S̲t. P̲aul C̲ampus C̲omputing N̲ewsletter

COMPUTING NEWSLETTER MAILING LIST

The publishing of the St. Paul Campus Computing Newsletter represents a consolidated effort by all computing-related groups on the St. Paul Campus to keep the University staff informed of the computing facilities and services available on this campus. This issue of the newsletter is being distributed more widely than usual with the intent of reaching individuals who may be interested in continuing to receive it, but are not presently on our mailing list. We also invite recipients of this newsletter to pass it on to colleagues who may be interested in being added to our mailing list.

Individuals receiving a complimentary copy of the newsletter (these are addressed on large 3"x5" pressure sensitive labels) will not automatically continue to receive it unless they return the cutaway portion on the back of this newsletter. Those previously on our mailing list (addressed with small pressure sensitive labels) will continue to remain on the list without returning the cutaway portion.

We invite anyone with computing-related material for the newsletter or with suggestions for future issues to contact Mel Sauve, 27 North Hall, 373-0987.

COMPUTING CENTER (North Hall)

1. ANNOUNCEMENTS

a. We are now entering our heavy computing season for the IBM 360/30. Although the hours of operation and access to the facilities in North Hall will remain essentially the same as is indicated in the table at the end of the newsletter, it will be necessary to modify our users' access to the 360 occasionally. Any major scheduling changes will be posted in room 22. Generally the 360 system is made available for short-term computing work from 8:00 a.m. to 7:00 p.m. daily. Lengthy computer runs generally are scheduled after 7:00 p.m.

b. The operation and programming of the Hewlett-Packard programmable calculator (with digitizer and X-Y plotter) are demonstrated periodically. Those wanting a demonstration of this equipment should make their desires known to our secretary, Mrs. Eva Klein, 373-0987.

c. The Center places an open invitation to current and prospective users for requests related to the offering of information seminars on the programs of general interest and the types of services the Computing Center has to offer. This invitation includes providing tours of our facilities and demonstrations of equipment to any organized group or class. Interested users or groups should contact Mel Sauve, 27 North Hall, 373-0987, for making the necessary arrangements.

2. INTRODUCTORY AND ORIENTATION SEMINAR

An introductory seminar for new and prospective users of the equipment and services available in the Computing Center is scheduled for Wednesday, October 29, from 3:05 to 4:30 p.m., in room 6A North Hall. Those wishing to attend this seminar should call or write Mrs. Eva Klein, 27 North Hall (373-0987), providing her with your name, department and telephone number.

The subject matter of the seminar will relate to the following topics:

Equipment
a. IBM 360 model 30
b. Univac 1004 terminal
c. Teletype Terminal (MIRJE)
d. Hewlett-Packard programmable calculator
e. Unit-record equipment (sorters, reproducers, etc.)
f. Keypunch equipment
g. Miscellaneous equipment (copier, burster, decollator, etc.)

Services
a. Application programming
b. Computer programming consulting
c. Keypunching
d. Unit-record and computer equipment operations
e. Software available

Miscellaneous
a. Card and paper supplies available
b. Magnetic tape, card and printout storage facilities
c. Open-shop operations
d. Account numbers and cost of services
e. Access to facilities and hours of work
f. Tours, demonstrations and short courses available

3. COMPLETE WEATHER DATA FILE NOW AVAILABLE

A cooperative effort by Computing Center personnel and Dr. Donald Baker and his staff in Soil Science has produced a complete weather data file containing daily weather information (maximum temperature, minimum temperature, and amount of precipitation) for 11 Minnesota weather station locations.

The table below indicates the inclusive dates of the daily weather information records that are available by location.

