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COMPUTERS IN HIGHER EDUCATION--EXPENDITURES, SOURCES OF
FUNDS, AND UTILIZATION FOR RESEARCH AND INSTRUCTION 1964-65,
WITH PROJECTIONS FOR 1968-69. A REPORT ON A SURVEY.
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PUB DATE   AUG 67

EDRS PRICE   MF-$1.25 HC-$13.20   328P.

DESCRIPTORS- *COMPUTERS, *HIGHER EDUCATION, *EDUCATIONAL
PROGRAMS, *COMPUTER SCIENCE, *COMPUTER EDUCATION,
EXPENDITURES, FINANCIAL SUPPORT, DOCTORAL DEGREES, MASTERS
DEGREES, BACHELORS DEGREES, POST SECONDARY EDUCATION,
SURVEYS, PREDICTION, EDUCATIONAL RESEARCH, INSTRUCTION,
TABLES (DATA), STATISTICAL ANALYSIS, ATLANTA,

THIS SURVEY RELATES ESTIMATES ON (1) AMOUNT AND SOURCE
OF COLLEGE AND UNIVERSITY EXPENDITURES FOR COMPUTERS IN
RESEARCH AND INSTRUCTIONAL ACTIVITIES, (2) AVAILABILITY OF
COMPUTERS AND DISTRIBUTION OF RESEARCH AND INSTRUCTIONAL
USAGE IN GRADUATE AND UNDERGRADUATE ACADEMIC AREAS, AND (3)
DEGREE PROGRAMS OFFERED IN COMPUTER SCIENCE. A STRATIFIED
RANDOM SAMPLE OF APPROXIMATELY 700 OF THE 2,200 INSTITUTIONS
OF HIGHER EDUCATION WAS EMPLOYED TO OBTAIN ESTIMATES FOR THE
ENTIRE POPULATION. RECOMMENDATIONS ARE MADE FOR FURTHER
STUDY. (HW)

Computers in higher education

Expenditures, sources of funds and utilization for research and instruction, 1964-1965, with projections for 1968-1969.

Southern Regional Education Board

COMPUTERS IN HIGHER EDUCATION

Expenditures, Sources of Funds, and Utilization
for Research and Instruction 1964-65, with
Projections for 1968-69

A Report on a Survey Conducted
Under a Contract with the
National Science Foundation

by
John W. Hamblen
Director, Computer Sciences Project

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I. DISCUSSION

A. INTRODUCTION

1. Need for Data on Computers in Colleges and Universities

Long before the often-mentioned Rosser Report[1] was completed it became
obvious to many government agency officials that a very rapid expansion
of the computer facilities of colleges and universities was in the offing.
The nation's research and development programs, particularly those related
to the nation's defense and space efforts, were already heavily dependent
upon the computer. The need for more and more computers in the colleges
and universities was foreseen in order for their research programs to
keep pace with governmental and industrial research activities, and for
their graduates to be knowledgeable as to their use. At the same time
it was predicted that the nation's higher institutions must begin to
educate thousands of computer scientists and computer technologists.

The Mathematical Sciences Section of the National Science Foundation
developed and tested a questionnaire which could be used to provide the
kind of information needed for future planning of the relevant government
agencies. This questionnaire, with only minor revisions, was used in the
survey reported on in this document. (See Appendix E for complete copy
of Questionnaire.)

2. Purpose of Survey

How much are colleges and universities spending for computers in their
research and instructional activities and where does the money come from?
What computers do they have and expect to have, how is the research and
instructional usage distributed over academic area and undergraduate
vs. graduate use? What degree programs are being offered in computer
science and how many students are getting computer education? These are
some of the questions answered by the results of a statistical survey
carried out during the 1967 fiscal year by the Computer Sciences Project
of the Southern Regional Education Board with the support of the National
Science Foundation. Fiscal year 1965 was used as the base year for actual
expenditures and sources of funds and fiscal year 1969 was used for projections
by the institutions.

A stratified random sample of approximately 700 of the 2200 institutions
of higher education was employed to obtain estimates for the entire
population. (See Appendix A for details of the sampling design.)

B. DISCUSSION: ALL INSTITUTIONS

1. Total Expenditures

103 million ($) was spent on computer equipment and its operation for
research and instructional purposes by the nation's colleges and universities

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[1] *Digital Computer Needs in Universities and Colleges* (Rosser Report)
National Academy of Sciences, National Research Council, Washington, D. C.,
1966, 176 p.

during fiscal year 1965. An additional 41 million ($) was contributed
by the computer manufacturers in the form of educational allowances on
purchases and rentals, gifts of equipment and other assistance. For
the fiscal year 1969 the institutions expect to spend 276 million ($) for
the same purposes. The manufacturers will contribute an additional amount
which is not likely to be too different from the 41 million of 1965 because
of the recent lowering of educational discounts. During FY 65, 30 million
($) was spent on salaries for approximately 5000 staff members at all
levels with an expected increase to 69 million ($) for FY 69 on twice
as many staff. Nearly 50 million ($), or almost one-half of the total
expenditures, was spent on computers and peripheral equipment in the
form of purchases, maintenance, and rentals. To this should be added
the more than 40 million ($) contributed by the manufacturers which
brings the total value to 90 million ($) for computer equipment used by
the higher institutions for research and instruction during FY 65. For
FY 69 the total value of hardware is estimated to be approximately 180
million ($) with the manufacturers contributions remaining at about the
40 million ($) level (This is a calculated guess, not a statistical
estimation.). Total capital expenditures, i.e., costs of purchases of
equipment, (including computer purchases) buildings, and furniture, are
expected to increase from around 25 million[1] ($) in FY 65 to about 70
million in FY 69.

These items along with further details are presented in tables 1, 2, and
3. (The population estimates have been superimposed on an exact copy
of the corresponding part of the questionnaire for the readers' convenience.)

2. Sources of Funds

Of the 103 million ($) expended[1] by the institutions in FY 65 over 43 million
($) (40%) came from Federal government agencies in the form of contracts
and grants. Nearly 25 million ($) of these Federal funds were designated
"primarily for computer activities." General institutional funds contributed
51 million ($) (47%). For FY 69 the institutions are expecting 109 million
($) (39%) of the 276 million ($) total to come from Federal sources and to
increase "their own" expenditures to 142 million ($) (51%) (see table 4.).

Of the 25 million ($) in Federal funds which were labeled "primarily for
computer activities" over 13 million ($) was designated for rental or
purchase of equipment and buildings; 7 million was spent for their operation;
3 million was used to pay for computer time for research, development, and
graduate instruction; less than $\frac{1}{2}$ million was used to pay for computer time
for undergraduate instruction; and nearly $1\frac{1}{2}$ million for Computer Science
Activities. For such purposes the schools are expecting a two to four-fold
increase in assistance from federal and non-federal sources for FY 69. The
total is estimated to go from 32 million in FY 65 to 86 million (see table 5)
in FY 69. (These figures are obtained by summing across rows C and D.)

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[1]This figure differs from that shown in table 4 since a few institutions
reported on FY 66 because records "were not available" for FY 65.

Table 1 (from page VI-A-39)

Current Expenditures for Digital Computer Activities
by Cost Items and Number of Personnel
All Institutions
SAMPLE SIZE 669   POP. SIZE 2219

Item III.

Cost Item	1964-5	1968-9 Projection
A. Current (1964-5) and Projected (1968-9) expenditures for digital computer activities		
1. Equipment rentals	27,296,000.00	88,607,000.00
2. Rental or costs for building space to house computer activities	1,605,000.00	5,087,000.00
3. Maintenance costs not already included in (1) or (2)	2,451,000.00	4,524,000.00
4. Salaries and wages of personnel...............Total	29,897,000.00	69,464,000.00
a. Systems and utility programmers	9,661,000.00	25,873,000.00
b. Administrative and other professional	10,248,000.00	23,363,000.00
c. All other (e.g., keypunch and other operators, clerical, technicians)	9,971,000.00	20,211,000.00
5. Costs for purchase of off-campus computing service	625,000.00	761,000.00
6. Other direct costs (including materials and supplies)	6,985,000.00	14,437,000.00
7. Indirect costs (general institutional administrative and general expense allocation)	9,615,000.00	23,870,000.00
Total	78,518,000.00	206,799,000.00

	Number of Personnel	
	1964-5	1968-9 Projection
B. Please indicate full time equivalent number employed for items 4 (a), 4 (b), and 4 (c) above:		
1. Systems and utility programmers	1,335	3,083
2. Administrative and other professional	1,081	2,164
3. All other (keypunch and other operators, clerical, technicians, etc.)	2,428	4,478
Total	4,862	9,741

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Item IV.

Table 2 (from page VI-A-39)

Capital Expenditures for Digital Computer Activities

All Institutions

SAMPLE SIZE 669 POP. SIZE 2219

Year	Item			Total
	Computers and Peripheral Equipment	Buildings to House Computer Activit s	Furniture, Fixtures, and other Equipment	
1964-5	18,847,000.00	4,287,000.00	1,352,000.00	24,494,000.00
1965-6 projection	17,449,000.00	8,238,000.00	1,305,000.00	27,004,000.00
1966-7 projection	27,800,000.00	14,921,000.00	2,132,000.00	44,864,000.00
1967-8 projection	21,179,000.00	26,603,000.00	2,630,000.00	50,422,000.00
1968-9 projection	43,896,000.00	21,606,000.00	3,957,000.00	69,469,000.00

Table 3 (from page VI-B-38)
Additional Institutional and Manufacturers' Contributions
All Institutions
SAMPLE SIZE 669   POP. SIZE 2219

Item VI.

A. Adequacy of charges as a means of support for sponsored research and development projects

1. Did money received from sponsored R&D projects for computer usage equal the amount actually used in the case of

   a. R&D projects sponsored by the Federal Government — Yes ___ 140 ___ No

   b. R&D projects sponsored by non-Federal agencies (excluding institution's own funds) — Yes ___ 104 ___ No

2. If "no" in 1 (a) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by Federal agencies.   6,314,000.00

3. If "no" to 1 (b) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by non-Federal agencies.   2,135,000.00

B. Equipment manufacturers' contribution

1. Estimated contributions toward purchase and/or rental of equipment made available from manufacturers in the form of discounts, allowances, etc., 1964-5.

Current Expenditures	25,021,000.00
Capital Expenditures	16,386,000.00
Total	41,411,000.00

Item II.

Table 4 (from page VI-A-39)

Current and Capital Expenditures for Digital Computer Activities,*
by Source of Funds for Reporting Period
All Institutions
SAMPLE SIZE 669   POP. SIZE 2219

Source of Funds	Current expenditures (1)	Capital** expenditures (2)	Total Col. (1)+(2) = (3)	Projected 1968-9 Total
A. Federal Government:				
1. Contracts and grants primarily for computer activities ***	17,263,000.00	7,385,000.00	24,651,000.00	62,624,000.00
2. Other contracts and grants	15,452,000.00	3,068,900.00	18,523,000.00	46,237,000.00
B. Institution's own funds	38,793,000.00	11,919,000.00	50,720,000.00	142,105,000.00
C. Other sources (gifts, contracts, and grants from industry, State and local governments, etc.)	7,022,000.00	5,999,000.00	13,023,000.00	25,135,000.00
D. Totals	78,544,000.00	28,382,000.00	106,935,000.00	276,119,000.00

* Activities includes everything except the use of the computers for the institution's own administrative affairs.

** Includes purchases of computer and peripheral equipment.

*** Total in column (3) should equal the total of all entries in Item V-A.

Item V. Expenditures of Funds Intended by the Funding Agency to be Used
Primarily for the Support of Computer Equipment, Buildings, and Activities
SAMPLE SIZE 669   POP. SIZE 2219   All Institutions

Sources of Funds	Digital Computer Equipment or Buildings		Computer Time for		Computer Science Activities* (5)
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
2. Sums of all other Federal Grants and Contracts (individual rates of less than $50,000 per year)	,000.00	,000.00	,000.00	,000.00	,000.00
** Total Federal	13,369,000.00	6,912,000.00	3,178,000.00	413,000.00	1,447,000.00
B. Non-Federal Grants and Contracts:					
1. Annual Rates Greater than $50,000 (identify)					
a.	,000.00	,000.00	,000.00	,000.00	,000.00
b.	,000.00	,000.00	,000.00	,000.00	,000.00
c.	,000.00	,000.00	,000.00	,000.00	,000.00
d.	,000.00	,000.00	,000.00	,000.00	,000.00
2. Other non-Federal Grants and Contracts					
Total Non Federal	3,387,000.00	1,119,000.00	1,073,000.00	504,000.00	725,000.00
C. Total of A and B, 1964-5	16,759,000.00	8,033,000.00	4,254,000.00	918,000.00	2,175,000.00
D. Total Projected, 1968-9	40,582,000.00	20,084,000.00	14,285,000.00	3,657,000.00	7,555,000.00

*Computer Science Activities: Includes institutes, academic programs support, fellowships, etc.
**Includes Federal Grants and Contracts in excess of $50,000 per year from previous page of questionnaire.

3. Number of institutions with computers and number of computers in the institutions

An estimated 32% or 700, of the 2200 institutions had 1000 computers by January, 1967. Estimates for 1966-1970 are presented in table 6. Detail estimates by strata of the number of institutions with computers as of January, 1967 are given in Appendix B, Table 1, and estimates of the number of computers installed, on order, and to be placed are presented in Table 2 of Appendix B.

TABLE 6

Date	No. of Schools with Computers for Research and Instruction	No. of Computers* in Schools for Research and Instruction
January 1966	600	900
January 1967	700	1,000
January 1968	800	1,100
January 1969	900	1,200
January 1970	1,000	1,300

Table 7 gives the estimated frequencies of occurrence of various computer systems reported in the survey. Of the estimated 858 computers installed as of June 30, 1965, over half (442) were leased, 291 were purchased, and the remainder were mixed, i.e., some units purchased, others leased. An additional 518 computer systems were estimated to have been on order by Fall, 1966, and were to be replacing an estimated 236 installed systems. The models are listed in order of frequency of installation (as of approximately June 30, 1965). No further ordering was attempted for equal frequencies. (Some of the abbreviations that are not immediately recognizable are MCD=McDonnell Automation Center, COR=Cornell, TUC=Triangle Universities Computer Center, WDP=Western Data Processing Center, TSH=Time-sharing, FS=Florida State University, REPL=To be replaced, ON ORDER=Total on order systems, 65=No. of on order systems delivered during 7/1/65 - 12/31/65, 66=No. of on order systems to be delivered during calendar year 1966, etc.)

The average number of hours for research and instruction usage per month for FY 65 is also given in Table 7 for each make and model of computer that was installed. (As a guideline, 130-140 hours usage per shift (176 hours) per month is considered good for batched-processing systems, which most of these are.)

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*Includes terminals from off-campus computers.

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Table 7. (from page IV-34-37)

CTL X   TYPE X   LEVEL X   V-34-37

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	PUPULATION ESTIMATES								
					USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	400	225	120	46	172	95	19	3	10	6			
IBM 1401	109	81	16	9	133	41	77	1	18	53	3		
IBM 7040	36	27	1	8	210	17	6	6					
CDC LGP 30	24	1	22	1	111	4							
IBM 7094	21	9	3	8	381	11	2		2				
IBM 1620 II	21	20		1	199	14							
IBM 1410	20	17		3	345	12							
BUR 205	19		18		107	6							
IBM 1440	12	7	5		102	5	15		15				
IBM 1460	9	9			332	1	2		1	1			
CDC 1604	9	1	7	1	319	1	1						
IBM 1710	7	5	1		251								
CDC 160A	7	2	4	1	240	1	1			1			
BUR 220	7		6	1	163	1							
IBM 709	6	1	5	1	302	3							
MCD	6												
PDP 7	5	1	4		435	4	2		2				
IBM 7074	5	3	1	1	316	1	3						
IBM 7044	5	4		1	276	2		1	1	1			
IBM 7072	4	1	2	1	418								
SDS 910	4	1	3		352	1	1		1				
CDC 3600	4		3	1	284								
CDC G-15	4		3	1	235	2	4		4				
CDC RP4000	4		4		231								
PDP 5	4		3	1	168								
BUR 5500	4		4		149	1	1			1			
UNI 1004	4	3	1	1	69	1	1	1					
IBM 7090	3	1	1	1	423	2	3						
CDC 160	3		3		412								
SDS 930	3	1	1	1	400		3	1	3				
IBM 360/30	3	3			398		39	1	16	12	4	5	
NCR 304	3		3		300								
GEC 225	3		2		258	1							
CDC 8090	3	2	1	1	176		1		1				
UNI 1107	3		2		175								
PDP 4	3	1	2	1	152								

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

Table 7 cont'd

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

ITEM I-A COMPUTERS INSTALLED AND UN ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	POP. EST.	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
CDC G-20	3		2		130		1	1	1	1				
CDC 3400	3	3			101									
MIT	3		3		1		1	1	1	1				
ALW III	3		3		1									
WDP	3		3											
UNI 418	2		1		500	2								
UNI SS80	2		1		488	1	1	1		1	1			
PDP 1	2		1		310	1	1							
**PDP LINC	2	1	2		250		2							
PDP 6	2		2		250	2								
**PDP 8	2		2		219	2								1
IBM 7070	2	1	1		175	1	1	10	2	7				
UNI 1105	2	1	1		168	1	2							
CDC 3200	2	2	2		75		2							
BUR 204	2				64	2		1			1			
ASI 6020	1		2		720	1	1	1						
CDC G-21	1		1		600	1	1							
TRW 300	1	1	1		500	1	1							
IBM 7080	1	1	1		450									
SDS 920	1				400	1								
ILL IAC II	1	1	1		400	1								
RIC E	1		1		350	1								
CDC 6600	1	1	1		325			2		2				
MIT TXU	1		1		300	1								
TRW 400	1		1		300	1								
ILL CSX I	1		1		300	1								
HON 800	1		1		250	1								
GEC 235	1	1	1		250	1								
CDC 3100	1	1	1		250		1							
ALW III-C	1	1	1		250			3	1	1	1			
IBM 650	1		1		200									
REC UMPIII	1		1		175									
CYC LUNE	1		1		170	1	1							
HON 400	1		1		164									
IBM 1130	1	1	1		120			83		37	45			
MAN IACIII	1	1			103									

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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Table 7 cont'd

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

PUPULATION ESTIMATES

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
MON XI	1	1			100							1
GEC PK4000	1		1		80						1	
**DEC LINC	1		1		50							
PAB 250	1		1		40							
IBM 797	1		1		40							
GEC 235TER	1	1	1		25	1						
RCA FLACII	2		1		10							
BEK 420	1		1									
RCA 301	1	1	1									
CUR	1				1							
GEC 265	1		1		1							
CUC 924	1		1									
PHI 211	1		1									
MII 7094	1		1									
HON 200	1		1		1	8		7				
GEC 645						1		1				
SDS 940						1		1				
ASI 6040						1		1				
GEC 425						1	1					
SDS 9300						1		1				
CDC 8092						1		1				
**LIN C8						1			1			
IBM 360/91						1		1				
GEC DNET15						1		1				
TSH SDS940						1		1				
IBM 360/90						1		1	1			
IBM 360/75						4		1	3			
CDC 6400						4		2	2			
GEC DN/30						1		1				
GEC 415						1	1	1				
GEC 625						2		2				
IBM 704						1		1	1			
IBM 1800						6		3	3			
IBM 1500						3		3				
SDS 925						3	1	2				
*TUC 1/3						3		3				

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

Table 7 cont'd

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER	65	66	67	68	69	UNK
HON 2200	1	1					
IBM 360/65	7		1	1	5		
CDC 1700	2		1	1			
CDC 3300	6	1	1	4			
IBM 360/67	20		4	7	8		
UNI 1108II	1			1			
BUR 5500TS	2		2				
GEC 215	3		3				
IBM 360/40	51	2	18	18	10	1	
RCA 70/45	3		3	3			
IBM 360/50	35		15	9	7	3	
BUR 101E	6						6
TSH FS1440	6						6
IBM 360/44	14		3	5	6		
HON 1200	9		5	4			
IBM 360/20	26		5	19	1		

*TUC 1/3 = one-third of the costs of the Triangle Universities Computation Center, North Carolina. The TUCC installation itself is not otherwise included in the survey.

**These are probably similar systems.

4. Degree Programs in Computer Science and Related Areas

On the basis of responses to Item I-B of the questionnaire an estimated
226 degree programs in computer science and related areas were being
offered at least by fall 1966 and an additional 331 were planned for
implementation during the "next three years." Programs specifically
designated as Computer Science accounted for 18% (40) of the going
programs, 55% (182) of the planned programs, and 40% (223) of the total
number (557) of going and planned programs. Business Data Processing
appeared second most frequently making up another 40% (93) of the going
programs, 26% (85) of the planned programs and 32% (178) of the total
number. Appendix C presents the estimated numbers by name of program,
degree level, and status (i.e., going or planned). Eighteen different
names were used to classify the responses. In a few instances the class-
ification was not exact. This was particularly true of late responses
received in early 1967 (i.e., too late to add new categories).

The estimates for the numbers of programs in each of Computer Science,
Business Data Processing, Information Science, Computer Science Options
in Mathematics, and all others are presented in Table 8 on the portion
of the questionnaire which was used to collect the sample data.

Item I.

B. Computer Science Instruction Programs:

(1) What degree programs did your institution offer in 1964-65, if any, in Computer Science, Information Science, Data Processing, etc.?

SAMPLE SIZE 669   Table 8 (from page V-28)
POP. SIZE 2219   All Institutions

Name of Program	Total	Degrees (check appropriate ones)			
		Assoc.	Bach.	Masters	Doctorate
a. Computer Science	40	0	11	17	12
b. Business Data Processing	93	83	6	3	1
c. Information Science	18	0	2	12	4
d. Option in Mathematics	24	0	10	8	6
All Other	51	0	15	21	15

(2) What degree programs does your institution plan to offer in the next three years, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Assoc.	Bach.	Masters	Doctorate
a. Computer Science	183	17	81	59	26
b. Business Data Processing	85	74	9	1	1
c. Information Science	16	0	2	5	9
d. Option in Mathematics	13	1	7	4	1
All Other	34	13	8	7	6

(3) Estimate and project the number of students being trained to use computers at your institution.

	Graduate		Undergraduate	
	1964-5	1968-9	1964-5	1968-9
a. Computer Science majors	1,314	5,318	4,338	18,807
b. Other majors (with at least some skill in using one programming language)	28,800	80,793	119,092	350,168

5. Numbers of "Computer Science"[1] Majors and Numbers of Students Being Trained to Use Computers

Nearly 120,000 undergraduates and 29,000 graduate students received some computer training during 1964-65. In addition approximately 4,000 undergraduates and 1,300 graduate majors in "computer science" were estimated to have been enrolled in 1964-65.

The numbers of students to be trained "in at least one programming language" for 1968-69 is estimated to increase nearly three-fold or approximately 81,000 graduates and 350,000 undergraduates.

For the year 1968-69 there is to be an estimated 19,000 undergraduate majors and over 5,000 graduate majors. This is an estimated four-fold increase and is dependent to a large extent upon the schools being able to bring the planned programs into being as scheduled.

These figures are also presented in Table 8 on the part of the questionnaire used to collect the sample data.

Appendix D relates the number of students being given computer instruction to the total enrollment of the three broad types of institutions given in (2), namely, universities (strata 114 and 214 only) other four-year institutions, and two-year institutions. The institutions are also grouped by type of control, public and private. The computations given in Appendix D indicate that there are computers available in institutions enrolling 60% of all students in higher education.

6. Distribution of usage as percentage of cost

Because of the great diversity of missions of the institutions in the population it is difficult to get meaningful estimates on percentage of use by category over all institutions. Better estimates can be obtained for individual strata and certain groups of strata. The responses to Item VII of the questionnaire were grouped into classes as follows for each cell of the questionnaire over all institutions in each stratum. The classes used were:

Class Limits

76-100
51-75
26-50
01-25
No response -00

The instrument and its instructions did not request that a clear distinction be made among a no response, not applicable and zero percentage. Therefore, the median percentage based upon the estimated population frequencies, excluding the no response -00 category, appears to be the best estimate for the percentage of usage for each cell. These estimates are presented in Table 9.

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[1] The term computer science in quotes is used to cover all majors in any of the areas reported including options in math, electrical engineering, etc.

Table 9

Item VII.   Utilization of Digital Computers for Research, Development and Education
All Institutions
(Median percentage estimated for all Institutions applicable excluding zeros and no-responses)

Purpose	Distribution as percentage of cost of total utilization (Total annual cost = 100%)						
	Engineering (1)	Physical Sciences (2)	Life Sciences (3)	Social Sciences (4)	Computer Sciences (5)	Other (6)	Total (7)
(1) R&D and Graduate Instruction ( ) Est. No. Institutions	17[a] (150)	18 (228)	15 (157)	12 (192)	14 (112)	14 (154)	51 (299)
(2) Undergraduate Instruction	19 (234)	18 (280)	13 (132)	14 (176)	38 (266)	18 (231)	77 (514)
(3) Computer Center (e.g., R&D in Software not included elsewhere)							13 (199)
(4) Library Sciences, Information Retrieval Systems (e.g., R&D in IRS not included elsewhere)							14 (68)
(5) Extra-Institutional							14 (124)
(6) Total (1) through (5)	29 (247)	25 (336)	15 (216)	14 (253)	13 (288)	19 (297)	100 (549)
(7) Total (6) projected to 1968-9	23 (282)	22 (414)	14 (318)	14 (332)	26 (393)	19 (353)	86 (607)[b]

[a] Interpretation: An estimated 150 institutions use the computer for R&D and Graduate Instruction in Engineering. At half of these institutions the cost of this usage amounts t. less than 17% of the cost of the total usage.

[b] In B-3 an estimate of 700 institutions with computers was given, therefore, some did not make projections and still more did not respond or had no usage to report for FY65.

C. DISCUSSION: DOCTORAL GRANTING INSTITUTIONS

1. Expenditures

Current and capital expenditures at the doctoral granting institutions accounted for 80% or 82 million of the 103 million total for FY65 and expected to be 78% or 216 million of the 276 million total estimated for FY69. Over 32 million, or again 80%, of the 41 million manufacturers' contributions for FY65 went to these institutions.

Approximately 25 million was spent on salaries for 3900 staff members in FY65 with an expected expenditure of 55 million for 7300 personnel during FY69.

44 million was used to pay for computer rentals, purchases, and maintenance in FY65 and this is expected to reach 121 million during FY69. To these figures we should add approximately 32 million in the form of manufacturer's contributions which bring the total costs of computers to 76 million for FY65 and 153 million for FY69.

Total capital expenditures for equipment (including computer purchases), building and furniture are expected to go from 17 million in FY65 to 50 million in FY69.

The above estimates and others are given in tables 10, 11, and 12.

2. Sources of Funds

One half of the 82 million expended by the doctoral granting institutions during FY65 for computer services to research and instruction came from Federal agencies and 47%, or 101 million, is expected from federal sources during FY69. The institutions themselves provided 35 million in FY65 and estimate that they can provide 95 million for FY69.

Of the 41 million provided by the federal government during FY65, over 22 million was "primarily for computer activities" and 56 million is expected during FY69 for the same purposes. The remaining 18 million from Federal sources in FY65 came from computer services to research contracts and grants. From the same sources these institutions estimate that 45 million will be forthcoming for FY69.

12 million of the estimated funds earmarked "primarily for computer activities" by Federal agencies was spent for rental or purchases of equipment or buildings, under 7 million for their operating costs, 3 million for computer time for R and D and graduate instruction, $\frac{1}{4}$ million for computer time for undergraduate instruction, and nearly $1\frac{1}{2}$ million for computer science activities. For these same items there is to be an estimated increase from two to six-fold by FY69. The highest percentage increase is expected to be for computer time for undergraduate instruction, over 600%. These estimates are presented in tables 13 and 14.

Table 10 (from page VI-A-38)

Current Expenditures for Digital Computer Activities
by Cost Items and Number of Personnel
Doctoral Granting Institutions
SAMPLE SIZE 227   POP. SIZE 269

Item III.

Cost Item	1964-5	1968-9 Projection
A. Current (1964-5) and Projected (1968-9) expenditures for digital computer activities		
1. Equipment rentals	22,632,000.00	73,634,000.00
2. Rental or costs for building space to house computer activities	1,414,000.00	3,053,000.00
3. Maintenance costs not already included in (1) or (2)	2,135,000.00	3,793,000.00
4. Salaries and wages of personnel ....Total	24,603,000.00	54,719,000.00
a. Systems and utility programmers	8,577,000.00	21,749,000.00
b. Administrative and other professional	7,734,000.00	16,971,000.00
c. All other (e.g., keypunch and other operators, clerical, technicians)	8,286,000.00	15,995,000.00
5. Costs for purchase of off-campus computing service	561,000.00	560,000.00
6. Other direct costs (including materials and supplies)	6,166,000.00	12,417,000.00
7. Indirect costs (general institutional administrative and general expense allocation)	7,563,000.00	17,853,000.00
Total	65,089,000.00	166,044,000.00

	Number of Personnel	
B. Please indicate full time equivalent number employed for items 4 (a), 4 (b), and 4 (c) above:	1964-5	1968-9 Projection
1. Systems and utility programmers	1,170	2,533
2. Administrative and other professional	781	1,466
3. All other (keypunch and other operators, clerical, technicians, etc.)	1,941	3,292
Total	3,898	7,296

Item IV.

Table 11 (from page VI-A-38)

Capital Expenditures for Digital Computer Activities
Doctoral Granting Institutions
SAMPLE SIZE 227   POP. SIZE 269

Year	Computers and Peripheral Equipment	Buildings to House Computer Activities	Furniture, Fixtures, and other Equipment	Total
1964-5	12,752,000.00	3,147,000.00	769,000.00	16,673,000.00
1965-6 projection	14,893,000.00	8,016,000.00	862,000.00	23,776,000.00
1966-7 projection	22,845,000.00	13,194,000.00	1,464,000.00	37,507,000.00
1967-8 projection	15,943,000.00	25,827,000.00	2,048,000.00	43,823,000.00
1968-9 projection	28,797,000.00	17,789,000.00	3,027,000.00	49,616,000.00

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Table 12 (from page VI-B-37)

Additional Institutional and Manufacturers' Contributions
Doctoral Granting Institutions
SAMPLE SIZE 227   POP. SIZE 269

Item VI.

A. Adequacy of charges as a means of support for sponsored research and development projects

1. Did money received from sponsored R&D projects for computer usage equal the amount actually used in the case of

   a. R&D projects sponsored by the Federal Government   Yes __102__ No ____

   b. R&D projects sponsored by non-Federal agencies (excluding institution's own funds)   Yes __71__ No ____

2. If "no" in 1 (a) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by Federal agencies.

   | 6,050,000.00 |

3. If "no" to 1 (b) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by non-Federal agencies.

   | 2,109,000.00 |

B. Equipment manufacturers' contribution

1. Estimated contributions toward purchase and/or rental of equipment made available from manufacturers in the form of discounts, allowances, etc., 1964-5.

Current Expenditures	22,313,000.00
Capital Expenditures	9,899,000.00
Total	32,214,000.00

Table 13   (from page VI-A-38)

Item II.   Current and Capital Expenditures for Digital Computer Activities,*
by Source of Funds for Reporting Period
Doctoral Granting Institutions
SAMPLE SIZE 227   POP. SIZE 269

Source of Funds	Current expenditures (1)	Capital** expenditures (2)	Total Col. (1)+(2) = (3)	Projected 1968-9 Total
A. Federal Government:				
1. Contracts and grants primarily for computer activities ***	16,420,000.00	6,025,000.00	22,446,000.00	56,306,000.00
2. Other contracts and grants	15,271,000.00	3,068,000.00	18,342,000.00	44,912,000.00
B. Institution's own funds	27,529,000.00	7,733,000.00	35,267,000.00	95,177,000.00
C. Other sources (gifts, contracts, and grants from industry, State and local governments, etc.)	5,833,000.00	3,900,000.00	9,734,000.00	19,209,000.00
D. Totals	65,062,000.00	20,732,000.00	85,796,000.00	215,613,000.00

* Activities include everything except the use of the computers for the institution's own administrative affairs.

** Includes purchases of computer and peripheral equipment.

*** Total in column (3) should equal the total of all entries in Item V-A.

Table 14 (from page VI-B-37)

Expenditures of Funds Intended by the Funding Agency to be Used
Primarily for the Support of Computer Equipment, Buildings, and Activities

Item V.

SAMPLE SIZE 227   POP. SIZE 269

Sources of Funds	Digital Computer Equipment or Buildings		Computer Time for		Computer Science Activities* (5)
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
2. Sums of all other Federal Grants and Contracts (individual rates of less than $50,000 per year)	,000.00	,000.00	,000.00	,000.00	,000.00
**Total Federal	12,056,000.00	6,694,000.00	3,012,000.00	251,000.00	1,405,000.00
B. Non-Federal Grants and Contracts: 1. Annual Rates Greater than $50,000 (identify)					
a.	,000.00	,000.00	,000.00	,000.00	,000.00
b.	,000.00	,000.00	,000.00	,000.00	,000.00
c.	,000.00	,000.00	,000.00	,000.00	,000.00
d.	,000.00	,000.00	,000.00	,000.00	,000.00
2. Other non-Federal Grants and Contracts	,000.00	,000.00	,000.00	,000.00	,000.00
Total Non-Federal	2,457,000.00	896,000.00	1,070,000.00	223,000.00	694,000.00
C. Total of A and B, 1964-5	14,515,000.00	7,591,000.00	4,085,000.00	474,000.00	2,102,000.00
D. Total Projected, 1968-9	34,578,000.00	19,535,000.00	13,758,000.00	3,084,000.00	6,311,000.00

*Computer Science Activities: Includes institutes, academic programs support, fellowships, etc.
**Includes Federal Grants and Contracts in excess of $50,000 per year from previous page of questionnaire.

3. Number of Institutions with Computers and Number of Computers in the Institutions

Table 15 gives the estimates for the number of institutions with computers, number of computers installed as of June 30, 1965, the number of computers on order as of around December, 1966 and the number of installed computers to be replaced by the on order systems for each of the four classes of institutions to be discussed. The same estimates are given in Appendix B, Table 1, by individual strata.

If the reader is interested in seeing the estimated frequencies for the individual makes and models of computers he is referred to section IV.

4. Degree Programs in Computer Sciences and Related Areas by Type of Program

The doctoral granting institutions offered 34 of the 40 going degree programs in computer science and accounted for 122 of the 165 planned programs at and above the bachelors level. 15 of the 18 going programs and 15 of the 16 planned programs in Information Science were accounted for by this group of institutions. Only 9 of the 93 going curricula and 10 of the 85 planned programs for Business Data Processing are estimated to be from this group. Nearly all of the Computer Science options in Mathematics (32 out of 37) and Electrical Engineering (22 out of 23) appeared in the estimates for the group of doctoral granting institutions. Table 16 presents this data in the questionnaire format.

5. Numbers of "Computer Science Majors" and Students Being Trained to Use Computers

From Table 16 and Table 8 we find that the doctoral granting institutions provided some computer education to 83 of the 120 thousand (70%) undergraduates and 25 of the 29 thousand (87%) graduate students in FY65 who received some computer education. For FY69 the corresponding figures are estimated to be 256 out of 350 thousand (73%) and 69 out of 81 thousand (86%). For majors only 800 of the 4300 (19%) undergraduates, and 1200 of the 1300 graduate students (92%) were enrolled in the doctoral granting institutions during FY65. For FY69 the estimates for "Computer Science" majors enrolled are 6000 of the 19000 (32%) undergraduates and 4700 of the 5300 graduates (87%).

6. Median Percentages of Usage by Area and Level

Table 17 contains the estimates of the median percentage of usage by those institutions for which the category is applicable. The estimate of the number of institutions which have each type of use is also given in parentheses. Several institutions did not report on this item because their usage records did not conform. By using the medians calculated here we are assuming that the distribution in each cell for those not responding is no different than that of those who did. Comparisons from group to group, cell by cell have a straightforward interpretation. The reader should be cautious in his interpretation of cell against cell within a group of institutions.

Table 15

Number of Institutions with Computers and Number of Computers Installed, On Order, and to be Replaced

Type of Institution by Highest Degree Offered	No. of Institutions in Population	Estimated No. of Institutions With Computers	Estimated No. Computers Installed June 30, 1965	Estimated No. Computers On Order (circa Dec. '66)	Estimated No. Computers to be Replaced by on Order Computers
Doctorate (Group XX4)	269	215	517	230	165
Masters and/or Second Professional Degrees (Group XX3)	466	217	176	125	49
Bachelors and/or First Professional Degrees (Group XX2)	794	124	78	53	0
Two to Four Years Beyond 12th Grade (Group XX1)	688	150	85	110	22
Other (Group XX5)	2	1	2	0	0
Total (Group XXX)	2219	707	858	518	236

Table 16   (from page V-27)
Doctoral Granting Institutions
SAMPLE SIZE 227   POP. SIZE 269

Item I.

B. Computer Science Instruction Programs:

(1) What degree programs did your institution offer in 1964-65, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Degrees (check appropriate ones)			
		Assoc.	Bach.	Masters	Doctorate
a. Computer Science	34	0	8	14	12
b. Information Science	15	0	2	9	4
c. Business Data Processing	9	3	2	3	1
d. Options in Mathematics	20	0	6	8	6
All Other	47	0	11	21	15

(2) What degree programs does your institution plan to offer in the next three years, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Assoc.	Bach.	Masters	Doctorate
a. Computer Sciences	122	4	44	48	26
b. Information Science	15	0	1	5	9
c. Business Data Processing	10	4	4	1	1
d. Options in Mathematics	12	1	6	4	1
All Other	18	2	4	6	6

(3) Estimate and project the number of students being trained to use computers at your institution.

	Graduate		Undergraduate	
	1964-5	1968-9	1964-5	1968-9
a. Computer Science majors	1,213	4,651	799	5,993
b. Other majors (with at least some skill in using one programming language)	25,224	69,432	83,019	256,397

Table 17
Doctoral Granting Institutions

Item VII.   Utilization of Digital Computers for Research, Development and Education
SAMPLE SIZE 227   POP. SIZE 269
Median Percentage Estimated for Doctoral Granting Institutions Applicable, Excluding Zeros and No-responses

Purpose	Distribution as percentage of cost of total utilization (Total annual cost = 100%)						
	Engineering (1)	Physical Sciences (2)	Life Sciences (3)	Social Sciences (4)	Computer Sciences (5)	Other (6)	Total (7)
(1) R&D and Graduate Instruction ( ) Estimated No. of Institutions	16[a] (124)	19 (154)	15 (135)	13 (138)	13 (69)	14 (106)	64 (185)
(2) Undergraduate Instruction	15 (118)	13 (117)	13 (61)	13 (76)	14 (78)	15 (68)	23 (170)
(3) Computer Center (e.g., R&D in Software not included elsewhere)							14 (113)
(4) Library Sciences, Information Retrieval Systems (e.g., R&D in IRS not included elsewhere)							13 (41)
(5) Extra-Institutional							13 (83)
(6) Total (1) through (5)	29 (130)	24 (160)	15 (143)	14 (140)	15 (96)	15 (120)	100 (192)
(7) Total (6) projected to 1968-9	23 (133)	22 (164)	15 (159)	14 (148)	15 (143)	14 (124)	86 (191)

[a]See footnote on Table 9 for interpretation

D. DISCUSSION: INSTITUTIONS OFFERING MASTERS AND/OR SECOND PROFESSIONAL DEGREES

1. Expenditures

There are 466 institutions which offer the master's degree or Second Professional degree as their highest level of offering (Group XX3). These schools spent an estimated 9 million for research and instructional uses of computers in FY65 and expect to have 38 million available for FY69. The ratio of capital to current expenditures for FY65 was 1 to 5 but is expected to increase to 1 to 2 for FY69.

An estimated $2\frac{1}{2}$ million was paid to 500 staff members of the computer facilities in FY65 and nearly $8\frac{1}{2}$ million is expected to be required for 1300 employees in FY69. The main reason for the apparent unbalance between the increases in funds and personnel is due to the fact that a four-fold increase is expected in the systems and utility programmer category while only a $2\frac{1}{2}$ times increase is anticipated in the other categories. These estimates and others are given in Tables 18, 19 and 20.

2. Sources of Funds

640 thousand of the 9 million expended by the masters' institutions for research and instructional use of computers come from Federal sources in FY65. Five times this amount, or 3.3 million, is expected for FY69. The institutions themselves paid 7 of the 9 million in FY65 and anticipate bearing over 30 million of the estimated 38 million needed for FY69. In addition to the 9 million total expended in FY65 the manufacturers' accounted for an estimated 3.5 million in rental and purchase discounts and other assistance.

Major increases for FY69 over FY65 in outside support is expected to come for rental or purchase of equipment and buildings (over 2 million) and for computer science activities (over 1 million). These and other estimates are obtained from Tables 21 and 22.

3. Number of Institutions with Computers and Number of Computers in Institutions

An estimated 217 of the 466 institutions offering the master's or second professional degree as their highest offering had at least one computer installed or on order as of the fall of 1966. For these institutions an estimated 176 computers were installed as of June 30, 1965 and 125 were on order replacing 49 of the installed systems. (see Table 15)

4. Degree Programs in Computer Science and Related Areas

Table 23 shows the estimates of the numbers of degree programs in Computer Science going and planned in the masters' institutions. An additional 71 programs are planned and 16 were going in FY65. Over two-thirds of the planned programs are in Computer Science with 37 at the bachelor's level and 11 at the master's.

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Table 18   (from page VI-A-37)

Current Expenditures for Digital Computer Activities
by Cost Items and Number of Personnel
Institutions Offering Masters and/or Second Professional Degrees
SAMPLE SIZE 158   POP. SIZE 466

Item III.

Cost Item	1964-5	1968-9 Projection
A. Current (1964-5) and Projected (1968-9) expenditures for digital computer activities		
1. Equipment rentals	3,094,000.00	10,433,000.00
2. Rental or costs for building space to house computer activities	47,000.00	1,343,000.00
3. Maintenance costs not already included in (1) or (2)	124,000.00	254,000.00
4. Salaries and wages of personnel ....Total	2,652,000.00	8,374,000.00
a. Systems and utility programmers	574,000.00	2,819,000.00
b. Administrative and other professional	1,059,000.00	2,933,000.00
c. All other (e.g., keypunch and other operators, clerical, technicians)	1,012,000.00	2,615,000.00
5. Costs for purchase of off-campus computing service	60,000.00	117,000.00
6. Other direct costs (including materials and supplies)	393,000.00	1,120,000.00
7. Indirect costs (general institutional administrative and general expense allocation)	1,185,000.00	3,847,000.00
Total	7,573,000.00	25,507,000.00

B. Please indicate full time equivalent number employed for items 4 (a), 4 (b), and 4 (c) above:

	Number of Personnel	
	1964-5	1968-9 Projection
1. Systems and utility programmers	93	358
2. Administrative and other professional	127	302
3. All other (keypunch and other operators, clerical, technicians, etc.)	282	646
Total	508	1,313

Item IV.

Table 19 (from page VI-A-37)

Capital Expenditures for Digital Computer Activities
Institutions Offering the Masters and/or Second Professional Degrees
SAMPLE SIZE 158   POP. SIZE 466

Year	Item			Total
	Computers and Peripheral Equipment	Buildings to House Computer Activities	Furniture, Fixtures, and other Equipment	
1964-5	806,000.00	605,000.00	136,000.00	1,548,000.00
1965-6 projection	745,000.00	126,000.00	132,000.00	1,006,000.00
1966-7 projection	2,237,000.00	1,445,000.00	346,000.00	4,032,000.00
1967-8 projection	1,604,000.00	481,000.00	265,000.00	2,354,000.00
1968-9 projection	8,432,000.00	3,501,000.00	469,000.00	12,407,000.00

Table 20 (from page VI-B-36)

Additional Institutional and Manufacturers' Contributions
Institutions Offering Masters and/or Second Professional Degrees
SAMPLE SIZE 158   POP. SIZE 466

Item VI.

A. Adequacy of charges as a means of support for sponsored research and development projects

1. Did money received from sponsored R&D projects for computer usage equal the amount actually used in the case of

 a. R&D projects sponsored by the Federal Government   Yes __19__ No ____

 b. R&D projects sponsored by non-Federal agencies (excluding institution's own funds)   Yes __17__ No ____

2. If "no" in 1 (a) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by Federal agencies.   107,000.00

3. If "no" to 1 (b) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by non-Federal agencies.   26,000.00

B. Equipment manufacturers' contribution

1. Estimated contributions toward purchase and/or rental of equipment made available from manufacturers in the form of discounts, allowances, etc., 1964-5.

