBUTION	
GPLOT	COMPLETE	MATHEMATIC	I
CARL B. DOUGHTY	NAP	HEC-2 SECTOR PLOT FOR TEKTRONIX	
PLOT10	COMPLETE	HYDRAULICS	I
RICHARD L. BEHARRY	ORD	RESERVOIR OPERATION PLOTS	
PLOT10	NONE	HYDRAULICS	I
RICHARD L. BEHARRY	ORD	STAGE FORECASTS	
PLOT10	NONE	HYDRAULICS	I
JIM DAHLEN	NPS	COORDINATE POINT PLOT AND ANNOTATION	
PLOT10	COMPLETE	PAVEMENTS	I
FREDDIE RUSH	LMK	LIGHT	
GCS	INCOMPLETE	ELECTRIC	I
MARTIN HEBLER	WES	H0001	
GCS	INCOMPLETE	HYDRAULICS	I
LARRY DAGGETT	WES	NONE	
GCS	NONE	HYDRAULICS	I
PRESTON C. PIERCE	CERC	THRED	
PLOT10	COMPLETE	GENERAL	I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION AREA	MODE
JANET SPOONAMORE	CERL	SEARCH
IG	INCOMPLETE STRUCTURES	I
ARCHIE GATROST	MRK	SUPERB
GCS	COMPLETE GENERAL	I
BOB RENNER	WES	CURFIT
GCS	COMPLETE MATHEMATIC	I
JERRY WILLICK	LMS	INSTRUMENTATION DATA REDUCTION SYSTEM
GCS	INCOMPLETE SOILS	I
JOHN J. JOBST	LMS	FORAW
GCS	INCOMPLETE STRUCTURES	I
JOHN J. JOBST	LMS	PILEGEN
GCS	INCOMPLETE STRUCTURES	I

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA MODE
WESLEY FAGER	NAO	PASSIVE PLOT OF BACKWATER CROSS SECTIONS
CALCOMP	COMPLETE	HYDRAULICS P
WESLEY FAGER	NAO	FINITE ELEMENT PROGRAMS OUTPUT-CONTOURS
CALCOMP	COMPLETE	SOILS P
RICHARD LANDIN	NAO	DESIGN ACTIVITY MILITARY-BARCHART PLOT
CALCOMP	COMPLETE	GENERAL P
NANCY L. WOLF	ORL	HYDROGRAPHIC SURVEY DATA PLOT
GERBER	INCOMPLETE	HYDRAULICS P
NANCY L. WOLF	ORL	BORING LOG PLOT
CALCOMP	NONE	SOILS P
NANCY L. WOLF	ORL	RELIEF WELL PLOT
CALCOMP	NONE	HYDRAULICS P
NANCY L. WOLF	ORL	PIEZOMETER PLOT
CALCOMP	NONE	HYDRAULICS P
NANCY L. WOLF	ORL	MONTHLY RESERVOIR REGULATION PLOT
CALCOMP	NONE	HYDRAULICS P
NANCY L. WOLF	ORL	CATHODIC PROTECTION RECORD PLOT
CALCOMP	INCOMPLETE	HYDRAULICS P
RICHARD GOWIN	ORL	POOL ELEVATION HYDROGRAPH WITH RULE CURVE
CALCOMP	INCOMPLETE	HYDRAULICS P
J. ROBERT BECK	ORL	CROSS SECTION PLOT
CALCOMP	INCOMPLETE	SOILS P
WARREN R. BENNETT JR	SAC	HEC-2 X-SECTS AND PROFILE PLOTS
CALCOMP	INCOMPLETE	HYDRAULICS P
JIM DAHLEN	ORN	DAILY STREAMFLOW PLOT
CALCOMP	COMPLETE	HYDRAULICS P
WAYNE ABERNATHY	ORN	HUNTINGTON DISTRICT EARTHWORK PLOT PROGRAM
CALCOMP	COMPLETE	SOILS P
JAMES WALLER	SAW	BACKWATER CROSS SECTION PLOT
CALCOMP	INCOMPLETE	HYDRAULICS P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
JAMES WALLER	SAW	EARTHWORK CROSS SECTION PLOT
CALCOMP	COMPLETE	SOILS	P
JAMES WALLER	SAW	RPS CROSS SECTION PLOT
CALCOMP	COMPLETE	HYDRAULICS	P
JAMES WALLER	SAW	RPS MAP PLOT
CALCOMP	COMPLETE	HYDRAULICS	P
JAMES WALLER	SAW	MONTHLY RESERVOIR REGULATION CHART PLOT
CALCOMP	COMPLETE	HYDRAULICS	P
JAMES WALLER	SAW	WAVE REFRACTION PLOT
CALCOMP	INCOMPLETE	HYDRAULICS	P
ROBERT W. SCHMITT	ORP	PROFILE PLOT FOR CHANNELS
CALCOMP	COMPLETE	HYDRAULICS	P
LOWELL R. HOY	ORP	CALCOMP GPCPII
CALCOMP	COMPLETE	HYDRAULICS	P
WILLIAM H. SALESKY	ORP	PLOT OF DAILY FLOW BY YEAR
CALCOMP	INCOMPLETE	HYDRAULICS	P
ROBERT W. SCHMITT	ORP	CROSS-SECTION PLOT FROM HEC-2 DECK
CAKCINO	NONE	HYDRAULICS	P
DONALD R. WALKER	SWF	BPLOTCG(BATCH VERSION)
CALCOMP	NONE	HYDRAULICS	P
DONALD R. WALKER	SWF	FTWORTH
CALCOMP	NONE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	RIVER BASIN PLOT
CALCOMP	COMPLETE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	BACKWATER PROFILE PLOT
CALCOMP	INCOMPLETE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	MONTHLY RESERVOIR REGULATION REPORT
CALCOMP	COMPLETE	HYDRAULICS	P
CARL B. DOUGHTY	NAP	AUTOTAPE RANGE/RANGE CHART PLOT
CALCOMP	COMPLETE	HYDRAULICS	P