Station name	Inclusive dates
Bird Island	January 5, 1901–December 31, 1973
Cloquet	April 1, 1911–December 31, 1973
Crookston	January 1, 1890–December 31, 1973
Grand Rapids	June 1, 1915–December 31, 1973
Itasca	January 1, 1912–December 31, 1973
Lamberton	October 1, 1960–December 31, 1973
Minneapolis	January 1, 1891–December 31, 1973

Morris	January 1, 1886–December 31, 1973
Pine River	January 1, 1901–December 31, 1973
Waseca	January 2, 1915–December 31, 1973
Worthington	January 1, 1894–December 31, 1973

Researchers wishing to use the weather data file should contact Dr. Donald Baker in Soil Science (373-1356), so that proper arrangements may be made with Computing Center operations.

4. DATA ENTRY CONVENTIONS AND WORKLOADS

Because invariably we have a heavy fall rush for keypunching services, we request that users submit their data as early as possible. Early submittal of work should enable the Center to meet most deadlines. This will also give Data Entry Supervisors maximum flexibility for setting priorities and scheduling work assignments.

In submitting punching jobs to our data entry section, it is better (speedier, less apt to err and generally less expensive) if the following rules are adhered to:

a. The letters 'I' and 'O' should be recorded as I and Ø.

b. The numbers one and zero should be recorded as 1 and 0.

c. Dashes or lines should not be used to indicate missing data or blank columns; instead its corresponding space should be left blank.

d. When card corrections are indicated on the card itself, they should be written on the opposite end of the card.

e. When possible, it is desirable that 40x80 column sheets (which can contain forty 80-column card images and are available free of charge from the Center) be utilized for recording data. These sheets are large enough so data can be legibly recorded with adequate dimensions. The use of these sheets will generally effect a **substantial reduction in cost** to the user.

f. FORTRAN programs should be coded on FORTRAN coding sheets when available.

g. Data containing special characters, such as FORTRAN programs, which are to be run on the CDC equipment should be noted as such. By this, operators will be alerted to the need of using the 48-character punch codes that are compatible to the CDC equipment. Unless indicated otherwise, the 64-character punch codes (those common to IBM 360 operation) will be assumed.

h. Generally, the Center's first priority is to keep its ongoing recurring projects as up-to-date as possible and also to oblige the user who has small amounts of data to be punched. Most of the other data entry demands fall into a first-come, first-served category. We therefore emphasize that users who have large amounts of data for punching submit their work at the earliest possible time to allow ample time for data entry and subsequent data analysis.

Minnesota Analysis and Planning System (MAPS)

1. ASSOCIATION OF PUBLIC DATA USERS

In order to overcome some of the problems of accessing the growing number of public statistical data files and to save money in the acquisition and use of these files, a number of organizations have formed a national Association of Public Data Users.

The Association, which was formed in mid-June and includes MAPS, also plans to inform members of new events related to public data availability, to define services members need, and to maintain a central directory of each member's public data.

The directory will facilitate sharing and exchange of data sets and avoid unnecessary duplication. Future activities will include creation of software for public data use that will be suitable for all members' data applications.

What this means for MAPS and its clients is a broad exposure to public data files.

2. MAPS USERS SEMINAR

The remaining dates for the 1975–76 schedule of MAPS Users Seminars are as follows: December 9, February 10, April 13, and June 8.

Each Seminar is designed to inform users about MAPS extensive data base, services, facilities and computer-related activities. To register for the half-day Seminar or for additional information, call the MAPS office. (376-7003)

3. PERSONAL INCOME FIGURES BY SOURCE

Personal income of Minnesota residents by major sources for the year 1973 has recently become part of the MAPS data base, which already includes income breakdowns for 1969–72.

The figures, released by the Regional Economics Information System of the Bureau of Economic Analysis, provide total labor and proprietor's income by place of work, and the derivation of personal income by place of residence.

The information, given in the thousands of dollars and by percentages on the analytic tables, is for the entire state of Minnesota, all its counties, and the five Standard Metropolitan Statistical Areas (SMSA's).