Current Expenditures	1,888,000.00
Capital Expenditures	1,637,000.00
Total	3,527,000.00

Table 21 (from page 31)

Item II.   Current and Capital Expenditures for Digital Computer Activities,*
by Source of Funds for Reporting Period
Institutions Offering Masters and/or Second Professional Degrees
SAMPLE SIZE 158   POP. SIZE 466

Source of Funds	Current expenditures (1)	Capital** expenditures (2)	Total Col. (1)+(2) = (3)	Projected 1968-9 Total
A. Federal Government:				
1. Contracts and grants primarily for computer activities ***	357,000.00	282,000.00	640,000.00	3,321,000.00
2. Other contracts and grants	122,000.00	---,000.00	122,000.00	986,000.00
B. Institution's own funds	6,486,000.00	632,000.00	7,119,000.00	30,331,000.00
C. Other sources (gifts, contracts, and grants from industry, State and local governments, etc.)	659,000.00	512,000.00	1,171,000.00	3,509,000.00
D. Totals	7,626,000.00	1,428,000.00	9,059,000.00	38,154,000.00

* Activities includes everything except the use of the computers for the institution's own administrative affairs.

** Includes purchases of computer and peripheral equipment.

*** Total in column (3) should equal the total of all entries in Item V-A.

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Item V.

Table 22 (from page VI-B-36)

Expenditures of Funds Intended by the Funding Agency to be Used
Primarily for the Support of Computer Equipment, Buildings, and Activities
Institutions Offering Masters and/or Second Professional Degrees
SAMPLE SIZE 158
POP. SIZE 466

Sources of Funds	Digital Computer Equipment or Buildings		Computer Time for		Computer Science Activities* (5)
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
2. Sums of all other Federal Grants and Contracts (individual rates of less than $50,000 per year)	,000.00	,000.00	,000.00	,000.00	,000.00
** Total Federal	336,000.00	56,000.00	158,000.00	44,000.00	42,000.00
B. Non-Federal Grants and Contracts:					
1. Annual Rates Greater than $50,000 (identify)					
a.	,000.00	,000.00	,000.00	,000.00	,000.00
b.	,000.00	,000.00	,000.00	,000.00	,000.00
c.	,000.00	,000.00	,000.00	,000.00	,000.00
d.	,000.00	,000.00	,000.00	,000.00	,000.00
2. Other non-Federal Grants and Contracts	,000.00	,000.00	,000.00	,000.00	,000.00
Total Non-Federal	85,000.00	38,000.00	3,000.00	---	3,000.00
C. Total of A and B, 1964-5	421,000.00	94,000.00	161,000.00	44,000.00	45,000.00
D. Total Projected, 1968-9	2,823,000.00	218,000.00	515,000.00	163,000.00	1,216,000.00

*Computer Science Activities: Includes institutes, academic programs support, fellowships, etc.
**Includes Federal Grants and Contracts in excess of $50,000 per year from previous page of questionnaire.

Table 23   (from page V-26)

Item I.   Institutions offering Master's Degree and/or second Professional Degree

B. Computer Science Instruction Programs:

Sample Size 158, Population size 466

(1) What degree programs did your institution offer in 1964-65, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Degrees (check appropriate ones)			
		Assoc.	Bach.	Masters	Doctorate
a. Computer Science	6	0	3	3	
b. Information Science	3	0	0	3	
c. Business Data Processing	3	3	0	0	
d. Options in Mathematics	0	0	0	0	
All Other	4	0	4	0	

(2) What degree programs does your institution plan to offer in the next three years, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Assoc.	Bach.	Masters	Doctorate
a. Computer Science	51	3	37	11	
b. Information Science	1	0	1	0	
c. Business Data Processing	14	9	5	0	
d. Options in Mathematics	1	0	1	0	
All Other	4	0	3	1	

(3) Estimate and project the number of students being trained to use computers at your institution.

	Graduate		Undergraduate	
	1964-5	1968-9	1964-5	1968-9
a. Computer Science majors	23	566	511	3,160
b. Other majors (with at least some skill in using one programming language)	2,294	8,739	23,552	63,916

5. Number of "Computer Science" Majors and Numbers of Students Being Trained to Use Computers

The number of graduate "Computer Science" majors is expected to climb from 23 in FY 65 to 566 in FY 69, and the number of undergraduate majors is to go from 511 to 3160 during the same period. Nearly 2300 other graduate students learned to program in at least one programming language during FY 65 and an estimated 8700 will do so in FY 69. The corresponding figures for undergraduates are approximately 24,000 and 64,000. (see table 23)

6. Distributions of Usage as Percentage of Costs

Estimates in Table 24 show that undergraduate instruction had a dominant role in the usage of computers at institutions which offer the master's degree as their highest offering with a median of 76%. The corresponding figure for doctoral granting institutions was 23% (see Table 17). The situation was reversed, as would be expected, for R and D and graduate instruction with the masters' institutions having a median usage of 27% while the doctoral institutions had a median of 64%. The apparent decrease in emphasis on usage for Computer Science from a median of 78% in FY 65 to 37% in FY 69 can be explained away by the fact that the additional 53 institutions do not have, nor plan to have, going degree programs in computer sciences by FY 69.

Table 24

Item VII.   Utilization of Digital Computers for Research, Development and Education

Median Percentage Estimated for Applicable Institutions Offering Master's and/or Second Professional Degree, Excluding Zeros and No-responses   SAMPLE SIZE 158   POP. SIZE 466

Purpose	Distribution as percentage of cost of total utilization (Total annual cost = 100%)						
	Engineering (1)	Physical Sciences (2)	Life Sciences (3)	Social Sciences (4)	Computer Sciences (5)	Other (6)	Total (7)
(1) R&D and Graduate Instruction	14[a]	15	14	13	17	14	27
( ) Estimated Number of Institutions	(25)	(66)	(16)	(48)	(40)	(36)	(101)
(2) Undergraduate Instruction	25 (45)	20 (102)	13 (45)	15 (71)	49 (69)	17 (74)	76 (155)
(3) Computer Center (e.g., R&D in Software not included elsewhere)							13 (46)
(4) Library Sciences, Information Retrieval Systems (e.g., R&D in IRS not included elsewhere)							15 (21)
(5) Extra-Institutional							16 (41)
(6) Total (1) through (5)	35 (46)	22 (104)	14 (47)	16 (84)	78 (63)	20 (82)	100 (161)
(7) Total (6) projected to 1968-9	22 (57)	23 (141)	13 (103)	15 (119)	37 (116)	18 (108)	86 (188)

[a]See footnote of Table 9 for interpretation

E.   DISCUSSION: INSTITUTIONS OFFERING BACHELORS AND/OR
                   FIRST PROFESSIONAL DEGREES

1.   Expenditures

The 794 Institutions offering Bachelors or first professional degrees as
their highest offering accounted for an estimated 2 million ($2\frac{1}{2}$%) of the
total 79 million current expenditures for FY65.   For the same purposes
in FY69 these same institutions are expecting to spend an estimated 5
million, or again $2\frac{1}{2}$% of the total (see table 25).   Capital expenditures
are estimated to go from $2\frac{1}{2}$ million in FY65 to nearly 3 million in FY69.
For some reason, which is probably associated with manufacturers' discount
policies and pending orders for third generation equipment, these institu-
tions dropped their capital expenditures to around $\frac{1}{2}$ million for FY66 and
FY67 but they are estimated to climb again to over 2 million for FY68 (see
table 26).

The bachelors' degree institutions used about $2\frac{1}{2}$ million of their $4\frac{1}{2}$
million total expenditures for hardware in FY65.   In addition the manu-
facturers' contributions totaled 3 1/3 million (see table 27).   This
is the only group for which the manufacturers contributed over 50% of
the total hardware costs.   For FY69 the total hardware costs are estimated
to be nearly 5 million or almost double that of FY65.   Personnel is
estimated to go from 163 to 391 with salaries and wages to go from less
than 1 million in FY65 to nearly 2 million in FY69.

2.   Source of Funds

The Federal agencies contributed less than 10% of the total expenditures
for FY65 but the institutions are expecting nearly $1\frac{1}{2}$ million or 18%
from this source for FY69.   The institutions provided about 73% ($3\frac{1}{2}$ million)
of the total $4\frac{1}{2}$ million expenditures during FY65 and are estimated to
provide 73% (nearly 6 million) of the 8 million total for FY69.   Only
a slight increase is expected to come from other sources (see table 28).

3.   Number of Institutions With Computers and Number of Computers in
the Institutions.

124 of the 794 institutions had an estimated 78 computers installed as of
the end of FY65 and an additional 53 on order by the fall of 1966 with none
to be replaced (see table 15).   Further details by strata are given in
Appendix B.   An estimated 47 of the computers were purchased while only 20
were leased.   This is the only group (of the four discussed here) which
indicates a strong preference for purchase over lease.

4.   Degree Programs in Computer Science and Related Areas

The bachelors' degree institutions had an estimated 16 of the 226 going
degree programs in FY65 with only an additional 5 planned (table 30).
12 of the going programs were in data processing at the associate degree
level and 4 of the planned programs are estimated to be in computer science
also at the associate degree level.

5.   Number of "Computer Science" Majors and Number of Students Being
Trained to Use Computers.

The bachelors' degree institutions had 60 undergraduate "computer science"
majors during FY65 and expect to have 200 for FY69.   An additional 5000

Table 25   (from page VI-A-36)
Current Expenditures for Digital Computer Activities
Institutions Offering Bachelors and/or First Professional Degrees

SAMPLE SIZE 142   POP. SIZE 794

Item III.

Cost Item	1964-5	1968-9 Projection
A. Current (1964-5) and Projected (1968-9) expenditures for digital computer activities		
1. Equipment rentals	595,000.00	1,933,000.00
2. Rental or costs for building space to house computer activities	73,000.00	20,000.00
3. Maintenance costs not already included in (1) or (2)	56,000.00	139,000.00
4. Salaries and wages of personnel ....Total	839,000.00	1,944,000.00
a. Systems and utility programmers	218,000.00	466,000.00
b. Administrative and other professional	296,000.00	772,000.00
c. All other (e.g., keypunch and other operators, clerical, technicians)	322,000.00	703,000.00
5. Costs for purchase of off-campus computing service	4,000.00	33,000.00
6. Other direct costs (including materials and supplies)	166,000.00	294,000.00
7. Indirect costs (general institutional administrative and general expense allocati...	244,000.00	731,000.00
Total	1,984,000.00	5,105,000.00

B. Please indicate full time equivalent number employed for items 4 (a), 4 (b), and 4 (c) above:

	Number of Personnel	
	1964-5	1968-9 Projection
1. Systems and utility programmers	22	69
2. Administrative and other professional	41	96
3. All other (keypunch and other operators, clerical, technicians, etc.) Total	96	223
	163	391

Item IV.

Table 26 (from page VI-A-36)

Capital Expenditures for Digital Computer Activities

Institutions Offering Bachelors and/or First Professional Degrees

SAMPLE SIZE 142   POP. SIZE 794

Year	Computers and Peripheral Equipment	Buildings to House Computer Activities	Furniture, Fixtures, and other Equipment	Total
		Item		
1964-5	2,007,000.00	300,000.00	183,000.00	2,491,000.00
1965-6 projection	357,000.00	25,000.00	63,000.00	446,000.00
1966-7 projection	408,000.00	126,000.00	125,000.00	661,000.00
1967-8 projection	1,959,000.00	250,000.00	126,000.00	2,336,000.00
1968-9 projection	2,791,000.00	---,000.00	95,000.00	2,886,000.00

Table 27 (from page VI-B-35)
Additional Institutional and Manufacturers' Contributions
Institutions Offering Bachelors and/or First Professional Degrees
SAMPLE SIZE 142
POP. SIZE 794

Item VI.

A. Adequacy of charges as a means of support for sponsored research and development projects

1. Did money received from sponsored R&D projects for computer usage equal the amount actually used in the case of

   a. R&D projects sponsored by the Federal Government   Yes ___ No ___

   b. R&D projects sponsored by non-Federal agencies (excluding institution's own funds)   Yes ___ No ___

2. If "no" in 1 (a) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by Federal agencies.   [,000.00]

3. If "no" to 1 (b) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by non-Federal agencies.   [,000.00]

B. Equipment manufacturers' contribution

1. Estimated contributions toward purchase and/or rental of equipment made available from manufacturers in the form of discounts, allowances, etc., 1964-5.

Current Expenditures	170,000.00
Capital Expenditures	3,132,000.00
Total	3,302,000.00

Table 28 (page VI-A-36)

Item II. Current and Capital Expenditures for Digital Computer Activities,*
by Source of Funds for Reporting Period
Institutions Offering Bachelors and/or First Professional Degree
SAMPLE SIZE 142
POP. SIZE 794

Source of Funds	Current expenditures (1)	Capital** expenditures (2)	Total Col. (1)+(2) = (3)	Projected 1968-9 Total
A. Federal Government:				
1. Contracts and grants primarily for computer activities ***	,000.00	332,000.00	332,000.00	1,376,000.00
2. Other contracts and grants	59,000.00	,000.00	59,000.00	86,000.00
B. Institution's own funds	1,783,000.00	1,719,000.00	3,504,000.00	5,802,000.00
C. Other sources (gifts, contracts, and grants from industry, State and local governments, etc.)	142,000.00	438,000.00	580,000.00	727,000.00
D. Totals	1,984,000.00	2,491,000.00	4,477,000.00	7,992,000.00

* Activities includes everything except the use of the computers for the institution's own administrative affairs.

** Includes purchases of computer and peripheral equipment.

*** Total in column (3) should equal the total of all entries in Item V-A.

Item V.

Table 29   (from page VI-B-35)

Expenditures of Funds Intended by the Funding Agency to be Used
Primarily for the Support of Computer Equipment, Buildings, and Activities
Institutions Offering Bachelors and/or First Professional Degrees
SAMPLE SIZE 142   POP. SIZE 794

| Sources of Funds | Digital Computer Equipment or Buildings | | Computer Time for | | Computer Science Activities* (5) |
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
2. Sums of all other Federal Grants and Contracts (individual rates of less than $50,000 per year)	,000.00	,000.00	,000.00	,000.00	,000.00
** Total Federal	207,000.00				
B. Non-Federal Grants and Contracts:					
1. Annual Rates Greater than $50,000 (identify)					
a.	,000.00	,000.00	,000.00	,000.00	,000.00
b.	,000.00	,000.00	,000.00	,000.00	,000.00
c.	,000.00	,000.00	,000.00	,000.00	,000.00
d.	,000.00	,000.00	,000.00	,000.00	,000.00
2. Other non-Federal Grants and Contracts	,000.00	,000.00	,000.00	,000.00	,000.00
Total Non-Federal	62,000.00				
C. Total of A and B, 1964-5	270,000.00	,000.00	,000.00	,000.00	,000.00
D. Total Projected, 1968-9	1,711,000.00	10,000.00	,000.00	,000.00	,000.00

*Computer Science Activities: Includes institutes, academic programs support, fellowships, etc.
**Includes Federal Grants and Contracts in excess of $50,000 per year from previous page of questionnaire.

Table 30 (from page V-25)

Institutions Offering Bachelors and/or First Professional Degrees

Item I.

SAMPLE SIZE 142   POP. SIZE 794

B. Computer Science Instruction Programs:

(1) What degree programs did your institution offer in 1964-65, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Degrees (check appropriate ones)			
		Assoc.	Bach.	Masters	Doctorate
a. Computer Science	0	0	0		
b. Business Data Processing	12	8	4		
c. Options in Mathematics	4	0	4		
d. Options in Electrical Engineering	0	0	0		

(2) What degree programs does your institution plan to offer in the next three years, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Assoc.	Bach.	Masters	Doctorate
a. Computer Sciences	4	0	0		
b. Business Data Processing	0	0	0		
c. Options in Mathematics	0	0	0		
d. Options in Electrical Engineering	1	0	1		

(3) Estimate and project the number of students being trained to use computers at your institution.

	Graduate		Undergraduate	
	1964-5	1968-9	1964-5	1968-9
a. Computer Science majors	--	--	60	200
b. Other majors (with at least some skill in using one programming language)	282	783	5,082	13,267

students (undergraduates) received some training during FY65 and over
13,000 are expected to be given some computer education in FY69. 282
graduate students were reported to have had some computer training in
FY65 and this number is expected to approach 800 for FY69. These are
apparently non-degree seeking enrollees such as evening classes, special
courses, etc.

6. Distribution of Usage as Percentage of Cost

As would be expected, the undergraduate instruction usage dominates the
usage at the bachelors' degree institutions with a median percentage
usage of 86%. The physical sciences, engineering and "computer sciences"
have medians of 50, 44 and 38 percent respectively, for undergraduate
instruction. If we assume that graduate instruction is minimal at these
institutions then we can say that research use in the physical sciences
seems to run a much higher percentage than the other areas with a median
of 38% vs. 13% for the others (see Table 31).

Table 31

Item VII. Utilization of Digital Computers for Research, Development and Education

Institutions Offering Bachelors and/or First Professional Degrees

SAMPLE SIZE 142   POP. SIZE 794

Purpose	Distribution as percentage of cost of total utilization (Total annual cost = 100%)						
	Engineering (1)	Physical Sciences (2)	Life Sciences (3)	Social Sciences (4)	Computer Sciences (5)	Other (6)	Total* (7)
Median %	13 [a] (1)	38 (7)	13 (6)	13 (6)	13 (1)	13 (6)	38 (7)
(1) R&D and Graduate Instruction ( ) Estimated No. of Institutions							
(2) Undergraduate Instruction	44 (32)	50 (54)	13 (26)	13 (29)	38 (31)	20 (55)	86 (90)
(3) Computer Center (e.g., R&D in Software not included elsewhere)							13 (22)
(4) Library Sciences, Information Retrieval Systems (e.g., R&D in IRS not included elsewhere)							-- (0)
(5) Extra-Institutional							-- (0)
*(6) Total (1) through (5)	44 (32)	63 (55)	13 (26)	13 (29)	38 (31)	20 (55)	100 (91)
*(7) Total (6) projected to 1968-9	41 (36)	50 (67)	13 (30)	13 (45)	30 (35)	23 (55)	88 (96)

[a] See footnote on Table 9 for interpretation

F.   DISCUSSION: INSTITUTIONS OFFERING TWO TO FOUR YEARS BEYOND
                   THE 12th GRADE

1.   Expenditures

Approximately 20% of the 688 institutions which offer two to four years
beyond high school were included in the sample. (This group is made up
almost entirely of the two-year schools and will be referred to hereafter
as the "two-year institutions.") Based upon the responses of the sampled
institutions the entire group spent an estimated $7\frac{1}{2}$ million on computers
for research and instruction in FY65. From table 38 we see that the usage
was almost entirely undergraduate instruction. Expenditures for FY69 are
estimated to be nearly doubled or $14\frac{1}{2}$ million (see tables 32 and 33). To
these figures we should add 2 1/3 million for the manufacturers' contri-
butions in FY65 (table 34). Over 4 1/3 million (nearly 60%) of the $7\frac{1}{2}$
million expenditures in FY65 went for computer rentals, maintenance and
purchases. For FY69 these items are expected to total approximately $7\frac{1}{2}$
million.

1 3/4 million was used by the two-year institutions to pay for 283 staff
members in FY65 and an estimated 4.4 million will be required in FY69 to
pay for a staff of 731. Current expenditures for FY65 (3.8 million) exceeded
capital expenditures only slightly (3.7 million). However, for FY69 current
expenses are estimated to be 10 million vs. about $4\frac{1}{2}$ million for capital
expenditures.

2.   Sources of Funds

Federal funds "primarily for computer activities" amounted to an estimated
$1\frac{1}{4}$ million in FY65 and other sources (primarily state matching funds under
NDEA, Title VIII) accounted for $1\frac{1}{2}$ million with the remaining 4 3/4 million
coming from the two-year institutions themselves. For FY69 the Federal
sources are estimated to provide 1.9 million, other sources 1.7 million
and the institutions themselves are estimated to be able to provide 10.7
million (table 35).

3.   Number of Institutions With Computers and Numbers of Computers in the
     Institutions

An estimated 150 of the 688 two-year institutions had a computer installed
or on order by late 1966. These 150 institutions had 85 computers installed,
110 on order, and 22 of the installed machines were to be replaced by on
order equipment (see table 15). Of the 85 installed machines 38 are
estimated to be wholly leased and 41 complete systems were purchased.

4.   Degree Programs in Computer Science and Related Areas

69 of the estimated 226 going degree programs during FY65 were associate
degree programs in business data processing at the two-year institutions.
An estimated 61 additional associate degree programs in business data
processing were planned; also 6 in computer science and 11 in scientific
data processing were planned at the same level (see Table 37).

Item III.

Table 32 (from page VI-A-35)
Current Expenditures for Digital Computer Activities
by Cost Items and Number of Personnel
Institutions Offering Two to Four Years Beyond 12th Grade
SAMPLE SIZE 141
POP. SIZE 688

Cost Item	1964-5	1968-9 Projection
A. Current (1964-5) and Projected (1968-9) expenditures for digital computer activities		
1. Equipment rentals	943,000.00	2,559,000.00
2. Rental or costs for building space to house computer activities	71,000.00	674,000.00
3. Maintenance costs not already included in (1) or (2)	133,000.00	334,000.00
4. Salaries and wages of personnel..........Total	1,785,000.00	4,403,000.00
a. Systems and utility programmers	292,000.00	839,000.00
b. Administrative and other professional	1,149,000.00	2,673,000.00
c. All other (e.g., keypunch and other operators, clerical, technicians)	343,000.00	888,000.00
5. Costs for purchase of off-campus computing service	---,000.00	51,000.00
6. Other direct costs (including materials and supplies)	260,000.00	606,000.00
7. Indirect costs (general institutional administrative and general expense allocation)	613,000.00	1,423,000.00
Total	3,810,000.00	10,051,000.00

B. Please indicate full time equivalent number employed for items 4 (a), 4 (b), and 4 (c) above:

	Number of Personnel	
	1964-5	1968-9 Projection
1. Systems and utility programmers	50	123
2. Administrative and other professional	130	298
3. All other (keypunch and other operators, clerical, technicians, etc.)	101	309
Total	283	731

Item IV.

Table 33 (from page VI-A-35)

Capital Expenditures for Digital Computer Activities
Institutions Offering Two to Four Years Beyond 12th Grade
SAMPLE SIZE 141 POP. SIZE 688

Year	Item			Total
	Computers and Peripheral Equipment	Buildings to House Computer Activities	Furniture, Fixtures, and other Equipment	
1964-5	3,282,000.00	235,000.00	264,000.00	3,782,000.00
1965-6 projection	1,454,000.00	71,000.00	248,000.00	1,776,000.00
1966-7 projection	2,310,000.00	156,000.00	197,000.00	2,664,000.00
1967-8 projection	1,673,000.00	45,000.00	191,000.00	1,909,000.00
1968-9 projection	3,876,000.00	316,000.00	366,000.00	4,560,000.00

Table 34 (from page VI-B-34)

Additional Institutional and Manufacturers' Contributions
Institutions Offering Two to Four Years Beyond 12th Grade
SAMPLE SIZE 141   POP. SIZE 688

Item VI.

A. Adequacy of charges as a means of support for sponsored research and development projects

1. Did money received from sponsored R&D projects for computer usage equal the amount actually used in the case of

   a. R&D projects sponsored by the Federal Government — Yes __28__ No

   b. R&D projects sponsored by non-Federal agencies (excluding institution's own funds) — Yes __16__ No

2. If "no" in 1 (a) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by Federal agencies.   157,000.00

3. If "no" to 1 (b) above, estimate the institution's own funds that were used to defray the costs of furnishing additional computing services to R&D projects sponsored by non-Federal agencies.   ---,000.00

B. Equipment manufacturers' contribution

1. Estimated contributions toward purchase and/or rental of equipment made available from manufacturers in the form of discounts, allowances, etc., 1964-5.

Current Expenditures	610,000.00
Capital Expenditures	1,718,000.00
Total	2,328,000.00

Table 35 (from page VI-A-35)

Item II.

Current and Capital Expenditures for Digital Computer Activities,*
by Source of Funds for Reporting Period
Institutions Offering Two to Four Years Beyond 12th Grade
SAMPLE SIZE 141   POP. SIZE 688

Source of Funds	Current expenditures (1)	Capital** expenditures (2)	Total Col. (1)+(2) = (3)	Projected 1968-9 Total
A. Federal Government:				
1. Contracts and grants primarily for computer activities ***	478,000.00	746,000.00	1,225,000.00	1,609,000.00
2. Other contracts and grants	---,000.00	---,000.00	---,000.00	253,000.00
B. Institution's own funds	2,941,000.00	1,835,000.00	4,776,000.00	10,715,000.00
C. Other sources (gifts, contracts, and grants from industry, State and local governments, etc.)	388,000.00	1,149,000.00	1,538,000.00	1,690,000.00
D. Totals	3,810,000.00	3,731,000.00	7,541,000.00	14,268,000.00

* Activities includes everything except the use of the computers for the institution's own administrative affairs.

** Includes purchases of computer and peripheral equipment.

*** Total in column (3) should equal the total of all entries in Item V-A.

Table 36 (from page VI-B-34)
Expenditures of Funds Intended by the Funding Agency to be Used Primarily for the Support of Computer Equipment, Buildings, and Activities
Institutions Offering Two to Four Years Beyond 12th Grade
SAMPLE SIZE 141   POP. SIZE 688

Item V.

| Sources of Funds | Digital Computer Equipment or Buildings | | Computer Time for | | Computer Science Activities* (5) |
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
2. Sums of all other Federal Grants and Contracts (individual rates of less than $50,000 per year)	,000.00	,000.00	,000.00	,000.00	,000.00
** Total Federal	770,000.00	162,000.00		118,000.00	
B. Non-Federal Grants and Contracts:					
1. Annual Rates Greater than $50,000 (identify)					
a.	,000.00	,000.00	,000.00	,000.00	,000.00
b.	,000.00	,000.00	,000.00	,000.00	,000.00
c.	,000.00	,000.00	,000.00	,000.00	,000.00
d.	,000.00	,000.00	,000.00	,000.00	,000.00
2. Other non-Federal Grants and Contracts	000.00	,000.00	,000.00	,000.00	,000.00
Total Non-Federal	785,000.00	185,000.00	,000.00	281,000.00	28,000.00
C. Total of A and B, 1964-5	1,553,000.00	348,000.00	,000.00	400,000.00	28,000.00
D. Total Projected, 1968-9	1,470,000.00	321,000.00	,000.00	410,000.00	28,000.00

*Computer Science Activities: Includes institutes, academic programs support, fellowships, etc.
**Includes Federal Grants and Contracts in excess of $50,000 per year from previous page of questionnaire.

Table 37 (from page V-24)

Item I. Institutions offering Two to four years beyond 12th grade
Sample size 141
Population size 688

B. Computer Science Instruction Programs:

(1) What degree programs did your institution offer in 1964-65, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Degrees (check appropriate ones)			
		Assoc.	Bach.	Masters	Doctorate
a. Computer Science	0	0			
b. Business Data Processing	69	69			
c. Scientific Data Processing	0	0			
d.					

(2) What degree programs does your institution plan to offer in the next three years, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Total	Assoc.	Bach.	Masters	Doctorate
a. Computer Science	6	6			
b. Business Data Processing	61	61			
c. Scientific Data Processing	11	11			
d.					

(3) Estimate and project the number of students being trained to use computers at your institution.

	Graduate		Undergraduate	
	1964-5	1968-9	1964-5	1968-9
a. Computer Science majors	78	101	2,968	9,454
b. Other majors (with at least some skill in using one programming language)	1,000	1,839	6,839	15,188

5. Numbers of "Computer Science" Majors and Numbers of Students Being Trained to Use Computers

Although an estimated 78 graduate majors (obviously data processing from section D) were enrolled in FY65 and 101 expected in FY69 it is not clear whether these are students beyond the bachelor's degree or associate degree (most likely, the latter). Nearly 3000 undergraduate majors in data processing were enrolled in FY65 and nearly 9500 are expected to be present for FY69.

Students receiving some computer education included 1000 "graduate" students and nearly 7000 undergraduates in FY65. These figures for FY69 are estimated to be nearly 7000 and over 15,000, respectively: (see Table 37).

6. Distribution of Usage as Percentage of Cost

The estimates given in Table 38 indicate that usage was spotty with the median percentage of use for computer science (data processing) at the undergraduate level being 81%. A few institutions had small percentages of use in engineering and the physical sciences for undergraduate instruction. About 34 institutions are estimated to have had "other" undergraduate instruction use at fairly high percentages since the median use in this category was estimated as being 60%. It is quite possible that some of these should have been included in the "computer science" category. Usage is expected to span all academic areas for FY69 with "computer science" and "other" to have median percentages of 64% and 75%, respectively.

Table 38

Item VII. Utilization of Digital Computers for Research, Development and Education
Institutions Offering two to four years Beyond 12th grade
Population size 688
Sample size 141

Purpose	Engineering (1)	Physical Sciences (2)	Life Sciences (3)	Social Sciences (4)	Computer Sciences (5)	Other (6)	Total (7)
	Distribution as percentage of cost of total utilization (Total annual cost = 100%)						
(1) R&D and Graduate Instruction — Median	—	—	—	—	—	83	88
( ) Estimated No. of Institutions	(0)	(0)	(0)	(0)	(0)	(6)	(6)
(2) Undergraduate Instruction	18[a]	13	—	—	81	60	88
	(39)	(17)	(0)	(0)	(88)	(34)	(99)
(3) Computer Center (e.g., R&D in Software not included elsewhere)							13
							(18)
(4) Library Sciences, Information Retrieval Systems (e.g., R&D in IRS not included elsewhere)							13
							(6)
(5) Extra-Institutional							(0)
(6) Total (1) through (5)	18	13	(0)	(0)	81	67	100
	(39)	(17)			(88)	(40)	(105)
(7) Total (6) projected to 1968-9	18	13	15	13	64	75	88
	(56)	(42)	(26)	(20)	(99)	(66)	(132)

[a] See footnote on Table 9 for interpretation

G. RECOMMENDATIONS FOR FURTHER STUDY

1. Further Analyses of Summaries from Present Study

There are literally thousands of comparisons, estimates, and projections
that can be made from the results of this study. The sampling design
provided for 38 different strata, hence estimates for all variables are
available for each stratum. These estimates can then be combined (cautiously,
since standard errors were not computed) over any desired combinations of
strata. Five such combinations were discussed on previous pages of this
report, namely, all institutions, doctoral granting institutions, institutions
offering masters and/or second professional degrees, bachelors and/or first
professional degrees and institutions offering two to four years beyond
12th grade. Other groupings which were summarized but not discussed are
public institutions by level of highest offering and private institutions
by level. All of the summaries mentioned above are on file in the Office
of Computer Activities of the National Science Foundation and most of
them (those containing sufficient information) are included in Sections II-
VII of this publication. Those who have needs for summary information not
discussed here are referred to these sources.

2. Future Studies

If there is a need in the near future for the kind of detail which this
survey treated, I recommend that serious consideration be given to a
refinement of the sampling design based upon the knowledge gained from
this study. The information gathered under Item I is being included in
the NSF Inventory of Computers, Applications of Computers, and Instructional
Programs in U. S. Higher Education which is being established by the
Computer Sciences Project of SREB. With this information available else-
where, good enough estimates can be obtained on the financial variables
with a much smaller sample. The stratification variates used in this
study are not adequate for this purpose. Careful consideration must be
given to strata selection by those for whom the survey is intended to
provide information. These concerns plus considerations relative to
providing greatest accuracy of the estimates at minimum cost will provide
the proper basis for stratification.

A desirable approach to re-design for future studies would be to select
a sampling design, draw a sample accordingly and then use the present
data files, or those of the new NSF inventory, to test the efficiency of
the sampling design. This process would likely need to be repeated several
times before a satisfactory design would be accepted. For such simulation
studies it would be necessary to compute the standard errors as well as
the estimates of the variables under consideration. Obviously, the design
cannot guarantee that all variables are to be controlled to the same degree
of accuracy. The most critical variables should be used to establish the
sampling design.

REFERENCES

(1) <u>Digital Computer Needs in Universities and Colleges</u> (Rosser Report)
National Academy of Sciences, National Research Council, Washington,
D. C., 1966, 176 p.

(2) Opening Fall Enrollment in Higher Education, 1965, Office of Education,
U. S. Department of H. E. W., Superintendent of Document, U. S. Government
Printing Office, Washington, D. C. 20042, 50 cents.

APPENDIX A.

THE SURVEY

1. Survey Design

In March 1966 the National Science Foundation contracted with the Southern
Regional Education Board for its Computer Sciences Project to finalize the
questionnaire, disseminate it to the institutions of higher education,
process the returns, and summarize the results. Upon the recommendation
of the Bureau of the Budget, the National Center for Educational Statistics
of the Office of Education drew a stratified (systematic) random sample
of approximately seven hundred (700) of the nation's over twenty-two
hundred (2,200) institutions of higher education. The total population
was first stratified into thirty-eight (38) strata on the basis of three
characteristics as follows:

		Code
A.	**Type of Control (CTL)**	
	a. Public	1
	b. Private	2
B.	**Type of Institution (TYPE)**	
	a. Semiprofessional School	0
	b. Private	1
	c. Liberal Arts College	2
	d. Teachers College	4
	e. Independent Technological School	5
	f. Theological or Religious School	6
	g. Other Independent Professional School	7
	h. Junior College	8
	i. Technical Institution	9
C.	**Highest Level of Offering (LEVEL)**	
	a. 2 to 4 Years beyond 12th Grade	1
	b. Bachelors and/or First Professional Degrees	2
	c. Masters and/or Second Professional Degrees	3
	d. Doctor of Philosophy or Equivalent Degrees	4
	e. Other	5

All strata for doctoral granting institutions were sampled 100%. Sixteen
strata contained fewer than ten institutions and were also left in completely.
Various sampling rates (from 10% to 50%) were selected for the remaining
strata and a systematic random sample was taken from each of these strata
after their institutions had been sorted on enrollment.

A punched card deck for the institutions in the sample was then furnished
to SREB by the Office of Education. One card for each school contained
the name and address of the school, its state and identification code
numbers and the stratification variates.

2.   General Response

When all factors are considered, I feel that the response was quite good.
The overall response rate was 92%. Response rates and effective sampling
ratios are shown by strata in Table 1.

The questionnaires were all mailed within a two-day period in mid-July, 1966.
The first follow-up was in the form of a reminder letter on September 23
and was sent to the president of all of the institutions which had not
responded. A second follow-up, a return postcard type, was sent on December 20
and another letter was dispatched on January 20, 1967. The important
characteristic of the follow-ups was that they were sent simultaneously
to all non-respondents as of a given time. No special prodding was given
to individual institutions. Because of the manner in which the follow-ups
were handled and the high rate of response for the strata which provide
the greatest contribution to the total estimates, non-respondents have
been considered as not having been in the sample originally rather than
attempting to make corrections for missing data (i.e., the sample number
for a given stratum is taken to be the number of respondents from the
original sample).

3.   General Appraisal of Accuracy of Responses

Since this survey was the first statistical study to delve deeply into the
sources of funds and types of expenditures for college and university computing
facilities, it posed a great problem for many of the larger institutions. I
am certain that many man days were required to provide the requested data
in some cases. Though the temptation to use a random number generator might
have been strong at times, I feel certain that a very high percentage of
the institutions made an honest effort to obtain and report accurate figures.
I personally edited each returned instrument and verified that certain cross
checks which had been built into the questionnaire did check. In some cases
a phone call was necessary to iron out a discrepancy. Occasionally an
institution did not respond to an item rather than insert estimates, even
though they were encouraged to do so in the instructions which accompanied
the questionnaire. This was particularly true for the last page of the
questionnaire dealing with distribution of usage by percent, the indirect
cost items and the manufacturers' contributions.

4.   General Appraisal of Accuracy of Estimates

The accuracy of the estimates will vary from item to item. Those which
were easily identifiable such as machine rental and salaries for 1964-65
are probably accurate to within $\pm$ 10% whereas something like indirect
costs may be off as much as 20% on the low side. In this case a bias
was introduced because of the frequency of non-response or obviously low
response. To partially correct for this bias a 20% of direct costs amount
was supplied whenever the item was left blank. In no case do I recall
that an excessive rate was included but in many cases an obviously low
rate was reported, thus leading me to conjecture that the estimates of
indirect costs are about 20% low. By essentially the same observations
and reasoning I believe the manufacturer's contribution to be as much
as 30% low.

TABLE 1

Population, Sample and Response Summary

| | Strata | | Number of Institutions: | | | Percent Response | Effective Sampling Ratio |
CTL	TYPE	LEVEL	In Population N	In Sample n	Responding n'	100 n'/n	N/n'
Public:							
Universities							
1	1	4	106	106	97	91	1.09
Other Four-Year Institutions							
1	1	3	4	4	4	100	1.00
1	2	2	48	12	12	100	4.00
1	2	3	60	20	18	90	3.33
1	2	4	7	7	7	100	1.00
1	2	5	1	1	1	100	1.00
1	4	2	37	10	9	90	4.11
1	4	3	116	39	33	85	3.52
1	4	4	5	5	5	100	1.00
1	5	2	6	6	5	83	1.20
1	5	3	7	7	6	86	1.17
1	5	4	6	6	6	100	1.00
1	7	2	1	1	1	100	1.00
1	7	3	1	1	1	100	1.00
1	7	4	8	8	8	100	1.00
Two-Year Institutions							
1	0	1	8	3	3	100	2.67
1	8	1	400	79	71	90	5.63
1	9	1	20	10	8	80	2.50
All Public			841	325	295	91	--
Private:							
Universities							
2	1	4	66	66	61	92	1.08
Other Four-Year Institutions							
2	1	3	9	9	9	100	1.00
2	2	2	508	85	31	95	6.27
2	2	3	172	57	55	97	3.13

TABLE 1
(continued)

Population, Sample and Response Summary

	Strata		Number of Institutions:			Percent	Effective
			In Population	In Sample	Responding	Response	Sampling Ratio
CTL	TYPE	LEVEL	N	n	n'	100 n'/n	N/n'
Other Four-Year							
Institutions							
(continued)							
2	2	4	22	22	20	91	1.10
2	4	2	19	6	5	83	3.80
2	4	3	8	8	8	100	1.00
2	4	4	1	1	1	100	1.00
2	5	2	14	7	5	72	2.80
2	5	3	6	6	5	83	1.20
2	5	4	9	9	7	78	1.29
2	6	2	108	10	10	100	10.80
2	6	3	70	10	8	80	8.67
2	6	4	29	7	6	86	4.83
2	7	2	53	14	14	100	3.79
2	7	3	13	13	11	85	1.18
2	7	4	11	11	9	82	1.22
Two-Year							
Institutions							
2	0	1	22	11	10	91	2.20
2	8	1	231	47	43	91	5.37
2	9	1	7	7	6	86	1.17
All Private			1,378	406	374	92	--
All Institutions			2,219	731	669	92	--

Standard errors for the estimates were not computed because of need for
economy in the processing costs, and because the high percentage of
contribution to the estimates by universities (originally in sample 100%).
Because of the latter and the biases referred to above I do not feel that
the standard errors would have provided sufficient additional useful
information to justify the added processing costs.

APPENDIX B

Projections of numbers of institutions with computers and number of computers in institutions for research and instructional purposes.

The data used for the Rosser Report also included computers used solely for administrative purposes (approximately 100). The number of computers used for research and instruction were obtained as follows:

No. for January 1966 (880) = No. installed (858) plus no. on order for delivery in 1965 (22)

No. for January 1967 (991) = No. for January 1966 (880) plus no. on order for delivery in 1966 (211) minus no. to be replaced (100)

No. for January 1968 (1100) = No. for January 1967 (991) plus no. on order for delivery in 1967 (209) minus no. to be replaced (100)

These three points are approximately collinear. Projections for 1969 and 1970 were obtained by extending the line connecting these three points to give approximately 1200 and 1300 for the number of computers expected to be in use at colleges and universities primarily for research and instructional purposes by January 1969 and January 1970, respectively. I feel that these estimates are more in line with reality than what we would get by using the number of computers given as being on order for 1968 and 1969 since colleges and universities do not plan that far ahead as a rule.

The survey estimates give 707 as the number of schools having access to at least one computer for research and instruction. If we place this figure as being representative of the situation as of January 1967, then we have an approximate excess of 300 computers over the number of schools. By assuming this difference to remain constant we can draw a line from this point parallel to the line for the no. of computers.

From the above assumptions we arrive at the estimates given in Table 6.