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
PRESTON C. PIERCE	CERC	SCATTER-SCATTER PLOT OF WAVE HTS & PERIODS	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	WAVEHR-PLOT OF WAVE HEIGHT ROSE	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	WAVEPR-PLOT OF WAVE PERIOD ROSE	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	SURVY1	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	SURVY2	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	BEACH	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	VOLCTR	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	MEANS	
CALCOMP	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	ELVDIS	
CALCOMP	NONE	HYDRAULICS	P
RICHARD L. BEHARRY	ORD	GCGP2 CONTOUR PLOTTING	
PLOT10	NONE	SOILS	P
RICHARD L. BEHARRY	ORD	COMMODITY TONNAGE TRAFFIC	
PLOT10	NONE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	INLET-2	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	HPVST	
CALCOMP	COMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	SPECT	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	XPDIR	
CALCOMP	INCOMPLETE	HYDRAULICS	P

NAME	OFFICE	PROGRAM NAME	
LANGUAGE	DOCUMENTATION	AREA	MODE
PRESTON C. PIERCE	CERC	DIGITAL TIME SERIES ANALYSIS	
CALCOMP	INCOMPLETE	HYDRAULICS	P
PRESTON C. PIERCE	CERC	WINDRO-PLOT OF WIND ROSE	
CALCOMP	COMPLETE	HYDRAULICS	P
JIM DAHLEN	NPS	GENERAL PURPOSE PLOT	
CALCOMP	COMPLETE	PAVEMENTS	P
JIM DAHLEN	NPS	X-SECTION PLOT	
CALCOMP	INCOMPLETE	GENERAL	P
JIM DAHLEN	NPS	3D-GRAPHICS	
CALCOMP	COMPLETE	GENERAL	P
JIM DAHLEN	NPS	HIGHWAY PERSPECTIVES	
CALCOMP	COMPLETE	STRUCTURES	P
JIM DAHLEN	NPS	PROFILE PLOT	
CALCOMP	COMPLETE	GENERAL	P
TONY STELMACK	NPS	DREDGE TRACK & SOUNDING PLOT	
CALCOMP	COMPLETE	HYDRAULICS	P
TONY STELMACK	NPS	PHOTOGRAMMETRIC MEASUREMENT OF MOVEMENT	
CALCOMP	COMPLETE	MATHEMATIC	P
BILL SAINT	MRD	GENERAL PLOT	
CALCOMP	INCOMPLETE	GENERAL	P
FRED TRACY	WES	CONTOUR	
CALCOMP	COMPLETE	GENERAL	P
JOHN SHINGLER	WES	DATA PLOTS	
CALCOMP	COMPLETE	GENERAL	P
KENT TURNER	WES	WAVE:DATA REDUCTION PROGRAM	
VERSAPLOT	INCOMPLETE	HYDRAULICS	P
RICKY AUSTIN	WES	PPCALC	
CALCOMP	INCOMPLETE	STRUCTURES	P
PRESTON C. PIERCE	CERC	OUTPUT	
CALCOMP	INCOMPLETE	HYDRAULICS	P

NAME	OFFICE	PROGRAM NAME
LANGUAGE	DOCUMENTATION	AREA	MODE
CLYDE OKAZAKI	SPD	HYDROGRAPHIC SURVEY SYSTEM
CALCOMP	COMPLETE	HYDRAULICS	P
CLYDE OKAZAKI	SPD	SALINITY SYSTEM
CALCOMP	COMPLETE	HYDRAULICS	P
CLYDE OKAZAKI	SPD	HEC-2 PLOT
CALCOMP	COMPLETE	HYDRAULICS	P
DON G. BRATTON	SWL	WATER SURFACE PROFILE
CALCOMP	COMPLETE	HYDRAULICS	P
DON G. BRATTON	SWL	POOL ELEVATIONS
CALCOMP	COMPLETE	HYDRAULICS	P
BRIAN KLEBER	LMS	INSTRUMENTATION DATA PLOT SYSTEM
GCS	INCOMPLETE	GENERAL	P