4. NEW MAPS BROCHURE AVAILABLE

An updated version of the Minnesota Analysis and Planning System Brochure is available for distribution. The new Brochure provides a detailed look at the MAPS organization, personnel, operational programs, publications, fee structure and available abstracts.

For a copy of the Brochure, which is illustrated with a number of photographs, call or write the MAPS office at 415 Coffey Hall, University of Minnesota, St. Paul, MN 55108. Ph. 612-376-7003.

Classroom Office Building Computing Facilities

Extensive facilities for computing and consulting are available to the St. Paul Campus community in Room 125, Classroom Office Building. The facilities available, and their schedules are as follows:

A. Interactive computing laboratory. Room 125E houses the St. Paul Campus Instructional Time Sharing Laboratory, sponsored jointly by the University Computer Center and the Department of Applied Statistics. The lab has twelve terminals offering hard-wired and dial-up connections to the MERITSS CYBER 72 computer, and the MECC Univac 1110. A variety of terminals are available, including an APL/graphics terminal (Tectronix 4013), several 132 character per line printing terminals (Decwriters, TTY38 and a DI/AN 9030), and two Hazeltine CRTs (with hard copy capability).

The lab will be open from 8:00 a.m. to 9:00 p.m., MWF and 8:30 a.m. to 9:00 p.m. on TTh and from 9:00 a.m. to 2:00 p.m. on Saturday. Undergraduate consultants will be on duty for approximately 50 hours per week, including all evening and early morning hours; the consultants' schedule will vary slightly from quarter to quarter and will be posted in the lab.

The interactive lab may be reserved by instructors for classroom use by calling S. Weisberg, 373-1068. Please note that classes will not be scheduled in the lab for consecutive hours, so that not all hours will be available. Individual terminals can be reserved in advance by students or faculty for times when no class is scheduled, by signing up in the reservation book in Room 125E.

For after hours use, a key to the lab may be signed out overnight or for the weekend in Room 352 before 4:15 p.m.; students will be required to leave their student I.D. card to check out a key.

B. Remote entry. A Univac 1004 terminal permitting communication with the University's CDC CYBER 74 computer is located in Room 125G. One model 026 keypunch is also available for short term use. For consultants, hours and keys, see the interactive lab information above.

C. Statistical Computing Consultants. As a service to the St. Paul Campus community, the University Computer Center and the Department of Applied Statistics provide statistical computing consultants. These consultants, graduate students in the School of Statistics, can provide assistance in the use of most of the standard statistical computing programs available at the University, including SPSS, BMD, OMNITAB, IMSL, UMST, SNAP, ISIS. In addition, some advice on data management, tape handling, etc. will be available.

Consultants' hours will vary from quarter to quarter and will always be posted on the door to Room 125C. The Fall Quarter consultants and their hours are:

David Aarons	MWF	1 – 5
Ron Christensen	TTh	10 – 1
Rick Picard	T	1:30 – 4:30 Th 1 – 4

Any questions or problems concerning statistical computing consulting should be directed to S. Weisberg (373-1068) or C. Bingham (373-0988).

D. The Statistical Clinic. The Statistical Clinic is supervised and scheduled by the Statistical Center, the consulting arm of the School of Statistics. The Clinic is a service available to the entire University Community, especially graduate students with problems that arise in their research. Frank Martin (373-1048) is a source of further information on this service. The Clinic is staffed by statistics graduate students and should be the first place to turn for statistical advice. The consultants' hours are:

Doug Kess	MW	8 – 10; TTh 12 – 4
Ron Christensen	T	10 – 12
Larry Pearson	F	11 – 1

Students and faculty who regularly require access to the Classroom Office Building computer facility outside scheduled hours may obtain a key from the Applied Statistics Secretary in Room 352 if substantial need can be established.