TABLE 1

Strata	Number of Institutions	Estimated Number of Institutions with Computers	Percentage
Public:			
Universities			
1 1 4	106	103	97%
Other Four-Year Institutions			
1 1 3	4	4	
1 2 2	48	20	
1 2 3	60	50	
1 2 4	7	6	
1 2 5	2	1	
1 4 2	37	4	
1 4 3	116	56	
1 4 4	5	4	
1 5 2	6	4	
1 5 3	7	7	
1 5 4	6	6	
1 7 2	1	0	
1 7 3	1	1	
1 7 4	8	5	
	308	168	55%
Two-Year Institutions			
1 0 1	8	0	
1 8 1	400	141	
1 9 1	20	8	
	428	149	35%
All Public	842	420	50%
Private:			
Universities			
2 1 4	65	61	94%
Other Four-Year Institutions			
2 1 3	9	3	
2 2 2	508	82	
2 2 3	172	81	
2 2 4	22	17	
2 4 2	19	0	
2 4 3	8	1	

TABLE 1 - Continued

Strata	Number of Institutions	Estimated Number of Institutions with Computers	Percentage
Other Four-Year Institutions (continued)			
2 4 4	1	0	
2 5 2	14	6	
2 .	6	4	
2 .. 4	9	7	
2 6 2	108	0	
2 6 3	70	0	
2 6 4	29	0	
2 7 2	53	8	
2 7 3	13	5	
2 7 4	11	6	
	1,052	225	21%
Two-Year Institutions			
2 0 1	22	0	
2 8 1	231	0	
2 9 1	7	1	
	260	1	0%
All Private	1,377	287	
All Universities	172	164	95%
All Other Four-Year Institutions	1,359	393	29%
Two-Year Institutions	688	150	22%
TOTAL	2,219	707	32%

TABLE 2
Number of Computers Installed and On Order by Strata

Strata	Estimated No. Installed 6/30/65	Estimated No. On Order 1966-69	Estimated No. to be Replaced 1966-69	Estimated No. Computers (Net)	Percent Net Increase
Public:					
Universities					
1 1 4	284	121	86	319	12
Other Four-Year Institutions					
1 1 3	4	2	1	5	25
1 2 2	12	8	0	20	67
1 2 3	52	34	22	64	23
1 2 4	10	2	4	8	(20)
1 2 5	2	0	0	2	0
1 4 2	0	4	0	4	--
1 4 3	31	41	7	65	110
1 4 4	4	4	3	5	25
1 5 2	3	2	0	5	67
1 5 3	7	2	1	8	14
1 5 4	9	7	3	13	45
1 7 3	1	1	1	1	0
1 7 4	7	4	1	10	43
	142	111	43	210	48
Two-Year Institutions					
1 8 1	77	109	21	165	114
1 9 1	7	0	0	7	0
	84	109	21	172	105
Private:					
Universities					
2 1 4	169	75	56	188	11
Other Four-Year Institutions					
2 1 3	7	3	0	10	43
2 2 2	55	36	0	91	65
2 2 3	67	39	15	91	36
2 2 4	18	9	6	21	17
2 4 3	1	0	0	1	0
2 5 2	5	0	0	5	0
2 5 3	3	2	2	3	0
2 5 4	11	7	5	13	18
2 7 2	3	3	0	6	100
2 7 3	3	1	0	4	33
2 7 4	5	1	1	5	0
	178	101	29	250	40

Table 2 - continued   65

Strata	Estimated No. Installed 6/30/65	Estimated No. On Order 1966-69	Estimated No. to be Replaced 1966-69	Estimated No. Computers (Net)	Percent Net Increase
Two-Year Institutions					
2 9 1	1	1	1	1	0
	≡	≡	≡	≡	≡
All Institutions	858	518	236	1,140	33

Appendix C

Estimated Number of Degree Programs by Name of Program

Totals

	A	B	M	D	T
Going	83	44	61	38	226
Planned	105	107	76	43	331
Total	188	151	137	81	557

LEGEND
A = Associate
B = Bachelor
M = Master
D = Doctorate
T = Total

Computer Science

	A	B	M	D	T
Going	0	11	17	12	40
Planned	17	81	59	26	183
Total	17	92	75	38	223

Business Data Processing

	A	B	M	D	T
Going	83	6	3	1	93
Planned	74	9	1	1	85
Total	157	15	4	2	178

Information Science

	A	B	M	D	T
Going	0	2	12	4	18
Planned	0	2	5	9	16
Total	0	4	17	13	34

Scientific Data Processing

	A	B	M	D	T
Going	0	0	0	0	0
Planned	13	0	0	0	13
Total	13	0	0	0	13

Options In:

Math

	A	B	M	D	T
Going	0	10	8	6	24
Planned	1	7	4	1	13
Total	1	17	12	7	37

Electrical Engineering

	A	B	M	D	T
Going	0	5	8	6	19
Planned	0	2	1	1	4
Total	0	7	9	7	23

Applied Science

	A	B	M	D	T
Going	0	0	1	0	1
Planned	0	0	1	1	2
Total	0	0	2	1	3

Management Science

	A	B	M	D	T
Going	0	0	2	1	3
Planned	0	0	1	1	2
Total	0	0	3	2	5

Appendix C (cont'd)

Estimated Number of Degree Programs by Name of Program
(continued)

Quantitative Analysis

	A	B	M	D	T
Going	0	1	2	1	4
Planned	0	0	0	0	0
Total	0	1	2	1	4

Linguistics

	A	B	M	D	T
Going	0	0	1	1	2
Planned	0	0	0	0	0
Total	0	0	1	1	2

Information Systems

	A	B	M	D	T
Going	0	0	0	0	0
Planned	0	1	3	1	5
Total	0	1	3	1	5

Statistics

	A	B	M	D	T
Going	0	0	1	1	2
Planned	0	1	1	1	3
Total	0	1	2	2	5

Systems Engineering

	A	B	M	D	T
Going	0	1	1	1	3
Planned	0	3	0	0	3
Total	0	4	1	1	6

Administrative Science

	A	B	M	D	T
Going	0	3	0	0	3
Planned	0	1	0	0	1
Total	0	4	0	0	4

Machine Computers

	A	B	M	D	T
Going	0	1	1	0	2
Planned	0	0	0	1	1
Total	0	1	1	1	3

Systems Analysis

	A	B	M	D	T
Going	0	1	1	0	2
Planned	0	0	0	0	0
Total	0	1	1	0	2

Industrial Engineering

	A	B	M	D	T
Going	0	1	1	1	3
Planned	0	0	0	0	0
Total	0	1	1	1	3

Systems and Communications Science

	A	B	M	D	T
Going	0	2	2	3	7
Planned	0	0	0	0	0
Total	0	2	2	3	7

APPENDIX D

GENERAL AVAILABILITY OF COMPUTERS TO STUDENTS IN HIGHER EDUCATION

The data on computers and computer science programs was furnished by the
institutions during the fall of 1966. Even though the financial data was
requested for the year 1964-65, there was no clear-cut instruction as to
a definite cut-off on computers-on-hand and academic major programs going.
Therefore, the institutions tended to report status quo with regard to
these items. The major exception being that computers installed after
July 1, 1965, were generally listed as "on order." For these reasons,
it appears logical to use enrollment figures for the fall of 1965 for any
statements regarding computers in groups of institutions vs. enrollments.
The sample of institutions was drawn from a spring 1966 version of the
Office of Education list of higher institutions and will therefore not agree
exactly with those appearing in Opening Fall Enrollment in Higher Education,
1965, Office of Education.

The estimates obtained in Tables 1 and 2 are made possible because of
the manner in which the samples were drawn for each strata. The method
used is called systematic random sampling after the institutions within
each stratum were sorted according to enrollment. The methods used in
the computations of the estimates do not warrant precise statements.
However, we are safe in saying that computers are available in public
higher institutions enrolling approximately 45% of our 6 million higher
education students, in private higher institutions enrolling 15% of the
students or that computers are available on campuses which enroll approximately
60% of the college and university students. Conversely, we can say that
approximately two out of every five college and university students have
no opportunity to have access to a computer.

Appendix D
Table 1.

Level of Institutions and Type of Control	1965 Fall Enrollment	Estimated Total No. of Students Introduced to Computer/Year	Estimated for 4-Year Period	Percent of Total Enrollment	Estimated 1968 Fall Enrollment	Estimated Total No. of Students to be Introduced to Computers	Estimated for 4-Year Period	Percent of Total Enrollment
Public:								
Universities	1.7	.07	.28	16	2.1	.22	.88	42
Other Four-Year Institutions	1.3	.02	.08	6	1.5	.05	.20	13
Two-Year Institutions	1.0	.01	.04	4	1.1	.03	.12	11
All Public	4.0	.10	.40	10	4.7	.30	1.20	26
Private:								
Universities	.7	.03	.12	17	.7	.08	.32	46
Other Four-Year Institutions	1.2	.03	.12	10	1.4	.09	.36	26
Two-Year Institutions	.1	.00	.00	0	.2	.00	.00	0
All Private	2.0	.06	.24	12	2.3	.17	.68	30
All Universities	2.4	.10	.40	17	2.8	.30	1.20	43
All Other Four-Year Institutions	2.5	.05	.20	13	2.9	.14	.56	19
All Two-Year Institutions	1.1	.01	.04	4	1.3	.03	.12	9
ALL INSTITUTIONS	6.0	.16	.64	11	7.0	.47	1.88	27

Appendix D
Table 2.

Level of Institutions and Type of Control	(1) No. of Institutions	(2) Estimated* No. of Institutions with Computers	(3) Est. % of Institutions with Computers (2) ÷ (1)	(4) 1965 Fall Enrollment (Millions)	(5) Estimate of No. Students in Institutions with Computers (Millions)
Public:					
Universities	106	103	97	1.7	1.6
Other Four-Year Institutions	307	168	55	1.3	.7
Two-Year Insitutions	428	149	35	1.0	.4
All Public	841	420	50	4.0	2.7**
Private:					
Universities	66	61	92	.7	.6
Other Four-Year Institutions	1,052	225	21	1.2	.3
Two-Year Institutions	260	1	0	.1	.0
All Private	1,378	287	21	2.0	.9**
All Universities	172	164	95	2.4	2.2**
All Other Four-Year Institutions	1,359	393	29	2.5	1.0**
All Two-Year Institutions	688	150	22	1.1	.4**
ALL INSTITUTIONS	2,219	707	32	6.0	3.6**

* See Table 1 for estimates by strata. (Appendix B)
** Obtained by addition of proper basic estimates, nct (3) X (4)

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QUESTIONNAIRE ON EXPENDITURES, SOURCES OF FUNDS, AND UTILIZATION
OF DIGITAL COMPUTERS FOR RESEARCH AND INSTRUCTIONAL USES ONLY, 1964-5

Item I. General Information

A. Identification of institution and computer systems:

(1) Campus Address

(2) Institutional Representative providing data:

_____   _____   _____
Name   Title   Telephone Number

(3) 12-Month reporting period (if other than 7/1/64 to 6/30/65) _____

(4) List of Computer Systems included in report (i.e., IBM 7090, CDC 3600, GE 235, etc.)

Computer System	Year Installed	Lease	Purch.	Both	Avg. Use Hrs./Mo.
a.					
b.					
c.					
d.					
e.					
f.					
g.					
h.					
i.					
j.					

(5) Computer Systems on order (if any) and dates of expected delivery. (Include only systems for which legal commitments have been made.)

Computer System	Delivery Year
a.	
b.	
c.	
d.	

(6) Which computers listed in (4), if any, are to be replaced by those listed in (5)?

a	b	c	d	e	f	g	h	i	j

Item I. (continued)

B. Computer Science Instruction Programs:

(1) What degree programs did your institution offer in 1964-65, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Degrees (check appropriate ones)			
	Assoc.	Bach.	Masters	Doctorate
a.				
b.				
c.				
d.				

(2) What degree programs does your institution plan to offer in the next three years, if any, in Computer Science, Information Science, Data Processing, etc.?

Name of Program	Assoc.	Bach.	Masters	Doctorate
a.				
b.				
c.				
d.				

(3) Estimate and project the number of students being trained to use computers at your institution.

	Graduate		Undergraduate	
	1964-5	1968-9	1964-5	1968-9
a. Computer Science majors				
b. Other majors (with at least some skill in using one programming language)				

Item II.   Current and Capital Expenditures for Digital Computer Activities,*
by Source of Funds for Reporting Period

Source of Funds	Current expenditures (1)	Capital** expenditures (2)	Total Col. (1)+(2) = (3)	Projected 1968-9 Total
A. Federal Government:				
1. Contracts and grants primarily for computer activities ***	,000.00	,000.00	,000.00	,000.00
2. Other contracts and grants	,000.00	,000.00	,000.00	,000.00
B. Institution's own funds	,000.00	,000.00	,000.00	,000.00
C. Other sources (gifts, contracts, and grants from industry, State and local governments, etc.)	,000.00	,000.00	,000.00	,000.00
D. Totals	,000.00	,000.00	,000.00	,000.00

* Activities includes everything except the use of the computers for the institution's own administrative affairs.

** Includes purchases of computer and peripheral equipment.

*** Total in column (3) should equal the total of all entries in Item V-A.

Item III. Current Expenditures for Digital Computer Activities
by Cost Items and Number of Personnel

Cost Item	1964-5	1968-9 Projection
A. Current (1964-5) and Projected (1968-9) expenditures for digital computer activities		
1. Equipment rentals	,000.00	,000.00
2. Rental or costs for building space to house computer activities	,000.00	,000.00
3. Maintenance costs not already included in (1) or (2)	,000.00	,000.00
4. Salaries and wages of personnel		
a. Systems and utility programmers	,000.00	,000.00
b. Administrative and other professional	,000.00	,000.00
c. All other (e.g., keypunch and other operators, clerical, technicians)	,000.00	,000.00
5. Costs for purchase of off-campus computing service	,000.00	,000.00
6. Other direct costs (including materials and supplies)	,000.00	,000.00
7. Indirect costs (general institutional administrative and general expense allocation)	,000.00	,000.00
Total	,000.00	,000.00

B. Please indicate full time equivalent number employed
for items 4 (a), 4 (b), and 4 (c) above:

	Number of Personnel	
	1964-5	1968-9 Projection
1. Systems and utility programmers		
2. Administrative and other professional		
3. All other (keypunch and other operators, clerical, technicians, etc.)		

Item IV.

Capital Expenditures for Digital Computer Activities

Year	Item		
	Computers and Peripheral Equipment	Buildings to House Computer Activities	Furniture, Fixtures, and other Equipment
1964-5	,000.00	,000.00	,000.00
1965-6 projection	,000.00	,000.00	,000.00
1966-7 projection	,000.00	,000.00	,000.00
1967-8 projection	,000.00	,000.00	,000.00
1968-9 projection	,000.00	,000.00	,000.00

Item V. "xpenditures of Funds Intended by the Funding Agency to be Used
Primarily for the Support of Computer Equipment, Buildings, and Activities

Source of Funds	Digital Computer Equipment or Buildings		Computer Time for		Computer Science Activities* (5)
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
A. Federal Grants and Contracts 1. Annual Rates Greater than $50,000 per yr.					
a. Agency _____ Grant or Contract Number _____ Effective Date _____ to _____ Agency Program Monitor (individual) _____ if known _____	,000.00	,000.00	,000.00	,000.00	,000.00
b. Agency _____ Grant or Contract Numb·r _____ Effective Date _____ to _____ Agency Program Monitor (individual) _____ if known _____	,000.00	,000.00	,000.00	,000.00	,000.00
c. Agency _____ Grant or Contract Number _____ Effective Date _____ to _____ Agency Program Monitor (individual) _____ if known _____	,000.00	,000.00	,000.00	,000.00	,000.00
d. Agency _____ Grant or Contract Number _____ Effective Date _____ to _____ Agency Program Monitor (individual) _____ if known _____	,000.00	,000.00	,000.00	,000.00	,000.00

(Use separate attachment listing additional items if necessary.)
*Computer Sciences Activities: Includes institutes, academic program support, fellowships, etc.

Item V. (continued)

| Sources of Funds | Digital Computer Equipment or Buildings | | Computer Time for | | Computer Science Activities* (5) |
	Rental or Purchase Cost (1)	Operating Cost (2)	R&D & Grad. Instruction (3)	Undergrad. Instruction (4)	
2. Sums of all other Federal Grants and Contracts (individual rates of less than $50,000 per year)	,000.00	,000.00	,000.00	,000.00	,000.00
B. Non-Federal Grants and Contracts: 1. Annual Rates Greater than $50,000 (identify)					
a. _____	,000.00	,000.00	,000.00	,000.00	,000.00
b. _____	,000.00	,000.00	,000.00	,000.00	,000.00
c. _____	,000.00	,000.00	,000.00	,000.00	,000.00
d. _____	,000.00	,000.00	,000.00	,000.00	,000.00
2. Other non-Federal Grants and Contracts	,000.00	,000.00	,000.00	,000.00	,000.00
C. Total of A and B, 1964-5	,000.00	,000.00	,000.00	,000.00	,000.00
D. Total Projected, 1968-9	,000.00	,000.00	,000.00	,000.00	,000.00

*Computer Science Activities: Includes institutes, academic programs support, fellowships, etc.

Item VI.   Additional Institutional and Manufacturers' Contributions

A.   Adequacy of charges as a means of support for sponsored
     research and development projects

     1. Did money received from sponsored R&D projects for
         computer usage equal the amount actually used in
         the case of

         a. R&D projects sponsored by the Federal Government   Yes _____ No _____

         b. R&D projects sponsored by non-Federal agencies   Yes _____ No _____
             (excluding institution's own funds)

     2. If "no" in 1 (a) above, estimate the institution's own
         funds that were used to defray the costs of furnishing
         additional computing services to R&D projects sponsored   _____ ,000.00
         by Federal agencies.

     3. If "no" to 1 (b) above, estimate the institution's own
         funds that were used to defray the costs of furnishing
         additional computing services to R&D projects sponsored   _____ ,000.00
         by non-Federal agencies.

B.   Equipment manufacturers' contribution

     1. Estimated contributions toward purchase and/or | Current Expenditures | ,000.00 |
         rental of equipment made available from manu- |----------------------|---------|
         facturers in the form of discounts, allowances, | Capital Expenditures | ,000.00 |
         etc., 1964-5. |----------------------|---------|
                                                                | Total | ,000.00 |

Item VII. Utilization of Digital Computers for Research, Development and Education

Purpose	Distribution as percentage of cost of total utilization (Total annual cost = 100%)						
	Engineering (1)	Physical Sciences (2)	Life Sciences (3)	Social Sciences (4)	Computer Sciences (5)	Other (6)	Total* (7)
(1) R&D and Graduate Instruction							
(2) Undergraduate Instruction							
(3) Computer Center (e.g., R&D in Software not included elsewhere)							
(4) Library Sciences, Information Retrieval Systems (e.g., R&D in IRS not included elsewhere)							
(5) Extra-Institutional							
*(6) Total (1) through (5)							
*(7) Total (6) projected to 1968-9							

* The sum of the entries in Column 1-6 should equal the entry in Column 7 for lines 1 and 2 only.

** The sum of the entries in Columns 1-6 may not equal 100%.

Budget Bureau No. 99-6608
Approval Expires 3/15/67

National Survey on Expenditures, Sources of Support,
and Utilization of Digital Computers at Academic Institutions in
Research and Instruction, 1964-5*

General Comments:

This questionnaire is intended to be used to summarize data on all digital computers used in research and instructional activities at a single major campus of an institution. Because of the importance being attached to this study, a careful attempt has been made to request information in a manner which would be readily available at most institutions. However, it is recognized that individual differences among academic institutions may make some of the information difficult or impossible to provide in the manner requested. <u>Do not report expenditures or utilization figures for equipment used in the administration of the institution. If computer facilities are used jointly for administration, research, instructional, and area services, then allocate costs on the basis of the percentage of non-administration uses.</u>

Separate forms should be completed for each campus. However, more than one form may be used for a single campus when significant distortions would result otherwise.

"Equipment" refers to all electronic digital computers and peripheral equipment such as card readers, card punches, etc.

At many institutions a substantial investment in computer equipment will exist separate from a centralized installation. It is intended that all such equipment and usage be included. Fiscal information should be given in <u>thousands of dollars,</u> rounded to the nearest thousand. Data accurate to within ten percent would be most useful, but if this is not possible, rougher estimates should be included.

This survey is being carried out by the Computer Sciences Project of the Southern Regional Education Board for and under contract with the National Science Foundation. No part of the financial data will appear in any form which will be identifiable with the institution.

*1964-5 data is requested for uniformity even though later data might be available.

Comments on Specific Items:

Item I:

A(2) Normally, the individual preparing the questionnaire and from whom additional information can be obtained, if needed.

Item II:

(D) The total for current expenditures should equal the total of 1964-5 expenditures in Item III.

Item III:

(A) In cases where manufacturers discounts or other allowances for equipment have been provided, report only net costs to the institution. This instruction applies also to Item IV. (cf. Item VI)

Item V:

This Item attempts to exhibit individual, usually large, sources of funds intended primarily for computer activit es per se or for computing equipment (and buildings) intended for general research and educational needs.

V(A) Providing the name of the individual program monitor from an agency will assist efforts to coordinate institutional needs with the plans of Federal agencies.

Column (2): Include only salaries and wages, maintenance and other direct costs. (i.e., do not include overhead or indirect costs.)

Item VI:

(A) Many institutions have reported that monies received toward computing-time charges for work on sponsored R&D grants and contracts usually do not cover the cost of time actually provided to such users. Part A is intended to provide NSF with estimates of the magnitude of this discrepancy.

Item VII:

This Item is intended to indicate the distribution of computer activities for various purposes, each item being expressed as an estimated percentage of the total cost based upon usage.

VII(5) i.e., utilization of equipment or services by individuals or organizations which are not a part of the institution submitting this report.

If there are further questions, please contact:

Dr. John W. Hamblen
Computer Sciences Project Director
Southern Regional Education Board
130 Sixth Street, N. W.
Atlanta, Georgia 30313

Office Phone: 404-875-9211   (Home Phone: 404-938-0866)

II. Listing of Institutions in Sample and Their Computers
(Item I-A of Questionnaire)

Note: All institutions which responded to the questionnaire and had computers either installed or on order are
listed with the exception of eleven institutions which requested that they not be listed.

Even though the questionnaire requested that the institutions "include only systems for which legal committments
have been made" for on-order computers we know that this statement was not interpreted uniformly throughout the
country. Changes are constantly being made on orders for a variety of reasons, particularly for large systems. The
reader should not assume that the on-order status in a given instance has been consumated or represents the present
status.

Strata Identification:

CTL = Type of Control

1 = Public
2 = Private

TYPE = Type of Institutions

0 = Semiprofessional School
1 = University
2 = Liberal Arts College
4 = Teachers College
5 = Independent Technological School
6 = Theological or Religious School
7 = Other Independent Professional School
8 = Junior College
9 = Technical Institution

LEVEL = Highest Level of Offering

1 = Two to Four Years beyond 12th Grade
2 = Bachelor's and/or First Professional Degree
3 = Master's and/or Second Professional Degree
4 = Doctor of Philosophy or Equivalent Degree
5 = Other

ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 3

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
FLORIDA A & M UNIVERSITY TALLAHASSEE FLORIDA	32307	IBM 1401	64		*			
CUNY CITY COLLEGE NEW YORK NEW YORK	10031	IBM 7040	64				*	160
MIAMI UNIVERSITY OXFORD, OHIO	45056	IBM 1620	62					300
		IBM 360/40	67				*	
UNIVERSITY OF PUERTO RICO RIO PIEDRAS PUERTO RICO	00931	IBM 1401	62	X				130
		IBM 360/30	67				*	

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
AUBURN UNIVERSITY AUBURN ALABAMA 36830	IBM 1620	62				*	80
	IBM 7040	64		*			200
	IBM 1401	64		*			200
UNIVERSITY OF ALABAMA UNIVERSITY ALABAMA 35486	UNI SS80	61					576
	UNI 1004	64			*		84
	UNI 1107	64		*			55
UNIVERITY OF ALABAMA MED CTR BIRMINGHAM ALABAMA 35233	IBM 7040	64		*			
	PDP 7	65			*		
UNIVERSITY OF ALASKA COLLEGE ALASKA 99735	IBM 1620	60		*			250
	IBM 360/40	66			*		
ARIZONA STATE UNIVERSITY TEMPE ARIZONA 85281	CDC 3400	64			*		60
	GEC 225	63					320
	IBM 1620II	63				*	320
	CDC LGP 30	58			*		150
	GEC PK4000	64			*		80
UNIVERSITY OF ARIZONA TUCSON ARIZONA 85721	IBM 7072	61	X			*	600
	IBM 1401	61	X		*		510
	CDC 6400	67					
UNIVERSITY OF ARKANSAS FAYETTEVILLE ARKANSAS 72701	IBM 7040	54		*			150
	IBM 1460	66					
UNIV OF CALIFORNIA AT BERKELEY BERKELEY CALIFORNIA 94720	IBM 1620	63	X		*		400
	IBM 1620	64			*		250
	IBM 1620	64		*			168
	IBM 1401	63		*			300
	IBM 7094	62	X			**	420
	IBM 7040	64	X			**	420
	IBM 1401	64		*			300
	IBM 1460	65		*			300
	IBM 360/30	66		*			190

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND UN ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
	SDS 930	64			*		500
	SDS 910	64			*		360
	PDP 6	65					
	IBM 360/40	67			*		250
	IBM 1600	66					
	SDS 930	66					
	CDC 6400	66					
UNIVERSITY OF CALIFORNIA DAVIS 95616 DAVIS CALIFORNIA	IBM 7040	63	X	*			200
	IBM 7044	65					
	PDP 8	65					
	IBM 360/50	68					
UNIVERSITY OF CALIF SAN DIEGO 92037 SAN DIEGO CALIFORNIA	CDC 1604	61			*		194
	CDC 3600	64			*		134
	CDC 160A	62			*		164
	CDC 160A	65			*		164
	IBM 1401	63		*			164
UNIV. OF CAL AT LOS ANGELES 90024 LOS ANGELES, CALIFORNIA	SDS 920	64		*			400
	SDS 930	65		*			400
	IBM 7040	64	X			*	625
	IBM 7094	64	X			*	625
	IBM 7094	61				*	625
	IBM 1401	61				*	625
	IBM 709	63				*	180
	IBM 7094	63	X	*			270
	IBM 7040	63	X	*			270
	IBM 360/75	66					
	IBM 360/90	67					
	IBM 360/75	67					
	IBM 360/40	66					
UNIV OF CAL AT RIVERSIDE 92502 RIVERSIDE CALIFORNIA	IBM 1620II	64	X	*			223
	IBM 7040	65					

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
UNIV OF CAL AT SAN FRANCISCO SAN FRANCISCO CALIFORNIA 94122	IBM 1620	61		*			160
	IBM 1401	64	X	*			80
	IBM 360/40	66					
UNIV OF CALIFORNIA SANTA CRUZ SANTA CRUZ CALIFORNIA 95060	IBM 1620	64		*			155
	UNI 1004	65					
UNIV OF CAL AT SANTA BARBARA SANTA BARBARA CALIFORNIA 93106	IBM 1620	63		*			250
	TRW 400	64			*		300
	IBM 360/50	66					
UNIVERSITY OF CONNECTICUT STORRS CONNECTICUT 06268	IBM 1620	61			*		200
	IBM 7040	63	X	*			130
	IBM 360/67	67					
FLORIDA STATE UNIVERSITY TALLAHASSE FLORIDA 32306	IBM 709	61	X		*		458
	IBM 1401	62		*			168
	CDC 6400	66					
	IBM 1440	66					
UNIVERSITY OF FLORIDA GAINESVILLE FLORIDA 32601	IBM 709	62	X		*		400
	IBM 1401	63			*		400
	IBM 1620	63			*		65
	TRW 300	63					
	IBM 360/50	67			*		500
UNIVERSITY OF GEORGIA ATHENS GEORGIA 30601	IBM 7094	64			*		500
	IBM 1620	61			*		300
	IBM 1401	62			*		450
	IBM 1401	64			*		450
	IBM 360/67	66					
UNIVERSITY OF HAWAII HONOLULU HAWAII 96822	IBM 7040	63			*		580
	IBM 1401	63			*		580
	CDC 3100	65					
	IBM 360/50	66					

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
UNIVERSITY OF IDAHO MOSCOW IDAHO 83843	IBM 1620	62	X	*			173
	IBM 360/40	67		*			
NORTHERN ILLINOIS UNIVERSITY DE KALB ILLINOIS 60115	IBM 1620	64			*		400
	IBM 360/40	67			*		
SOUTHERN ILLINOIS UNIV CARBONDALE ILLINOIS 62901	IBM 1620	62		*			175
	IBM 1401	62		*			20
	IBM 7040	64		*			90
	IBM 1401	65		*			50
SOUTHERN ILLINOIS UNIV EDWARDSVILLE ILLINOIS 62025	IBM 1620	64		*			
	IBM 1401	62		*			
VOCATIONAL TECHNICAL INSTITUTE CARBONDALE ILLINOIS 62901	IBM 1401	64			*		100
	IBM 360/40	68			*		
UNIVERSITY OF ILLINOIS URBANA ILLINOIS 61822	IBM 7094	62				*	550
	ILL IAC II	64			*		400
	CDC 1604	63			*		400
	ILL CSX I	61			*		300
	CDC G-20	63			*		130
	PAB 250	61			*		40
	IBM 1710	63		*			200
	IBM 1620	64		*			200
	IBM 1620	64		*			325
	IBM 1401	62				*	550
	IBM 1401	62				*	550
	IBM 1401	64			*		400
INDIANA UNIVERSITY BLOOMINGTON INDIANA 47405	IBM 709	62		*			250
	CDC 3600	64			*		144
	CDC 8090	64					200
PURDUE UNIVERSITY	IBM 1620	60		*			291

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CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
LAFAYETTE INDIANA 47907	IBM 1620	62		*			482
	IBM 705	63	X	*			456
	IBM 1710	62		*			192
	CDC RP4000	61			*		200
	IBM 7044	63		*			166
	IBM 360/40	66					
	IBM 360/67	67					
	IBM 360/67	68					
IOWA ST U OF SCI AND TECH AMES IOWA 50010	CYC LUNE	59	X		*		164
	IBM 7074	62	X	*			500
	IBM 1401	62	X	*			500
	IBM 1401	64	X	*			200
	IBM 1401	60	X	*			153
	IBM 1401	64		*			200
	SDS 910	63			*		200
	SDS 910	64		*	*		200
	IBM 360/40	65					
	IBM 360/50	66					
UNIVERSITY OF IOWA IOWA CITY IOWA 52240	IBM 7040	63	X	*			308
	IBM 7044	64		*			360
	IBM 1401	63	X	*			400
	IBM 1460	62		*			500
	DEC LINC	64			*		50
	UNI 418	63				*	500
	UNI 418	65				*	500
	CDC 160A	63				*	400
	IBM 360/30	65					
	IBM 360/40	66					
	IBM 360/67	68					
KANSAS ST U AG AND APP SCI MANHATTAN KANSAS 66502	IBM 1401	63		*			410
	IBM 1410	63	X	*			460
	IBM 1620	61			*		530
	IBM 360/50	67					

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CTL 1   TYPE 1   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
UNIVERSITY OF KANSAS LAWRENCE, KANSAS	66044	IBM 1620	62	X			*	330
		IBM 7040	64	X			*	360
		IBM 1401	64				*	190
		GEC 625	66					
		GEC 415	66					
		GEC DN/30	66					
WICHITA STATE UNIVERSITY WICHITA KANSAS	67208	IBM 1620	61				*	100
UNIVERSITY OF KENTUCKY LEXINGTON KENTUCKY	40604	IBM 7040	64	X			*	376
		IBM 1410	62				?	328
		IBM 1620	60	X			*	215
		IBM 360/50	66					
UNIVERSITY OF LOUISVILLE LOUISVILLE KENTUCKY	40208	IBM 1710	61				*	250
		IBM 704	66					
		IBM 1130	66					
		IBM 1401	67					
LA STATE UNIV AND A&M COL BATON ROUGE LOUISIANA	70803	IBM 1620	61	X			*	350
		IBM 7040	64	X			*	300
		IBM 1401	64	X			*	300
		IBM 360/50	67					
		IBM 360/67	68					
LA STATE UNIV AT NEW ORLEANS NEW ORLEANS LOUISIANA	70122	IBM 1620	64				*	250
UNIVERSITY OF MAINE ORONO MAINE	04473	IBM 1620	61	X			*	200
		IBM 1710	00					
		IBM 360/30	68					
UNIVERSITY OF MARYLAND COLLEGE PARK MARYLAND	20742	IBM 7094	63				*	622
		IBM 1401	63				*	622

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
MICHIGAN STATE UNIVERSITY EAST LANSING MICHIGAN 48824	CDC 160	62			*		175
	IBM 1620	60			*		100
	IBM 1620	65			*		320
	IBM 1620	65	X	*			295
	IBM 1401	64	X	*			622
	PDP 5	65			*		180
	IBM 360/30	66					
	IBM 360/44	66					
	CDC 3600	63		*			575
	IBM 1500	67			*		
	IBM 1800	67	X				
WAYNE STATE UNIVERSITY DETROIT MICHIGAN 48202	IBM 7074	62	X	*			500
	IBM 1401	62	X	*			520
	IBM 1401	63	X	*			200
	IBM 1460	65	X	*			200
	IBM 1620	63		*			300
	CDC LGP 30	60					100
	IBM 360/40	67			*		
	IBM 360/67	67					
	IBM 360/50	68					
UNIVERSITY OF MINNESOTA MINNEAPOLIS MINNESOTA 55455	IBM 1401	63	X	*			150
	UNI SS80	61			*		400
	IBM 1620	62				*	125
	CDC 1604	62			*		
	CDC 160	62			*		
	IBM 1620	65				*	650
	IBM 360/30	66					
	CDC 6600	66					
	CDC 1700	66					
	CDC 3100	66					
MISSISSIPPI STATE UNIVERSITY STATE COLLEGE MISSISSIPPI 39782	IBM 1620	61	X	*			340
	IBM 1620II	64	X	*			560

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
UNIVERSITY OF MISSISSIPPI UNIVERSITY MISSISSIPPI 38677	IBM 360/40	66				*	400
	IBM 1620	59					
	IBM 360/44	67					
UNIV OF MISSOURI AT COLUMBIA COLUMBIA MISSOURI 65201	IBM 1620	62	X	*			188
	IBM 1710	64		*			349
	IBM 1620	63	X	*			200
	IBM 1620II	65	X	*			250
	IBM 7040	65					
	IBM 360/40	66					
UNIV OF MISSOURI AT ROLLA ROLLA MISSOURI 65401	IBM 1620	62	X			*	
	IBM 1620II	64	X	*			
	IBM 360/40	66					
	IBM 360/50	67					
MONTANA STATE UNIVERSITY BOZEMAN MONTANA 59715	IBM 1620II	64		*			246
UNIVERSITY OF MONTANA MISSOULA MONTANA 59801	IBM 1620	63			*		100
UNIVERSITY OF NEBRASKA LINCOLN NEBRASKA 68503	IBM 1410	63	X	*			500
	IBM 1620	60			*		200
	IBM 1620	63		*			300
	IBM 1620	63				*	300
	IBM 7040	65					
	IBM 360/50	66					
	IBM 360/65	67					
UNIVERSITY OF NEVADA RENO NEVADA 89502	IBM 1620II	64		*			220
UNIVERSITY OF NEW HAMPSHIRE DURHAM, NEW HAMPSHIRE 03824	IBM 1620	60				*	260
	IBM 360/40	66					

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CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	ROTH	1964-65 AVG.USE HRS/MO
NEW MEXICO STATE UNIVERSITY UNIVERSITY PARK NEW MEXICO 88070	IBM 1620	63	X	*			
	CDC 3300	65					
	IBM 1130	67					
NEW MEXICO STATE UNIVERSITY UNIVERSITY PARK NEW MEXICO 88070	BUR 220	60		*			200
	IBM 1401	64		*			120
UNIVERSITY OF NEW MEXICO ALBUQUERQUE NEW MEXICO 87106	IBM 1620	63			*		200
	IBM 1401	63	X		*		200
	CDC 8090	64			*		150
	IBM 360/40	66					
	IBM 360/67	68					
UNIVERSITY OF NEW MEXICO ALBUQUERQUE NEW MEXICO 87106	IBM 1401	63			*		200
SUNY STATE UNIV AT BUFFALO BUFFALO NEW YORK 14214	IBM 7044	64	X	*			200
	IBM 1401	64	X	*			200
	IBM 1620	61					300
	IBM 1620	62		*			300
	IBM 360/40	66					
	IBM 360/67	67					
UNIV OF N C AT CHAPEL HILL CHAPEL HILL NORTH CAROLINA 27514	UNI 1105	59	X		*		257
	IBM 360/30	66					
	TUC 1/3	66					
N C STATE UNIV AT RALEIGH RALEIGH NORTH CAROLINA 27607	IBM 1410	62	X	*			700
	IBM 1620	62	X	*			500
	IBM 1620	64	X	*			500
	IBM 1620	62	X	*			250
	TUC 1/3	66					
	IBM 360/30	66					
NORTH DAKOTA STATE UNIVERSITY	IBM 1620	60				*	294

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CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
FARGO NORTH DAKOTA 58102							
THE UNIV OF NORTH DAKOTA GRAND FORKS NORTH DAKOTA 58201	IBM 1620	61	X	*			170
	IBM 360/30	66					
BOWLING GREEN STATE UNIVERSITY BOWLING GREEN OHIO 43402	IBM 1620	62			*		300
KENT STATE UNIVERSITY KENT OHIO 44240	IBM 1620	63		*			350
	HON 2200	65					
OHIO STATE UNIVERSITY COLUMBUS OHIO 43210	IBM 7094	63	X	*			159
	IBM 360/67	68					
OHIO UNIVERSITY ATHENS OHIO 45701	CDC LGP 30	55					
	IBM 1620	63	X	*	*		20
	IBM 360/40	66					
	IBM 360/44	67					
	IBM 360/20	67					600
	IBM 360/65	68					
UNIVERSITY OF AKRON AKRON OHIO 44304	IBM 1620	61		*			250
	BUR 205	64	X	*			
	IBM 360/40	67					
	IBM 1401	67					
UNIVERSITY OF CINCINNATI CINCINNATI OHIO 45221	IBM 1620	61			*		450
	IBM 360/40	67					
UNIVERSITY OF CINCINNATI CINCINNATI OHIO 45221	IBM 7040	63			*		200
	IBM 1401	63			*		200
	IBM 360/40	67					
UNIVERSITY OF TOLEDO TOLEDO OHIO 43606	IBM 1620	62			*		289

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CTL 1   TYPE 1   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
OKLA STATE UNIVERSITY STILLWATER OKLAHOMA	74074	IBM 1410	64	X	*			288
		IBM 1620	63			*		450
		IBM 7040	65			*		
UNIVERSITY OF OKLAHOMA NORMAN OKLAHOMA	73069	IBM 1410	62	X	*			492
		IBM 1620	62		*			300
		IBM 360/40	67					
		IBM 360/65	68					
OREGON STATE UNIVERSITY CORVALLIS OREGON	97331	ALM III-E	57					200
		IBM 1620	61				*	200
		IBM 1410	64	X	*			100
		CDC 3300	66					
		PDP 8	00					
UNIVERSITY OF OREGON EUGENE, OREGON	97403	IBM 1620	60			*		
		IBM 360/50	66					
		PDP 7	66					
PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK PA	16802	IBM 7074	61	X		*		720
		IBM 7074	62	X	*			240
		IBM 1401	62	X		*		650
		IBM 1410	64	X	*			650
		IBM 1620	63	X	*			80
		IBM 1620	62		*			150
		IBM 360/67	68					
		IBM 360/50	66					
UNIVERSITY OF RHODE ISLAND KINGSTON RHODE ISLAND	02881	IBM 1410	64		*			253
		IBM 360/40	66					
		IBM 360/50	68					
CLEMSON UNIVERSITY CLEMSON SOUTH CAROLINA	29631	CDC RP4000	61			*		400
		IBM 360/30	66					
UNIV OF SOUTH CAROLINA		IBM 1401	64		*			

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INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
COLUMBIA SOUTH CAROLINA 29208	IBM 1620	61		*			
	IBM 7040	65				*	
SOUTH DAKOTA STATE UNIVERSITY BROOKINGS SOUTH DAKOTA 57006	IBM 1620	61		*			100
UNIVERSITY OF SOUTH DAKOTA VERMILLION SOUTH DAKOTA 57069	IBM 1620	63				*	270
UNIVERSITY OF TENNESSEE KNOXVILLE TENNESSEE 37916	IBM 1620II	64		*			595
	IBM 7040	65		*			348
	IBM 1401	63		*			500
TEXAS A & M UNIVERSITY COLLEGE STATION TEXAS 77840	IBM 7094	65	X		*		236
	IBM 1401	65	X	*			236
	IBM 1401	63	X	*			236
	IBM 1401	63	X	*			236
	IBM 360/65	68					
NORTH TEXAS STATE UNIVERSITY DENTON TEXAS 76203	IBM 1620	62				*	120
TEXAS TECHNOLOGICAL COLLEGE LUBBOCK TEXAS 79409	IBM 1620	62				*	250
	IBM 1620II	64	X	*			150
	IBM 7040	65					
	IBM 1401	65					
UNIVERSITY OF HOUSTON HOUSTON TEXAS 77004	IBM 1401	00		*		*	360
UTAH STATE UNIVERSITY LOGAN UTAH 84321	IBM 1620	61			*		300
	IBM 1401	64		*			175
UNIVERSITY OF VIRGINIA CHARLOTTESVILLE VIRGINIA 22903	BUR 5500	64			*		50

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CTL 1   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
VIRGINIA POLYTECHNIC INST BLACKSBURG VIRGINIA 24061	IBM 1620	62		*			510
	IBM 1620	62		*			360
	IBM 1401	62		*			30
	IBM 7040	64		*			100
	IBM 1401	64		*			120
UNIVERSITY OF WASHINGTON SEATTLE WASHINGTON 98105	IBM 7040	64		*			250
	IBM 7094	64		*			250
	IBM 1401	63		*			100
WASHINGTON STATE UNIVERSITY PULLMAN WASHINGTON 99163	IBM 709	61	X		*		350
	IBM 1401	63	X	*			150
	IBM 360/67	66					
WEST VIRGINIA UNIVERSITY MORGANTOWN WEST VIRGINIA 26506	IBM 1620	62		*	*		215
	IBM 1401	63		*	*		44
	IBM 7040	64		*	*		128
UNIVERSITY OF WISCONSIN MADISON, WISCONSIN 53706	CDC 1604	61			*		
	CDC 160	61			*		
	IBM 1460	64		*			
	CDC 3600	64			*		
	CDC 924	64			*		
	BUR 5500	67					
UNIVERSITY OF WYOMING LARAMIE WYOMING 82070	PHI 211	64			*		

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CTL 1   TYPE 2   LEVEL 2

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
SOUTHERN COLORADO STATE COL PUEBLO COLORADO 81005	IBM 1620	63				*	150
OKLAHOMA COLLEGE OF LIB ARTS CHICKASHA OKLAHOMA 73018	IBM 1130	67	.				
ANGELO STATE COLLEGE SAN ANGELO TEXAS 76901	IBM 1620	63		*			160
WEBER STATE COLLEGE OGDEN UTAH 84403	IBM 1401	63		*			100
W VIRGINIA INST OF TECHNOLOGY MONTGOMERY WEST VIRGINIA 25136	IBM 1130	66					

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CTL 1   TYPE 2   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
SAN FRANCISCO STATE COL SAN FRANCISCO CALIFORNIA 94132	IBM 1620	63		*			400
FLORIDA ATLANTIC UNIVERSITY BOCA RATON FLORIDA 33432	IBM 1460 IBM 360/40	64 67	X	* *			300
NTHEST LOUISIANA ST COL MONROE LOUISIANA 71201	IBM 1620 IBM 1130 IBM 1401	63 66 67	X	*			10
STHESTRN LOUISIANA COL HAMMOND LOUISIANA 70402	IBM 1620	65		*			160
UNIVERSITY SOUTHWESTERN LA. LAFAYETTE, LOUISIANA 70501 MORGAN STATE COLLEGE BALTIMORE MARYLAND 21212	IBM 1620 RCA 70/45 IBM 1620 HON 1200	61 67 65 67	X	*			450
CENTRAL MICHIGAN UNIVERSITY MOUNT PLEASANT MICHIGAN 48858	IBM 1620 IBM 1401	63 67	X	*			100
EASTERN MICHIGAN UNIVERSITY YPSILANTI, MICHIGAN 48197	IBM 1620 IBM 360/30	64 68	X	* *			140
WESTERN MICHIGAN UNIVERSITY KALAMAZOO MICHIGAN 49001	IBM 1620 IBM 360/50	62 68	X			*	
CUNY BROOKLYN COLLEGE BROOKLYN NEW YORK 11210	IBM 1620 IBM 1620II IBM 360/40	60 64 68	X	* *			150 160
WINTHROP COLLEGE ROCK HILL SOUTH CAROLINA 29730	IBM 1620	64		*			85
SAM HOUSTON STATE COLLEGE HUNTSVILLE TEXAS 77340	IBM 1620	63		*			179

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CTL 1   TYPE 2   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
TEXAS COL ARTS INDUSTRIES KINGSVILLE TEXAS 78363	IBM 1620	61					
	IBM 360/40	68				*	200
OLD DOMINION COLLEGE NORFOLK VIRGINIA 23508	IBM 1620	64			*		105

CTL 1   TYPE 2   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
GEORGIA STATE COLLEGE ATLANTA GEORGIA 30303	IBM 7040	65		*			100
	IBM 1620	62	X	*			375
UNIV. OF SOUTHERN MISSISSIPPI HATTIESBURG, MISSISSIPPI 39401	IBM 1620	64		*			80
SUNY STATE UNIV BINGHAMTN BINGHAMTON NEW YORK 13901	IBM 1460	66		*			190
	IBM 1130	66		*			120
SUNY AT ALBANY ALBANY NEW YORK 12203	CDC 3100	66		*			250
	IBM 1620	66	X		*		100
	MON XI	66	X		*		100
	CDC 3300	67		*			100
NORTH CAROLINA COLLEGE DURHAM, NORTH CAROLINA 27707	IBM 1620	62			*		160
COLLEGE OF WILLIAM & MARY WILLIAMSBURG VIRGINIA 23185	IBM 1620	64	X	*			300
	IBM 360/50	67					

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INSTITUTION	CTL 1	TYPE 2	LEVEL 5				1964-65
	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	AVG.USE HRS/MO

PORTLAND STATE COLLEGE
PORTLAND OREGON   97207   IBM 1620   63   *   350

CTL 1   TYPE 4   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
ILL TCHRS COL CHICAGO SOUTH CHICAGO ILLINOIS 60621	IBM 1401	67					
EASTERN KENTUCKY UNIVERSITY RICHMOND, KENTUCKY 40476	HON 200	66					
MOREHEAD STATE COLLEGE MOREHEAD KENTUCKY 40351	HON 200	66					
ST CLOUD STATE COLLEGE ST CLOUD MINNESOTA 56301	IBM 1620	64			*		100
WINONA STATE COLLEGE	IBM 1401	67					
WINONA MINNESOTA 55987	IBM 1130	67					
JACKSON STATE COLLEGE JACKSON MISSISSIPPI 39217	IBM 1620	61	X	*			
	IBM 1130	67					150
CENTRAL MISSOURI ST COLLEGE WARRENSBURG MISSOURI 64013	IBM 1620	62				*	100
NORTHEAST MISSOURI S T C	IBM 1440	65		*			80
KIRKSVILLE MISSOURI 63501	IBM 1440	66					
KEARNEY STATE COLLEGE KEARNEY NEBRASKA 68847	IBM 1130	66					
TRENTON STATE COLLEGE TRENTON NEW JERSEY 08625	IBM 1130	67					
NEW MEXICO HIGHLANDS UNIV LAS VEGAS NEW MEXICO 87701	IBM 1620	60				*	170
SUNY COLLEGE NEW PALTZ	IBM 1401	68					
NEW PALTZ NEW YORK 12561	IBM 360/50	69					
APPALACHIAN STATE TCHRS COL. BOONE NORTH CAROLINA 28607	IBM 1620	63		*			120
WESTERN CAROLINA COLLEGE CULLOWHEE, NORTH CAROLINA 28723	IBM 1620	63	X	*			240
	IBM 1401	67					
SHIPPENSBURG STATE COLLEGE	IBM 1620	63		*			300

