

15. COMPUTER PRODUCT ABSTRACT

The computer program STATS is designed to reduce large volumes of daily or monthly data to a few meaningful statistics or curves. The program will perform the following analyses: (1) duration curves, (2) annual maximum events, (3) annual minimum events (4) departures of monthly and annual values from respective means, and (5) annual volume-duration exchange of high and low events.

The daily or monthly data to be used as input to this program can follow in the data file or the data can be accessed through HEC's Data Storage System (DSS). This latter capability provides for the analysis of output from other HEC programs like HEC5. The frequency analysis may be analytical for data that tends to follow a theoretical distribution, e.g. annual maximum daily flows; or graphical for those data that do not tend to follow any known distribution, e.g. regulated flows. The input data may be transformed to logarithms for the statistical analyses, if so desired...Software Description: The software is written in the Fortran programming language for implementation on IBM-PC or compatible machines using MS/PC DOS 2.1+ operating system. Memory requirement is 512K. Special features/requirements: Math coprocessor (8087/80287/80387).

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16. DATA FILE TECHNICAL DESCRIPTION

The software is contained on 5¼-inch diskette(s), double density (360K), compatible with the IBM/PC microcomputer. The diskettes are in the ASCII format.

17. SOFTWARE TECHNICAL DESCRIPTION

Software is written in:

Fortran COBOL _____ Basic _____ Assembly _____ Other (Specify) _____

Software requires:

CPR Mfr. IBM PC Model(s) _____ Operating system(s) MS/PC DOS 2.1+

Minimum of 512 K bytes core. The following special features and/or additional requirements in hardware:

One 5 1/4 inch floppy disk drive.

Math coprocessor (8087/80287/80387)

SIGNATURE OF AGENCY REPRESENTATIVE, PHONE NO., AND DATE

SIGNATURE OF NTIS REPRESENTATIVE AND DATE FORM PREPARED

COMPUTER MAGNETIC TAPE FILE PROPERTIES

01. Completion Date Year: Month: Day:			02. Form Prepared By (Name and Phone) Vernon R. Bonner			03. Reel ID Number (Property Control No.)		
04. Recording Date Year: Month: Day:			05. File Identifier or Descriptive Title Statistical Analysis of Time Series Data (STATS)			06. Short Title (External Label Number) STATS		
07. Source Unavailable Year: Month: Day:			08. Documentation Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Available (Enter Citation)			09. File Position on Reel _____ of _____		
10. To Be Returned Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> To Other Than The Sender			11. Submitting Organization & Address Department of Army The Hydrologic Engineering Center Corps of Engineers 609 Second Street Davis, California 95616			12. Receiving Organization & Address United States Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161		
13. Due Back Date Year: Month: Day:			14. Technical Contact(s) & Phone Number(s) Harold Kubik, Harry Dotson (916) 551-1748					

RECORDING SYSTEM CHARACTERISTICS

EQUIPMENT MANUFACTURER AND MODEL	15. Processing Unit IBM PC or compatibles	17. No. of Tracks			18. Parity		19. Density (BPI)
	16. Tape Subsystem	7	9	Other	Odd	Even	
RECORDING SOFTWARE	20. Operating System, Release & Version MS DOS 2.1 or greater		22. Internal File Identifier				
	21. Utility Program or Data Base Language						
23. Characters Set (Graphics) <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> BCD <input type="checkbox"/> Other (Specify) <input type="checkbox"/> EBCDIC <input type="checkbox"/> FIELDATA <input type="checkbox"/> Non-Print Codes			24. Recorded Label (Internal Label) <input type="checkbox"/> Header <input type="checkbox"/> ANSI X 3.27 Standard <input type="checkbox"/> Other <input type="checkbox"/> Trailer <input type="checkbox"/> FIPS Standard <input checked="" type="checkbox"/> None				

FILE CHARACTERISTICS

NUMBER OF RECORDS	25. Physical	27. Record Type <input checked="" type="checkbox"/> Fixed Length <input type="checkbox"/> Other Than Fixed		28. Records/Block (Blocking Factor) 1	29. TYPE OF FILE ORGANIZATION (Check One Box) <input type="checkbox"/> One File One Reel <input type="checkbox"/> One File Multiple Reels <input checked="" type="checkbox"/> Multiple Files One Diskette <input type="checkbox"/> Multiple Files Multiple Diskettes
	26. Logical				
RECORD LENGTH	30. Physical 80 <input checked="" type="checkbox"/> Bytes <input type="checkbox"/> Chars. <input type="checkbox"/> Words (Bits/Word)	31. Logical <input type="checkbox"/> Bytes <input type="checkbox"/> Chars. <input type="checkbox"/> Words (Bits/Word)			

SUPPLEMENTAL INFORMATION

32. Use/Handling Constraints (Specify if Yes)	
Yes	No
	<input checked="" type="checkbox"/>
33. For Submitting Organization Use STATS is provided on one 5 1/4 double-sided 360 KB floppy diskette. Implementation guide in file README.DOC.	