BIOLOGICAL SCIENCES COMPUTING FACILITY

The Biological Sciences computing facility (253 Bio Center) will be open 24 hours a day. The building will be locked, however, after 6:00 p.m. People wishing to use the terminal after this time should contact PamKaufman (Office 276) or Ralph Comstock (Office 274) for temporary use of a building key. Users are asked to turn off equipment when finished after 4:30 p.m. A limited supply of cards is available (users are asked to furnish their own cards for large jobs).

MAILING LIST CHANGES

Should you wish to make changes to our newsletter mailing list, please check the appropriate box, print your name, address and department, then return this section to Mrs. Eva Klein, 27 North Hall, St. Paul Campus.

☐ Remove the following name(s) from the mailing list.

☐ Add the following name(s) to the mailing list.

☐ Make the following corrections.

Name_____

Department_____

Campus Address_____

Name_____

Department_____

Campus Address_____

Name_____

Department_____

Campus Address_____

Name_____

Department_____

Campus Address_____

GENERAL INFORMATION ABOUT COMPUTING EQUIPMENT BY LOCATION

Equipment Type	Location	Hours of Service	Key Staff Personnel	Telephone
IBM 360/30 computer	22 North Hall	8:00 a.m.—4:30 p.m. (M-F)	Dave Schempp (consultant)	373-0987
		7:00 a.m.—5:30 p.m. (M-F)	Key Punch Supervisors	373-0992
		8:00 a.m.—4:30 p.m. (M-F)	Secretary (Account clerk)	373-0990
		7:00 a.m.—Midnight (M-F)	Operations staff	373-0990
		8:00 a.m.—Noon, Sat.	Operations staff	373-0990
Univac 1004 terminal	24 North Hall	8:00 a.m.—4:30 p.m. (M-F)	Jim Colten (consultant)	373-0987
		7:00 a.m.—Midnight (M-F)	Operations staff	373-0990
		8:00 a.m.—Noon, Sat.	Operations staff	373-0990
MIRJE teletype terminal (for research use only)	24 North Hall	8:00 a.m.—4:30 p.m. (M-F)	Jim Colten (consultant)	373-0987
		7:00 a.m.—Midnight (M-F)	Operations staff	373-0990
		8:00 a.m.—Noon, Sat.	Operations staff	373-0990
Hewlett-Packard 9100B	20 North Hall	By arrangement	Secretary or Operations staff	373-0990
CDC 200 terminal	415 Coffey Hall	7:45 a.m.—9:30 p.m. (M-F)	Dave Nelson	376-7003
		7:45 a.m.—9:30 p.m. (M-F)	Tom Ehlen	376-7003
		7:45 a.m.—4:30 p.m. (M-F) (after hours use by arrangement)	Elaine Greenfield (office supervisor)	376-7003
MIRJE teletype terminal (for research use only)	415 Coffey Hall	7:45 a.m.—9:30 p.m. (M-F)	Dave Nelson	376-7003
		7:45 a.m.—9:30 p.m. (M-F)	Tom Ehlen	376-7003
		7:45 a.m.—4:30 p.m. (M-F) (after hours use by arrangement)	Elaine Greenfield (office supervisor)	376-7003
Univac 1004 terminal	125G Classroom Office Building	8:00 a.m.—9:00 p.m. (MWF)	Consultant	373-0829, 376-3846
		8:30 a.m.—9:00 p.m. (TTh)	L. Lawton (secretary)	373-1037
		9:00 a.m.—2:00 p.m. (Sat.)	C. Bingham	373-0988
			S. Weisberg	373-1068
Interactive instructional lab	125E Classroom Office Building	8:00 a.m.—9:00 p.m. (MWF)	Consultant	373-0829, 376-3846
		8:30 a.m.—9:00 p.m. (TTh)	L. Lawton (secretary)	373-1037
		9:00 a.m.—2:00 p.m. (Sat.)	S. Weisberg	373-1068
Univac 1004 terminal	257 Biological Science	9:00 a.m.—4:30 p.m. (M-F)	Pam Kaufman (consultant)	376-3067