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CTL 1   TYPE 4   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
SHIPPENSBURG PENNSYLVANIA 17257							
WEST CHESTER STATE COLLEGE WEST CHESTER PENNSYLVANIA 19380	IBM 1620	64	*				100

CTL 1   TYPE 4   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
ILLINOIS STATE UNIVERSITY NORMAL ILLINOIS 61761	IBM 1620 IBM 1401	63 67	*				100
BALL STATE UNIVERSITY MUNCIE INDIANA 47306	IBM 1620 IBM 360/40	63 68	*		X		120
INDIANA STATE UNIVERSITY TERRE HAUTE INDIANA 47809	IBM 1620 IBM 360/30	63 67	*		X		300
EAST TEXAS STATE UNIV COMMERCE TEXAS 75429	IBM 1620 IBM 1401	63 66	*		X		200

CTL 1   TYPE 5   LEVEL 2

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
SUNY MARITIME COLLEGE NEW YORK NEW YORK 10465	CDC LGP 30	00				*	
	IBM 1130	67					
	IBM 1620	66					
CITADEL MILITARY COL OF S C CHARLESTON SOUTH CAROLINA 29409	IBM 1620	64		*			150
VIRGINIA MILITARY INSTITUTE LEXINGTON VIRGINIA 24450	IBM 1620	63				*	176

CTL 1   TYPE 5   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
CALIFORNIA STATE POLY COL S LUIS OBISPO CALIFORNIA 93401	IBM 1620	63		*			150
	CDC G-15	60			*		81
CAL ST POLY KELLO VOHRS POMONA CALIFORNIA 91766	IBM 1620	63		*			80
SOUTHEASTERN MASS TECH INST N DARTMOUTH MASSACHUSETTS 02747	BUR 205	59			*		100
	MIT	66					
MONTANA COL MINERAL SCI & TECH BUTTE MONTANA 59701	IBM 1620	64			*		140
S DAK SCH MINES & TECH RAPID CITY SOUTH DAKOTA 57701	IBM 1620	61				*	
UNIV OF TEXAS AT EL PASO EL PASO TEXAS 78712	CDC G-15	60	X				200
	CDC 3100	67				*	

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CTL 1   TYPE 5   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
COLORADO SCHOOL OF MINES	CDC LGP 30	60			*		40
GOLDEN COLORADO 80401	CDC 8090	64		*			200
GEORGIA INSTITUTE OF TECH	BUR 220	58	X		*		150
ATLANTA GEORGIA 30332	BUR 5500	64			*		300
	BUR 5500TS	66					
	UNI 1108II	67					
LOWELL TECHNOLOGICAL INST	IBM 1620	62			*		180
LOWELL MASSACHUSETTS 01854							
NEWARK COL OF ENGINEERING	IBM 1620	61					
NEWARK NEW JERSEY 07102	IBM 1620II	65		*			
NEW MEXICO INST MINING & TECH	IBM 360/40	66					
SOCORRO NEW MEXICO 87801	IBM 360/44	66				*	
SUNY STATE U STONY BRK	IBM 7040	64	X	*			260
STONY BROOK NEW YORK 11790	IBM 1401	64	X	*			260
	IBM 360/30	67					
	IBM 1500	67					
	IBM 360/30	67					

CTL 1   TYPE 7   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
RICHMOND PROF. INSTITUTE	IBM 1620	65	X		*		75
RICHMOND, VIRGINIA 23220	HON 200	67					

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CTL 1   TYPE 7   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
MEDICAL COLLEGE OF GEORGIA AUGUSTA GEORGIA	30902	IBM 1620	64	X	*			150
		IBM 360/30	66					
SUNY COLLEGE OF FORESTRY SYRACUSE NEW YORK	13210	IBM 1620II	64		*			300
SUNY DOWNSTATE MED CTR BROOKLYN NEW YORK	11203	IBM 1620II	63		*			176
		IBM 1410	65		*			176
		IBM 1440	65		*			176
SUNY UPSTATE MEDICAL CENTER SYRACUSE, NEW YORK	13210	IBM 1620	63		*			368
		IBM 360/40	68					
		CDC 160A	67					
MEDICAL COL OF VIRGINIA RICHMOND VIRGINIA	23219	CDC RP4000	61			*		172
		IBM 1130	67					

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CTL. 1   TYPE 8   LEVEL 1

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
GADSDEN TECH STATE JR COL							
GADSDEN ALABAMA 35904	IBM 1130	66					
CHAFFEY COLLEGE							
ALTA LOMA CALIFORNIA 91701	IBM 1401	67					
COLLEGE OF SAN MATEO							
SAN MATEO CALIFORNIA 94402	IBM 1620	63			*		200
EAST LOS ANGELES COLLEGE							
LOS ANGELES, CALIFORNIA 90022	IBM 1620	61			*		70
EL CAMINO COLLEGE							
EL CAMINO COL CALIFORNIA 90506	IBM 1620	64		*			
FULLERTON JR. COLLEGE							
FULLERTON, CALIFORNIA 92632	IBM 1620	62		*	*		200
LOS ANGELES HARBOR COLLEGE							
WILMINGTON CALIFORNIA 90744	IBM 1620	63			*		140
	IBM 360/30	66					
VICTOR VALLEY COLLEGE	IBM 1440	66					
VICTORVILLE, CALIFORNIA 92392	IBM 1401	66					
LAMAR JR COLLEGE							
LAMAR COLORADO 81052							
MESA COUNTY JR COLLEGE							
GRAND JUNCTION COLORADO 81501	IBM 1620	63	x	*			150
ELGIN COMMUNITY COLLEGE	IBM 1401	67					
ELGIN ILLINOIS 60120	IBM 1401	67					
KANSAS CITY KANSAS JUNIOR COL							
KANSAS CITY KANSAS 66101	IBM 1401	65	x	*			
	IBM 360/20	66					
BALTIMORE JUNIOR COLLEGE							
BALTIMORE MARYLAND 21215	IBM 1620	66				*	75
GRAND RAPIDS JUNIOR COLLEGE GR	IBM 1620	64			*		90

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CTL 1   TYPE 8   LEVEL 1

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
GRAND RAPIDS MICHIGAN 49502							
ITAWAMBA JR. COLLEGE VOC.TECH.							
TUPELO, MISSISSIPI 38843	IBM 360/20	67					
NTHWST MISSISSIPPI JR COLLEGE							
SENATOBIA MISSISSIPPI 38668	IBM 1620	66					
	IBM 360/20	67					
MISSOURI SOUTHERN COLLEGE	IBM 1130	67					
JOPLIN MISSOURI 64801							
AUBURN COMMUNITY COLLEGE	IBM 1440	66					
AUBURN NEW YORK 13021	IBM 1401	66					
BROOME TECH COMMUNITY COLLEGE	IBM 1620	63	X	*			175
BINGHAMTON NEW YORK 13902	IBM 1130	67					
CUYAHOGA COMMUNITY COLLEGE	IBM 1401	66					
CLEVELAND OHIO 44115	HON 1200	6?					
LORAIN CO CMTY COLLEGE	IBM 1440	65				*	
LORAIN OHIO 44052							
ODESSA COLLEGE	IBM 360/20	67					
ODESSA TEXAS 79760							
WHARTON COUNTY JUNIOR COLLEGE	IBM 1620	63	X	*			160
WHARTON TEXAS 77488	IBM 1401	67					
CENTRALIA COLLEGE	IBM 1620	62		*			175
CENTRALIA WASHINGTON 98531	IBM 360/30	69					
COLUMBIA BASIN COLLEGE	IBM 1620	62		*			160
PASCO WASHINGTON 99301							

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CTL 1   TYPE 9   LEVEL 1

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
THAMES VLY ST TECH INST NORWICH CONNECTICUT 06360	IBM 1620	63			*		200
UNION COUNTY TECH INST MOUNTAINSIDE NEW JERSEY 07092	IBM 1620	62			*		130
WESTCHESTER COMMUNITY COLLEGE VALHALLA NEW YORK 10595	BUR 204	64			*		64

CTL 2   TYPE 1   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
BRADLEY UNIVERSITY PEORIA ILLINOIS 61606	IBM 1620	63	*		*		500
DEPAUL UNIVERSITY CHICAGO ILLINOIS 60604	IBM 1401	65	*		*		85
DRAKE UNIVERSITY DES MOINES, IOWA 50311	CDC LGP 30 UNI SS80	64 67			*		80
LOYOLA UNIVERSITY NEW ORLEANS LOUISIANA 70118	IBM 1620	63			*		60
CREIGHTON UNIVERSITY OMAHA NEBRASKA 68131	IBM 1130	66					
SETON HALL UNIVERSITY SOUTH ORANGE NEW JERSEY 07079	IBM 1620	63			*		100
PRATT INSTITUTE BROOKLYN NEW YORK 11205	IBM 1620	61	*				100
VILLANOVA UNIVERSITY VILLANOVA PENNSYLVANIA 19085	IBM 1620 IBM 1130	60 66				*	250

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
STANFORD UNIVERSITY STANFORD, CALIFORNIA 94305	IBM 7090	62	X		*		339
	IBM 1401	62	X		*		339
	BUR 5500	64	X		*		401
	IBM 1401	63	X	*			200
	PDP 1	63			*		320
	PDP LINC	65			*		200
	PDP LINC	65			*		300
	PDP 8	65			*		200
	IBM 1620	62					58
	IBM 1620	62		*			120
	IBM 1620	63				*	650
	PDP 7	65				*	500
	IBM 360/67	67					
	IBM 1800	66					
	PDP 8	66					
STANFORD LINEAR ACC. CENTER STANFORD, CALIFORNIA 94305	IBM 360/50	66					
	SDS 925	65					
	IBM 360/75	67					
	SDS 9300	65					
	ASI 6020	67					
UNIV OF SOUTHERN CALIFORNIA LOS ANGELE CALIFORNIA 900.7	HON 800	61			*		250
	HON 400	63			*		150
	HON 200	65			*		
UNIV OF SOUTHERN CALIFORNIA LOS ANGELE CALIFORNIA 90007	IBM 1620	64	X		*		400
	REK 420	65			*		
	IBM 360/44	67					
UNIV OF SOUTHERN CALIFORNIA LOS ANGELE CALIFORNIA 90007	CDC LGP 30	60			*		80
	IBM 1401	62		*			210
UNIVERSITY OF DENVER DENVER COLORADO 80210	BUR 205	58	X		*		330
	BUR 5500	64			*		63
	BUR 5500TS	66					

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
YALE UNIVERSITY NEW HAVEN CONNECTICUT	06520	IBM 1401	61	X	*			150
		IBM 7094	64	X			*	190
		IBM 7040	64	X			*	190
		IBM 360/30	67					
		IBM 360/67	68					
		IBM 360/20	68					
AMERICAN UNIVERSITY WASHINGTON D C	20016	CDC LGP 30	60		*			14
		IBM 1401	63		*			
GEORGETOWN UNIVERSITY WASHINGTON D C	20007	IBM 1620II	64	X	*			300
		IBM 360/40	67		*			
GEORGE WASHINGTON UNIVERSITY WASHINGTON D C	20006	IBM 7080	62		*			450
		IBM 1620	61	X	*			100
		IBM 1401	61	X	*			350
		CDC 160A	62		*			70
		IBM 1620II	64	X	*			135
		IBM 1401	63	X	*			236
		RCA FLACII	59			*		10
		IBM 360/30	65		*			
		IBM 360/40	66					
		SDS 910	66					
		GEC 425	66					
		CDC 8090	66					
HOWARD UNIVERSITY WASHINGTON D C	20001	IBM 1620	62				*	
		IBM 1130	66					
		IBM 360/30	66					
UNIVERSITY OF MIAMI CURAL GABLES FLORIDA	33124	IBM 1620	61	X	*			63
		IBM 1401	65	X	*			128
		IBM 7040	65	X	*			158
		IBM 1401	63	X	*			68
		IBM 1620	63	X	*			
		IBM 1401	64		*			120

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
	IBM 360/50	67					
EMORY UNIVERSITY ATLANTA GEORGIA 30322	IBM 1410	65	X	*			175
	CDC RP4000	64			*		175
	IBM 1620	64			*		200
	IBM 1620	65			*		105
	CDC LGP 30	60			*		150
	IBM 360/40	67					
NORTHWESTERN UNIVERSITY EVANSTON, ILLINOIS 60201	CDC 3400	64		*			273
	IBM 709	61			*		276
UNIVERSITY OF CHICAGO CHICAGO, ILLINOIS 60637	IBM 7094	63		*			471
	IBM 7040	64		*			471
	MAN IACIII	61			*		103
	IBM 1620	61		*			198
	IBM 1401	63	X	*			175
	UNI 1004	64	X	*			103
	ASI 6020	65	X				720
	ASI 6040	66					
	PDP 8	66				*	
	IBM 360/30	66					
	PDP 8	66					
UNIVERSITY OF NOTRE DAME NOTRE DAME, INDIANA 46556	UNI 1107	63			*		300
TULANE UNIV OF LOUISIANA NEW ORLEANS LOUISIANA 70112	IBM 7044	65				*	220
	IBM 1410	62				*	280
	IBM 1410	63		*			220
	IBM 1401	62		*			165
JOHNS HOPKINS UNIVERSITY BALTIMORE MARYLAND 21218	IBM 1401	63		*			250
	IBM 7094	61	X	*			60
	IBM 7094	66					

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
BOSTON UNIVERSITY BOSTON MASSACHUSETTS	02215	IBM 1620II	64	X	*			125
		IBM 360/40	67		*			
BRANDEIS UNIVERSITY WALTHAM, MASSACHUSETTS	02154	IBM 1620	63		*			100
HARVARD UNIVERSITY CAMBRIDGE MASSACHUSETTS	02138	IBM 7094	62		*			330
		IBM 1401	62		*			330
		IBM 1401	62		*			330
		IBM 1401	63		*			330
		IBM 7094	66					
		IBM 360/50	66					
		SDS 940	66					
		IBM 1401	66					
MASS INST OF TECHNOLOGY CAMBRIDGE MASSACHUSETTS	02139	PDP 1	57				*	300
		MIT TX0	57				*	300
		IBM 1620	61		*			350
		IBM 1620	62	X	*			350
		IBM 1620	63		*			350
		IBM 7094	63	X	*			400
		IBM 1401	63	X	*			400
		IBM 7094	63	X	*			500
		IBM 7044	64		*			400
		IBM 7040	64	X	*			350
		PDP 7	63		*			500
		IBM 1401	64		*			400
		IBM 360/65	66					
		GEC 645	66					
		IBM 360/40	65					
		IBM 360/67	67					
NORTHEASTERN UNIVERSITY BOSTON MASSACHUSETTS	02115	IBM 1620	63	X	*			180
		CDC 3300	67					
TUFTS UNIVERSITY		IBM 1620	62				*	260

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
MEDFORD MASSACHUSETTS 02155							
UNIVERSITY OF DETROIT DETROIT MICHIGAN 48221	IBM 1410	64	X	*	*		176
ST LOUIS UNIVERSITY ST LOUIS MISSOURI 63103	IBM 1620	61			*		650
	IBM 360/50	67			*		
WASHINGTON UNIVERSITY ST LOUIS MISSOURI 63130	IBM 7072	62			*		300
	IBM 1401	62			*		300
	IBM 1401	64		*			300
	IBM 1710	63		*			352
	PDP 5	65				*	176
	IBM 360/50	66					
PRINCETON UNIVERSITY PRINCETON NEW JERSEY 08540	CDC 1604	60			*		85
	IBM 1620	62	X	*			540
	IBM 1620	62		*			310
	IBM 7094	62			*		600
	IBM 1410	62			*		250
	IBM 7044	66					
	IBM 360/50	66					
ADELPHI UNIVERSITY GARDEN CITY NEW YORK 11530	REC OMPIII	62			*		170
	CDC 3300	67					
COLUMBIA UNIV ALL CAMPUSES NEW YORK NEW YORK 10027	IBM 7094	63			*		400
	IBM 7040	65	X	*			400
	IBM 1410	64	X				300
	IBM 1401	63			*		500
	GEC 235	64	X	*			250
	BUR 220	62			*		200
	IBM 1620II	63	X	*			200
	IBM 1620II	63	X	*			400
	IBM 1401	64	X	*			200
	PDP 4	64			*		200

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
CORNELL UNIVERSITY ITHACA NEW YORK 14850	IBM 360/50	67					500
	IBM 360/75	67					500
	IBM 360/91	69					
	IBM 360/44	67					
	CDC 1604	62	X		*		
	CDC 160A	62	X		*		
	IBM 360/67	67					
	IBM 360/40	66					
FORDHAM UNIVERSITY NEW YORK NEW YORK 10458	IBM 1620II	65	X	*			200
	IBM 360/40	67					
NEW YORK UNIVERSITY NEW YORK NEW YORK 10003	CDC 6600	65				*	325
	CDC 1604	61	X	*			220
	IBM 360/30	65		*			600
	IBM 1620	65	X	*			540
	CDC 160A	65			*		176
	PDP 5	64			*		120
	PDP 7	65			*		120
	IBM 360/30	66					
	SDS 930	66					
RENSSELAER POLY INSTITUTE TROY NEW YORK 12181	IBM 1410	62	X	*			200
	IBM 650	64			*		175
	IBM 360/50	66					
UNIVERSITY OF ROCHESTER ROCHESTER NEW YORK 14627	IBM 7074	61				*	150
	IBM 1401	63				*	150
	IBM 1620	62		*			280
	IBM 360/50	67					
	IBM 360/65	68					
NYS COLLEGE OF AGR AT CORNELL ITHACA NEW YORK 14850	IBM 1410	62	X	*			440
	IBM 1401	63	X	*			266
	IBM 360/40	66					

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CTL 2 TYPE 1 LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
SUNY IND LABR REL CORNL ITHACA NEW YORK	14850	COR	00					
DUKE UNIVERSITY DURHAM NORTH CAROLINA	27706	IBM 7072	62	X		*		360
		IBM 1401	62	X		*		360
		IBM 360/30	66					
		TUC 1/3	66					
WAKE FOREST COLLEGE WINSTON-SALEM N CAROLINA	27106	IBM 1620	63				*	190
WESTERN RESERVE UNIVERSITY CLEVELAND, OHIO	44106	GEC 225	61			*		200
		IBM 1710	63			*		159
THE UNIVERSITY OF TULSA TULSA OKLAHOMA	74104	IBM 1620	63				*	175
UNIVERSITY OF PORTLAND PORTLAND OREGON	97203	BUR 205	64	X		*		12
		HON 1200	67			*		
CARNEGIE INST TECHNOLOGY PITTSBURGH PENNSYLVANIA	15212	CDC G-15	58			*		
		CDC G-20	61	X		*		
		CDC G-21	63			*		
		IBM 1401	63		*		*	600
		IBM 7040	63		*		*	500
		CDC G-20	64					525
		RCA 301	65		%			
		UNI 1004	66		*		*	
		IBM 360/67	66					
DUQUESNE UNIVERSITY PITTSBURGH PENNSYLVANIA	15219	IBM 1620	63	X		*		
		CDC G-20	66					
TEMPLE UNIVERSITY PHILADELPHIA, PA.	19122	IBM 1620	00	X		*		350
		IBM 1460	00	X		*		450

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
UNIVERSITY OF PENNSYLVANIA PHILADELPHIA PENNSYLVANIA 19104	CDC 6400	67					
	LIN C8	67				*	600
UNIVERSITY OF PITTSBURGH PITTSBURGH, PENNSYLVANIA 15213	IBM 7090	64				*	420
	IBM 1401	64				*	420
	IBM 7070	61				*	167
	IBM 1401	61				*	167
	PDP 4	65			*		167
	IBM 360/50	66					
UNIVERSITY OF PITTSBURGH PITTSBURGH, PENNSYLVANIA 15213	IBM 1620	62		*			300
UNIVERSITY OF PITTSBURGH PITTSBURGH, PENNSYLVANIA 15213	IBM 1410	62		*			552
	IBM 360/40	67					
	CDC 8092	66					
VANDERBILT UNIVERSITY NASHVILLE TENNESSEE 37203	IBM 7072	63			*		70
	IBM 1401	63			*		100
BAYLOR UNIVERSITY WACO TEXAS 76706	IBM 1620	63			*		180
RICE UNIVERSITY HOUSTON TEXAS 77001	IBM 7040	65	X	*			200
	IBM 1620	61			*		250
	IBM 1401	63	X				450
	RIC E	61			*		350
	IBM 1800	66					
	IBM 360/50	68					
SOUTHERN METHODIST UNIVERSITY DALLAS TEXAS 75222	CDC 3400	65		*			11
	UNI 1004	65		*			10
	CDC 1604	00		*			240

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CTL 2   TYPE 1   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
	IBM 1130	67					
	SDS 925	66					
TEXAS CHRISTIAN UNIVERSITY	IBM 1620	61				*	150
FORT WORTH TEXAS 76129	IBM 1401	64				*	120
	IBM 360/65	68					
	IBM 1800	67					
	IBM 360/20	67					
	IBM 1500	67					
MARQUETTE UNIVERSITY	IBM 1620	61		*			478
MILWAUKEE WISCONSIN 53233	IBM 7040	65				*	243

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CTL 2   TYPE 2   LEVEL 2

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
BIRMINGHAM SOUTHERN COLLEGE BIRMINGHAM ALABAMA 35204	BUR 205	64			*		172
HARVEY MUDD COLLEGE CLAREMONT CALIFORNIA 91711	IBM 1620	61			*		200
AUGUSTANA COLLEGE ROCK ISLAND ILLINOIS 61202	IBM 1130	66					
WABASH COLLEGE CRAWFORDSVILLE INDIANA 47933	IBM 1620	63			*		120
CENTRE COL OF KENTUCKY DANVILLE KENTUCKY 40422	TSH FS1440	00					
AUGSBURG COLLEGE MINNEAPOLIS MINNESOTA 55404	BUR 101E	00					
LINDENWOOD COLLEGE ST CHARLES MISSOURI 63301	MCD	0r.					
NEBRASKA WESLEYAN UNIVERSITY LINCOLN NEBRASKA 68504	IBM 1620	63			*		125
ST PETERS COLLEGE JERSEY CITY NEW JERSEY 07306	CDC LGP 30	00			*		
	IBM 1401	67					
	IBM 1620	67					
MOUNT UNION COLLEGE ALLIANCE OHIO 44601	IBM 360/44	68					
JUNIATA COLLEGE HUNTINGDON PENNSYLVANIA 16653	IBM 1620	64			*		400
LASALLE COLLEGE PHILADELPHIA, PENNSYLVANIA 19141	IBM 1620	64		*			100
WEST VIRGINIA WESLEYAN COLLEGE BUCKHANNON WEST VIRGINIA 26201	BUR 205	64			*		10

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CTL 2   TYPE 2   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
MOUNT ST MARYS COLLEGE LOS ANGELES CALIFORNIA 90049	WDP	00					
UNIVERSITY OF REDLANDS REDLANDS CALIFORNIA 90723	IBM 1130	67					
TRINITY COLLEGE HARTFORD CONNECTICUT 06106	PDP 8	66					
GALLAUDET COLLEGE WASHINGTON D C 20002	IBM 1620 IBM 360/30	62 67	X			*	150
WHEATON COLLEGE WHEATON ILLINOIS 60187	IBM 1620	63		*			30
VALPARAISO UNIVERSITY VALPARAISO INDIANA 46383	IBM 1620	61		*			30
AMHERST COLLEGE AMHERST MASSACHUSETTS 01002	IBM 1401 IBM 1130	67 66					
EMMANUEL COLLEGE BOSTON, MASSACHUSETTS 02115	MIT	00					1
ST JOHNS UNIVERSITY COLLEGEVILLE MINNESOTA 56321	IBM 1620	63			*		300
DRURY COLLEGE SPRINGFIELD MISSOURI 65802	CDC LGP 30	60			*		59
COLGATE UNIVERSITY HAMILTON NEW YORK 13346	IBM 1620	63				*	125
LONG ISLAND UNIVERSITY BROOKVILLE LONG ISLAND N Y 11548	IBM 1620 IBM 1620	60 64		* *			90 90
JOHN CARROLL UNIVERSITY CLEVELAND OHIO 44118	CDC LGP 30 GEC 215	61 66	X			*	200

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CTL 2   TYPE 2   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
OBERLIN COLLEGE OBERLIN, OHIO 44074	IBM 1620	64	X	*			50
	IBM 360/30	67					
UNIVERSITY OF DAYTON DAYTON OHIO 45409	NCR 304	61			*		300
	BUR 220	60			*		150
XAVIER UNIVERSITY CINCINNATI OHIO 45207	IBM 1620	65		*			180
LINFIELD COLLEGE MCMINNVILLE OREGON 97128	IBM 1620	66					
REED COLLEGE PORTLAND OREGON 97202	IBM 1620	65	X	*			300
	IBM 1130	66					
FRANKLIN & MARSHALL COLLEGE LANCASTER PENNSYLVANIA 17604	BUR 205	64	X			*	100
	IBM 1130	67					
ST FRANCIS COLLEGE LORETTO PENNSYLVANIA 15940	IBM 1130	67					
ST JOSEPHS COLLEGE PHILADELPHIA PENNSYLVANIA 19131	IBM 1620	64		*			72
AUGUSTANA COLLEGE SIOUX FALLS SOUTH DAKOTA 57102	IBM 1130	66					
UNIVERSITY OF CHATTANOOGA CHATTANOOGA TENNESSEE 37403	IBM 1620	63		*			176
ST MARYS UNIVERSITY SAN ANTONIO TEXAS 78228	IBM 1620	62			*		50
	IBM 1401	67					

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CTL 2   TYPE 2   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
OCCIDENTAL COLLEGE LOS ANGELES CALIFORNIA	90041	IBM 1620	64				*	200
UNIV OF SANTA CLARA SANTA CLARA CALIFORNIA	95053	IBM 1620 TSH SDS940	63 66		*			180
WESLEYAN UNIVERSITY MIDDLETOWN CONNECTICUT	06457	IBM 1620	61				*	156
ATLANTA UNIVERSITY CENTER ATLANTA, GEORGIA SMITH COLLEGE NORTHAMPTON MASSACHUSETTS	30314 01060	GEC 235TER IBM 1130 IBM 1130	66 67 67	X				25
DARTMOUTH COLLEGE HANOVER NEW HAMPSHIRE	03755	GEC 265 IBM 1620 GEC 625	64 00 66	X	*	*		
ALFRED UNIVERSITY ALFRED NEW YORK NEW SCH FOR SOC RESEARCH NEW YORK NEW YORK	14802 10011	IBM 1620 IBM 1130	63 67		*			330
ST BONAVENTURE UNIVERSITY ST BONAVENTURE NEW YORK	14778	IBM 1620	63			*		100
BRYN MAWR COLLEGE BRYN MAWR PENNSYLVANIA	19010	IBM 1620	61			*		88
LEHIGH UNIVERSITY BETHLEHEM PENNSYLVANIA	18015	GEC 225 IBM 1620 CDC LGP 30 IBM 1130 GEC DNET15	63 62 57 66 66	X		*	*	200 100 50
BROWN UNIVERSITY		IBM 7070	60	X			*	200

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 2   TYPE 2   LEVEL 4

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
PROVIDENCE RHODE ISLAND	02912	IBM 1401	62	X	*			200
		IBM 360/50	66					
PROVIDENCE COLLEGE	02908	IBM 1401	62		*			160
PROVIDENCE, RHODE ISLAND		IBM 1620	62		*			200
LAWRENCE UNIVERSITY	54911	IBM 1620	64	X	*			165
APPLETON WISCONSIN		IBM 360/40	68					

CTL 2   TYPE 4   LEVEL 3

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
CONCORDIA TEACHERS COLLEGE	60305	IBM 1401	64		*			120
RIVER FOREST ILLINOIS								

CTL 2   TYPE 5   LEVEL 2

INSTITUTION		COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
INDIANA INSTITUTE OF TECH	46803	IBM 1620	61		*			151
FORT WAYNE INDIANA								
TRI-STATE COLLEGE	46703	IBM 1620	63			*		250
ANGOLA INDIANA								

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ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 2   TYPE 5   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
ROSE POLYTECHNIC INSTITUTE TERRE HAUTE, INDIANA 47803	CDC G-15	60	X		*		300
	IBM 1130	66					
ROCHESTER INST TECHNOLOGY ROCHESTER NEW YORK 14608	IBM 1620	63				*	170
INST TEXTILE TECHNOLOGY CHARLOTTESVILLE VIRGINIA 22901	IBM 1620	64	X	*			80
	IBM 1130	66					

CTL 2   TYPE 5   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
ILLINOIS INST OF TECH CHICAGO ILLINOIS 60616	IBM 7040	64		*			300
WORCESTER POLY INSTITUTE WORCESTER MASSACHUSETTS 01609	IBM 1620	61		*			350
	PDP 7	66					
STEVENS INSTITUTE OF TECH HOBOKEN NEW JERSEY 07030	IBM 1620	61	X		*		250
	UNI 1105	63	X		*		83
	IBM 360/40	67					
CLARKSON COLLEGE OF TECH POTSDAM NEW YORK 13676	IBM 1620	61	X		*		540
	IBM 360/44	67					
CASE INSTITUTE OF TECHNOLOGY CLEVELAND, OHIO 44106	UNI-1107	63			*		230
DREXEL INST OF TECHNOLOGY PHILADELPHIA PENNSYLVANIA 19104	IBM 1620	61		*			280

ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 2   TYPE 7   LEVEL 2

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
DETROIT INST OF TECHNOLOGY DETROIT MICHIGAN 48201	IBM 1620	65			*		203
PHILA COL OF TEX & SCI PHILADELPHIA PENNSYLVANIA 19144	IBM 1130	67					

CTL 2   TYPE 7   LEVEL 3

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
BABSON INST OF BUS ADMIN BABSON PARK MASSACHUSETTS 02157	MIT 7094	00					
WESTERN NEW ENGLAND COLLEGE SPRINGFIELD MASSACHUSETTS 01119	IBM 1620	64			*		
RIDER COLLEGE TRENTON NEW JERSEY 08602	IBM 1130	67					
PACE COLLEGE NEW YORK, NEW YORK 10038	IBM 1620	62			*		100

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

ITEM I-A-4,5,6 COMPUTERS INSTALLED AND ON ORDER FOR RESEARCH AND INSTRUCTIONAL USES

CTL 2   TYPE 7   LEVEL 4

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
LOMA LINDA UNIVERSITY LOMA LINDA CALIFORNIA 92354	IBM 1620	65				*	175
NEW YORK MEDICAL COLLEGE NEW YORK NEW YORK 10029	IBM 1620	64					775
ALBANY MEDICAL COLLEGE ALBANY NEW YORK 10013	IBM 1620	63		*			176
HAHNEMANN MED COL & HOSP PHILADELPHIA PENNSYLVANIA 19102	IBM 1620	64		*			40
JEFFERSON MED COL OF PHILA PHILADELPHIA PENNSYLVANIA 19107	IBM 1401 IBM 360/30	64 57	X	*			

CTL 2   TYPE 9   LEVEL 1

INSTITUTION	COMPUTER SYST.	YEAR INST	TO BE REPLACED	LEASE	PURCH	BOTH	1964-65 AVG.USE HRS/MO
OHIO COLLEGE OF APP SCIENCE CINCINNATI OHIO 45210	CDC LGP 30 IBM 1620	65 66	X			*	

III. List of Institutions in Sample Offering or Planning to Offer
Degree Programs in "Computer Science"
(Item I-B of Questionnaire)

Under the major heading, "Computer Science Instruction Programs," the institutions were asked to list degree programs offered in "Computer Science, Information Science, Data Processing, etc.," during 1964-65 and those planned to be offered "in the next three years." Except for the eleven institutions which requested not to be listed this section contains the responses of the institutions in the sample.

The institutions are arranged approximately alphabetically within state within name of academic program (usually department name). The programs were categorized as being in one of four major programs (Computer Science, Information Science, Business Data Processing, and Scientific Data Processing) or in one of twelve options in other academic areas.

A given institution may appear in more than one program list. The numbers of "students trained to use computers" is repeated each time the institution is listed.

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION	ZIP	1964-65 (ASSOC BACC MAST DOCT CERT)	PLANNED (ASSOC BACC MAST DOCT CERT)	COMP. SCI. MAJORS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	GR	PROG.68-9 UNGR	GR
AUBURN UNIVERSITY, AUBURN ALABAMA	36830		B		30			400	50	1200	150
UNIVERSITY OF ALABAMA, UNIVERSITY ALABAMA	35486		B			95	30	400	65	1100	250
UNIVERSITY OF ALASKA, COLLEGE ALASKA	99735		A B M			40	10	50	10	100	25
UNIVERSITY OF ARKANSAS, FAYETTEVILLE ARKANSAS	72701		B M					425	20	600	50
CALIFORNIA STATE POLY COL, S LUIS OBISPO CALIFORNIA	93401		B		50			800		1200	
STANFORD UNIVERSITY, STANFORD, CALIFORNIA	94305	M D		69		100		600	999	1000	1400
UNIV OF CALIFORNIA AT BERKELEY, BERKELEY CALIFORNIA	94720	B	B	106	78	140	130	4200	999	12000	2500
UNIVERSITY OF CALIFORNIA DAVIS, DAVIS CALIFORNIA	95616		B		20	25		300	50	1000	150
UNIV OF CAL AT SANTA BARBARA, SANTA BARBARA CALIFORNIA	93106		M D					15	20	150	75
YALE UNIVERSITY, NEW HAVEN CONNECTICUT	06520	B M D	B M D	12	5	50	20	200	150	800	400
GEORGE WASHINGTON UNIVERSITY, WASHINGTON D C	20006		B	5	6	70	20	245	95	720	265
BREVARD ENGINEERING COLLEGE, MELBOURNE FLORIDA	32924		B		200			50		200	
UNIVERSITY OF FLORIDA, GAINESVILLE FLORIDA	32601		B M		100	20		2073	351	6700	1100

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION		PLANNED 1964-65 (AS CT B M D C T)	PLANNED (AS CT B M D C T)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	GR	PROG.68-9 UNGR	GR
UNIVERSITY OF MIAMI CORAL GABLES FLORIDA	33124		B M					50	30	200	100
ATLANTA UNIVERSITY CENTER ATLANTA, GEORGIA	30314		B M								
EMORY UNIVERSITY ATLANTA GEORGIA	30322		D	10		20		30	95	65	200
GEORGIA STATE COLLEGE ATLANTA GEORGIA	30303		B M		100	50		130	30	500	200
UNIVERSITY OF GEORGIA ATHENS GEORGIA	30601		M					20	20	200	50
UNIVERSITY OF HAWAII HONOLULU HAWAII	96822		M					300	200	1200	1500
BRADLEY UNIVERSITY PEORIA ILLINOIS	61606		M			60		100	10	1000	80
NORTHWESTERN UNIVERSITY EVANSTON, ILLINOIS	60201		M D	20		40		300	200	500	400
SOUTHERN ILLINOIS UNIV CARBONDALE ILLINOIS	62901		M D	5		10		250	25	600	40
UNIVERSITY OF ILLINOIS URBANA ILLINOIS	61822		M D	200	100			2300	999	5400	2550
INDIANA STATE UNIVERSITY TERRE HAUTE INDIANA	47809	B	M	20	12	60	35	10	6	35	20
PURDUE UNIVERSITY LAFAYETTE INDIANA	47907	B M D	B M D	20	50	100	100	600	300	1400	600
UNIVERSITY OF NOTRE DAME NOTRE DAME, INDIANA	46556		B D					600			
IOWA ST U OF SCI AND TECH AMES IOWA	50010		B M D	100	40			800	300	2500	1000

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION		PLANNED 1964-65	PLANNED	STUDENTS TRAINED TO USE COMPUTERS							
				COMP. SCI. MAJORS				OTHERS— AT LEAST ONE LANGUAGE			
				1964-65 UNGR	GR	PROG.68-9 UNGR	GR	1964-65 UNGR	GR	PROG.68-9 UNGR	GR
UNIVERSITY OF IOWA, IOWA CITY IOWA	52240		B M D	150	50			615	470	2025	1080
KANSAS ST U AG AND APP SCI, MANHATTAN KANSAS	66502		B M D	400	50			800	150	1200	230
MOREHEAD STATE COLLEGE, MOREHEAD KENTUCKY	40351		B								
UNIVERSITY OF KENTUCKY, LEXINGTON KENTUCKY	40604		B	500	100			600	100	2000	300
UNIVERSITY SOUTHWESTERN LA., LAFAYETTE, LOUISIANA	70501	M	A B, M	200	60	7		50	5	500	25
UNIVERSITY OF MARYLAND, COLLEGE PARK MARYLAND	20742		M		30			700	90	2000	500
MASS INST OF TECHNOLOGY, CAMBRIDGE MASSACHUSETTS	02139	B M D		100	100	125	150	800	500	900	1500
MICHIGAN STATE UNIVERSITY, EAST LANSING MICHIGAN	48824		B M					600	100	3000	800
WAYNE STATE UNIVERSITY, DETROIT MICHIGAN	48202		B M D	50	20			1750	200	5000	1000
WESTERN MICHIGAN UNIVERSITY, KALAMAZOO MICHIGAN	49001		B M					200	40	1200	200
UNIVERSITY OF MINNESOTA, MINNEAPOLIS MINNESOTA	55455		M D		50			850	565	5600	1225
WINONA STATE COLLEGE, WINONA MINNESOTA	55987		B	30						250	50

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION	PLANNED 1964-65 Degrees	PLANNED Degrees	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR	AT LEAST ONE LANGUAGE OTHERS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR
JACKSON STATE COLLEGE, JACKSON MISSISSIPPI 39217		B					90		500	
UNIV. OF SOUTHERN MISSISSIPPI, HATTIESBURG, MISSISSIPPI 39401		B				20	200	50	400	100
MISSISSIPPI STATE UNIVERSITY, STATE COLLEGE MISSISSIPPI 39782	M	M				20	1300	40	2800	150
CENTRAL MISSOURI ST COLLEGE, WARRENSBURG MISSOURI 64093		B					400	50	800	100
UNIV OF MISSOURI AT COLUMBIA, COLUMBIA MISSOURI 65201		B M	87			30	310	240	800	620
UNIV OF MISSOURI AT ROLLA, ROLLA MISSOURI 65401	M	B D	17	110		90	1500	200	4500	500
WASHINGTON UNIVERSITY, ST LOUIS MISSOURI 63130	M D	M D	75	200	100	400	525	700	1000	1500
UNIVERSITY OF NEBRASKA, LINCOLN NEBRASKA 68503		B M	40			20	100	20	400	50
UNIVERSITY OF NEW HAMPSHIRE, DURHAM, NEW HAMPSHIRE 03824		M				20	120	20	1000	100
NEWARK COL OF ENGINEERING, NEWARK NEW JERSEY 07102	M	B M D				20	400	100	700	200
PRINCETON UNIVERSITY, PRINCETON NEW JERSEY 08540		M	80			75	1500	650	1750	925
STEVENS INSTITUTE OF TECH, HOBOKEN NEW JERSEY 07030	M	D	10			40	1145	50	1300	100
NEW MEXICO INST MINING & TECH, SOCORRO NEW MEXICO 87801		B	25						150	40
NEW MEXICO STATE UNIVERSITY, UNIVERSITY PARK NEW MEXICO 88070		M	100			50	220	20	1000	200

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION	1964-65 ASOC BACH MAD DCT	PLANNED ASOC BACH MAD DCT	STUDENTS TRAINED TO USE COMPUTERS							
			COMP. SCI. MAJORS				OTHERS- AT LEAST ONE LANGUAGE			
			1964-65 UNGR	GR	PROG.68-9 UNGR	GR	1964-65 UNGR	GR	PROG.68-9 UNGR	GR
COLUMBIA UNIV ALL CAMPUSES NEW YORK NEW YORK 10027	B M D	B M D		30	50	100	150	635	2000	2000
CORNELL UNIVERSITY ITHACA NEW YORK 14850		B M D	20	10	160	70	1000	150	4000	500
PRATT INSTITUTE BROOKLYN NEW YORK 11205		B M			50	150	350	5	600	250
RENSSELAER POLY INSTITUTE TROY NEW YORK 12181		M D				30	400	60	2000	250
SUNY AT ALBANY ALBANY NEW YORK 12203	A	M			50	15			1000	100
SUNY DOWNSTATE MED CTR BROOKLYN NEW YORK 11203		B			7					
SUNY STATE UNIV AT BUFFALO BUFFALO NEW YORK 14214		B M D			50	30	500	50	5000	750
N C STATE UNIV AT RALEIGH RALEIGH NORTH CAROLINA 27607		B M			100	10	100	10	5000	500
THE UNIV OF NORTH DAKOTA GRAND FORKS NORTH DAKOTA 58201		B					100	10	300	100
CUYAHOGA COMMUNITY COLLEGE CLEVELAND OHIO 44115	A		10		100		100			
OHIO COLLEGE OF APP SCIENCE CINCINNATI OHIO 45210	A									
OHIO STATE UNIVERSITY COLUMBUS OHIO 43210	B M D				200	50	1830	370	4500	850
UNIVERSITY OF AKRON AKRON OHIO 44304	B				40	20	250	25	1000	150
UNIVERSITY OF DAYTON DAYTON OHIO 45409	M		100		240	5	200	15	600	50

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION	1964-65 ASCC BACH MAST DOCT	PLANNED ASCC BACH MAST DOCT	COMP. SCI. MAJORS 1964-65 UNGR GR	COMP. SCI. MAJORS PROG.68-9 UNGR GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR GR	OTHERS- AT LEAST ONE LANGUAGE PRNG. 68-9 UNGR GR
OKLA STATE UNIVERSITY STILLWATER OKLAHOMA 74074		B M	50	90 40	500 175	1200 250
OREGON STATE UNIVERSIT. CORVALLIS OREGON 97331	M D	B M D	50 10	250 50	1000 150	3000 300
UNIVERSITY OF OREGON EUGENE, OREGON 97403		M		15	100 80	800 300
CARNEGIE INST TECHNOLOGY PITTSBURGH PENNSYLVANIA 15212	D	B	30	50	500 80	1000 120
LEHIGH UNIVERSITY BETHLEHEM PENNSYLVANIA 18015		B	5	20 40	500 100	750 150
PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK PA 16802	M D	A B		50 100	2000	4000 2000
UNIVERSITY OF PITTSBURGH PITTSBURGH, PENNSYLVANIA 15213		M	70	30	2000 999	4000 2000
UNIVERSITY OF RHODE ISLAND KINGSTON RHODE ISLAND 02881		M		20	500 150	850 200
UNIV OF SOUTH CAROLINA COLUMBIA SOUTH CAROLINA 29208		B M	40	5	300 40	1000 200
WINTHROP COLLEGE ROCK HILL SOUTH CAROLINA 29730		B	40	100		
VANDERBILT UNIVERSITY NASHVILLE TENNESSEE 37203		B M D	75	25	100 25	500 150
TEXAS A & M UNIVERSITY COLLEGE STATION TEXAS 77840	M	B	85	50 150	275 40	500 150
RICE UNIVERSITY HOUSTON TEXAS 77001		M D		20	182 62	230 115

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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: COMPUTER SCIENCES

INSTITUTION	1964-65	PLANNED	COMP. SCI. MAJORS 1964-65 UNGR	COMP. SCI. MAJORS 1964-65 GR	COMP. SCI. MAJORS PROG.68-9 GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	OTHERS 1964-65 GR	OTHERS PROG.68-9 UNGR	OTHERS PROG.68-9 GR
SAM HOUSTON STATE COLLEGE HUNTSVILLE TEXAS 77340		B M				80		360	20
TEXAS CHRISTIAN UNIVERSITY FORT WORTH TEXAS 76129	A	B M D			20	200	10	3000	400
TEXAS COL ARTS INDUSTRIES KINGSVILLE TEXAS 78363		B	30			250	10	450	20
TEXAS TECHNOLOGICAL COLLEGE LUBBOCK TEXAS 79409		M D			40	300	100	3000	500
UNIV OF TEXAS AT EL PASO EL PASO TEXAS 79712		B				100		300	
UNIVERSITY OF HOUSTON HOUSTON TEXAS 77004		B M	25	150	10	1000	500	5000	1000
UTAH STATE UNIVERSITY LOGAN UTAH 84321	B		25	50		300	50	1000	150
UNIVERSITY OF VIRGINIA CHARLOTTESVILLE VIRGINIA 22903	M D					200	150	1500	600
VIRGINIA POLYTECHNIC INST BLACKSBURG VIRGINIA 24061		B M		20	5	350	150	1000	300
UNIVERSITY OF WASHINGTON SEATTLE WASHINGTON 98105		M D			20	1000	500	2000	500
W VIRGINIA INST OF TECHNOLOGY MONTGOMERY WEST VIRGINIA 25136		A				50		175	
UNIVERSITY OF WISCONSIN MADISON, WISCONSIN 53706	M D	B	31	75	150	350	150	800	350
UNIVERSITY OF WYOMING LARAMIE WYOMING 82070		B				60	10	400	30

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: INFORMATION SCIENCES

INSTITUTION	PLANNED 1964-65 ASCOT	BACH	MAST	DOCT	PLANNED ASCOT	BACH	MAST	DOCT	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	GR	PROG. 68-9 UNGR	GR
UNIV OF CAL AT SAN FRANCISCO SAN FRANCISCO CALIFORNIA 94122							M	D				4		6		30
YALE UNIVERSITY NEW HAVEN CONNECTICUT 06520							M	D	12	5	50	20	200	150	800	400
GEORGIA INSTITUTE OF TECH ATLANTA GEORGIA 30332			M					D		20		50	600	200	1400	600
ILLINOIS INST OF TECH CHICAGO ILLINOIS 60616							M						1000	100	2000	500
UNIVERSITY OF CHICAGO CHICAGO, ILLINOIS 60637							M	D		100		200	20	400	100	800
MASS INST OF TECHNOLOGY CAMBRIDGE MASSACHUSETTS 02139		B	M	D		B	M	D	100	100	125	150	800	500	900	1500
PRINCETON UNIVERSITY PRINCETON NEW JERSEY 08540		B	M	D		B	M	D	20	40	40	75	1500	650	1750	925
CORNELL UNIVERSITY ITHACA NEW YORK 14850			M				M		20	10	100	70	1000	150	4000	500
UNIV OF N C AT CHAPEL HILL CHAPEL HILL NORTH CAROLINA 27514			M					D		17		50	100	25	400	100
OHIO STATE UNIVERSITY COLUMBUS OHIO 43210			M				M	D		200	200	50	1830	370	4500	850
UNIVERSITY OF AKRON AKRON OHIO 44304						B				40		20	250	25	1000	150
UNIVERSITY OF DAYTON DAYTON OHIO 45409			M						100	240	240	5	200	15	600	50

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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: INFORMATION SCIENCES

INSTITUTION	1964-65	PLANNED	STUDENTS TRAINED TO USE COMPUTERS							
			COMP. SCI. MAJORS				OTHERS- AT LEAST ONE LANGUAGE			
	ABMD SAAO SOCS CHTT	ABMD SAAO SOCS CHTT	1964-65 UNGR	GR	PROG.68-9+ UNGR	GR	1964-65 UNGR	GR	PROG.68-9 UNGR	GR
WESTERN RESERVE UNIVERSITY CLEVELAND, OHIO 44105	M D	M D						50		300
LEHIGH UNIVERSITY BETHLEHEM PENNSYLVANIA 18015	M	D	5	20	40		500	100	750	150
UNIVERSITY OF PENNSYLVANIA PHILADELPHIA PENNSYLVANIA 19104	M D	M D	50		500		175	275	1500	500
UNIV OF TEXAS AT EL PASO EL PASO TEXAS 78712		B					100		300	
WASHINGTON STATE UNIVERSITY PULLMAN WASHINGTON 99163	M	D	12		40		1500	50	2500	75

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
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ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: BUSINESS DATA PROCESSING

INSTITUTION	ZIP	1964-65 (AC BC MC DC CT)	PLANNED (AC BC MC DC CT)	STUDENTS TRAINED TO USE COMPUTERS							
				COMP. SCI. MAJORS *				OTHERS- * AT LEAST ONE LANGUAGE			
				1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR	1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR
GADSDEN TECH STATE JR COL, GADSDEN ALABAMA	35904		A	106							
UNIVERSITY OF ARIZONA, TUCSON ARIZONA	85721	M D						123	42	350	150
CHAFFEY COLLEGE, ALTA LOMA CALIFORNIA	91701		A							230	
COLLEGE OF SAN MATEO, SAN MATEO CALIFORNIA	94402	A		73		100		15		40	
EAST LOS ANGELES COLLEGE, LOS ANGELES, CALIFORNIA	90022	A		20		40		80		100	
EL CAMINO COLLEGE, EL CAMINO COL CALIFORNIA	90506	A						669		800	
FULLERTON JR. COLLEGE, FULLERTON, CALIFORNIA	92632	A		140		250		197		300	
PALO VERDE COLLEGE, BLYTHE CALIFORNIA	92225		A							40	
STANFORD UNIVERSITY, STANFORD, CALIFORNIA	94305	M		69		100		600	999	1000	1400
CAL ST POLY KELLO VOHRS, POMONA CALIFORNIA	91766		B					2000		3000	
MESA COUNTY JR COLLEGE, GRAND JUNCTION COLORADO	81501	A		10		30		25		50	
SOUTHERN COLORADO STATE COL, PUEBLO COLORADO	81005	A	B	15		50		80		200	
THAMES VLY ST TECH INST, NORWICH CONNECTICUT	06360	A		25		105		100		300	
ATLANTA UNIVERSITY CENTER, ATLANTA, GEORGIA	30314		B					50	30	200	100

1964-65 COMPUTER SURVEY—SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: BUSINESS DATA PROCESSING

INSTITUTION	1964-65 ASOCHT *	PLANNED ASOCHT *	COMP. SCI. MAJORS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	GR	PROG. 68-9 UNGR	GR
ELGIN COMMUNITY COLLEGE ELGIN ILLINOIS 60120		A	20				15		40	
FREEPORT COMMUNITY COLLEGE FREEPORT ILLINOIS 61032		A							30	
VOCATIONAL TECHNICAL INSTITUTE CARBONDALE ILLINOIS 62901	A		12		50					
KANSAS CITY KANSAS JUNIOR COL KANSAS CITY KANSAS 66101	A						15		25	
EASTERN KENTUCKY UNIVERSITY RICHMOND, KENTUCKY 40476		A								
MOREHEAD STATE COLLEGE MOREHEAD KENTUCKY 40351		A							75	
NTHEST LOUISIANA ST COL MONROE LOUISIANA 71201		B	62	20					360	100
BALTIMORE JUNIOR COLLEGE BALTIMORE MARYLAND 21215		A	300						40	
BOSTON UNIVERSITY BOSTON MASSACHUSETTS 02215		B	50				250	75	600	150
NORTHEASTERN UNIVERSITY BOSTON MASSACHUSETTS 02115	A						1000	100	2500	500
GRAND RAPIDS JUNIOR COLLEGE GR GRAND RAPIDS MICHIGAN 49502	A		100				60		40	
WAYNE STATE UNIVERSITY DETROIT MICHIGAN 48202	M		50	20			1750	200	5000	1000

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: BUSINESS DATA PROCESSING

INSTITUTION	1964-65 ASCC	1964-65 BACHT	1964-65 MAST	1964-65 DOCT	PLANNED ASCC	PLANNED BACHT	PLANNED MAST	PLANNED DOCT	COMP. SCI. MAJORS 1964-65 UNGR	COMP. SCI. MAJORS 1964-65 GR	COMP. SCI. MAJORS PROG.68-9 UNGR	COMP. SCI. MAJORS PROG.68-9 GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	OTHERS 1964-65 GR	OTHERS PROG.68-9 UNGR	OTHERS PROG.68-9 GR
ITAWAMBA JR. COLLEGE VOC.TECH. TUPELO, MISSISSIPI 38843					A								25		20	
MISSISSIPPI STATE UNIVERSITY STATE COLLEGE MISSISSIPPI 39782						B	M	D				20	1300	40	2800	150
NTHWST MISSISSIPPI JR COLLEGE SENATOBIA MISSISSIPPI 38668					A								30			
CENTRAL MISSOURI ST COLLEGE WARRENSBURG MISSOURI 64093	A				A								400	50	800	100
MISSOURI SOUTHERN COLLEGE JOPLIN MISSOURI 64801					A										50	
WASHINGTON UNIVERSITY ST LOUIS MISSOURI 63130	A				A				75	200	100	400	525	700	1000	1500
PRINCETON UNIVERSITY PRINCETON NEW JERSEY 08540			B						20	40	75		1500	650	1750	925
NEW MEXICO STATE UNIVERSITY UNIVERSITY PARK NEW MEXICO 88070					A				100		50		220	20	1000	200
AUBURN COMMUNITY COLLEGE AUBURN NEW YORK 13021					A				240						200	
PACE COLLEGE NEW YORK, NEW YORK 10038					A	B			300		30		400		800	90
CUYAHOGA COMMUNITY COLLEGE CLEVELAND OHIO 44115	A				A				100				10			
LORAIN CO CMTY COLLEGE LORAIN OHIO 44052	A				A				95				14			
UNIVERSITY OF AKRON AKRON OHIO 44304					A	B			40		20		250	25	1000	150
UNIVERSITY OF TOLEDO TOLEDO OHIO 43606					A								200	25	500	80

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: BUSINESS DATA PROCESSING.

STUDENTS TRAINED TO USE COMPUTERS

INSTITUTION	1964-65	PLANNED	COMP. SCI. MAJORS - AT LEAST ONE LANGUAGE				OTHERS-			
			1964-65 UNGR	1964-65 GR	PROG.6R-9 UNGR	PROG.6R-9 GR	1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR
DREXEL INST OF TECHNOLOGY PHILADELPHIA PENNSYLVANIA 19104	B		10		20		3000		4000	
ODESSA COLLEGE ODESSA TEXAS 79760		A			55				45	
WHARTON COUNTY JUNIOR COLLEGE WHARTON TEXAS 77488	A						75	10	150	50
WEBER STATE COLLEGE OGDEN UTAH 84403	A						15		240	
RICHMOND PROF. INSTITUTE RICHMOND, VIRGINIA 23220		A							250	50
CENTRALIA COLLEGE CENTRALIA WASHINGTON 98531	A									
COLUMBIA BASIN COLLEGE PASCO WASHINGTON 99301	A		20		14		30		18	

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: SCIENTIFIC DATA PROCESSING

INSTITUTION	PLANNED 1964-65 (ASSOC BACH MAST DOCT CERT)	* PLANNED (ASSOC BACH MAST DOCT CERT)	STUDENTS TRAINED TO USE COMPUTERS			
			COMP. SCI. MAJORS		OTHERS - AT LEAST ONE LANGUAGE	
			1964-65 UNGR GR	PROG.6R-9 UNGR GR	1964-65 UNGR GR	PROG. 68-9 UNGR GR
COLLEGE OF SAN MATEO SAN MATEO CALIFORNIA 94402	A	A	73	100	15	40
VOCATIONAL TECHNICAL INSTITUTE CARBONDALE ILLINOIS 62901	A	A	12	50		
SUNY UPSTATE MEDICAL CENTER SYRACUSE, NEW YORK 13210	A	A	5	15	24	30
LORAIN CO CMTY COLLEGE LORAIN OHIO 44052	A	A	14	95		

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN MATHEMATICS

STUDENTS TRAINED TO USE COMPUTERS

INSTITUTION		1964-65 Programs	PLANNED Programs	COMP. SCI. MAJORS 1964-65 UNGR	GR	PROG.68-9 UNGR	GR	OTHERS- AT LEAST ONE LANGUAGE 1964-65 UNGR	GR	PROG. 68-9 UNGR	GR
UNIVERSITY OF ALABAMA UNIVERSITY ALABAMA	35486		B M	95	30			400	65	1100	250
UNIVERSITY OF ALASKA COLLEGE ALASKA	99735	B M		40	10			50	10	100	25
UNIVERSITY OF ARIZONA TUCSON ARIZONA	85721	M D						123	42	350	150
CAL ST POLY KELLO VOHRS POMONA CALIFORNIA	91766		B					2000		3000	
SOUTHERN COLORADO STATE COL PUEBLO COLORADO	81005	B		15		50		80		200	
WESLEYAN UNIVERSITY MIDDLETOWN CONNECTICUT	06457	M D		6		8		60	15	150	25
FLORIDA STATE UNIVERSITY TALLAHASSE FLORIDA	32306	B M						360	40	1500	200
UNIVERSITY OF ILLINOIS URBANA ILLINOIS	61822	M D	B	200	100			2300	999	5400	2550
BOSTON UNIVERSITY BOSTON MASSACHUSETTS	02215		B	50				250	75	600	150
WASHINGTON UNIVERSITY ST LOUIS MISSOURI	63130	B	A B M D	75 200	100	400		525	700	1000	1500
NEW YORK UNIVERSITY NEW YORK NEW YORK	10003		A B M D					1650	500	3500	1500

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C455

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN MATHEMATICS

| INSTITUTION | 1964-65 (ASOC BACH MAST DOCT) | PLANNED 1964-65 (ASOC BACH MAST DOCT) | STUDENTS TRAINED TO USE COMPUTERS | | | | | | | |
| | | | COMP. SCI. MAJORS | | | | OTHERS- AT LEAST ONE LANGUAGE | | | |
			1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR	1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR
OHIO STATE UNIVERSITY, COLUMBUS OHIO 43210	M D	M D			200	50	1830	370	4500	850
UNIVERSITY OF OKLAHOMA, NORMAN OKLAHOMA 73069	M	M D	100	26	215	48	400	75	1500	300
BROWN UNIVERSITY, PROVIDENCE RHODE ISLAND 02912	M D	B		3	6	6	10	5	20	12
CLEMSON UNIVERSITY, CLEMSON SOUTH CAROLINA 29631	B	M	30		60	10	300	30	2000	100
UNIVERSITY OF TENNESSEE, KNOXVILLE TENNESSEE 37916		B M			60	30	300	100	700	350
EAST TEXAS STATE UNIV, COMMERCE TEXAS 75429	B		10		5	5		40	150	

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN ELECTRICAL ENGINEERING

INSTITUTION	1964-65	PLANNED	STUDENTS TRAINED TO USE COMPUTERS							
			COMP. SCI. MAJORS *				OTHERS- AT LEAST ONE LANGUAGE			
			1964-65 UNGR	GR	PROG.68-9* UNGR	GR	1964-65 UNGR	GR	PROG. 68-9 UNGR	GR
ARIZONA STATE UNIVERSITY TEMPE ARIZONA 85281	B M D	B M D	14	6	36	33	1181	335	1600	500
UNIVERSITY OF ARKANSAS FAYETTEVILLE ARKANSAS 72701	M	M					425	20	600	50
UNIV OF CALIFORNIA AT BERKELEY BERKELEY CALIFORNIA 94720	B M D	B M D	106	78	140	130	4200	999	12000	2500
UNIV OF SOUTHERN CALIFORNIA LOS ANGELE CALIFORNIA 90007	B M D	B M D	60	50	90	75	30	20	40	40
UNIVERSITY OF CONNECTICUT STORRS CONNECTICUT 06268	M	M					450	100	1300	400
UNIVERSITY OF ILLINOIS URBANA ILLINOIS 61822	M D	M D			200	100	2300	999	5400	2550
MASS INST OF TECHNOLOGY CAMBRIDGE MASSACHUSETTS 02139	B M D	B M D	100	100	125	150	800	500	900	1500
NEW YORK UNIVERSITY NEW YORK NEW YORK 10003		B M D					1650	500	3500	1500
UNIVERSITY OF OKLAHOMA NORMAN OKLAHOMA 73069	B M D	B M D	100	26	215	48	400	75	1500	300
VIRGINIA MILITARY INSTITUTE LEXINGTON VIRGINIA 24450		B					241		300	

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN APPLIED SCIENCE

INSTITUTION	PLANNED 1964-65 (ASSOC BACH MAST DOCT)	PLANNED (ASSOC BACH MAST DOCT)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 (UNGR GR)	PROG. 68-9 (UNGR GR)	OTHERS- AT LEAST ONE LANGUAGE 1964-65 (UNGR GR)	PROG. 68-9 (UNGR GR)
UNIVERSITY OF CALIFORNIA DAVIS, DAVIS CALIFORNIA 95616	M	D	20 25		300 50	1000 150
SOUTHERN ILLINOIS UNIV, CARBONDALE ILLINOIS 62901	M		5 10		250 25	600 40

NAME OF PROGRAM: OPTION IN LINGUISTICS

INSTITUTION	PLANNED 1964-65 (ASSOC BACH MAST DOCT)	PLANNED (ASSOC BACH MAST DOCT)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 (UNGR GR)	PROG. 68-9 (UNGR GR)	OTHERS- AT LEAST ONE LANGUAGE 1964-65 (UNGR GR)	PROG. 68-9 (UNGR GR)
GEORGETOWN UNIVERSITY, WASHINGTON D C 20007	M	D			50 60	150 100

NAME OF PROGRAM: OPTION IN SYSTEMS AND COMMUNICATIONS SCIENCE

INSTITUTION	PLANNED 1964-65 (ASSOC BACH MAST DOCT)	PLANNED (ASSOC BACH MAST DOCT)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 (UNGR GR)	PROG. 68-9 (UNGR GR)	OTHERS- AT LEAST ONE LANGUAGE 1964-65 (UNGR GR)	PROG. 68-9 (UNGR GR)
MASS INST OF TECHNOLOGY, CAMBRIDGE MASSACHUSETTS 02139	B M	D	100 100	125 150	800 500	900 1500
CARNEGIE INST TECHNOLOGY, PITTSBURGH PENNSYLVANIA 15212		D	30 50		500 80	1000 120

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN QUANTITATIVE ANALYSIS

INSTITUTION	ASC / BA / MA / DO / ... 1964-65 * PLANNED	STUDENTS TRAINED TO USE COMPUTERS							
		COMP. SCI. MAJORS + AT LEAST ONE LANGUAGE				OTHERS-			
		1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR	1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR
UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS 60637	M D	100	200		20	400	100	100	800
SOUTHERN METHODIST UNIVERSITY, DALLAS, TEXAS 75222	B M				400	25	600	100	

NAME OF PROGRAM: OPTION IN SYSTEMS ENGINEERING

INSTITUTION	1964-65 * PLANNED	STUDENTS TRAINED TO USE COMPUTERS							
		COMP. SCI. MAJORS + AT LEAST ONE LANGUAGE				OTHERS-			
		1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR	1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR
UNIVERSITY OF ARIZONA, TUCSON, ARIZONA 85721	B M D				123	42	350	150	
OLD DOMINION COLLEGE, NORFOLK, VIRGINIA 23508	B				300	10	550	30	

NAME OF PROGRAM: OPTION IN MACHINE COMPUTERS

INSTITUTION	1964-65 * PLANNED	STUDENTS TRAINED TO USE COMPUTERS							
		COMP. SCI. MAJORS + AT LEAST ONE LANGUAGE				OTHERS-			
		1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR	1964-65 UNGR	1964-65 GR	PROG.68-9 UNGR	PROG.68-9 GR
GEORGE WASHINGTON UNIVERSITY, WASHINGTON D C 20006	B M D	5	6	70	20	245	95	720	265

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN SYSTEMS ANALYSIS

STUDENTS TRAINED TO USE COMPUTERS

INSTITUTION	PLANNED	COMP. SCI. MAJORS *		OTHERS- * AT LEAST ONE LANGUAGE			
	1964-65 ASBMD SABOAC BDOCCH CHTC	1964-65 UNGR GR	PROG.68-9 UNGR GR	1964-65 UNGR GR	PROG. 68-9 UNGR GR		
MIAMI UNIVERSITY OXFORD, OHIO 45056	B	100	400	50 40	300 150		

NAME OF PROGRAM: OPTION IN ADMINISTRATIVE SCIENCE

STUDENTS TRAINED TO USE COMPUTERS

INSTITUTION	PLANNED	COMP. SCI. MAJORS *		OTHERS- * AT LEAST ONE LANGUAGE			
	1964-65 ASBMD SABOAC BDOCCH CHTC	1964-65 UNGR GR	PROG.68-9 UNGR GR	1964-65 UNGR GR	PROG. 68-9 UNGR GR		
FLORIDA ATLANTIC UNIVERSITY BOCA RATON FLORIDA 33432	B		300	800			
CLEMSON UNIVERSITY CLEMSON SOUTH CAROLINA 29631	B	30	60 10	300 30	2000 100		

NAME OF PROGRAM: OPTION IN MANAGEMENT SCIENCE

STUDENTS TRAINED TO USE COMPUTERS

INSTITUTION	PLANNED	COMP. SCI. MAJORS *		OTHERS- * AT LEAST ONE LANGUAGE			
	1964-65 ASBMD SABOAC BDOCCH CHTC	1964-65 UNGR GR	PROG.68-9 UNGR GR	1964-65 UNGR GR	PROG. 68-9 UNGR GR		
UNIV OF SOUTHERN CALIFORNIA LOS ANGELE CALIFORNIA 90007	M D		480 150	650 600			
AMERICAN UNIVERSITY WASHINGTON D C 20016	M D		30 30	30 30			
PACE COLLEGE NEW YORK, NEW YORK 10038	M	300 30	400	800 90			

ITEM I-B-1,2,3 COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM: OPTION IN INFORMATION SYSTEMS

INSTITUTION	PLANNED 1964-65 (ASBD/SAAC/SCST/CHT)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 UNGR GR	PROG.68-9 UNGR GR	AT LEAST ONE LANGUAGE — OTHERS 1964-65 UNGR GR	PROG. 68-9 UNGR GR
UNIVERSITY OF MINNESOTA MINNEAPOLIS MINNESOTA 55455	B M	50		850 545	5600 1225
LEHIGH UNIVERSITY BETHLEHEM PENNSYLVANIA 18015	M D	5 20 40		500 100	750 150
TEMPLE UNIVERSITY PHILADELPHIA, PA. 19122	M			50 100	3090 400

NAME OF PROGRAM: OPTION IN INDUSTRIAL ENGINEERING

INSTITUTION	PLANNED 1964-65 (ASBD/SAAC/SCST/CHT)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 UNGR GR	PROG.68-9 UNGR GR	AT LEAST ONE LANGUAGE — OTHERS 1964-65 UNGR GR	PROG. 68-9 UNGR GR
ARIZONA STATE UNIVERSITY TEMPE ARIZONA 85281	B M D	14 6 36 33		1181 335	1600 500

NAME OF PROGRAM: OPTION IN STATISTICS

INSTITUTION	PLANNED 1964-65 (ASBD/SAAC/SCST/CHT)	STUDENTS TRAINED TO USE COMPUTERS — COMP. SCI. MAJORS 1964-65 UNGR GR	PROG.68-9 UNGR GR	AT LEAST ONE LANGUAGE — OTHERS 1964-65 UNGR GR	PROG. 68-9 UNGR GR
EMORY UNIVERSITY ATLANTA GEORGIA 30322	M D	10 20 30 95		65 200	
PRINCETON UNIVERSITY PRINCETON NEW JERSEY 08540	B M D	20 40 80 75		1500 650	1750 925

IV. Distributions of Computers by Strata and Groups of Strata
(Item I-A of Questionnaire)

Part A: By Strata

For each stratum the sample frequency of occurence of each model of computer was determined for each of
the various criteria given in Item I-A. The sample values are given for the installed computers but not for the
on-order systems or those to be replaced. For the latter two only population estimates are presented. For example
the second line (IBM 1401) for stratum 1 1 4 is read as follows:

Public universities offering the doctorate reported 54 IBM 1401 computers installed, 39 were leased,
10 purchased and 5 were partly leased and partly purchased. These machines were in use an average of
293 hours per month during 1964-65. Based upon these figures an estimated 59 IBM 1401 systems were
being used for research and instructional purposes in 1964-65 in public universities offering the
doctorate; 42 are estimated to have been leased, 10 purchased and 5 some of each. An estimated 19
of these systems are to be replaced in the near future and another 3 are estimated to be on order with
1 expected in 1965 and the other 2 in 1967. (Computations were truncated rather than rounded, hence
the numbers may not add up.)

Part B: By Groups of Strata

Format is identical to Part A except that sample values are not given since they would have no meaning.

CTL 1   TYPE 1   LEVEL 3

SAMPLE SIZE 4   POP. SIZE 4
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1401	2	2	2					130	1				
IBM 1620	1	1	1					300					
IBM 7040	1	1	1					160					
IBM 360/40										1	1		
IBM 360/30										1	1		

CTL 1   TYPE 1   LEVEL 4

SAMPLE SIZE 97   POP. SIZE 106

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER

SAMPLE(LEFT COLUMN) POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	75 / 81	43 / 46	19 / 20	13 / 14	274	22							
IBM 1401	54 / 59	39 / 42	10 / 10	5 / 5	293	19		3	1	2			
IBM 7040	21 / 22	16 / 17	1 / 1	4 / 4	279	10		5	5				
IBM 7094	11 / 12	4 / 4	2 / 2	5 / 5	428	6							
IBM 1410	10 / 10	10 / 10			424	8							
IBM 1620II	9 / 9	8 / 8		1	320	5							
CDC 1604	5 / 5		5 / 5	1	381								
IBM 709	5 / 5	4 / 5	4 / 4	1	327	3							
IBM 1710	5 / 5	3 / 4	1 / 1		247								
IBM 7074	4 / 4	3 / 3	3 / 3		490	4							
SDS 910	4 / 4	1 / 1			352								
IBM 1460	4 / 4	4 / 4	3 / 3	1	333	1	2		1	1			
CDC 3600	4 / 4		3 / 3	1	284								
CDC 160A	4 / 4	1 / 1	2 / 2	1	232								
CDC LGP 30	4 / 4		3 / 3	1	105								
CDC 160	3 / 3		3 / 3		412								
SDS 930	3 / 3	3 / 3	1 / 1	1	400		2		2				
IBM 7044	3 / 3			1	242	1	2			1			
UNI 418	2 / 2		2 / 2	2	500	2							
PDP 7	2 / 2		2 / 2		500		1		1				
UNI SS80	2 / 2		1 / 1		488								
CDC RP4000	2 / 2		2 / 2		300								
PDP 6	2 / 2		2 / 2		250								
PDP 5	2 / 2		2 / 2		190								
CDC 8090	2 / 2	1 / 1	1 / 1	1	175								
CDC 3200	2 / 2	2 / 2			75	2							
IBM 7072	1 / 1			1	600	1	1						
TRW 300	1 / 1		1 / 1		500								
IBM 7090	1 / 1	1 / 1	1 / 1		470	1							
SDS 920	1 / 1	1 / 1	1 / 1		400								
ILL IAC II	1 / 1		1 / 1		400								
GEC 225	1 / 1		1 / 1		320								
TRW 400	1 / 1		1 / 1		300								
ILL CSX I	1 / 1		1 / 1		300								
UNI 1105	1 / 1		1 / 1	1	257	1	4	2					
PDP 8	1 / 1		1 / 1		240		4	2	1	1			1

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL 1   TYPE 1   LEVEL 4

SAMPLE SIZE 97   POP. SIZE 106
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
BUR 220	1	1	1		200								
ALW III-E	1	1	1		200								
IBM 360/30	1	1	1		190		8						
CYC LONE	1	1	1		164				1				
CDC G-20	1	1	1		130				6				
PDP 4	1			1	120								
UNI 1004	1	1	1		84		1	1					
GEC PK4000	1	1	1		80		1						
CDC 3400	1	1	1	1	60								
UNI 1107	1	1	1	1	55								
DEC LINC	1		1		50								
BUR 5500	1		1	1	50		1						
PAB 250	1		1	1	40								
IBM 797	1		1	1	40								
BUR 205	1	1	1				1						
CDC 924	1		1	1									
PHI 211	1		1	1									
IBM 360/90	1						1		1	1			
IBM 360/75	2						1		1	1			
IBM 1440	1								1				
CDC 6400	3						1		2	1			
GEC DN/30	1								1				
GEC 415	1								1				
GEC 625	1								1				
IBM 704	1								1				
IBM 1800	2						1		1	1			
IBM 1500	1						1						
CDC 3100	2							1	1				
SDS 925	1								1	1			
IBM 1130	2								1	1			
TUC 1/3													
MON 2200	2							1	2				
IBM 360/20	1							1	1	1			
IBM 360/44	3								1	2			
IBM 360/50	15								7	4	3		
IBM 360/40	25							1	14	8	1		

CTL 1   TYPE 1   LEVEL 4

SAMPLE SIZE 97   POP. SIZE 106

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

NAME OF COMPUTER	ON ORDER	65	66	67	68	69	UNK
IRM 360/65	4			1		3	
CDC 6600	2		2				
CDC 1700	2		1	1			
CDC 3300	3	1	1	1			
IHM 360/67	15		3	4		7	

CTL 1   TYPE 2   · LEVEL 2

POP. SIZE 48
SAMPLE SIZE 12
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2 8	1 4	1 4	1	4	155						
IBM 1401	1 4	1 4				100						
IBM 1130					8		4	4				

CTL 1   TYPE 2   LEVEL 3

POP. SIZE 60
SAMPLE SIZE 18
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	13 43	10 33	2 6	1 3	174	16	3	3	3			
IBM 1460	1 3	1 3			300	3	3					
IBM 1620II	1 3	1 3			160	3	3					
IBM 1440	1 3	1 3			24							
IBM 1130					3		3					
RCA 70/45					3		3	3				
HON 1200					3		3	3				
IBM 1401					6		6	6				
IBM 360/30					3		3	3	3			
IBM 360/50					3		3	3	3			
IBM 360/40					10		3	6				

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CTL 1   TYPE 2   LEVEL 4

SAMPLE SIZE 7   POP. SIZE 7

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	5	5	3	3	2	2		203					3
CDC 3100	1	1	1					250					
IBM 1460	1	1	1					190					
IBM 1130	1	1	1					120					
IBM 7040	1	1	1					100					
MON XI	1	1	1					100					1
IBM 360/50							1			1			1
CDC 3300							1			1			1

CTL 1   TYPE 2   LEVEL 5

SAMPLE SIZE 1   POP. SIZE 2

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	1	2	1	2				350					

CTL 1   TYPE 4   LEVEL 2

SAMPLE SIZE 9   POP. SIZE 37

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
CDC G-15	4							4	4				

CTL 1   TYPE 4   LEVEL 3

SAMPLE SIZE 33   POP. SIZE 116

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	8 28	5 17	1 3	2 7	160 80	7							
IBM 1440	1 3	1 3							3				
IBM 360/50					3				3			3	
IBM 1130					14				3	10			
HON 200					7				7				
IBM 1401					14					10		3	

CTL 1   TYPE 4   LEVEL 4

SAMPLE SIZE 5   POP. SIZE 5

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	4 4	4 4			180	3							
IBM 360/30					1			1					
IBM 360/40					1						1		
IBM 1401					2			1	1				

CTL 1   TYPE 5   LEVEL 2

SAMPLE SIZE 5   POP. SIZE 6

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2 2	1 1	1 1		163	1		1	1				
CDC LGP 30	1 1	1 1	1 1										
IBM 1130					1			1					

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CTL 1   TYPE 5   LEVEL 3

SAMPLE SIZE 6   POP. SIZE 7

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK	POP
IBM 1620	4	4	2	2	1	1								123
CDC G-15	2	2			1	1				1				140
BUR 205	1	1			1	1								100
CDC 3100					1				1					
MIT					1				1					

CTL 1   TYPE 5   LEVEL 4

SAMPLE SIZE 6   POP. SIZE 6

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK	POP
IBM 1620	2	2			1	1	1	1						180
BUR 5500	1	1			1	1								300
IBM 1401	1	1	1					1						260
IBM 7040	1	1	1					1						260
CDC 8090	1	1	1											200
BUR 220	1	1			1	1								150
CDC LGP 30	1	1			1	1		1						40
IBM 1620II	1	1	1											
IBM 1500										1				
IBM 360/30	2									2				
IHM 360/44	1								1					
IBM 360/40	1								1					
UNI 1108II	1								1					
BUR 5500TS	1									1				

CTL 1   TYPE 7   LEVEL 3   POP. SIZE 1   SAMPLE SIZE 1

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	1	1	1	1			75	1					
HON 200								1					-1

CTL 1   TYPE 7   LEVEL 4   POP. SIZE 8   SAMPLE SIZE 8

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2 2	2 2	2	2			259	1					
IBM 1620II	2 2	2 2	2	2			238						
IBM 1440	1 1	1 1	1	1			176						
IBM 1410	1 1	1 1	1	1			176						
CDC RP4000	1 1	1 1		1			172	1					
IBM 1130							1						1
CDC 160A							1						1
IBM 360/40							1						
IBM 360/30							1			1		1	

CTL 1   TYPE 8   LEVEL 1   POP. SIZE 400   SAMPLE SIZE 71

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	12 67	6 33	5 28	1 5	145	16	5	5	5				
IBM 1440	1 5		1 5					11	11				
IBM 1401	1 5	1				5	39	16	22				
HON 1200		5					5	5					
IBM 360/30							11	11	5				
IBM 1130							16	16	5				
IBM 360/20							22	22	5			5	

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CTL 1   TYPE 9   LEVEL 1

SAMPLE SIZE 8   POP. SIZE 20

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD		NO.LEASED		NO.PURCH.		NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2	5	2	5	2	5					165					
BUR 204	1	2	1	2	1	2					64					

CTL 2   TYPE 1   LEVEL 3

SAMPLE SIZE 9   POP. SIZE 9

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 5-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD		NO.LEASED		NO.PURCH.		NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	5	5	2	2	2	2	1	1		1	202					
IBM 1401	1	1	1	1	1	1					85					
CDC LGP 30	1	1	1	1	1	1					80					
IBM 1130										2		2				
UNI SS80										1		1	1			

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CTL 2   TYPE 1   LEVEL 4

SAMPLE SIZE 61   POP. SIZE 65

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)
POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	32 34	20 21	9 9	3 3	275	3	3 12					
IBM 1401	31 33	21 22	6 6	4 4	267	4	13					
IBM 7040	9 9	6 6	6 6	3 3	348	3		1	1			
IBM 1410	9 9	6 6	6 6	3 3	288	3			1			
IBM 7094	8 8	5 5	1 1	2 2	368	2	4	2	2			
IBM 1620II	6 6	6 6	1 1		226		6					
CDC 1604	4 4	1 1	2 2	1 1	261	1	1		2			
PDP 7	3 3	1 1	1 1		373							
CDC 160A	3 3	1 1	2 2		248		1					
IBM 7072	3 3	1 1	2 2		243		1					
CDC LGP 30	3 3	1 1	2 2		81							
UNI 1004	3 3	3 3			56							
IBM 360/30	2 2	2 2			600	1	1	5	4			
IBM 7090	2 2	1 1	1 1	1 1	379	1	1	1	1			
IBM 7044	2 2	1 1	1 1	1 1	310	1	1	1				
PDP 1	2 2	1 1		310		1						
IBM 1710	2 2	1 1	1 1		255	1	1					
PDP LINC	2 2	1 2	1 1		250							
BUR 5500	2 2	2 2	2 2		232	1	1					
PDP 4	2 2	2 2	2 2		183							
BUR 205	2 2	2 2	2 2		171	2						
PDP 5	2 2	2 2	1 1		148	1	1					
CDC 3400	2 2	2 2	2 2		142	1						
CDC G-20	2 2											
ASI 6020	1 1	1 1			720	1	1	1	1			
CDC G-21	1 1				600		1					
IBM 7080	1 1	1 1	1 1		450	1						
IBM 1460	1 1	1 1	1 1		450	1	1					
RIC E	1 1	1 1	1 1		350							
CDC 6600	1 1				325							
MIT TX0	1 1	1 1	1 1		300	1	1					
UNI 1107	1 1	1 1	1 1		300							
IBM 709	1 1	1 1	1 1		278							
HON 800	1 1	1 1	1 1		250							
GEC 235	1 1	1 1	1 1		250	1						
PDP 8	1 1	1 1	1 1		200		3	3				

CTL 2   TYPE 1   LEVEL 4

SAMPLE SIZE 61   POP. SIZE 65
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK	POP
GEC 225	1	1												200
BUR 220	1	1												200
CDC RP4000	1	1												175
IBM 650	1	1												175
REC OMPIII	1	1												170
IBM 7070	1	1			1	1								167
HON 400	1	1				1								150
IBM 7074	1	1			1	1								150
MAN IACIII	1	1												103
RCA FLACII	1	1												10
BEK 420	1	1												
HON 200	1	1												
RCA 301	1	1	1											
CDC G-15	1	1	1											
COM	1	1												
CDC 3300	2						2	2						
GEC 645	1	1							1					
SDS 940	1	1							1					
ASI 6040	1	1							1					
CDC 8090	1	1							1					
GEC 425	1	1							1					
SDS 910	1	1							1					
BUR 5500TS	1							1		1				
SDS 9300	1							1		1				
IBM 1500	1							1		1				
IBM 360/20	2							1	1	1	1			
SDS 925	2							1	1					
IBM 1130	2							1	1	1				
IBM 1800	3							1	2	1				
CDC 8092	1							1	1	1				
LIN C8	1							1	1					
CDC 6400	1							1	1					
HON 1200	1							1	1					
TUC 1/3	1							1	1					
IBM 360/65	3							1	1				2	
SDS 930	1							1	1					

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CTL 2   TYPE 1   LEVEL 4

SAMPLE SIZE 61   POP. SIZE 65

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 360/40	5	31	4	6	1			10	1	3	5		1
IBM 360/67	2	12	2					5	1	1	3		1
IBM 360/44	1	6						2			2		
IBM 360/91	1	6						1			2		1
IBM 360/75								2			4		
IBM 360/50								11	6				1

CTL 2   TYPE 2   LEVEL 2

SAMPLE SIZE 81   POP. SIZE 508

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	5	31	4	6	1			189		6			
BUR 205	2	12	2					91					
MCD	1	6											
CDC LGP 30	1	6	1					6					
BUR 101E								6					
TSH FS1440								6					6
IBM 360/44								6		6		6	6
IBM 1401								6				6	
IBM 1130								6	6				

CTL 2 TYPE 2 LEVEL 3

SAMPLE SIZE 55   POP. SIZE 172

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD		NO.LEASED		NO.PURCH.		NO.BOTH		USE REPL. ON ORDER		65		66		67	68	69	UNK
IBM 1620	14	43	10	31	3	9	1	3		119	3	9	3	3				
CDC LGP 30	2	6			2	6				129	2	3		3				
NCR 304	1	3			1	3				300								
BUR 220	1	3			1	3				150								
BUR 205	1	3			1	3				100		3						
MIT	1	3								1								
ALW III	1	3			1	3					1	3						
WDP	1	3																
GEC 215										3		3		3				
IBM 360/30										6				6				
PDP 8										3		3	6	3				
IBM 1401										6		6	6					
IBM 1130										18		9	9	9				

CTL 2 TYPE 2 LEVEL 4

SAMPLE SIZE 20   POP. SIZE 22

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD		NO.LEASED		NO.PURCH.		NO.BOTH		USE REPL. ON ORDER		65		66		67	68	69	UNK
IBM 1620	10	11	6	6	2	2	2	2		168	2	2						
IBM 1401	2	2	2	2						180	1	1						
IBM 7070	1	1			1	1				200	1	1						
GEC 225	1	1			1	1				200								
CDC LGP 30	1	1			1	1	1	1		200								
GEC 235TER	1	1	1	1	1	1				50	1							
GEC 265	1	1			1	1	1	1		25								
IBM 360/40										1				1				
IBM 360/50										1				1				
GEC DNET15										1				1				
GEC 625										1				1				
IBM 1130										4				1	3			
TSH SDS940										1				1			1	

CTL 2   TYPE 4   LEVEL 3

SAMPLE SIZE 8   POP. SIZE 8

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1401	1	1	1				120					

CTL 2   TYPE 5   LEVEL 2

SAMPLE SIZE 5   POP. SIZE 14

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2	5	1	2	1	2	200					

CTL 2   TYPE 5   LEVEL 3

SAMPLE SIZE 5   POP. SIZE 6

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2	2	1	1			1	1	125	1		
CDC G-15	1	1	1	1					300	1		
IBM 1130								2	?			

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CTL 2   TYPE 5   LEVEL 4   POP. SIZE 9

SAMPLE SIZE 7
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	4	5	2	2	2			355					
IBM 7040	2	2	2	2	1			210					
UNI 1107	1	1	1					230					
IBM 7094	1	1	1		1			120					
UNI 1105	1	1		1	1			83					
BUR 220	1	1			1			30					
IBM 360/40			1				1					1	
PDP 7			1			1							
IBM 360/20			1			1				1			
IBM 1800			1			1				1			
IBM 360/44			2			1			1				
IBM 360/50			1			1			1				

CTL 2   TYPE 7   LEVEL 2   POP. SIZE 53

SAMPLE SIZE 14
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	1	3	1	3				203					
IBM 1130	3									3			

CTL 2   TYPE 7   LEVEL 3   POP. SIZE 13

SAMPLE SIZE 11
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2	2	2	2				100					
MIT 7094	1	1											
IBM 1130										1			

CTL 2   TYPE 7   LEVEL 4

SAMPLE SIZE 9   POP. SIZE 11

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	4 4	2 2	1 1						2>1			
IBM 1401	1 1	1 1										
IBM 360/30						1			1			

CTL 2   TYPE 9   LEVEL 1

SAMPLE SIZE 6   POP. SIZE 7

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
CDC LGP 30	1 1		1 1									
IBM 1620						1		1				

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE X   LEVEL 1

COMBINED SAMPLE SIZE 82   POP.SIZE 428

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	72	33	33		5	145	16		5	5			
IBM 1401	5	5					5	39	16	22			
IBM 1440	5		5					11	11				
BUR 204	2	2				64							
IBM 360/20								22	5	16			
IBM 1130								16	5	11			
IBM 360/30								11	5	5		5	
HON 1200								5	5				

CTL 1   TYPE X   LEVEL 2

COMBINED SAMPLE SIZE 27   POP.SIZE 92

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	10	5	5		4	155	1		1				
IBM 1401	4	4	4			100							
CDC LGP 30	1		1										
CDC G-15								4	4				
IBM 1130								9	4	5			

CTL 1   TYPE X   LEVEL 3

COMBINED SAMPLE SIZE   62   POP.SIZE   188

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	77	52	11	12	165	24	3	3					
IBM 1440	6	6			60	3	3		3				
IBM 1460	3	3			300	3							
IBM 1620II	3	3			160	3							
CDC G-15	2		1		140	1							
IBM 1401	2	2		1	130	1	20	16		3			
IBM 7040	1			1	160								
BUR 205	1		1		100								
MIT							1		1				
CDC 3100							1	1					
HUN 200							8	1	7				
IBM 360/50							6	1		3	3		
HON 1200							3	3					
RCA 70/45							3	3		3			
IBM 1130							17	10	6				
IBM 360/30							4	1			3		
IBM 360/40							11	4	6		6		

CTL 1   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 123   POP.SIZE 132

PUPULATION ESTIMATES

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME UF CUMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	94	55	23	15	261	29							
IBM 1401	60	43	10	5	291	20	5	5	1				
IBM 7040	24	19	1	4	267	11	5	5	1	3			
IBM 7094	12	4	2	5	428	6							
IBM 1620II	12	11		1	314	5							
IBM 1410	11	11		1	406	8							
CDC 1604	5		5		381								
IBM 709	5	5	4	1	327	3							
IBM 1460	5	5			324	1	2		1	1			
IBM 1710	2	4			247								
CDC LGP 30	5		4	1	101								
IBM 7074	4	3	1		490	4							
SDS 910	4	1	3		352								
CDC 3600	4		3		284								
CDC 160A	4	1	2	1	232	1	1			1			
CDC 160	3		3	1	412	1							
SDS 930	3	1	1	1	400		2						
CDC RP4000	3		3		291				2	1			
IBM 7044	3	3			242	1	2	1		1			
CDC 8090	3	2	1		176								
PDP 7	2	2		2	500		1	1	1				
UNI 418	2			2	500								
UNI SS80	2				488	1							
PDP 6	2		1	1	250								
BUR 220	2	1	2		197	1							
PDP 5	2		1		190								
CDC 3200	2	2	2		75	2							
BUR 5500	2			2	63		1	1	1	1			
IBM 7072	1		2		600	1				1			
TRW 300	1			1	500								
IBM 7090	1	1	1		470	1							
ILL IAC II	1		1		400								
SDS 920	1	1	1		400								
GEC 225	1		1		320								
ILL CSX I	1		1		300								
TRW 400	1		1		300								

CTL 1   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 123   POP.SIZE 132

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
UNI 1105	1		1		257	1							1
CDC 3100	1	1			250				1	1			
PDP 8	1	1			240		2	2	1				
ALW III-E	1		1		200		4	1					1
IBM 360/30	2	1	1		190		12	1	7	3			
IBM 1440	1	1	1		176		1		1	1			
CYC LONE	1		1		164				1	1			
CDC G-20	1	1			130								
IBM 130	1	1	1	1	120		3		1	2			
PDP 4	1				120								
MON XI	1	1	1		100	1		1					
UNI 1004	1	1	1		84		1	1					
GEC PK4000	1	1	1		80								
CDC 3400	1	1	1		60								
UNI 1107	1	1	1		55								
DEC LINC	1	1	1		50								
IBM 797	1	1	1		40								
PAB 250	1	1	1		40								
PHI 211	1	1	1										
CDC 924	1	1	1										
BUR 205	1	1	1	1		1							
BUR 5500TS	1						1		1				
UNI 1108II							1	1	1	1			
IBM 360/67							15		3	4	7		
CDC 3300							4	1	1	2			
CDC 1700							2		1	1			
CDC 6600							2		2				
IBM 360/65							4	1	1	1			
IBM 360/40							28		15	8	3		
IBM 360/50							16		7	5	3		
IBM 360/44							4		2	2	3		
IBM 360/20							1			1			
HUN 2200							1	1					
TUC 1/3							2		2	1			
SDS 925							1		1				
IBM 1500							2			2			

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CONTRACT NSF C465

CTL 1   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 123   POP.SIZE 132

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER   NO.INSTLD   NO.LEASED   NO.PURCH.   NO.BOTH   USE REPL.   ON ORDER   POPULATION ESTIMATES

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1800	2							1	1			
IBM 704	1							1				
GEC 625	1							1				
GEC 415	1							1				
GEC DN/30	1							1				
CDC 6400	3							2				
IBM 360/75	2							1	1			
IBM 360/90	1								1			

CTL 1   TYPE X   LEVEL 5

COMBINED SAMPLE SIZE 1   POP.SIZE 2

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER   NO.INSTLD   NO.LEASED   NO.PURCH.   NO.BOTH   USE REPL.   ON ORDER   POPULATION ESTIMATES

350

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2						2					

CTL 2   TYPE X   LEVEL 1

COMBINED SAMPLE SIZE 59   POP.SIZE 260

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
NAME OF COMPUTER   NO.INSTLD   NO.LEASED   NO.PURCH.   NO.BOTH   USE REPL.   ON ORDER   POPULATION ESTIMATES

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
CDC LGP 30	1						1					
IBM 1620							1	1				

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CTL 2   TYPE X   LEVEL 2   COMBINED SAMPLE SIZE 115   POP.SIZE 702

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
						POPULATION ESTIMATES						
IBM 1620	39	11	27	190			6			6			
BUR 205	12		12	91									
CDC LGP 30	6		6										
MCD	6												
IBM 1130							9		6	3			
IBM 1401							6			6			
IBM 360/44							6				6		
TSH FS1440							6						6
BUR 101E							6						6

CTL 2   TYPE X   LEVEL 3   COMBINED SAMPLE SIZE 96   POP.SIZE 278

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
						POPULATION ESTIMATES						
IBM 1620	52	36	11	121	5	10	3		3				
CDC LGP 30	7		7	126		3							
NCR 304	3		3	300									
BUR 220	3		3	150			3						
BUR 205	3		3	100		3							
MIT	3												
WDP	3			1									
ALW III	3		3										
IBM 1401	2	2											
CDC G-15	1		1	101			6			6			
MIT 7094	1		1	300		1							
PDP 8			3				3		3				
IBM 360/30			6				6			6			
GEC 215			3				3		3				
UNI SS80			1	1			1			1			
IBM 1130			23				23		13	10			

CTL 2   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 104   PUP.SIZE 137

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	54	31	14	5	261	16							
IBM 1401	36	25	6	4	245	15			1	1			
IBM 7040	11	8		3	331	6		1					
IBM 7094	9	5	1	3	337	5	2		2				
IBM 1410	9	6		3	288	4							
IBM 1620II	6	6			226	6							
CDC 1604	4	1	2	1	261	1							
CDC LGP 30	4	1	3		73								
PDP 7	3	1	2		373		1		1				
CDC 160A	3	1	2		248	1							
IBM 7072	3	1	2		243	1							
UNI 1004	3	3			56	1							
IBM 360/30	2	2	1		600		6		4	2			
IBM 7090	2		1	1	379	1	1		1				
PDP 1	2		1	1	310								
IBM 7044	2	1		1	310	1	1		1				
UNI 1107	2		2		291								
IBM 1710	2	1	1		255	1							
PDP LINC	2		2		250								
BUR 5500	2		2	1	232	1							
GEC 225	2		1		200								
PDP 4	2		2		183								
BUR 220	2		2		179								
IBM 7070	2		1	1	175	1							
BUR 205	2		2	2	171	2							
PDP 5	2		1	1	148								
CDC 3400	2	2			142				1				
CDC G-20	1		1	1	720	1	1		1	1			
ASI 6020	1				600	1	1						
CDC G-21	1		1	1	450								
IBM 1460	1	1			450	1							
IBM 7080	1	1			350								
RIC E	1		1		325								
CDC 6600	1	1		1	300								
MIT TXO	1				300								
IBM 709	1		1		278								

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL 2   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 104   POP.SIZE 137

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

POPULATION ESTIMATES

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	POP	ON ORDER	65	66	67	68	69	UNK
GEC 235	1					250							1
HON 800	1	1				250							
PDP 8	1		1			200	3		3				
IBM 650	1		1			175							
CDC RP4000	1		1			175							
REC DMPIII	1		1			170							
IBM 7074	1			1		150							
HON 400	1		1			150							
MAN IACIII	1		1			103							
UNI 1105	1		1			83							
GEC 235IER	1	1			1	25							
RCA FLACII	1	1			1	10							
GEC 265	1		1		2								
CUK	1		1										
CDC G-15	1	1											
RCA 301	1												
HUN 200	1		1										
BEK 420	1		1										
TSH SDS940							1		1				
GEC 625							1		1				
GEC DNET15							1		1				
IBM 360/50							13		8	4	1		
IBM 360/75							2			2			
IBM 360/91							1					1	
IBM 360/44							4		1	3			
IBM 360/57							5		1	3	1		
IBM 360/40							12		3	6	1		
SDS 930							1	1					
IBM 360/65							3		1				
TUC 1/3							1		1		.2		
HUN 1200							1			1			
CDC 6400							1			1			
LIN C8							1			1			
CDC 8092							1		1				
IBM 1800							4		2	2			
IBM 1130							6		2	4			

CTL 2   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 104   POP.SIZE 137

PUPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
SDS 925	2						1	1				
IBM 360/20	3								2	1		
IBM 1500	1								1			
SDS 9300	1						1					
BUR 5500TS	1							1				
SDS 910	1							1				
GEC 425	1							1				
CDC 8090	1							1				
ASI 6040	1							1				
SDS 940	1							1				
GEC 645	1							1				
CDC 3300	2								2			

CTL X   TYPE X   LEVEL 1

COMBINED SAMPLE SIZE 141   POP.SIZE 688

PUPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	72	33	33		5	145	16	6	6			
IBM 1440	5	5	5					11	11			
IBM 1401	5		5		64			39	16	22		
BUR 204	2		2						16			
CDC LGP 30	1		1			1						
HON 1200								5	5			
IBM 360/30								11	5	11		
IBM 1130								16	5	16		
IBM 360/20								22	5		5	

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CONTRACT NSF C465

CTL X   TYPE X   LEVEL 2   POP.SIZE 794

COMBINED SAMPLE SIZE 142

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

PUPULATION ESTIMATES

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	49	16	28	4	185	7						
BUK 205	12		12		91			1	6			
CDC LGP 30	7		7									
MCD	6											
IBM 1401	4	4			100							
BUK 101E			6			6			6			
TSH FS1440			6			6						6
IBM 360/44			6			6				6		6
IBM 1130			18			18		10	8	6		
CDC G-15			4			4		4				

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 3

COMBINED SAMPLE SIZE 158   POP.SIZE 466

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	129	88	22	17	138	34	6	3	3				
CDC LGP 30	7		7		126	3							
IBM 1440	6	6			60		3		3				
IBM 1401	4	4	4		112	1	26			22			
BUR 205	4		4		100	3					3		
NCR 304	3		3		300								
IBM 1460	3	3	3		300	3							
CDC G-15	3			1	235	2							
IBM 1620II	3		2		160	3							
BUR 220	3	3	3		150								
MIT	3				1								
ALW III	3		3				1		1				
WDP	3												
IBM 7040	1			1	160	1							
MIT 7094	1												
UNI SS80													
GEC 215							1			1			
PDP 8							3		3				
IBM 360/40							11		3	4	6		
IBM 360/30							10			7	3		
IBM 1130							40		19	20			
RCA 70/45							3		3	3			
HUN 1200							3			3			
IBM 360/50							6				3	3	
HUN 200							8		7	1			
CDC 3100							1			1			

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CTL X   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 227   POP.SIZE 269

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.ROTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
					POPULATION ESTIMATES								
IBM 1620	143	86	37	20	261	45							
IBM 1401	96	68	16	9	267	35	6	1	2	3			
IBM 7040	35	27	1	7	299	17	6	6	2				
IBM 7094	21	9	3	8	381	11	2		2				
IBM 1410	20	17		3	345	12							
IBM 1620II	18	17		1	269	11							
CDC 1604	9	1	7	1	319	1							
CDC LGP 30	9	1	7	1	86								
IBM 1710	7	5	1		251								
CDC 160A	7	2	4	1	240	1	1			1			
IBM 1460	6	6			388	2	2		1	1			
IBM 709	6		5	1	302	3							
PDP 7	5	1	4		435		2		2				
IBM 7074	5	3	1	1	316	4	2						
IBM 7044	5	4		1	275	1	3	1	1	1			
IBM 7072	4	1	2	1	418	2							
SDS 910	4	1	3		352		1		1	1			
CDC 3600	4		3	1	284								
CDC MP4000	4		4		231								
BUR 220	4	1	3	1	187	1							
PDP 5	4		3		168	1	1		1	1			
BUR 5500	4		1	1	149	1	1	1					
UNI 1004	4	3	1		69	1							
IBM 7090	3	1	3	1	423	2							
CDC 160	3		3		412								
SDS 930	3	1	1	1	400		3		3				
IBM 360/30	3	3	2		398	18	1	11	5	1	1	
GEC 225	3		2	1	258	1							
CDC 8090	3	2	1		176	1	1		1	1			
UNI 1107	3	1	2		175								
BUR 205	3	1	2		171	3							
PDP 4	3		2	1	152								
CDC G-20	3		2		130	1	1		1				
CDC 3400	3	3			101								
UNI 418	2			2	500								
UNI SS80	2		1		488								

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CONTRACT NSF C465

CTL X   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 227   POP.SIZE 259

PUPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO. INSTLD	NO. LEASED	NO. PURCH.	NO. BOTH	USE	REPL.	POP. SIZE	ON ORDER	65	66	67	68	69	UNK
PDP 1	2			1			310		1					
PDP LINC	2		2				250							
PDP 6	2		2				250							
PDP 8	2		2				219	7	2	2	4			1
IBM 7070	2	1	1	1			175							
UNI 1105	2		1	2			168							
CDC 3200	2	2		2			75							
ASI 6020	1			1			720	1	1		1			
CDC G-21	1		1				600							
TRW 300	1	1	1				500							
IBM 7080	1	1		1			450							
SDS 920	1	1		1			400							
ILL IAC II	1		1				400							
RIC E	1	1	1				350							
CDC 6600	1	1					325	2	2					
MIT TXU	1				1		300	2		2				
TRW 400	1	1					300							
ILL CSX I	1	1	1				300							
HUN 800	1	1	1				250							
GEC 235	1	1		1			250							
CDC 3100	1	1		1			250							
ALW III-E	1	1	1				200	2	1	1				
IBM 1440	1	1	1				176	1		1				
IBM 650	1		1				175							
REC UMPIII	1		1				170							
CYC LONE	1			1			164							
HUN 400	1		1				150							
IBM 1130	1	1					120	9		3	6			
MAN IACIII	1						103							
MUN XI	1	1	1				100							
GEC PK4000	1		1				80							
DEC LINC	1		1				50							
PAB 250	1		1				40							
IBM 797	1		1				40							
GEC 235TER	1	1		1			25							
RCA FLACII	1	1		1			10							

CTL X   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 227   POP.SIZE 269

POPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
BEK 420	1												
HON 200	1												
RCA 301	1		2										
CDC G-15	1												
CDH	1												
GEC 265	1			1									
CDC 924	1												
PHI 211	1												
GEC 645	1												
SDS 940	1												
ASI 6040							1		1				
GEC 425							1		1				
SDS 9300							1	1	1				
CDC 8092							1	1					
LIN C8							1		1	1			
HON 1200							1		1	1			
IBM 360/91							1				1		
GEC DNET15							1		1				
TSH SDS940							1		1	1			
IBM 360/90							1						1
IBM 360/75							4		1	3			
CDC 3400							4		2	2			
GEC DN/30							1		1				
GEC 415							1		1				
GEC 625							2		2				
IBM 704							1		1				
IBM 1800							6		3	3			
IBM 1500							3		3	3			
SDS 925							3	1	2				
TUC 1/3							3		3				
HON 2200							1	1					
IBM 360/20							4		3		1		
IBM 360/44							6		3	5	1	1	
IBM 360/50							29	2	15	9	4		
IBM 360/40							40	2	18	14	4	4	
IBM 360/65							7	1	1	1	5	1	

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 227   POP.SIZE   269

PUPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF CUMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
CDC 1700	2								1	1			
CDC 3300	6							1	1	4			
IBM 360/67	20								4	7	8		
UNI 1108II	1									1			
BUK 5500TS	2								2				

CTL X   TYPE X   LEVEL 5

COMBINED SAMPLE SIZE 1   POP.SIZE   2

PUPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF CUMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	2	2				350							2

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

PUPULATION ESTIMATES

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END UF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
IBM 1620	400	225	120	46	172	95	19	3	10	6			
IBM 1401	109	81	16	9	133	41	77	1	18	53	3		
IBM 7040	36	27	1	8	210	17	6	6					
CDC LGP 30	24	1	22	1	111	4							
IBM 7094	21	9	3	8	381	11	2		2				
IBM 1620II	21	20		1	199	14							
IBM 1410	20	17		3	345	12							
BUR 205	19	1	18		107	6							
IBM 1440	12	7	5		102		15		15				
IBM 1460	9		5		332	5	2		1				
CDC 1604	9	1	7	1	319	1				1			
IBM 1710	7	5	1		251								
CDC 160A	7	2	4	1	240	1	1			1			
BUR 220	7		6	1	163	1							
IBM 709	6	1	5	1	302	3							
MCU	6												
PDP 7	5	1	4		435		2		2				
IBM 7074	5	3	1	1	316	4	3						
IBM 7044	5	4	1	1	276	1	1	1	1	1			
IBM 7072	4	1	2	1	418	2							
SDS 910	4	1	3		352		1		1				
CDC 3600	4		3	1	284								
CDC G-15	4	3	3	1	235	2	4		4				
CDC RP4000	4		4	1	231								
PDP 5	4		3	1	168								
BUR 5500	4		4		149	1	1	1		1			
UN1 1000	4	3	1		69	1	1						
IBM 7090	3	1	1		423	2			1				
CDC 160	3		3		412								
SDS 930	3	1	1	1	400		3		3				
IBM 360/30	3	3	3	1	398		39	1	16	12	4	5	
NCR 304	3		3		300								
GEC 225	3		2	1	258								
CDC 8090	3	2	1		176	1	1		1				
UN1 1107	3		2		175								
PDP 4	3	1	2	1	152								

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):
PUPULATION ESTIMATES

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL.	ON ORDER	65	66	67	68	69	UNK
CDC G-20	3		2		130	1	1	1	1				
CDC 3400	3	3			101	1	1	1	1				
MIT III	3		3		1		1						
ALW III	3		3										
WDP	3		3										
UNI 418	2		1		500	2							
UNI SS80	2		1		488	1	1			1			
PDP 1	2		1		310								
PDP LINC	2		2		250								
PDP 6	2		2		250								
PDP 8	2		2		219		10	2	7				1
IBM 7070	2	2	1		175	1	1						
UNI 1105	2	2	1		168	2							
CDC 3200	2	2			75	2							
AUR 204	2		2		64		1			1			
ASI 6020	1		1		720	1	1			1			
CDC G-21	1		1		600								
TRW 300	1	1	1		500								
IBM 7080	1	1			450								
SDS 920	1	1	1		400								
ILL IAC II	1		1		400								
RIC E	1		1		350								
CDC 6600	1	1	1		325	2	2		2				
MIT TXU	1		1		300								
TRW 400	1		1		300	1							
ILL CSX I	1		1		300								
HUN 800	1		1		250								
GEC 235	1	1	1		250	1							
CDC 3100	1	1	1		250	3	3	1	1	1			
ALW III-E	1		1		200								
IBM 650	1		1		175								
REC UMPIII	1		1		170	1							
CYC LUNE	1		1		164								
HUN 400	1		1		150								
IBM 1130	1	1			120	83	83		37	45			
MAN IACIII	1	1	1		103								

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

ITEM 1-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

PUPULATION ESTIMATES

NAME OF COMPUTER	NO.INSTLD	NO.LEASED	NO.PURCH.	NO.BOTH	USE	REPL. ON ORDER	65	66	67	68	69	UNK
MON XI	1	1			100			1				1
GEC PK4000	1				80							
DEC LINC	1		1		50							
PAH 250	1		1		40							
IBM 797	1		1		40							
GEC 235IER	1	1		1	25							
RCA FLACII	1		1		10							
BEK 420	1		1									
RCA 301	1	1										
CUR	1											
GEC 265	1		1			1						
CDC 924	1		1									
PHI 211	1		1									
MII 7094	1											
HUN 200	1		1			8		7	1			
GEC 645						1		1				
SDS 940						1		1				
ASI 6040						1		1				
GEC 425						1		1				
SDS 9300						1	1					
CDC 8092						1		1	1			
LIN CR						1						
IBM 360/91						1		1			1	
GEC DNET15						1		1				
TSH SDS940						1		1				
IBM 360/90						1		1	1			
IBM 360/75						4		1	3			
CDC 6400						4		2	2			
GEC DN/30						1		1				
GEC 415						1		1				
GEC 625						2		2				
IBM 704						1		1				
IBM 1800						6		3	3			
IBM 1500						3			3			
SDS 925						3	1	2				
TUC 1/3						3		3				

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP.SIZE 2219

PUPULATION ESTIMATES

ITEM I-A COMPUTERS INSTALLED AND ON ORDER BY END OF REPORTING PERIOD (USUALLY 6-30-65):

NAME OF COMPUTER NO.INSTLD NO.LEASED NO.PURCH. NO.BOTH USE REPL. ON ORDER 65 66 67 68 69 UNK

NAME OF COMPUTER	ON ORDER	65	66	67	68	69	UNK
HON 2200	1	1					
IBM 360/65	7		1	1	5		
CDC 1700	2		1	1			
CDC 3300	6	1	1	4			
IBM 360/67	20		4	7	8		
UNI 1108II	1			1			
BUR 5500TS	2		2				
GEC 215	3		3				
IBM 360/40	51	2	18	18	10	1	
RCA 70/45	3		3	3			
IBM 360/50	35		15	9	7	3	
BUR 101E	6						6
TSH FS1440	6						6
IBM 360/44	14		3	5	6		
HUN 1200	9		5	4			
IBM 360/20	26		5	19	1		

V. Degree Programs in Computer Science and Related Areas
by Level and Number of Students Being Trained

Sample values and population estimates are presented for each stratum and groups of strata containing a

sufficient amount of information to warrant publication.

The Business Data Processing line for stratum 1 2 2 is read as follows: 2 Associate and 1 Bachelor's degree

programs were reported in the sample of 12 institutions. The sampling ratio is 4 (= 48 ÷ 12). Therefore, population

estimates for the strata are 8 Associate and 4 Bachelor's degree programs.

Strata Identification:

CTL = Type of Control

1 = Public
2 = Private

TYPE = Type of Institution

0 = Semiprofessional School
1 = University
2 = Liberal Arts College
4 = Teachers College
5 = Independent Technological School
6 = Theological or Religious School
7 = Other Independent Professional School
8 = Junior College
9 = Technical Institution

LEVEL = Highest Level of Offering

1 = Two to Four Years beyond 12th Grade
2 = Bachelor's and/or First Professional Degree
3 = Master's and/or Second Professional Degree
4 = Doctor of Philosophy or Equivalent Degree
5 = Other

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                CTL 1    TYPE 1         LEVEL 4
                   SAMPLE SIZE 97     POP. SIZE 106
                SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

Each cell shows **sample / population** (left column / right column).

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65 ASSOC.	BACH.	MAST.	DOCT.	ADDITIONAL LEVELS PLANNED ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		3 / 3	7 / 7	5 / 5	2 / 2	30 / 32	33 / 35	16 / 17
INFORMATION SCIENCES			2 / 2			1 / 1	2 / 2	4 / 4
BUSINESS DATA PROCESSING	1 / 1		2 / 2	1 / 1	4 / 4	2 / 2	1 / 1	1 / 1
SCIENTIFIC DATA PROCESSING					1 / 1			
SUBTOTAL	1 / 1	3 / 3	11 / 11	6 / 6	7 / 7	33 / 35	36 / 38	21 / 22
OPTIONS IN:								
MATHEMATICS		4 / 4	6 / 6	4 / 4		3 / 3	3 / 3	
ELECTRICAL ENGINEERING		3 / 3	6 / 6	4 / 4				
APPLIED SCIENCE			1 / 1			1 / 1	1 / 1	1 / 1
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES		1 / 1	1 / 1	1 / 1				
QUANTITATIVE ANALYSIS			1 / 1					
SYSTEMS ENGINEERING		1 / 1	1 / 1	1 / 1				
MACHINE COMPUTERS								
SYSTEMS ANALYSIS			1 / 1					
ADMINISTRATIVE SCIENCE						1 / 1		
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS						1 / 1	1 / 1	
INDUSTRIAL ENGINEERING		1 / 1	1 / 1	1 / 1				
STATISTICS			1 / 1					
SUBTOTAL		10 / 10	17 / 17	11 / 11		5 / 5	5 / 5	1 / 1
TOTAL	1 / 1	13 / 13	28 / 28	17 / 17	7 / 7	38 / 40	41 / 43	22 / 23

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE 1964-5	1968-9	GRADUATE 1964-5	1968-9
COMPUTER SCIENCE MAJORS	352 / 416	4168 / 4543	347 / 378	2080 / 2267
OTHER MAJORS (*)	47241 / 51492	159035 / 173348	12465 / 13586	35230 / 38400
TOTAL	47623 / 51908	163203 / 177891	12812 / 13964	37310 / 40667

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 2   LEVEL 2
SAMPLE SIZE 12   POP. SIZE 48
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES					1			4
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING	2	8	1	4				
SCIENTIFIC DATA PROCESSING								
SUBTOTAL	2	8	1	4	1			4
OPTIONS IN:								
MATHEMATICS			1	4				
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL			1	4				
TOTAL	2	8	2	8	1			4

ITEM I-B(3)   NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	15	60	50	200
OTHER MAJORS (*)	270	1080	845	3380
TOTAL	285	1140	895	3580

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

CTL 1   TYPE 2   LEVEL 3
SAMPLE SIZE 18   POP. SIZE 60
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES								
INFORMATION SCIENCES			1	3	1 3	6 19	2	6
BUSINESS DATA PROCESSING						1		
SCIENTIFIC DATA PROCESSING						3		
SUBTOTAL			1	3	1 3	7 22	2	6
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING						1		3
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE		1		3				
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL		1		3		1		3
TOTAL		1 3	1	3	1 3	8 25	2	6

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE				GRADUATE			
	1964-5		1968-9		1964-5		1968-9	
COMPUTER SCIENCE MAJORS	30	99	302	1005	7	23	80	266
OTHER MAJORS (*)	2717	9047	6790	22610	170	566	615	2047
TOTAL	2747	9146	7092	23615	177	589	695	2313

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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CTL 1      TYPE 2           LEVEL 4
   SAMPLE SIZE 7         POP. SIZE 7
SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65 ASSOC. BACH. MAST. DOCT.	ADDITIONAL LEVELS PLANNED ASSOC. BACH. MAST. DOCT.
COMPUTER SCIENCES		1 1 2 2 2
INFORMATION SCIENCES		
BUSINESS DATA PROCESSING		
SCIENTIFIC DATA PROCESSING		
SUBTOTAL		1 1 2 2 2
OPTIONS IN:		
MATHEMATICS		
ELECTRICAL ENGINEERING		
APPLIED SCIENCE		
LINGUISTICS		
SYSTEMS & COMMUNIC SCIENCES		
QUANTITATIVE ANALYSIS		
SYSTEMS ENGINEERING		
MACHINE COMPUTERS		
SYSTEMS ANALYSIS		
ADMINISTRATIVE SCIENCE		
MANAGEMENT SCIENCE		
INFORMATION SYSTEMS		
INDUSTRIAL ENGINEERING		
STATISTICS		
SUBTOTAL		
TOTAL		1 1 2 2 2

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS		180		65
OTHER MAJORS (*)	435	2250	107	500
TOTAL	435	2430	107	565

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

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                    CTL 1      TYPE 4        LEVEL 3
                    SAMPLE SIZE 33      POP. SIZE 116
                    SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES								
INFORMATION SCIENCES							4	14
BUSINESS DATA PROCESSING	1	3			2	7		
SCIENTIFIC DATA PROCESSING								
SUBTOTAL	1	3			2	7	4	14
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL	1	3			2	7	4	14

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE				GRADUATE			
	1964-5		1968-9		1964-5		1968-9	
COMPUTER SCIENCE MAJORS			30	105				
OTHER MAJORS (*)	1069	3752	4461	15658	329	1154	1160	4071
TOTAL	1069	3752	4491	15763	329	1154	1160	4071

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

```
              CTL 1    TYPE 4    LEVEL 4
              SAMPLE SIZE 5      POP. SIZE 5
              SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		1	1				1	1
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING								
SCIENTIFIC DATA PROCESSING								
SUBTOTAL		1					1	1
OPTIONS IN:								
MATHEMATICS		1	1					
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL		1	1					
TOTAL		2	2				1	1

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE				GRADUATE			
	1964-5		1968-9		1964-5		1968-9	
COMPUTER SCIENCE MAJORS	30	30	65	65	12	12	35	35
OTHER MAJORS (*)	450	450	2785	2785	286	286	3170	3170
TOTAL	480	480	2850	2850	298	298	3205	3205

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

```
                CTL 1    TYPE 5      LEVEL 3
                SAMPLE SIZE 6        POP. SIZE 7
           SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES						2	2	
INFORMATION SCIENCES						1	1	
BUSINESS DATA PROCESSING						1	1	
SCIENTIFIC DATA PROCESSING								
SUBTOTAL						4	4	
OPTIONS IN:								
MATHEMATICS						1	1	
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIEN E								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL						1	1	
TOTAL						5	5	

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS (*)		50 / 58	16 / 16	18 / 18
OTHER MAJORS (*)	3080 / 3572	4850 / 5626		
TOTAL	3080 / 3572	4900 / 5684	16 / 16	18 / 18

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

```
CTL 1    TYPE 5      LEVEL 4
      SAMPLE SIZE 6      POP. SIZE 6
  SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES						1	1	1
INFORMATION SCIENCES			1	1				1
BUSINESS DATA PROCESSING								
SCIENTIFIC DATA PROCESSING			1	1		1	1	1
SUBTOTAL								
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL			1	1	1	1	1	1

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE				GRADUATE			
	1964-5		1968-9		1964-5		1968-9	
COMPUTER SCIENCE MAJORS			25	25	20	20	70	70
OTHER MAJORS (*)	1833	1833	5450	5450	400	400	1090	1090
TOTAL	1833	1833	5475	5475	420	420	1160	1160

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

```
            CTL 1     TYPE 8        LEVEL 1
               SAMPLE SIZE 71       POP. SIZE 400
            SAMPLE(LEFT COLUMN)     POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES					1	5		
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING		12	67			11	61	
SCIENTIFIC DATA PROCESSING						2	11	
SUBTOTAL		12	67			14	77	
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTE								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL		12	67			14	77	

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE				GRADUATE			
	1964-5		1968-9		1964-5		1968-9	
COMPUTER SCIENCE MAJORS	503	2831	1615	9092	14	78	18	101
OTHER MAJORS (+)	1166	6564	2295	12920	160	900	300	1689
TOTAL	1669	9395	3910	22012	174	978	318	1790

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

```
           CTL 2    TYPE 1         LEVEL 3
         SAMPLE SIZE 9           POP. SIZE 9
       SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES					1	1	2	2
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING								
SCIENTIFIC DATA PROCESSING								
SUBTOTAL					1	1	2	2
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL					1	1	2	2

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS		50		210
OTHER MAJORS (*)	720	2990	43	460
TOTAL	720	3040	43	670

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

```
          CTL 2     TYPE 1      LEVEL 4
        SAMPLE SIZE 61         POP. SIZE 65
        SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES	4 4	4 6	6 6	7 7	1 1	6 6	8 8	8 8
INFORMATION SCIENCES	2 2	2 2	5 5	4 4			2 2	2 2
BUSINESS DATA PROCESSING	2 2	1 1	1 1			1 1		
SCIENTIFIC DATA PROCESSING								
SUBTOTAL	2 2	7 7	12 12	11 11	1 1	7 7	10 10	10 10
OPTIONS IN:								
MATHEMATICS		1 1	1 1	1 1	1 1	2 2	1 1	1 1
ELECTRICAL ENGINEERING		2 2	2 2	2 2		1 1	1 1	1 1
APPLIED SCIENCE								
LINGUISTICS		1 1	1 1	1 1				
SYSTEMS & COMMUNIC SCIENCES		1 1	1 1	2 2				
QUANTITATIVE ANALYSIS		1 1	2 2	1 1				
SYSTEMS ENGINEERING								
MACHINE COMPUTERS		1 1	1 1	1 1			1 1	1 1
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE			2 2	1 1			1 1	1 1
INFORMATION SYSTEMS							1 1	
INDUSTRIAL ENGINEERING								
STATISTICS		1 1	1 1	1 1	1 1	1 1	1 1	1 1
SUBTOTAL		6 6	10 10	8 8	1 1	4 4	4 4	5 5
TOTAL	2 2	13 13	22 22	19 19	2 2	11 11	14 14	15 15

ITEM I-B(3)   NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	292 309	960 1017	720 763	1945 2061
OTHER MAJORS (*)	17145 18173	46682 49482	9056 9599	21442 22728
TOTAL	17437 18482	47642 50499	9776 10362	23387 24789

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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CTL 2   TYPE 2   LEVEL 3
SAMPLE SIZE 55   POP. SIZE 172
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		1	3				1	3
INFORMATION SCIENCES			1	3				
BUSINESS DATA PROCESSING								
SCIENTIFIC DATA PROCESSING								
SUBTOTAL		1	3	1	3		1	3
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL		1	3	1	3		1	3

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE				GRADUATE			
	1964-5		1968-9		1964-5		1968-9	
COMPUTER SCIENCE MAJORS	100	312	240	748			5	15
OTHER MAJORS (*)	1421	4433	3947	12314	113	352	360	1123
TOTAL	1521	4745	4187	13062	113	352	365	1138

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

CTL 2   TYPE 2   LEVEL 4
SAMPLE SIZE 20   POP. SIZE 22
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES					2	2	1	1
INFORMATION SCIENCES			1	1		1		1
BUSINESS DATA PROCESSING					1	1		
SCIENTIFIC DATA PROCESSING								
SUBTOTAL			1	1	3	3	1	1
OPTIONS IN:								
MATHEMATICS			2	2	1	1		
ELECTRICAL ENGINEERING				2				
APPLIED SCIENCE				2				
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS						1	1	1
INDUSTRIAL ENGINEERING							1	1
STATISTICS								
SUBTOTAL			2	2	1	1	1	1
TOTAL			3	3	4	4	2	2

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS		26 ... 28	14 ... 15	54 ... 59
OTHER MAJORS (*)	2021 ... 2021	6175 ... 6792	346 ... 380	937 ... 1030
TOTAL	2223 ... 2223	6201 ... 6820	360 ... 395	991 ... 1089

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

```
CTL 2     TYPE 5      LEVEL 4
SAMPLE SIZE 7         POP. SIZE 9
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES			1	1			1	1
INFORMATION SCIENCES			1				1	1
BUSINESS DATA PROCESSING	1	1				1		
SCIENTIFIC DATA PROCESSING	1	1				1		
SUBTOTAL	1	1	1	1		1	2	2
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL	1	1	1	1		1	2	2

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

UNDERGRADUATE

	1964-5		1968-9	
COMPUTER SCIENCE MAJORS	35	44	100	128
OTHER MAJORS (*)	6495	8313	12200	15616
TOTAL	6530	8357	12300	15744

GRADUATE

	1964-5		1968-9	
COMPUTER SCIENCE MAJORS	20	25	70	89
OTHER MAJORS (*)	415	531	1450	1856
TOTAL	435	556	1520	1945

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

CTL 1   TYPE X   LEVEL 1
COMBINED SAMPLE SIZE   82   POP. SIZE   428
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES							5	
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING			69				61	
SCIENTIFIC DATA PROCESSING							11	
SUBTOTAL			69				77	
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL			69				77	

ITEM I-B(3)   NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	2958	9454	78	101
OTHER MAJORS (*)	6839	14920	1000	1839
TOTAL	9807	24374	1078	1940

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1 TYPE X LEVEL 2

COMBINED SAMPLE SIZE 27 POP. SIZE 92
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES						4		
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING		8	4					
SCIENTIFIC DATA PROCESSING						4		
SUBTOTAL		8	4					
OPTIONS IN:								
MATHEMATICS			4					
ELECTRICAL ENGINEERING							1	
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL			4				1	
TOTAL		8	8			4	1	

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	60	200		
OTHER MAJORS (*)	1569	4391		
TOTAL	1629	4591		

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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CTL 1   TYPE X   LEVEL 3
COMBINED SAMPLE SIZE 62   POP. SIZE 188
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES			3		3	35		6
INFORMATION SCIENCES						1		
BUSINESS DATA PROCESSING	3					4		
SCIENTIFIC DATA PROCESSING					8			
SUBTOTAL	3		3		11	40		6
OPTIONS IN:								
MATHEMATICS						1		
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING						3		
MACHINE COMPUTERS								
SYSTEMS ANALYSIS		1						
ADMINISTRATIVE SCIENCE		3						
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL		4				4		
TOTAL	3		4	3	11	44		6

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	199	1768	23	306
OTHER MAJORS (*)	17001	45869	1828	6786
TOTAL	17200	47637	1651	7092

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL 1   TYPE X   LEVEL 4
COMBINED SAMPLE SIZE 123   POP. SIZE 132
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		4	7	5	3	36	39	17
INFORMATION SCIENCES			3		1	1	2	5
BUSINESS DATA PROCESSING	1		2		4	2	1	1
SCIENTIFIC DATA PROCESSING					2			
SUBTOTAL	1	4	12	6	9	39	42	23
OPTIONS IN:								
MATHEMATICS		5	6	4		3	3	
ELECTRICAL ENGINEERING		3	6	4				
APPLIED SCIENCE			1			1	1	1
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES		1	1	1				
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING		1	1	1				
MACHINE COMPUTERS								
SYSTEMS ANALYSIS			1			1		
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS						1	1	
INDUSTRIAL ENGINEERING		1	1	1				
STATISTICS								
SUBTOTAL		11	17	11		5	5	1
TOTAL	1	15	29	17	9	44	47	24

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	446	4820	410	2442
OTHER MAJORS (*)	54310	184507	14434	43343
TOTAL	54756	189327	14844	45785

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

CTL 2   TYPE X   LEVEL 1

COMBINED SAMPLE SIZE 59   POP. SIZE 260

PUPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES					1			
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING								
SCIENTIFIC DATA PROCESSING								
SUBTOTAL					1			
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL					1			
TOTAL								

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS				
OTHER MAJORS (*)	268			
TOTAL	268			

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

CTL 2   TYPE X   LEVEL 2
COMBINED SAMPLE SIZE 115   POP. SIZE 702
PUPULATION ESTIMATES

ITEM I-B(1-2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES								
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING								
SCIENTIFIC DATA PROCESSING								
SUBTOTAL								
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL								

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS				
OTHER MAJORS (*)	3513	8876	282	783
TOTAL	3513	8876	282	783

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

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1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL 2   TYPE X   LEVEL 3
COMBINED SAMPLE SIZE 96   POP. SIZE 278
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES			3			2	5	
INFORMATION SCIENCES				3				
BUSINESS DATA PROCESSING					1	1		
SCIENTIFIC DATA PROCESSING								
SUBTOTAL			3	3	1	3	5	
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE						1		
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL						1		
TOTAL			3	3	1	3	6	

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	312	1392		260
OTHER MAJORS (*)	6551	18047	466	1953
TOTAL	6863	19439	466	2213

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

CTL 2   TYPE X   LEVEL 4
COMBINED SAMPLE SIZE 104   POP. SIZE 137
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		4	7	7	1	8	9	9
INFORMATION SCIENCES		2	6	4			3	4
BUSINESS DATA PROCESSING	2	2	1			2		
SCIENTIFIC DATA PROCESSING								
SUBTOTAL	2	8	14	11	1	10	12	13
OPTIONS IN:								
MATHEMATICS			2	2	1	3	1	1
ELECTRICAL ENGINEERING		2	2	2		1	1	1
APPLIED SCIENCE								
LINGUISTICS			1	1				
SYSTEMS & COMMUNIC SCIENCES		1	1	1		1		1
QUANTITATIVE ANALYSIS		1	2	1				
SYSTEMS ENGINEERING								
MACHINE COMPUTERS		1	1	1				1
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE			2	1			2	1
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS		1	1	1			1	1
SUBTOTAL		6	12	10	1	5	5	6
TOTAL	2	14	26	21	2	15	17	19

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	353	1173	803	2209
OTHER MAJORS (*)	28709	71890	10790	26089
TOTAL	29062	73063	11593	28298

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 1
COMBINED SAMPLE SIZE 141   POP. SIZE 688
POPULATION ESTIMATES

ITEM I-B(1-2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES					6			
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING		69			61			
SCIENTIFIC DATA PROCESSING					11			
SUBTOTAL		69			78			
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING								
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL								
TOTAL		69			78			

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	2968	9454	78	101
OTHER MAJORS (*)	6839	15188	1000	1839
TOTAL	9807	24642	1078	1940

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

```
                    CTL X    TYPE X    LEVEL 2
          COMBINED SAMPLE SIZE 142   POP. SIZE 794
                        POPULATION ESTIMATES
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES								4
INFORMATION SCIENCES								
BUSINESS DATA PROCESSING		8	4					
SCIENTIFIC DATA PROCESSING								4
SUBTOTAL		8	4					4
OPTIONS IN:								
MATHEMATICS			4					
ELECTRICAL ENGINEERING							1	
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS								
SYSTEMS ANALYSIS								
ADMINISTRATIVE SCIENCE								
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS								
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL			4				1	
TOTAL		8	8				1	4

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	60	200		
OTHER MAJORS (*)	5082	13267	282	783
TOTAL	5142	13467	282	783

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL X   TYPE X   LEVEL 3
COMBINED SAMPLE SIZE 158   POP. SIZE 466
PUPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65 ASSOC.	BACH.	MAST.	DOCT.	ADDITIONAL LEVELS PLANNED ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES								
INFORMATION SCIENCES			3	3	3	37		11
BUSINESS DATA PROCESSING				3		1.		
SCIENTIFIC DATA PROCESSING	3				9	5		
SUBTOTAL	3		3	6	12	43		11
OPTIONS IN:								
MATHEMATICS								
ELECTRICAL ENGINEERING						1		
APPLIED SCIENCE								
LINGUISTICS								
SYSTEMS & COMMUNIC SCIENCES								
QUANTITATIVE ANALYSIS								
SYSTEMS ENGINEERING								
MACHINE COMPUTERS						3		
SYSTEMS ANALYSIS			1					
ADMINISTRATIVE SCIENCE			3					
MANAGEMENT SCIENCE								
INFORMATION SYSTEMS							1	
INDUSTRIAL ENGINEERING								
STATISTICS								
SUBTOTAL			4			4	1	
TOTAL	3		7	6	12	47	12	

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE 1964-5	1968-9	GRADUATE 1964-5	1968-9
COMPUTER SCIENCE MAJORS	511	3160	23	566
OTHER MAJORS (*)	23552	63916	2294	8739
TOTAL	24063	67076	2317	9305

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL X   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 227   POP. SIZE 269
POPULATION ESTIMATES

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		8	14	12	4	44	48	26
INFORMATION SCIENCES		2	9	4		1	5	9
BUSINESS DATA PROCESSING	3	2	3	1	4	4	1	1
SCIENTIFIC DATA PROCESSING					2			
SUBTOTAL	3	12	26	17	10	49	54	36
OPTIONS IN:								
MATHEMATICS		6	8	6	1	6	4	1
ELECTRICAL ENGINEERING		5	8	6		1	1	1
APPLIED SCIENCE			1	1			1	1
LINGUISTICS			1	1				
SYSTEMS & COMMUNIC SCIENCES		2	2	3				
QUANTITATIVE ANALYSIS		1	2	1				
SYSTEMS ENGINEERING		1	1	1				
MACHINE COMPUTERS		1	1					
SYSTEMS ANALYSIS			1					
ADMINISTRATIVE SCIENCE						1		
MANAGEMENT SCIENCE			2	1				1
INFORMATION SYSTEMS						1	3	1
INDUSTRIAL ENGINEERING		1	1	1				
STATISTICS		1	1	1		1	1	1
SUBTOTAL		17	29	21	1	10	10	7
TOTAL	3	29	55	38	11	59	64	43

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	799	5993	1213	4651
OTHER MAJORS (*)	83019	256397	25224	69432
TOTAL	83818	262390	26437	74083

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE

```
                    CTL X     TYPE X      LEVEL X
         COMBINED SAMPLE SIZE 669      POP. SIZE 2219
                     POPULATION ESTIMATES
```

ITEM I-B(1,2) COMPUTER SCIENCE INSTRUCTION PROGRAMS

NAME OF PROGRAM (USUALLY DEPT.)	LEVEL OFFERED 64-65				ADDITIONAL LEVELS PLANNED			
	ASSOC.	BACH.	MAST.	DOCT.	ASSOC.	BACH.	MAST.	DOCT.
COMPUTER SCIENCES		11	17	12	17	81	59	26
INFORMATION SCIENCES		2	12	4		2	5	9
BUSINESS DATA PROCESSING	83	6	3	1	74	9	1	1
SCIENTIFIC DATA PROCESSING					13			
SUBTOTAL	83	19	32	17	104	92	65	36
OPTIONS IN:								
MATHEMATICS		10	8	6	1	7	4	1
ELECTRICAL ENGINEERING		5	8	6		2	1	1
APPLIED SCIENCE			1	1			1	1
LINGUISTICS			1	1				
SYSTEMS & COMMUNIC SCIENCES		2	2	3		3		
QUANTITATIVE ANALYSIS		1	1	1				
SYSTEMS ENGINEERING		1	1	1				
MACHINE COMPUTERS		1	1					
SYSTEMS ANALYSIS		1	1					
ADMINISTRATIVE SCIENCE		1						1
MANAGEMENT SCIENCE		3	2	1		1	1	1
INFORMATION SYSTEMS						1	3	1
INDUSTRIAL ENGINEERING		1	1	1				
STATISTICS			1	1		1	1	1
SUBTOTAL		25	29	21	1	15	11	7
TOTAL	83	44	61	38	105	107	76	43

ITEM I-B(3) NO. STUDENTS TRAINED TO USE COMPUTERS:

	UNDERGRADUATE		GRADUATE	
	1964-5	1968-9	1964-5	1968-9
COMPUTER SCIENCE MAJORS	4338	18807	1314	5318
OTHER MAJORS (*)	119092	350168	28800	80793
TOTAL	123430	368975	30114	86111

* AT LEAST SOME SKILL IN USING ONE PROGRAMMING LANGUAGE.

VI-A. Estimates by Stratum and Groups of Strata for Sources of Funds,
Operating Expenditures by Cost Item, Number of Personnel, and Capital Expenditures.
(Items II-IV of the Questionnaire)

For each stratum, each grouping of strata by Type of Control and Highest Level of Offering, and all institutions (Group XXX), the entries of Items II-IV of the questionnaire are summarized and the corresponding population estimates given. Sample values are also presented in stratum summaries. For stratum estimates the sample values are presented first and the corresponding population estimates follow to their right on the same line. All dollar amounts are in thousands of dollars and the numbers of personnel are complete as shown.

e.g. For FY65 the 106 public universities offering the doctorate (stratum 1 1 4, Page VI-A-3) sprnt an estimated $42,099,000 for computers for research and instructional uses. They have estimated that they will spend $112,627,000 in FY69 for research and instructional uses. These institutions employed an estimated 2051 persons in such activities during FY65 and expect to employ 3949 during FY69. Capital expenditures for computers in research and instruction are estimated to be $30,983,000 for FY68 and $29,667,000 for FY69.

Strata Identification:

CTL = Type of Control

1 = Public
2 = Private

TYPE = Type of Institution

0 = Semiprofessional School
1 = University
2 = Liberal Arts College
4 = Teachers College
5 = Independent Technological School
6 = Theological or Religious School
7 = Other Independent Professional School
8 = Junior College
9 = Technical Institution

LEVEL = Highest Level of Offering

1 = Two to Four Years Beyond 12th Grade
2 = Bachelor's and/or First Professional Degree
3 = Master's and/or Second Professional Degree
4 = Doctor of Philosophy or Equivalent Degree
5 = Other

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

OTL 1   TYPE 1   LEVEL 3
SAMPLE SIZE 4   POP. SIZE 4
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.								
2. OTHER	4	4			4	4	100	100
TOTAL FED GOVT	4	4			4	4	100	100
B. INSTITUTION	308	308	13	13	321	32(	1725	1725
C. OTHER	3	3			3	3	20	20
D. TOTAL	315	315	13	13	328	328	1845	1845

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		REPORTING PERIOD		1968-69 PROJECTED	
		1968-69 PROJ.				
1. EQUIPMENT RENTALS			111	111	954	954
2. BUILDING SPACE			2	2	14	14
3. OTHER MAINTENANCE						
4. SALARIES AND WAGES						
4A. SYSTEMS AND UTILITY PROG.	3 3	12 12	15	15	103	103
4B. ADMIN AND OTHER PROFESSIONAL	5 5	7 7	42	42	69	69
4C. OTHER	25 25	40 40	70	70	164	164
4 TOTAL SALARIES AND WAGES	33 33	59 59	127	127	336	336
5. OFF-CAMPUS COMPUTING SERVICE						
6. OTHER DIRECT COSTS			22	22	32	32
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			50	50	244	244
TOTAL			312	312	1580	1580

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	12	12			1	1	13	13
1965-66	15	15			4	4	19	19
1966-67	132	132	18	18	1	1	151	151
1967-68	102	102			1	1	103	103
1968-69	255	255			11	11	266	266

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 1   LEVEL 4
SAMPLE SIZE 97   POP. SIZE 106
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	4402	4810	2923	3194	7325	8004	25595	27969
2.OTHER	5809	6347	1949	2129	7758	8477	16812	18371
TOTAL FED GOVT	10211	11158	4872	5324	15083	16482	42407	46341
B.INSTITUTION	15110	16511	4894	5348	20004	21860	51322	56083
C. OTHER	2615	2857	823	899	3438	3756	9336	10202
D. TOTAL	27936	30528	10589	11571	38525	42099	103065	112627

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					9369	10238	32729	35765
2. BUILDING SPACE					352	384	1127	1231
3. OTHER MAINTENANCE					981	1072	1623	1773
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	566	618	1278	1396	3948	4314	10590	11572
4B. ADMIN AND OTHER PROFESSIONAL	325	355	633	691	3220	3518	7584	8287
4C. OTHER	986	1077	1703	1861	4125	4507	7959	8697
4 TOTAL SALARIES AND WAGES	1877	2051	3614	3949	11293	12340	26133	28557
5. OFF-CAMPUS COMPUTING SERVICE					156	170	41	44
6. OTHER DIRECT COSTS					2627	2870	5997	6553
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					3157	3449	8399	9178
TOTAL					27935	30526	76049	83105

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	7769	8489	1344	1468	362	395	9475	10354
1965-66	7121	7781	5047	5515	332	362	12500	13659
1966-67	11891	12994	6817	7449	634	692	19342	21136
1967-68	9003	9838	18121	19802	1229	1343	28353	30983
1968-69	16861	18425	8380	9157	1908	2085	27149	29667

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

GTL 1   TYPE 2   LEVEL 2
SAMPLE SIZE 12   POP. SIZE 48
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.							50	200
2. OTHER								
TOTAL FED GOVT							50	200
B. INSTITUTION	100	400	36	144	136	544	450	1800
C. OTHER	34	136			34	136	25	100
D. TOTAL	134	536	36	144	170	680	525	2100

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
					54	216	167	668
1. EQUIPMENT RENTALS								
2. BUILDING SPACE								
3. OTHER MAINTENANCE					3		3	12
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	2	8	5	20	15	60	27	108
4B. ADMIN AND OTHER PROFESSIONAL	3	12	6	24	22	88	45	180
4C. OTHER	5	20	8	32	17	68	28	112
4 TOTAL SALARIES AND WAGES	10	40	19	76	54	216	100	400
5. OFF-CAMPUS COMPUTING SERVICE								
6. OTHER DIRECT COSTS					3	12	9	36
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					23	92	54	216
TOTAL					134	536	333	1332

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	30	120			6	24	36	144
1965-66	85	340			11	44	96	384
1966-67	30	120			3	12	33	432
1967-68	85	340			10	40	95	380
1968-69	180	720			12	48	192	768

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL 1   TYPE 2   LEVEL 3
SAMPLE SIZE 18   POP. SIZE 60
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	42	139			42	139	250	833
2.OTHER							65	216
TOTAL FED GOVT	42	139			42	139	315	1049
B.INSTITUTION	919	3063	26	86	945	3149	3226	10753
C. OTHER	40	133			40	133	78	259
D. TOTAL	1001	3336	26	86	1027	3423	3619	12063

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					333	1109	1088	3626
2. BUILDING SPACE					3	9	177	589
3. OTHER MAINTENANCE					6	19	13	43
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	6	19	33	109	56	186	262	873
4B. ADMIN AND OTHER PROFESSIONAL	9	29	20	66	96	319	229	763
4C. OTHER	30	99	58	193	120	399	283	943
4 TOTAL SALARIES AND WAGES	45	149	111	369	272	906	774	2579
5. OFF-CAMPUS COMPUTING SERVICE								
6. OTHER DIRECT COSTS					33	109	72	239
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					142	473	428	1426
TOTAL					789	2629	2552	8506

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	98	326	131	436	11	36	240	799
1965-66	25	83	8	26	11	36	44	146
1966-67	69	229	258	659	30	99	357	1189
1967-68	87	289	50	166	32	106	169	563
1968-69	735	2449	285	949	49	163	1069	3563

CTL 1   TYPE 2   LEVEL 4
SAMPLE SIZE 7   POP. SIZE 7
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II   BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.	10	10			10	10	440	440
2. OTHER							220	220
TOTAL FED GOVT	10	10			10	10	660	660
B. INSTITUTION	920	920	35	35	955	955	3454	3454
C. OTHER	27	27			27	27	410	410
D. TOTAL	957	957	35	35	992	992	4524	4524

ITEM III   CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					426	426	2320	2320
2. BUILDING SPACE					55	55	192	192
3. OTHER MAINTENANCE					13	13	37	37
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	9	9	42	42	91	91	396	396
4B. ADMIN AND OTHER PROFESSIONAL	13	13	40	40	134	134	468	468
4C. OTHER	20	20	57	57	100	100	342	342
4 TOTAL SALARIES AND WAGES	42	42	139	139	325	325	1206	1206
5. OFF-CAMPUS COMPUTING SERVICE					1	1	30	30
6. OTHER DIRECT COSTS					80	80	261	261
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					57	57	316	316
TOTAL					957	957	4362	4362

ITEM IV   CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65					5	5	5	5
1965-66					20	20	20	20
1966-67	20	20	300	300	23	23	343	343
1967-68	310	310	250	250	137	137	697	697
1968-69	90	90	20	20	52	52	162	162

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 4   LEVEL 2
SAMPLE SIZE 9   POP. SIZE 37
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.				
2.OTHER				
TOTAL FED GOVT				
B.INSTITUTION	1 4		1 80	328
C. OTHER				
D. TOTAL	1 4		1 80	328

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER 1968-69 PROJ.		REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			35	143
2. BUILDING SPACE				
3. OTHER MAINTENANCE				
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	1		15	61
4B. ADMIN AND OTHER PROFESSIONAL	1 4		14	57
4C. OTHER	2 8		29	119
4 TOTAL SALARIES AND WAGES	3 12		2	8
5. OFF-CAMPUS COMPUTING SERVICE	1	4		
6. OTHER DIRECT COSTS				
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			14	57
TOTAL	1	4	80	328

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65				
1965-66				
1966-67	1		4 1	4
1967-68				
1968-69				

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 4   LEVEL 3
SAMPLE SIZE 33   POP. SIZE 116
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT,	22	77	27	94	49	172	213	748
2.OTHER							26	91
TOTAL FED GOVT	22	77	27	94	49	172	239	840
B.INSTITUTION	284	998	65	223	349	1226	1245	4376
C. OTHER	33	116			33	116	157	551
D. TOTAL	339	1191	92	323	431	1515	1641	5768

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS	4	14	21	73	161	565	544	1912
2. BUILDING SPACE	10	35	22	77	3	10	164	576
3. OTHER MAINTENANCE	11	38	46	161	13	45	27	94
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.					24	84	151	530
4B. ADMIN AND OTHER PROFESSIONAL					75	263	182	639
4C. OTHER					36	126	141	495
4 TOTAL SALARIES AND WAGES	25	87	89	312	135	474	474	1666
5. OFF-CAMPUS COMPUTING SERVICE					1	3	1	3
6. OTHER DIRECT COSTS					22	77	75	263
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					46	161	136	478
TOTAL					381	1339	1421	4995

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	10	35	30	105	10	35	50	175
1965-66	31	108			6	21	37	130
1966-67	64	224	5	17	12	42	81	284
1967-68	81	284	2	7	16	56	99	348
1968-69	111	390	58	203	21	73	190	667

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1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT,
CONTRACT NSF C465

CTL 1   TYPE 4   LEVEL 4
SAMPLE SIZE 5   POP. SIZE 5
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.							15	15
2.OTHER								
TOTAL FED GOVT							15	15
B.INSTITUTION	166	166	17	17	183	183	1095	1095
C. OTHER	166	166						
D. TOTAL	166	166	17	17	183	183	1110	1110

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD		1968-69 PROJECTED		NUMBER		1968-69 PROJ.	
1. EQUIPMENT RENTALS	61	61	635	635				
2. BUILDING SPACE	23	23	23	23				
3. OTHER MAINTENANCE								
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	12	12	67	67	4	4	14	14
4B. ADMIN AND OTHER PROFESSIONAL	36	36	153	153	3	3	8	8
4C. OTHER	10	10	33	33	3	3	17	17
4 TOTAL SALARIES AND WAGES	58	58	253	253	10	10	39	39
5. OFF-CAMPUS COMPUTING SERVICE								
6. OTHER DIRECT COSTS	8	8	40	40				
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	25	25	116	116				
TOTAL	175	175	1067	1067				

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	1	3	13	17
1965-66			9	9
1966-67	8		13	21
1967-68	16	56	27	99
1968-69	20	2	21	43

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 5   LEVEL 2
SAMPLE SIZE 5   POP. SIZE 6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.			48	57	48	57		
2.OTHER								
TOTAL FED GOVT			48	57	48	57		
B.INSTITUTION	49	58	3	3	52	62	152	182
C. OTHER			52	62	52	62		
D. TOTAL	49	58	103	123	152	182	152	182

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					24	28	53	63
2. BUILDING SPACE					1		7	8
3. OTHER MAINTENANCE								
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	3	3	2	2	7	8	23	27
4B. ADMIN AND OTHER PROFESSIONAL			5	6	7	8	24	28
4C. OTHER	2	2	6	7			22	26
4 TOTAL SALARIES AND WAGES	5	6	13	15	14	16	69	82
5. OFF-CAMPUS COMPUTING SERVICE							8	9
6. OTHER DIRECT COSTS					4	4	8	9
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					6	7	13	15
TOTAL					49	58	150	180

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	100	120			3	3	103	123
1965-66					2	2	2	2
1966-67	4	4	105	126	16	19	125	150
1967-68					2	2	2	2
1968-69					2	2	2	2

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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                         CTL 1      TYPE 5      LEVEL 3
                       SAMPLE SIZE  6      POP. SIZE  7
                   SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
                         (THOUSANDS OF DOLLARS)
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ITEM II BY SOURCE

BY SOURCE	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.							104	121
2.OTHER	40	46			40	46	71	82
TOTAL FED GOVT	40	46			40	46	175	204
B.INSTITUTION	84	98	2	2	86	100	356	415
C. OTHER			32	37	32	37	22	25
D. TOTAL	124	144	34	39	158	184	553	645

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD		1968-69 PROJECTED		NUMBER		1968-69 PROJ.	
1. EQUIPMENT RENTALS	33	38	324	378				
2. BUILDING SPACE			5	5				
3. OTHER MAINTENANCE	18	21						
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	13	15	65	75	3	3	10	11
4B. ADMIN AND OTHER PROFESSIONAL	16	18	61	71	2	2	5	5
4C. OTHER	19	22	72	84	5	5	15	17
4 TOTAL SALARIES AND WAGES	48	56	198	231	10	11	30	35
5. OFF-CAMPUS COMPUTING SERVICE	2	2	2	2				
6. OTHER DIRECT COSTS	4	4	23	26				
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	19	22	95	110				
TOTAL	124	144	647	754				

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	32	37			2	2	34	39
1965-66					1	1	1	1
1966-67	340	396			86	100	426	497
1967-68					1	1	1	1
1968-69					1	1	1	1

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

GTL 1   TYPE 5   LEVEL 4
SAMPLE SIZE 6   POP. SIZE 6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM I   BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	63	63			63	63	610	610
2.OTHER	221	221			221	221	470	470
TOTAL FED GOVT	284	284			284	284	1080	1080
B.INSTITUTION	362	362	42	42	404	404	4316	4316
C. OTHER	314	314			314	314	471	471
D. TOTAL	960	960	42	42	1002	1002	5867	5867

ITEM III   CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					177	177	1290	1290
2. BUILDING SPACE					5	5	5	5
3. OTHER MAINTENANCE					46	46	87	87
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	6	6	23	23	45	45	253	253
4B. ADMIN AND OTHER PROFESSIONAL	33	33	61	61	350	350	699	699
4C. OTHER	29	29	95	95	135	135	419	419
4 TOTAL SALARIES AND WAGES	68	68	179	179	530	530	1371	1371
5. OFF-CAMPUS COMPUTING SERVICE					1	1	35	35
6. OTHER DIRECT COSTS					43	43	79	79
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					158	158	480	480
TOTAL					960	960	3347	3347

ITEM IV   CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	2	2	33	33	7	7	42	42
1965-66	470	470	1	1	18	18	489	489
1966-67	125	125			34	34	159	159
1967-68	1411	1411	255	255	17	17	1683	1683
1968-69	1492	1492	1001	1001	27	27	2520	2520

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

GTL 1   TYPE 7   LEVEL 4

SAMPLE SIZE 8   POP. SIZE 8

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

(THOUSANDS OF DOLLARS)

ITEM II   BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	144	144	49	49	193	193	630	630
2.OTHER	100	100			100	100	241	241
TOTAL FED GOVT	244	244	49	49	293	293	871	871
B.INSTITUTION	321	321	32	32	353	353	1840	1840
C. OTHER	1	1			1	1	5	5
D. TOTAL	566	566	81	81	647	647	2716	2716

ITEM III   CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					175	175	582	582
2. BUILDING SPACE					2	2	2	2
3. OTHER MAINTENANCE					2	2	2	2
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	13	13	31	31	96	96	241	241
4B. ADMIN AND OTHER PROFESSIONAL	7	7	18	18	54	54	183	183
4C. OTHER	12	12	25	25	68	68	168	168
4 TOTAL SALARIES AND WAGES	32	32	74	74	218	218	592	592
5. OFF-CAMPUS COMPUTING SERVICE					85	85	125	125
6. OTHER DIRECT COSTS					13	13	27	27
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					71	71	198	198
TOTAL					566	566	1528	1528

ITEM IV   CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	29	29	2	2	12	12	43	43
1965-66	81	81	7	7	1	1	89	89
1966-67	348	348	3	3	6	6	357	357
1967-68	133	133	3	3	1	1	137	137
1968-69	383	363	799	799	6	6	1188	1188

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 8   LEVEL 1
SAMPLE SIZE 71   POP. SIZE 400
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.	82	461	66	371	148	833	280	1577
2. OTHER							45	253
TOTAL FED GOVT	82	461	66	371	148	833	325	1830
B. INSTITUTION	496	2794	308	1735	804	4529	1829	10304
C. OTHER	69	388	200	1126	269	1515	300	1690
D. TOTAL	647	3645	574	3233	1221	6878	2454	13825

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					164	923	445	2507
2. BUILDING SPACE					11	61	117	659
3. OTHER MAINTENANCE					21	118	55	309
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	9	50	22	123	52	292	144	811
4B. ADMIN AND OTHER PROFESSIONAL	22	123	50	281	194	1092	452	2546
4C. OTHER	18	101	54	304	60	338	153	861
4 TOTAL SALARIES AND WAGES	49	276	126	709	306	1723	749	4219
5. OFF-CAMPUS COMPUTING SERVICE								
6. OTHER DIRECT COSTS					45	253	105	591
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					100	563	241	1357
TOTAL					647	3645	1712	9645

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	512	2884	24	135	47	264	583	3284
1965-66	216	1216	11	61	43	242	270	1521
1966-67	407	2292	26	146	35	197	468	2636
1967-68	297	1673	8	45	34	191	339	1909
1968-69	686	3864	54	304	63	354	803	4523

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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CTL 1   TYPE 9   LEVEL 1
        SAMPLE SIZE  8      POP. SIZE  20
        SAMPLE(LEFT COLUMN)     POPULATION(RIGHT COLUMN)
                (THOUSANDS OF DOLLARS)
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ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	7	17	150	375	157	392	9	22
2.OTHER								
TOTAL FED GOVT	7	17	150	375	157	392	9	22
B.INSTITUTION	59	147	40	100	99	247	146	365
C. OTHER								
D. TOTAL	66	165	190	475	256	640	155	387

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS			8	20	21	52
2. BUILDING SPACE			4	10	5	12
3. OTHER MAINTENANCE			6	15	10	25
4. SALARIES AND WAGES						
4A. SYSTEMS AND UTILITY PROG.	3	7	7	17	2	5
4B. ADMIN. AND OTHER PROFESSIONAL			23	57	51	127
4C. OTHER			2	5	9	22
4 TOTAL SALARIES AND WAGES	3	7	25	62	62	155
5. OFF-CAMPUS COMPUTING SERVICE					10	25
6. OTHER DIRECT COSTS			3	7	6	15
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			20	50	26	65
TOTAL			66	165	140	350

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	150	375	40	100			190	475
1965-66	43	107	4	10	2	5	49	122
1966-67	3	7	4	10			7	17
1967-68								
1968-69	5	12	5	12	5	12	15	37

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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CTL 2    TYPE 1    LEVEL 3
         SAMPLE SIZE  9    POP. SIZE  9
         SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
                    (THOUSANDS OF DOLLARS)
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ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.	85	85			85	85	185	185
2. OTHER	60	60			60	60	97	97
TOTAL FED GOVT	145	145			145	145	282	282
B. INSTITUTION	178	178	38	38	216	216	1262	1262
C. OTHER	35	35			35	35	80	80
D. TOTAL	358	358	38	38	396	396	1624	1624

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					105	105	197	197
2. BUILDING SPACE					6	6	13	13
3. OTHER MAINTENANCE					7	7	37	37
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	7	7	18	18	37	37	116	116
4B. ADMIN AND OTHER PROFESSIONAL	9	9	19	19	74	74	145	145
4C. OTHER	19	19	36	36	47	47	110	110
4 TOTAL SALARIES AND WAGES	35	35	73	73	158	158	371	371
5. OFF-CAMPUS COMPUTING SERVICE					15	15	25	25
6. OTHER DIRECT COSTS					10	10	35	35
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					55	55	122	122
TOTAL					356	356	800	800

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	36	1	3	40
1965-66	83		7	90
1966-67	167	5	26	198
1967-68	117	305	55	477
1968-69	65	750	9	824

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CTL 2   TYPE 1   LEVEL 4
SAMPLE SIZE 61   POP. SIZE 65
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.	10160	10826	2129	2268	12289	13094	22670	24156
2. OTHER	7385	7869	837	891	8222	8761	23111	24626
TOTAL FED GOVT	17545	18695	2966	3160	20511	21855	45781	48763
B. INSTITUTION	6217	6624	1753	1867	7970	8492	20753	22113
C. OTHER	2295	2445	2635	2807	4930	5253	7091	7555
D. TOTAL	26057	27765	7354	7836	33411	35601	73625	78452

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					9591	10219	28386	30247
2. BUILDING SPACE					796	848	1283	1367
3. OTHER MAINTENANCE					864	920	1602	1707
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	427	455	851	906	3303	3519	7595	8093
4B. ADMIN AND OTHER PROFESSIONAL	314	334	552	588	2899	3089	5869	6253
4C. OTHER	607	646	956	1018	2802	2985	5216	5558
4 TOTAL SALARIES AND WAGES	1348	1436	2359	2513	9004	9594	18680	19904
5. OFF-CAMPUS COMPUTING SERVICE					247	263	175	186
6. OTHER DIRECT COSTS					2595	2765	4416	4705
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					2982	3177	5919	6307
TOTAL					26079	27789	60461	64425

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	3160	3367	1483	1580	256	272	4899	5220
1965-66	5384	5737	2311	2462	365	388	8060	8588
1966-67	7969	8491	4081	4348	577	614	12627	13455
1967-68	3476	3703	4767	5079	393	418	8636	9202
1968-69	7191	7662	5412	5766	561	597	13164	14027

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 2   LEVEL 2
SAMPLE SIZE 81   POP. SIZE 508
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.			44	275	44	275	170	1066
2.OTHER	1	6			1	6		
TOTAL FED GOVT	1	6	44	275	45	282	170	1066
B.INSTITUTION	177	1110	243	1524	420	2634	440	2759
C. OTHER	1	6	60	376	61	382	100	627
D. TOTAL	179	1122	347	2176	526	3298	710	4452

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					43	269	137	859
2. BUILDING SPACE					10	62	16	100
3. OTHER MAINTENANCE					8	50		
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	2	12	6	37	20	125	41	257
4B. ADMIN AND OTHER PROFESSIONAL	3	18	8	50	26	163	72	451
4C. OTHER	9	56	24	150	32	200	70	439
4 TOTAL SALARIES AND WAGES	14	87	38	238	78	489	183	1147
5. OFF-CAMPUS COMPUTING SERVICE							4	25
6. OTHER DIRECT COSTS					21	131	34	213
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					19	119	62	388
TOTAL					179	1122	436	2734

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	280	1756	42	263	25	156	347	2476
1965-66			2	12	1	6	3	18
1966-67	45	282			14	87	59	370
1967-68	256	1605	40	250	13	81	309	1937
1968-69	270	1693			4	25	274	1718

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 2   LEVEL 3
SAMPLE SIZE 55   POP. SIZE 172
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.	18	56	40	125	58	181	449	1404
2. OTHER	4	12			4	12	126	394
TOTAL FED GOVT	22	68	40	125	62	193	575	1798
B. INSTITUTION	466	1457	50	156	516	1613	3487	10904
C. OTHER	119	372	152	475	271	847	757	2367
D. TOTAL	607	1898	242	756	849	2655	4819	15070

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD		1968-69 PROJECTED		NUMBER		1968-69 PROJ.	
1. EQUIPMENT RENTALS	344	1075	989	3092				
2. BUILDING SPACE	3	9	5	15				
3. OTHER MAINTENANCE	8	25	16	50				
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	58	181	319	997	12	37	37	115
4B. ADMIN AND OTHER PROFESSIONAL	82	256	343	1072	12	37	35	109
4C. OTHER	102	318	229	716	28	87	54	168
4 TOTAL SALARIES AND WAGES	242	756	891	2786	52	162	126	394
5. OFF-CAMPUS COMPUTING SERVICE	7	21	20	62				
6. OTHER DIRECT COSTS	49	153	158	494				
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	117	365	424	1325				
TOTAL	770	2408	2503	7827				

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	63	197	19	59	17	53	99	309
1965-66	97	303	32	100	13	40	142	444
1966-67	475	1485	48	150	24	75	547	1710
1967-68	253	806			12	37	270	844
1968-69	1736	5428	430	1344	67	209	2233	6983

CTL 2   TYPE 2   LEVEL 4
SAMPLE SIZE 20   POP. SIZE 22
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.	166	182	400	440	566	622	527	579
2. OTHER	89	97			89	97	338	371
TOTAL FED GOVT	255	280	400	440	655	720	865	951
B. INSTITUTION	612	673	208	228	820	902	1906	2096
C. OTHER	71	78	140	154	211	232	256	281
D. TOTAL	938	1031	748	822	1686	1854	3027	3329

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					237	260	879	966
2. BUILDING SPACE					59	64	116	127
3. OTHER-MAINTENANCE					42	46	115	126
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	17	18	40	44	139	152	358	393
4B. ADMIN AND OTHER PROFESSIONAL	6	6	18	19	81	89	215	236
4C. OTHER	61	67	81	89	160	176	254	279
4 TOTAL SALARIES AND WAGES	84	92	139	152	380	418	827	909
5. OFF-CAMPUS COMPUTING SERVICE					3	3	85	93
6. OTHER DIRECT COSTS					79	86	158	173
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					138	151	363	399
TOTAL					938	1031	2543	2797

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	694	763	12	13	42	46	748	822
1965-66	44	48	26	28	13	14	83	91
1966-67	11	12	802	882	12	13	825	907
1967-68	142	156	109	119	21	23	272	299
1968-69	242	266	120	132	22	24	364	422

CTL 2   TYPE 4   LEVEL 3
SAMPLE SIZE   8   POP. SIZE   8
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.								
2.OTHER								
TOTAL FED GOVT								
B.INSTITUTION	78	78	9	9	87	87	116	116
C. OTHER								
D. TOTAL	78	78	9	9	87	87	116	116

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS	30	30	40	40
2. BUILDING SPACE	4	4	4	4
3. OTHER MAINTENANCE	1	1	1	1
4. SALARIES AND WAGES	NUMBER		1968-69 PROJ.	
4A. SYSTEMS AND UTILITY PROG.	2	2	3	3	15	15	30	30
4B. ADMIN AND OTHER PROFESSIONAL								
4C. OTHER	2	2	3	3	8	8	12	12
4 TOTAL SALARIES AND WAGES	4	4	6	6	23	23	42	42
5. OFF-CAMPUS COMPUTING SERVICE	1	1	10	10
6. OTHER DIRECT COSTS	7	7	10	10
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	13	13	19	19
TOTAL	79	79	126	126

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	4	4	5	5	9	9
1965-66				
1966-67				
1967-68	3	3	5	5	8	8
1968-69				

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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CTL 2     TYPE 5     LEVEL 2
        SAMPLE SIZE  5      POP. SIZE  14
SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
            (THOUSANDS OF DOLLARS)
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ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1. PRIMARILY COMP. ACT.								
2. OTHER	19	53			19	53	31	86
TOTAL FED GOVT	19	53			19	53	31	86
B. INSTITUTION	23	64	4	11	27	75	29	81
C. OTHER								
D. TOTAL	42	117	4	11	46	128	60	168

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS	12	16	33	44
2. BUILDING SPACE	2	3	5	8
3. OTHER MAINTENANCE				
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	4	5	11	14
4B. ADMIN AND OTHER PROFESSIONAL	8	11	22	30
4C. OTHER	6	10	16	28
4 TOTAL SALARIES AND WAGES	18	26	50	72
5. OFF-CAMPUS COMPUTING SERVICE	3	5	8	14
6. OTHER DIRECT COSTS	7	10	19	28
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN				
TOTAL	42	60	117	168

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	4			11
1965-66	1	1	2	5
1966-67	1			2
1967-68	5			14
1968-69	14			

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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CTL 2     TYPE 5      LEVEL 3
    SAMPLE SIZE  5     POP. SIZE  6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
        (THOUSANDS OF DOLLARS)
```

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69		PROJECTED 1968-69	
A. FED. GOVT										
1.PRIMARILY COMP. ACT.			53	63	53	63	25		30	
2.OTHER							5		6	
TOTAL FED GOVT			53	63	53	63	30		36	
B.INSTITUTION	139	166	54	64	193	231	235		282	
C. OTHER							40		48	
D. TOTAL	139	166	107	128	246	295	305		366	

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					30	36	101	121
2. BUILDING SPACE					3	3	4	4
3. OTHER MAINTENANCE					4	4	7	8
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	3	3	6	7	15	18	33	39
4B. ADMIN AND OTHER PROFESSIONAL	4	4	6	7	34	40	59	70
4C. OTHER	5	6	16	19	15	18	35	42
4 TOTAL SALARIES AND WAGES	12	14	28	33	64	76	127	152
5. OFF-CAMPUS COMPUTING SERVICE					11	13	9	10
6. OTHER DIRECT COSTS					7	8	13	15
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					20	24	43	51
TOTAL					139	166	304	364

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65	106	127			1	1	107	128
1965-66	3	3			1	1	4	4
1966-67					1	1	1	1
1967-68	5	6			3	3	8	9
1968-69					1	1	1	1

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2 TYPE 5 LEVEL 4
SAMPLE SIZE 7 POP. SIZE 9
SAMPLE(LEFT COLUMN) POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

BY SOURCE	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
	Sample	Pop	Sample	Pop	Sample	Pop	Sample	Pop
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	233	299			233	299	1140	1465
2.OTHER	370	475			370	475	335	430
TOTAL FED GOVT	603	775			603	775	1475	1896
B.INSTITUTION	1451	1865	118	151	1569	2017	3090	3972
C. OTHER	65	83	25	32	90	115	170	218
D. TOTAL	2119	2724	143	183	2262	2908	4735	6067

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER Reporting		NUMBER 1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
	Sample	Pop	Sample	Pop	Sample	Pop	Sample	Pop
1. EQUIPMENT RENTALS					759	975	1272	1635
2. BUILDING SPACE					26	33	83	106
3. OTHER MAINTENANCE					28	35	43	55
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	31	39	49	62	224	287	463	595
4B. ADMIN AND OTHER PROFESSIONAL	21	26	28	35	317	407	464	596
4C. OTHER	59	75	86	110	196	251	314	403
4 TOTAL SALARIES AND WAGES	111	142	163	209	737	947	1241	1595
5. OFF-CAMPUS COMPUTING SERVICE					30	38	34	43
6. OTHER DIRECT COSTS					213	273	411	528
7. INDIREC COSTS GEN ADMIN AND GEN EXPEN					326	419	568	730
TOTAL					2119	2724	3652	4695

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
	Sample	Pop	Sample	Pop	Sample	Pop	Sample	Pop
1964-65	79	101			9	11	88	113
1965-66	536	689	3	3	38	48	577	741
1966-67	555	713	165	212	49	62	769	988
1967-68	175	224	205	263	57	73	437	561
1968-69	215	276	710	912	158	203	1083	1392

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 7   LEVEL 2
SAMPLE SIZE 14   POP. SIZE 53
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

BY SOURCE	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.								
2.OTHER								
TOTAL FED GOVT								
B.INSTITUTION	39	147	10	37	49	185	163	617
C. OTHER								
D. TOTAL	39	147	10	37	49	185	163	617

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS				13	49	15	56
2. BUILDING SPACE				3	11	4	15
3. OTHER MAINTENANCE						3	11
4. SALARIES AND WAGES							
4A. SYSTEMS AND UTILITY PROG.	1	2	7	6	22	12	45
4B. ADMIN AND OTHER PROFESSIONAL	2	1	3	4	15	6	22
4C. OTHER	3	3	11	0	30	11	41
4 TOTAL SALARIES AND WAGES		6	22	18	68	29	109
5. OFF-CAMPUS COMPUTING SERVICE							
6. OTHER DIRECT COSTS				3	11	6	22
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN				2	7	2	7
TOTAL				39	147	59	223

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65			10	37			10	37
1965-66	4	15	3	11	3	11	10	37
1966-67					1	3	1	3
1967-68					1	3	1	3
1968-69	100	378			4	15	104	393

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                    CTL 2    TYPE 7    LEVEL 3
                 SAMPLE SIZE 11    POP. SIZE 13
          SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
                    (THOUSANDS OF DOLLARS)
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ITEM II   BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.								
2.OTHER								
TOTAL FED GOVT								
B.INSTITUTION	109		128		109		364	430
C. OTHER							50	59
D. TOTAL	109		128	128	128	109	414	489

ITEM III   CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER		NUMBER 1968-69 PROJ.		REPORTING PERIOD		1968-69 PROJECTED	
1. EQUIPMENT RENTALS					22	25	96	113
2. BUILDING SPACE					4	4	109	128
3. OTHER MAINTENANCE					2	2	7	8
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	5	5	9	10	20	23	48	56
4B. ADMIN AND OTHER PROFESSIONAL	5	5	7	8	33	38	55	64
4C. OTHER	1	1	7	8	4	4	38	44
4 TOTAL SALARIES AND WAGES	11	12	23	27	57	67	141	166
5. OFF-CAMPUS COMPUTING SERVICE					5	5	5	5
6. OTHER DIRECT COSTS					2	2	4	4
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN					17	20	52	61
TOTAL					109	128	414	489

ITEM IV   CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL	
1964-65					
1965-66	1		1	1	1
1966-67	1		1	1	1
1967-68					
1968-69					

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2 TYPE 7 LEVEL 4
SAMPLE SIZE 9 POP. SIZE 11
SAMPLE(LEFT COLUMN) POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT		CAPITAL		TOTAL		PROJECTED 1968-69	
A. FED. GOVT								
1.PRIMARILY COMP. ACT.	71	86	61	74	132	161	362	442
2.OTHER	133	162	40	48	173	211	150	183
TOTAL FED GOVT	204	249	101	123	305	372	512	625
B.INSTITUTION	72	87	11	13	83	101	171	208
C. OTHER	23	28	7	8	30	36	55	67
D. TOTAL	299	365	119	145	418	510	738	901

ITEM III CURRENT EXPENDITURES BY COST ITEM
COST ITEM

	REPORTING PERIOD		1968-69 PROJECTED		NUMBER		1968-69 PROJ.	
1. EQUIPMENT RENTALS	83	101	159	194				
2. BUILDING SPACE	2	2	5	6				
3. OTHER MAINTENANCE								
4. SALARIES AND WAGES								
4A. SYSTEMS AND UTILITY PROG.	50	61	114	139	7	8	13	15
4B. ADMIN AND OTHER PROFESSIONAL	47	57	79	96	4	4	5	6
4C. OTHER	45	54	79	96	10	12	17	20
4 TOTAL SALARIES AND WAGES	142	173	272	332	21	25	35	42
5. OFF-CAMPUS COMPUTING SERVICE			4	4				
6. OTHER DIRECT COSTS	23	28	42	51				
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	46	56	106	129				
TOTAL	296	361	588	718				

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.		BUILDINGS		FURNITURE ETC.		TOTAL	
1964-65			40	48	7	8	47	57
1965-66	72	87			2	2	74	90
1966-67	110	134			6	7	116	141
1967-68	125	152			8	9	133	162
1968-69	150	183			10	12	160	195

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1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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                        CTL 1    TYPE X      LEVEL 1
                     SAMPLE SIZE 082   POP. SIZE 0428
                     SAMPLE(LEFT COLUMN)   PUPULATION(RIGHT COLUMN)
                        (THOUSANDS OF DOLLARS)
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ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	473	746	1225	1599
2.OTHER				253
TOTAL FED GOVT	478	746	1225	1852
B.INSTITUTION	2941	1835	4776	10669
C. OTHER	388	1126	1515	1690
D. TOTAL	3810	3708	7518	14212

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS	943	2559
2. BUILDING SPACE	71	671
3. OTHER MAINTENANCE	133	334

4. SALARIES AND WAGES	NUMBER		1968-69 PROJ.	
4A. SYSTEMS AND UTILITY PROG.	50	292	123	816
4B. ADMIN AND OTHER PROFESSIONAL	130	1149	298	2673
4C. OTHER	101	343	309	883
4 TOTAL SALARIES AND WAGES	283	1785	731	4374

5. OFF-CAMPUS COMPUTING SERVICE		25
6. OTHER DIRECT COSTS	260	606
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	613	1422
TOTAL	3810	9995

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	3259	235	264	3759
1965-66	1323	71	247	1643
1966-67	2209	156	197	2653
1967-68	1673	45	191	1909
1968-69	3876	316	366	4560

CTL 1 TYPE X LEVEL 2
SAMPLE SIZE 027 POP. SIZE 0092
SAMPLE(LEFT COLUMN) POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	57		57	310
2.OTHER				
TOTAL FED GOVT	57		57	310
B.INSTITUTION	462	147	610	2345
C. OTHER	135	62	198	100
D. TOTAL	598	267	666	2755

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			244	974
2. BUILDING SPACE				5
3. OTHER MAINTENANCE			1	20
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	8	23	60	150
4B. ADMIN AND OTHER PROFESSIONAL	15	35	96	269
4C. OTHER	22	48	76	195
4 TOTAL SALARIES AND WAGES	46	106	232	616
5. OFF-CAMPUS COMPUTING SERVICE			4	8
6. OTHER DIRECT COSTS			16	45
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			99	308
TOTAL			598	1980

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	240		27	267
1965-66	340		46	386
1966-67	124	126	35	286
1967-68	340		42	382
1968-69	720		55	775

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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CTL 1   TYPE X   LEVEL 3
SAMPLE SIZE 062   POP. SIZE 0188
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1. PRIMARILY COMP. ACT.	216	94	311	1702
2. OTHER	50		50	489
TOTAL FED GOVT	266	94	361	2193
B. INSTITUTION	4479	365	4844	17337
C. OTHER	252	37	289	955
D. TOTAL	4698	497	5498	20489

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			1323	6870
2. BUILDING SPACE			21	1179
3. OTHER MAINTENANCE			85	150
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	39	205	300	1581
4B. ADMIN AND OTHER PROFESSIONAL	72	159	551	1582
4C. OTHER	167	412	617	1691
4 TOTAL SALARIES AND WAGES	281	780	1572	4857
5. OFF-CAMPUS COMPUTING SERVICE			5	5
6. OTHER DIRECT COSTS			213	562
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			708	2259
TOTAL			4436	15901

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	446	541	74	1062
1965-66	356	26	83	467
1966-67	585	1290	243	2122
1967-68	6?5	173	165	1016
1968-69	2939	1407	250	4599

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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CTL 1　TYPE X　LEVEL 4
SAMPLE SIZE 123　POP. SIZE 0132
SAMPLE(LEFT COLUMN)　POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	5027	3243	8270	29664
2.OTHER	6668	2129	8798	19302
TOTAL FED GOVT	11696	5373	17069	48967
B.INSTITUTION	18280	5474	23755	66788
C. OTHER	3199	899	4098	11088
D. TOTAL	33177	11746	44923	126844

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			11077	40592
2. BUILDING SPACE			469	1453
3. OTHER MAINTENANCE			1133	1899
4. SALARIES AND WAGES			4558	12529
4A. SYSTEMS AND UTILITY PROG.	650	1506	4092	9790
4B. ADMIN AND OTHER PROFESSIONAL	411	818	4820	9659
4C. OTHER	1141	2055	13471	31979
4 TOTAL SALARIES AND WAGES	2203	4380	257	234
5. OFF-CAMPUS COMPUTING SERVICE			3014	6960
6. OTHER DIRECT COSTS			3760	10288
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN				
TOTAL			33184	93409

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	8521	1506	432	10461
1965-66	8332	5523	410	14266
1966-67	13495	7752	768	22016
1967-68	11708	20366	1525	33599
1968-69	20410	10979	2191	33580

CTL 2   TYPE X   LEVEL 2
SAMPLE SIZE 115   POP. SIZE 0702
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.		275	275	1066
2.OTHER	59		59	86
TOTAL FED GOVT	59	275	335	1152
B.INSTITUTION	1321	1572	2894	3457
C. OTHER	6	376	382	627
D. TOTAL	1386	2224	3611	5237

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			351	959
2. BUILDING SPACE			73	15
3. OTHER MAINTENANCE			55	119
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	14	46	158	316
4B. ADMIN AND OTHER PROFESSIONAL	26	61	200	503
4C. OTHER	74	175	246	508
4 TOTAL SALARIES AND WAGES	117	265	607	1328
5. OFF-CAMPUS COMPUTING SERVICE				25
6. OTHER DIRECT COSTS			150	249
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			145	423
TOTAL			1386	3125

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	1767	300	156	2224
1965-66	17	25	17	60
1966-67	284		90	375
1967-68	1619	250	84	1954
1968-69	2071		40	2111

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
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CTL 2   TYPE X   LEVEL 3
SAMPLE SIZE 096   POP. SIZE 0278
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	141	18?	329	1619
2.OTHER	72		72	497
TOTAL FED GOVT	213	18?	401	2116
B.INSTITUTION	2007	267	2275	12994
C. OTHER	407	475	882	2554
D. TOTAL	2628	931	3561	17665

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1'968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			1271	3563
2. BUILDING SPACE			26	164
3. OTHER MAINTENANCE			39	104
4. SALARIES AND WAGES	54	153	274	1238
4A. SYSTEMS AND UTILITY PROG.	55	143	408	1351
4B. ADMIN AND OTHER PROFESSIONAL			395	924
4C. OTHER	115	234	1080	3517
4 TOTAL SALARIES AND WAGES	227	533	55	112
5. OFF-CAMPUS COMPUTING SERVICE			180	558
6. OTHER DIRECT COSTS			477	1578
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN				
TOTAL			3137	9606

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	360	64	62	486
1965-66	399	100	49	539
1966-67	1652	155	103	1910
1967-68	929	308	100	1338
1968-69	5403	2094	210	7808

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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CTL 2   TYPE X   LEVEL 4
SAMPLE SIZE 104   POP. SIZE 0137
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	11393	2782	14176	26642
2.OTHER	8603	939	9544	25610
TOTAL FED GOVT	19999	3723	23722	52255
B.INSTITUTION	9249	2259	11512	28389
C. OTHER	2634	3001	5636	8121
D. TOTAL	31885	8986	40873	86769

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS	11555	33042
2. BUILDING SPACE	945	1600
3. OTHER MAINTENANCE	1003	1894
4. SALARIES AND WAGES		
4A. SYSTEMS AND UTILITY PROG.	4019	9220
4B. ADMIN AND OTHER PROFESSIONAL	3642	7181
4C. OTHER	3466	6336
4 TOTAL SALARIES AND WAGES	11132	22740
5. OFF-CAMPUS COMPUTING SERVICE	304	326
6. OTHER DIRECT COSTS	3152	5457
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	3803	7565
TOTAL	31905	72635

NUMBER	1968-69 PROJ.
520	1027
370	648
800	1237
1695	2916

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	4231	1641	337	6212
1965-66	6541	2493	452	9510
1966-67	9350	5442	696	15491
1967-68	4235	5461	523	10224
1968-69	8387	6810	836	16936

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 1
SAMPLE SIZE 245   POP. SIZE 0825
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	473	746	1225	1609
2.OTHER				253
TOTAL FED GOVT	478	746	1225	1862
B.INSTITUTION	2941	1835	4776	10715
C. OTHER	388	1149	1538	1690
D. TOTAL	3810	3731	7541	14268

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS			943	2559
2. BUILDING SPACE			71	671
3. OTHER MAINTENANCE			133	334
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	50	123	292	839
4B. ADMIN AND OTHER PROFESSIONAL	130	298	1149	2673
4C. OTHER	101	309	343	888
4 TOTAL SALARIES AND WAGES	283	731	1785	4403
5. OFF-CAMPUS COMPUTING SERVICE				51
6. OTHER DIRECT COSTS			260	606
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			613	1423
TOTAL			3810	10051

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	3282	235	264	3782
1965-66	1454	71	248	1776
1966-67	2310	156	197	2664
1967-68	1673	45	191	1909
1968-69	3876	316	366	4560

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

```
                    CTL X    TYPE X      LEVEL 2
                 SAMPLE SIZE  142    POP. SIZE 0794
              SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
                    (THOUSANDS OF DOLLARS)
```

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.		332	332	1376
2.OTHER	59		59	86
TOTAL FED GOVT	59	332	392	1462
B.INSTITUTION	1783	1719	3504	5802
C. OTHER	142	438	580	727
D. TOTAL	1984	2491	4477	7992

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	REPORTING PERIOD	1968-69 PROJ.	1968-69 PROJECTED
1. EQUIPMENT RENTALS		595		1933
2. BUILDING SPACE		73		20
3. OTHER MAINTENANCE		56		139
4. SALARIES AND WAGES				
4A. SYSTEMS AND UTILITY PROG.	22	218	69	466
4B. ADMIN AND OTHER PROFESSIONAL	41	296	96	772
4C. OTHER	96	322	223	703
4 TOTAL SALARIES AND WAGES	163	839	391	1944
5. OFF-CAMPUS COMPUTING SERVICE		4		33
6. OTHER DIRECT COSTS		166		294
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN		244		731
TOTAL		1984		5105

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	2007	300	183	2491
1965-66	357	25	63	446
1966-67	408	126	125	661
1967-68	1959	250	126	2336
1968-69	2791		95	2886

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 3
SAMPLE SIZE 158   POP. SIZE 0466
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1. PRIMARILY COMP. ACT.	357	282	640	3321
2. OTHER	122		122	986
TOTAL FED GOVT	479	282	762	4309
B. INSTITUTION	6486	632	7119	30331
C. OTHER	659	512	1171	3509
D. TOTAL	7626	1428	9059	38154

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	NUMBER	1968-69 PROJ.	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS	93	358	3094	10433
2. BUILDING SPACE	127	302	47	1343
3. OTHER MAINTENANCE	282	646	124	254
4. SALARIES AND WAGES	508	1313		
4A. SYSTEMS AND UTILITY PROG.			574	2019
4B. ADMIN AND OTHER PROFESSIONAL			1059	2933
4C. OTHER			1012	2615
4 TOTAL SALARIES AND WAGES			2652	8374
5. OFF-CAMPUS COMPUTING SERVICE			60	117
6. OTHER DIRECT COSTS			393	1120
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN			1185	3847
TOTAL			7573	25507

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	806	605	136	1548
1965-66	745	126	132	1006
1966-67	2237	1445	346	4032
1967-68	1604	481	265	2354
1968-69	8432	3501	469	12407

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

```
                    CTL X   TYPE X      LEVEL 4
                 SAMPLE SIZE  227    POP. SIZE 0269
                 SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
                          (THOUSANDS OF DOLLARS)
```

ITEM II BY SOURCE

	CURRENT	CAPITAL	TOTAL	PROJECTED 1968-69
A. FED. GOVT				
1.PRIMARILY COMP. ACT.	16420	6025	22446	56306
2.OTHER	15271	3068	18342	44912
TOTAL FED GOVT	31695	9096	40791	101222
B.INSTITUTION	27529	7733	35267	95177
C. OTHER	5833	3900	9734	19209
D. TOTAL	65062	20732	85796	215613

ITEM III CURRENT EXPENDITURES BY COST ITEM

COST ITEM	REPORTING PERIOD	1968-69 PROJECTED
1. EQUIPMENT RENTALS	22632	73634
2. BUILDING SPACE	1414	3053
3. OTHER MAINTENANCE	2136	3793
4. SALARIES AND WAGES		
4A. SYSTEMS AND UTILITY PROG.	8577	21749
4B. ADMIN AND OTHER PROFESSIONAL	7734	16971
4C. OTHER	8286	15995
4 TOTAL SALARIES AND WAGES	24603	54719
5. OFF-CAMPUS COMPUTING SERVICE	561	560
6. OTHER DIRECT COSTS	6166	12417
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN	7563	17853
TOTAL	65089	166044

NUMBER	1968-69 PROJ.
1170	2533
781	1466
1941	3292
3898	7296

ITEM IV CAPITAL EXPENDITURES

YEAR	COMPUTERS AND PERIPH.	BUILDINGS	FURNITURE ETC.	TOTAL
1964-65	12752	3147	769	16673
1965-66	14893	8016	862	23776
1966-67	22845	13194	1464	37507
1967-68	15943	25827	2048	43823
1968-69	28797	17789	3027	49616

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1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

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                    CTL X    TYPE X    LEVEL X
                  SAMPLE SIZE  669    POP. SIZE 2219
                  SAMPLE(LEFT COLUMN)  POPULATIUN(RIGHT COLUMN)
                      (THOUSANDS OF DOLLARS)
```

ITEM II BY SOURCE

```
                              CURRENT    CAPITAL     TOTAL     PROJECTED 1968-69
A. FED. GOVT
 1. PRIMARILY COMP. ACT.       17263      7385       24651        62624
 2. OTHER                      15452      3068       18523        46237
    TOTAL FED GOVT             32719     10456       43178       108867

B. INSTITUTION                 38793     11919       50720       142105
C. OTHER                        7022      5999       13023        25135
D. TOTAL                       78544     28382      106935       276119
```

ITEM III CURRENT EXPENDITURES BY COST ITEM

```
    COST ITEM                                      REPORTING PERIOD   1968-69 PROJECTED
1. EQUIPMENT RENTALS                                   27296            88607
2. BUILDING SPACE                                       1605             5087
3. OTHER MAINTENANCE                                    2451             4524
4. SALARIES AND WAGES
4A. SYSTEMS AND UTILITY PROG.                           9661            25873
4B. ADMIN AND OTHER PROFESSIONAL                       10248            23363
4C. OTHER                                               9971            20211
4  TOTAL SALARIES AND WAGES                            29897            69464
5. OFF-CAMPUS COMPUTING SERVICE                          625              761
6. OTHER DIRECT COSTS                                   6985            14437
7. INDIRECT COSTS GEN ADMIN AND GEN EXPEN              9615            23870
   TOTAL                                               78518           206799
```

```
                              NUMBER   1968-69 PROJ.
                               1335       3083
                               1081       2164
                               2428       4478
                               4862       9741
```

ITEM IV CAPITAL EXPENDITURES

```
YEAR        COMPUTERS AND PERIPH.   BUILDINGS   FURNITURE ETC.   TOTAL
1964-65           18847              4287         1352           24494
1965-66           17449              8238         1305           27004
1966-67           27800             14921         2132           44864
1967-68           21179             26603         2630           50422
1968-69           43806             21606         3957           69469
```

VI-B. Estimates by Stratum and Groups of Strata for Federal and Non-Federal Funds
Provided Primarily for Support of Computer Equipment, Buildings, and Activities; Institutional
Contributions to Sponsored R & D; and Manufacturers' Contributions. (Items V-VI of Questionnaire.)

For each stratum, each grouping of strata by Type of Control and Highest Level of Offering, and all
institutions (Group XXX), the entries of Items V-VI of the questionnaire are summarized and the
corresponding population estimates given. Sample values are also presented in stratum summaries.
For stratum estimates the sample values are presented first and the corresponding population estimates
follow to their right on the same line. All dollar amounts are in thousands and the number of
institutions under "Funds not Adequate" are complete as presented.

e.g. For FY65 the 106 public universities offering the doctorate (stratum 1 1 4, Page VI-B-3)
received an estimated $5,802,000 from all sources for the rental or purchase of digital computer
equipment and its buildings. For FY69 the institutions are expecting an estimated $20,889,000
for this same purpose. During FY65 the manufacturers contributed $17,606,000 to these institutions
in the form of educational discounts on purchase and rentals and other services related to the
maintenance and operation of the computer for research and instruction. At approximately 56
of the institutions funds to pay for computer services to Federal Sponsored R & D were short by
an estimated $3,884,000 and at about 38 institutions the shortage for non-federal sponsored R & D
totaled approximately $1,360,000.

Strata Identification:

CTL = Type of Control

1 = Public
2 = Private

TYPE = Type of Institution

0 = Semiprofessional School
1 = University
2 = Liberal Arts College
4 = Teachers College
5 = Independent Technological School
6 = Theological or Religious School
7 = Other Independent Professional School
8 = Junior College
9 = Technical Institution

LEVEL = Highest Level of Offering

1 = Two to Four Years Beyond 12th Grade
2 = Bachelor's and/or First Professional Degree
3 = Master's and/or Second Professional Degree
4 = Doctor of Philosophy or Equivalent Degree
5 = Other

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

COMPUTER SCIENCE

GTL 1   TYPE 1   LEVEL 3
SAMPLE SIZE 4   POP. SIZE 4
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	
A.FEDERAL				
			3	3
B.NON-FEDERAL				
TOTAL			3	3
TOTAL PROJECTED 1968-69			70	70

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
			CURRENT CAPITAL TOTAL		
FED. SPONSORED R+D	3 3	4 4		45	45
NON-FED SPONSORED R-D	1 1	4		13	13
TOTAL	4 4	4		58	58

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
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CTL 1   TYPE 1   LEVEL 4
SAMPLE SIZE 97   POP. SIZE 106
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH		OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.		UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	4252	4646	1659	1812	1493	1631	12	13	663	724
B.NON-FEDERAL	1058	1156	366	399	397	433	202	220	96	104
TOTAL	5310	5802	2025	2212	1890	2065	214	233	759	829
TOTAL PROJECTED 1968-69	19116	20889	5614	6134	4623	5051	1437	1570	2949	3222

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	52	56	3555	3884	10446	11415
NON-FED SPONSORED R-D	35	38	1245	1360	5666	6191
TOTAL	87	95	4800	5245	16112	17606.

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 2   LEVEL 2
SAMPLE SIZE 12   POP. SIZE 48
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL			
B.NON-FEDERAL			
TOTAL			
TOTAL PROJECTED 1968-69			

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY

	MANUFACTURERS CONTRIBUTIONS	
CURRENT	10	40
CAPITAL		
TOTAL	10	40

FED. SPONSORED R+D
NON-FED SPONSORED R-D
TOTAL

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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CTL 1    TYPE 2    LEVEL 3
SAMPLE SIZE  18    POP. SIZE  60
SAMPLE(LEFT COLUMN)    POPULATION(RIGHT COLUMN)
       (THOUSANDS OF DOLLARS)
```

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	12	39	30	99	1	3
B.NON-FEDERAL						
TOTAL	12	39	30	99	1	3
TOTAL PROJECTED 1968-69	220	733	80	266	10	33

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	2	6	16 CURRENT	5	279	929
NON-FED SPONSORED R-D	2	6	3 CAPITAL	1	10	33
TOTAL	4	13	19 TOTAL	6	289	963

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
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```
              CTL 1   TYPE 2   LEVEL 4
          SAMPLE SIZE  7     POP. SIZE  7
    SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
              (THOUSANDS OF DOLLARS)
```

COMPUTER SCIENCE

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH		OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.		UNDERGRAD.INSTR.	
A.FEDERAL			10	10	10	10		
B.NON-FEDERAL								
TOTAL			10	10	10	10		
TOTAL PROJECTED 1968-69	60	60	200	200	550	550	20	20

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY					MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	2	2	21	21	21 CURRENT	184	184
NON-FED SPONSORED R+D	2	2	2	2	2 CAPITAL		
TOTAL	4	4	23	23	23 TOTAL	184	184

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 4   LEVEL 3
SAMPLE SIZE   33   POP. SIZE   116
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. INSTR. UNDERGRAD.INSTR.				COMPUTER SCIENCE	
A.FEDERAL	38	133	1	3	2 7	3 10	5	17
B.NON-FEDERAL								
TOTAL	36	133	1	3	2 7	3 10	5	17
TOTAL PROJECTED 1968-69	114	400	1	3	5 17	3 10	25	87

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

			CURRENT		CAPITAL	TOTAL
FED. SPONSORED R+D	2 2	7 7	5 5			73 256
NON-FED SPONSORED R-D			17 17			61 214
TOTAL			17 17			134 471

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

COMPUTER SCIENCE

CTL 1   TYPE 4   LEVEL 4
SAMPLE SIZE   5   POP. SIZE   5
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	
A.FEDERAL				
B.NON-FEDERAL				
TOTAL				
TOTAL PROJECTED 1968-69	10	10	5	5

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	CAPITAL	TOTAL
FED. SPONSORED R+D	70		70
NON-FED SPONSORED R-D	70		70
TOTAL			

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

GTL 1   TYPE 5   LEVEL 2
SAMPLE SIZE   5   POP. SIZE   6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

COMPUTER SCIENCE

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.
A.FEDERAL	48	57	
B.NON-FEDERAL	52	62	
TOTAL	100	120	

TOTAL PROJECTED 1968-69

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

		MANUFACTURERS CONTRIBUTIONS
CURRENT	27	32
CAPITAL	25	30
TOTAL	52	62

FED. SPONSORED R+D
NON-FED SPONSORED R-D
TOTAL

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF CA65

CTL 1   TYPE 5   LEVEL 3
SAMPLE SIZE   6   POP. SIZE   7
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
        (THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.		COMPUTER SCIENCE
A.FEDERAL			1	1	
R.NON-FEDERAL			1	1	
TOTAL			1	1	
TOTAL PROJECTED 1968-69	103	120	4	4	

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	CAPITAL	TOTAL
FED. SPONSORED R+D	31	36	
NON-FED SPONSORED R=D	54	63	
TOTAL	85	99	

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

GTL 1   TYPE 5   LEVEL 4
SAMPLE SIZE 6   POP. SIZE 6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	15 15	20 20	25 25		3	3
R.NON-FEDERAL			117 117	117		
TOTAL	15 15	20 20	142 142		3	3
TOTAL PROJECTED 1968-69	580	580	250 250		80	80

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY			MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	2	2	50	50	CURRENT	253	253
NON-FED. SPONSORED R-D	2	2	10	10	CAPITAL		
TOTAL	4	4	60	60	TOTAL	253	253

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 7   LEVEL 4

SAMPLE SIZE   8   POP. SIZE   8

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD,INSTR, UNDERGRAD,INSTR.				COMPUTER SCIENCE	
A.FEDERAL	72	72	7	7	22	22	102	10˘
B.NON-FEDERAL								
TOTAL	72	72	7	7	22	22	102	102
TOTAL PROJECTED 1968-69	330	330	85	85	35	85	115	115

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY			MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	3	3	23	23	CURRENT	167	167
NON-FED SPONSORED R-D	3	3	13	13	CAPITAL	54	54
TOTAL	6	6	36	36	TOTAL	221	221

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

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          CTL 1   TYPE 8   LEVEL 1
        SAMPLE SIZE 71    POP. SIZE 400
   SAMPLE(LEFT COLUMN)  POPULATION(RIGHT COLUMN)
        (THOUSANDS OF DOLLARS)
```

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PUNCH		OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	68	383	28	157	21	118	5	28
B.NON-FEDERAL	139	783	33	185	50	281	5	28
TOTAL	207	1166	61	343	71	400	5	28
TOTAL PROJECTED 1968-69	261	1470	57	321	71	400	5	28

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

| | FUNDS NOT ADEQUATE | | AMOUNT OF DEFICIENCY | | | MANUFACTURERS CONTRIBUTIONS | |
			CURRENT	CAPITAL	TOTAL		
FED. SPONSORED R+D	5	28	28		157	108	608
NON-FED SPONSORED R+D	3	16				305	1718
TOTAL	8	45	28		157	413	2326

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE 9   LEVEL 1
SAMPLE SIZE   8   POP. SIZE   20
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.		COMPUTER SCIENCE
A.FEDERAL	155	387	2	5	
B.NON-FEDERAL					
TOTAL	155	387	2	5	

TOTAL PROJECTED 1968-69

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS,
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	CAPITAL	TOTAL
FED. SPONSORED R+D	1	2	
NON-FED SPONSORED R-D	1	2	
TOTAL			

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 1   LEVEL 3
SAMPLE SIZE 9   POP. SIZE 9
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH	OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR.	UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	14 14	25 25	46 46		
B.NON-FEDERAL	35 35				
TOTAL	49 49	25 25	46 46		
TOTAL PROJECTED 1968-69	120 120	50 50	65 65		

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	1 1	9 9	CURRENT	90	90
NON-FED SPONSORED R-D	1	9 9	CAPITAL	20	20
TOTAL	1 1	9 9	TOTAL	110	110

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 1   LEVEL 4
SAMPLE SIZE 61   POP. SIZE 65
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH		DPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.		UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	6128	6529	4451	4742	1203	1281	174	185	424	451
R.NON-FEDERAL	1162	1238	459	489	462	492	3	3	493	525
TOTAL	7290	7768	4910	5231	1665	1774	177	188	917	977
TOTAL PROJECTED 1968-69	10854	11565	11947	12730	6532	6960	1294	1378	2388	2544

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

FED. SPONSORED R+D	26	27	1156	1231	CURRENT	8410	8961
NON-FED.-SPONSORED R=D	19	20	612	652	CAPITAL	2590	2759
TOTAL	45	47	1768	1883	TOTAL	11000	11721

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

BTL 2   TYPE 2   LEVEL 2
SAMPLE SIZE   81   POP. SIZE   508
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	24 150		
B.NON-FEDERAL			
TOTAL	24 150		
TOTAL PROJECTED 1968-69	257 1611		

ITEM VI, ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT CAPITAL	TOTAL
FED. SPONSORED R+D		
NON-FED SPONSORED R-D	492	3085
TOTAL	492	3085

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 2   LEVEL 3
SAMPLE SIZE 55   POP. SIZE 172
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT,OR PURCH		OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.		UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	28	87	9	28	2	6	11	34	8	25
B.NON-FEDERAL	16	50	12	37	65	2			6	25
TOTAL	44	137	21	65	159	30	93			
TOTAL PROJECTED 1968-69	443	1385	51	137			340		340	1063

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY						MANUFACTURERS CONTRIBUTIONS	
			CURRENT		CAPITAL		TOTAL			
FED. SPONSORED R+D	3	9	25	78					143	447
NON-FED SPONSORED R+D	1	3	2	6					341	1066
TOTAL	4	12	27	84					484	1513

1964-65 COMPUTER SURVEY—SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2 TYPE 2 LEVEL 4
SAMPLE SIZE 20 POP. SIZE 22
SAMPLE(LEFT COLUMN) POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH. COST		OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.		UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	463	509	21	23	8	8	49	53	25	27
B.NON-FEDERAL	20	22			15	16	7	8	1	1
TOTAL	483	531	21	23	23	25	56	61	26	28
TOTAL PROJECTED 1968-69	317	348	38	41	163	179			61	67

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	5	5				
NON-FED SPONSORED R+D	3	3				
TOTAL	8	8				
CURRENT			62	68	60	66
CAPITAL			21	23	682	750
TOTAL			83	91	742	816

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 4   LEVEL 3
SAMPLE SIZE 8   POP. SIZE 8
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL			
B.NON-FEDERAL			
TOTAL			

TOTAL PROJECTED 1968-69

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

CURRENT	35	35
CAPITAL		
TOTAL	35	35

FED. SPONSORED R+D
NON-FED SPONSORED R-D
TOTAL

CTL 2   TYPE 5   LEVEL 2
SAMPLE SIZE   5   POP. SIZE   14
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

COMPUTER SCIENCE

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH DPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.
A.FEDERAL		
B.NON-FEDERAL		
TOTAL		

TOTAL PROJECTED 1968-69

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

CURRENT	15	42
CAPITAL	1	2
TOTAL	16	44

FED. SPONSORED R+D
NON-FED SPONSORED R-D
TOTAL

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 5   LEVEL 3
SAMPLE SIZE   5   POP. SIZE   6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

COMPUTER SCIENCE

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER ... FOR R+D+GRAD.INS... UNDERGRAD.INSTR.	
A.FEDERAL	53	63		
B.NON-FEDERAL				
TOTAL	53	63		
TOTAL PROJECTED 1968-69	25	30	5	6

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY

MANUFACTURERS CONTRIBUTIONS

CURRENT	7	8
CAPITAL	150	180
TOTAL	157	188

FED. SPONSORED R+D
NON-FED SPONSORED R-D
TOTAL

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 5   LEVEL 4
SAMPLE SIZE   7   POP. SIZE   9
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG,COMP,EQUIP,OR BLDGS RENT,OR PURCH		OPR. COST		COMPUTER TIME FOR R+D+GRAD,INSTR,		UNDERGRAD,INSTR.	COMPUTER SCIENCE	
A.FEDERAL	156	200	10		12	30	38	77	98
B.NON-FEDERAL	25	32						50	64
TOTAL	181	232	10		12	30	38	127	163
TOTAL PROJECTED 1968-69	450	578	150	192	420	539		205	263

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY			MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	4	5	588	755	CURRENT	839	1078
NON-FED SPONSORED R-D	2	2	33	42	CAPITAL		
TOTAL	6	7	621	798	TOTAL	839	1078

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE 7   LEVEL 2
SAMPLE SIZE   14   POP. SIZE   53
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD,INSTR. UNDERGRAD,INSTR.	COMPUTER SCIENCE
A.FEDERAL			
B.NON-FEDERAL			
TOTAL			
TOTAL PROJECTED 1968-69			

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	CAPITAL	TOTAL
FED. SPONSORED R+D	15	56	
NON-FED SPONSORED R-D	4	15	
TOTAL	19	71	

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF, C465

STL 2   TYPE 7   LEVEL 3
SAMPLE SIZE   11   POP. SIZE   13
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL			
B.NON-FEDERAL			
TOTAL			
TOTAL PROJECTED 1968-69	30 35	20 23	

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	36	42
	CAPITAL		
FED. SPONSORED R+D	TOTAL	36	42
NON-FED SPONSORED R-D			
TOTAL			

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE 7   LEVEL 4
SAMPLE SIZE 9   POP. SIZE 11
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.,OR BLDGS RENT.OR PURCH	OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR.	UNDERGRAD.INSTR.	COMPUTER SCIENCE	
A.FEDERAL	70 85	56 68	6	7		
B.NON-FEDERAL	8 9	7 8	10	12		
TOTAL	78 95	63 76	16	19		
TOTAL PROJECTED 1968-69	187 228	126 153	110	134		

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE		AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	2	2	15 18	CURRENT	98	119
NON-FED SPONSORED R-D	1	1	6 7	CAPITAL	119	145
TOTAL	3	3	21 25	TOTAL	217	265

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

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CTL 1   TYPE X   LEVEL 1
        SAMPLE SIZE  082   POP. SIZE 0428
        SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
            (THOUSANDS OF DOLLARS)
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SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	770	162	118	28
B.NON-FEDERAL	783	185	281	28
TOTAL	1553	348	400	28
TOTAL PROJECTED 1968-69	1470	321	400	28

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS
FED. SPONSORED R+D	28	157	CURRENT	610
NON-FED SPONSORED R-D	16		CAPITAL	1718
TOTAL	45	157	TOTAL	2328

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE X   LEVEL 2
SAMPLE SIZE 027   POP. SIZE 0092
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

COMPUTER SCIENCE

SOURCE
DIG.COMP,EQUIP.OR BLDGS   COMPUTER TIME FOR
A.FEDERAL   RENT.OR PURCH OPR. COST   R+D+GRAD.INSTR. UNDERGRAD.INSTR.
57

B.NON-FEDERAL
62

TOTAL
120

TOTAL PROJECTED 1968-69   100   10

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

CURRENT   72
CAPITAL   30
TOTAL   102

FED. SPONSORED R+D
NON-FED SPONSORED R-D
TOTAL

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 1   TYPE X   LEVEL 3
SAMPLE SIZE 062   POP. SIZE 0188
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP,EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR.	UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	172	3 106	10	17
B.NON-FEDERAL		1 3		3
TOTAL	172	4 109	10	20
TOTAL PROJECTED 1968-69	1253	3 357	26	130

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS
FED. SPONSORED R+D	9	20	CURRENT	1266
NON-FED SPONSORED R-D	14	20	CAPITAL	371
TOTAL	24	40	TOTAL	1639

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE X   LEVEL 4
SAMPLE SIZE 123   POP. SIZE 0132
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLAR'S)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.		COMPUTER SCIENCE
A.FEDERAL	4733	1849	1678	13	829
B.NON-FEDERAL	1156	399	550	220	104
TOTAL	5889	2249	2229	233	934
TOTAL PROJECTED 1968-69	21859	6419	5946	1645	3437

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS	
FED. SPONSORED R+D	63	CURRENT	3978	12089
NON-FED SPONSORED R-D	45	CAPITAL	1385	6245
TOTAL	109	TOTAL	5364	18334

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE X   LEVEL 2

SAMPLE SIZE 115   POP. SIZE 0702

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH APR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	150		
B.NON-FEDERAL			
TOTAL	150		
TOTAL PROJECTED 1968-69	1611		

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

FUNDS NOT ADEQUATE AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	98
FED. SPONSORED R+D	CAPITAL	3102
NON-FED SPONSORED R-D	TOTAL	3200
TOTAL		

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE X   LEVEL 3
SAMPLE SIZE 096   POP. SIZE 0278
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR.	UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	164	53	52	34	25
B.NON-FEDERAL	85	37			
TOTAL	249	90	52	34	25
TOTAL PROJECTED 1968-69	1570	215	158	137	1086

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS
FED. SPONSORED R+D	10	87	CURRENT	622
NON-FED SPONSORED R-D	3	6	CAPITAL	1266
TOTAL	13	93	TOTAL	1888

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL 2   TYPE X   LEVEL 4
SAMPLE SIZE   104   POP. SIZE 0137
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	ORIG.COMP.EQUIP.OR BLDGS. RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.		COMPUTER SCIENCE
A.FEDERAL	7323	4845	1334	238	576
B.NON-FEDERAL	1301	497	520	3	590
TOTAL	8626	5342	1856	241	1168
TOTAL PROJECTED 1968-69	12719	13116	7812	1439	2874

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY		MANUFACTURERS CONTRIBUTIONS
FED. SPONSORED R+D	39	2072	CURRENT	10224
NON-FED SPONSORED R-D	26	724	CAPITAL	3654
TOTAL	65	2797	TOTAL	13880

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 1
SAMPLE SIZE 245   POP. SIZE 0825
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.		UNDERGRAD.INSTR.		COMPUTER SCIENCE	
A.FEDERAL	770	562			118			
B.NON-FEDERAL	783	185			281		28	
TOTAL	1553	348			400		28	
TOTAL PROJECTED 1968-69	1470	321			410		28	

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY			MANUFACTURERS CONTRIBUTIONS
		CURRENT	CAPITAL	TOTAL	
FED. SPONSORED R+D	28	157			610
NON-FED SPONSORED R-D	16				1718
TOTAL	45	157			2328

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 2
SAMPLE SIZE 142   POP. SIZE 0794
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)   COMPUTER
(THOUSANDS OF DOLLARS)   SCIENCE

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR. UNDERGRAD.INSTR.
A.FEDERAL	207	
B.NON-FEDERAL	62	
TOTAL	270	
TOTAL PROJECTED 1968-69	1711	10

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	CURRENT	170
FED. SPONSORED R+D	CAPITAL	3132
NON-FED SPONSORED R-D	TOTAL	3302
TOTAL		

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 3
SAMPLE SIZE 158   POP. SIZE 0466
SAMPLE(LEFT COLUMN)   PUPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH.OPR.COST		COMPUTER TIME FOR R+D+GRAD.INSTR.UNDERGRAD.INSTR.		COMPUTER SCIENCE
A.FEDERAL	336	56	158	44	42
B.NON-FEDERAL	85	38	3		3
TOTAL	421	94	161	44	45
TOTAL PROJECTED 1968-69	2823	218	515	163	1216

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY	MANUFACTURERS CONTRIBUTIONS
		CURRENT	CAPITAL
FED. SPONSORED R+D	19	107	1888
NON-FED SPONSORED R-D	17	26	1637
TOTAL	37	133	3527

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT
CONTRACT NSF C465

CTL X   TYPE X   LEVEL 4
SAMPLE SIZE 227   POP. SIZE 0269
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST		COMPUTER TIME FOR R+D+GRAD.INSTR.	UNDERGRAD.INSTR.	COMPUTER SCIENCE
A.FEDERAL	12056	6694	3012	251	1405
B.NON-FEDERAL	2457	896	1070	223	694
TOTAL	14515	7591	4085	474	2102
TOTAL PROJECTED 1968-69	34578	19535	13758	3084	6311

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS
FUNDS NOT ADEQUATE   AMOUNT OF DEFICIENCY   MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY	MANUFACTURERS CONTRIBUTIONS
FED. SPONSORED R+D	102	6050 CURRENT	22313
NON-FED SPONSORED R-D	71	2109 CAPITAL	9699
TOTAL	174	8161 TOTAL	32214

1964-65 COMPUTER SURVEY--SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL X
SAMPLE SIZE 669   POP. SIZE 2219
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)
(THOUSANDS OF DOLLARS)

SOURCE	DIG.COMP.EQUIP.OR BLDGS RENT.OR PURCH OPR. COST	COMPUTER TIME FOR R+D+GRAD.INSTR.	UNDERGRAD.INSTR.		COMPUTER SCIENCE
A.FEDERAL	13369	6912	3178	413	1447
B.NON-FEDERAL	3387	1119	1073	504	725
TOTAL	16759	8033	4254	918	2175
TOTAL PROJECTED 1968-69	40582	20084	14285	3657	7555

ITEM VI. ADDITIONAL INSTITUTIONAL AND MANUFACTURERS CONTRIBUTIONS

	FUNDS NOT ADEQUATE	AMOUNT OF DEFICIENCY	MANUFACTURERS CONTRIBUTIONS
FED. SPONSORED R+D	149	6314 CURRENT	25021
NON-FED SPONSORED R-D	104	2135 CAPITAL	16386
TOTAL	256	8451 TOTAL	41411

VII. Distributions of Percentage of Use for Research and Instruction by Level and Academic Area. (Item VII of Questionnaire.)

Estimated theoretical frequencies (F) and relative frequencies (RF) are given for each cell of the questionnaire. Except for the right column of the questionnaire these estimates are presented in the same order as the cells appeared on the questionnaire. Since the respondents were not clearly instructed to distinguish between a not applicable, a zero, and a no-response the relative frequencies (RF) are of little use. Therefore for interpretation the frequencies (F) for the four class intervals 01-25, 26-50, 51-75, and 76-100 should be used and with the understanding that the numbers are biased on the low side (i.e., the estimates are likely to be less then the true values.)

e.g. For the 106 public universities offering the doctorate (strata 1 1 4, Page VII-3) 76 are estimated to be using the computer for R & D and graduate instruction in Engineering. An estimated 55 of these institutions have usage from 1% to 25% of their total usage in this category while approximately 21 have usage from 25% to 50% for R & D and Graduate Instruction in Engineering. An estimated 47 of these institutions have usage by outside organizations (EXTRA-INST) somewhere in the range of 1% to 25% of their total usage.

Strata Identification:

CTL = Type of Control

1 = Public
2 = Private

TYPE = Type of Institution

0 = Semiprofessional School
1 = University
2 = Liberal Arts College
4 = Teachers College
5 = Independent Technological School
6 = Theological or Religious School
7 = Other Independent Professional School
8 = Junior College
9 = Technical Institution

LEVEL = Highest Level of Offering

1 = Two to Four Years beyond 12th Grade
2 = Bachelor's and/or First Professional Degree
3 = Master's and/or Second Professional Degree
4 = Doctor of Philosophy or Equivalent Degree
5 = Other

PAGE VII-1

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 1   LEVEL 3   PUP. SIZE   4

SAMPLE SIZE   4

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF
R&D AND GRADUATE INSTRUCTION																
76-100																
51- 75					1	.25										
26- 50																
01- 25	1	.25	2	.50	2	.50	4	1.00	1	.25	1	.25	1	.25	1	.25
NO RESP- 00	3	.75	1	.25	2	.50			3	.75	3	.75	3	.75	3	.75
TOTAL F	4		4		4		4		4		4		4		4	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	LIBR.SCI. F	RF
UNDER-GRAD INSTRUCTION																
76-100																
51- 75	1	.25	1	.25	1	.25	2	.50	2	.50	1	.25	2	.50	1	.25
26- 50																
01- 25	3	.75	2	.50	3	.75	2	.50	2	.50	3	.75	2	.50	3	.75
NO RESP- 00																
TOTAL F	4		4		4		4		4		4		4		4	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
TOTAL R&D AND INSTRUCTION 1964-65																
76-100																
51- 75	1	.25	1	.25	1	.25	1	.25	2	.50	1	.25	4	1.00	4	1.00
26- 50																
01- 25	3	.75	2	.50	3	.75	2	.50	2	.50	3	.75				
NO RESP- 00																
TOTAL F	4		4		4		4		4		4		4		4	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100														
51- 75	1	.25	1	.25	1	.25	1	.25	1	.25	1	.25	4	1.00
26- 50														
01- 25	3	.75	2	.50	3	.75	2	.50	2	.50	2	.50		
NO RESP- 00	1	.25	1	.25	1	.25	1	.25	1	.25	1	.25		
TOTAL F	4		4		4		4		4		4		4	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

PAGE VII-2

CTL 1   TYPE 1   LEVEL 4

SAMPLE SIZE 97   PUP. SIZE 106

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			1										32*	.30*
51- 75			8	.07	2	.01	2	.01					35*	.33*
26- 50	21	.19	16	.15	7	.06			37	.34	4	.03	24*	.22*
01- 25	55	.51	61	.57	72	.67	79	.74	69	.65	64	.60	4*	.03*
NO RESP-00	31	.28	20	.18	25	.23	25	.23			37	.35	11*	.10*
TOTAL F	107		106		106		106		106		105		106*	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	1						1		1				2*	.01*
51- 75							1		1				5*	.04*
26- 50	10	.09	59	.55	38	.35	40	.38	43	.40	36	.33	28*	.26*
01- 25	59	.55	47	.44	68	.64	64	.60	60	.56	69	.65	54*	.51*
NO RESP-00	36	.33									1		16*	.15*
TOTAL F	106		106		106		105		106		106		105*	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	2	.01	1		2	.01	1		1					
51- 75	8	.07	9	.08	1				1					
26- 50	30	.28	25	.23	7	.06	4	.03	3	.02	10	.09	96*	.90*
01- 25	37	.34	52	.49	71	.66	75	.71	45	.42	63	.59		
NO RESP-00	30	.28	19	.17	25	.23	25	.23	56	.52	33	.31	10*	.09*
TOTAL F	107		106		106		105		106		106		106*	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	4	.03	1		3	.02	3	.02	1				83*	.78*
51- 75	28	.26	3	.02	5	.04			8	.07	9	.08	10*	.09*
26- 50	46	.43	24	.22	78	.73	83	.78	69	.65	62	.58	1*	
01- 25	27	.25	61	.58	20	.18	20	.18	28	.26	35	.33		
NO RESP-00			16	.15									12*	.11*
TOTAL F	105		105		106		106		106		106		106*	

Additional columns (three cells on right of column of asterisks):

	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
	8	.07	24	.22	2	.01
	57	.53	82	.77	47	.44
	42	.39			57	.53
TOTAL	107		106		106	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 2   LEVEL 2

SAMPLE SIZE   12   POP. SIZE   48

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF *
R&D AND GRADUATE INSTRUCTION							
76-100							
51- 75							
26- 50							
01- 25							
NO RESP- 00	48 1.00	48 1.00	48 1.00	48 1.00	48 1.00	48 1.00	48 1.00*
TOTAL F	48	48	48	48	48	48	48
UNDER-GRAD INSTRUCTION							
76-100		4 .08	4 .08	4 .08	4 .08	4 .08	
51- 75							
26- 50							
01- 25	8 .16				4 .08	4 .08	
NO RESP- 00	40 .83	44 .91	44 .91	44 .91	40 .83	40 .83	
TOTAL F	48	48	48	48	48	48	48
TOTAL R&D AND INSTRUCTION 1964-65							
76-100		4 .08	4 .08	4 .08	4 .08	4 .08	
51- 75							
26- 50							
01- 25	8 .16				4 .08	4 .08	
NO RESP- 00	40 .83	44 .91	44 .91	44 .91	40 .83	40 .83	40 .83*
TOTAL F	48	48	48	48	48	48	48
TOTAL R&D AND INSTR. PROJECTED 1968-69							
76-100	4 .08	4 .08	4 .08	4 .08	8 .16	8 .16	
51- 75	4 .08						
26- 50							
01- 25	8 .16	4 .08	4 .08	4 .08	4 .08	4 .08	
NO RESP- 00	36 .75	44 .91	44 .91	44 .91	36 .75	36 .75	32 .66*
TOTAL F	48	48	48	48	48	48	48

	COMP CTR F RF	LIBR.SCI. F RF	EXTRA-INST. F RF
R&D AND GRADUATE INSTRUCTION	12 .25*	12 .25*	16 .33*
NO RESP- 00	36 .75*	36 .75*	32 .66*
TOTAL F	48	48	48
(TOTAL)	48 1.00	48 1.00	48 1.00

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

PAGE VII-4

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 2   LEVEL 3   POP. SIZE 60

SAMPLE SIZE 18

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

	ENG F	ENG RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
R&D AND GRADUATE INSTRUCTION CLASS LIMITS														
76-100													3	.05*
51- 75													7	.11*
26- 50			3	.05			3	.05	3	.05	3	.05	3	.05*
01- 25	10	.16	20	.33	3	.05	7	.11	7	.11	7	.11	13	.22*
NO RESP-00	50	.83	37	.61	57	.95	53	.88	50	.83	50	.83	33	.55*
TOTAL F	60		60		60		60		60		60		59	
UNDER-GRAD INSTRUCTION														
76-100									13	.21			13	.22*
51- 75	7	.11											7	.11*
26- 50	7	.11					13	.21	3	.05	3	.05	13	.22*
01- 25			20	.33	10	.16			7	.11	17	.28	3	.05*
NO RESP- 00	47	.77	40	.66	50	.83	47	.78	37	.61	40	.66	23	.38*
TOTAL F	61		60		60		60		60		60		59	
TOTAL R&D AND INSTRUCTION 1964-65														
76-100	3	.05	3	.05	3	.05	13	.21	13	.21	3	.05	40	.66*
51- 75	3	.05					3	.05	3	.05				
26- 50	7	.11							7	.11	7	.11		
01- 25			27	.45	10	.16	17	.28			13	.21		
NO RESP- 00	47	.78	30	.50	50	.83	43	.71	37	.61	37	.61	20	.33*
TOTAL F	60		60		60		60		60		60		60	
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100									10	.16			37	.60*
51- 75	7	.11							7	.11			7	.11*
26- 50			3	.05	3	.05	3	.05	3	.05	10	.16		
01- 25	10	.16	20	.33	20	.33	23	.38	13	.21	13	.21		
NO RESP- 00	43	.71	27	.45	40	.66	33	.55	27	.45	37	.61	17	.27*
TOTAL F	60		60		60		59		60		60		61	

	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
R&D AND GRADUATE	17	.28				
	43	.71				
	60					
UNDER-GRAD			3	.05		
			10	.16		
			47	.78		
			60			
TOTAL 1964-65					7	.11
					13	.21
					40	.66
					60	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF G465

CTL 1   TYPE 2   LEVEL 4   POP. SIZE   7

SAMPLE SIZE   7

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100														
51- 75														
26- 50			1	.14	3	.42	3	.42			3	.42	2	.28
01- 25			2	.28					2	.28			3	.42
NO RESP-00	7	1.00	4	.57	4	.57	4	.57	5	.71	4	.57	2	.28
TOTAL F	7		7		7		7		7		7		7	

COMP CTR: F 2 RF .28 ; F 5 RF .71 ; TOTAL F 7

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			1	.14					1	.14			2	.28
51- 75													1	.14
26- 50											2	.28	3	.42
01- 25	1	.14	4	.57	4	.57	5	.71	1	.14	2	.26	1	.14
NO RESP-00	6	.85	2	.28	3	.42	2	.28	5	.71	3	.42		
TOTAL F	7		7		7		7		7		7		7	

LIBR.SCI.: F 1 RF .14 ; F 6 RF .85 ; TOTAL F 7

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			3	.42	1	.14			1	.14	1	.14	6	.85
51- 75			2	.28	3	.42	5	.71			1	.14		
26- 50			2	.28	3	.42	2	.28	1	.14	2	.28		
01- 25	1	.14							5	.71	3	.42	1	.14
NO RESP-00	6	.85												
TOTAL F	7		7		7		7		7		7		7	

EXTRA-INST.: F 1 RF .14 ; F 6 RF .85 ; TOTAL F 7

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			2	.28	1	.14			1	.14			4	.57
51- 75			3	.42	4	.57	1	.14	1	.14			1	.14
26- 50			2	.28	2	.28	4	.57	2	.28	3	.42	1	.14
01- 25	1	.14					2	.28	3	.42	4	.57		
NO RESP-00	6	.85												
TOTAL F	7		7		7		7		7		7		7	

LIBR.SCI.: F 2 RF .28 ; F 5 RF .71 ; TOTAL F 7

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 4   LEVEL 3

SAMPLE SIZE 33   POP. SIZE 116

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF
R&D AND GRADUATE INSTRUCTION																
76-100																
51- 75													14	.12	14	.12
26- 50													14	.12	14	.12
01- 25	14	.12	14	.12			14	.12	7	.06	11	.09	88	.75	88	.75
NO RESP-00	116	1.00	102	.87	116	1.00	102	.87	11	.09	11	.09				
									98	.84	105	.90				
TOTAL F	116		116		116		116		116		116		116		116	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	LIBR.SCI. F	RF
UNDER-GRAD INSTRUCTION																
76-100	4	.03	4	.03			4	.03	4	.03	4	.03	14	.12		
51- 75													7	.06		
26- 50	4	.03	4	.03			11	.09	11	.09	4		11	.09		
01- 25	11	.09	11	.09	7	.06	105	.90			14	.11	84	.72	7	.06
NO RESP-00	98	.83	98	.83	109	.93			102	.87	95	.81			109	.93
TOTAL F	117		117		116		116		117		117		116		116	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
TOTAL R&D AND INSTRUCTION 1964-65																
76-100	4	.03	4	.03			4	.03	11	.09	4	.03	32	.27		
51- 75	4	.03	4	.03					4	.03	4	.03				
26- 50	4	.03	4	.03			14	.12			4	.03				
01- 25	7	.05	7	.05	7	.06	102	.87	4	.03	11	.09	84	.72	116	1.00
NO RESP-00	112	.96	98	.83	109	.93			98	.83	95	.80	116		116	
TOTAL F	116		117		116		116		117		118		116		116	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
TOTAL R&D AND INSTR. PROJECTED 1968-69																
76-100			11	.09			11	.09	11	.09	4	.03	35	.30		
51- 75	11	.09	7	.06							4	.03				
26- 50	7	.06					14	.11	14	.11	4	.03	11	.09	11	.09
01- 25	14	.12	14	.12	28	.24	28	.24	11	.09	25	.21	70	.60	105	.90
NO RESP-00	84	.72	84	.72	86	.75	88	.75	81	.69	81	.68	116		111	
TOTAL F	116		116		116		116		117		118		116			

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)

PAGE VII-7

CTL 1   TYPE 4   LEVEL 4

SAMPLE SIZE   5   POP. SIZE   5

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

	CLASS LIMITS	ENG		PHYS.SCI.		LIFE SCI.		SOC.SCI.		COMP.SCI.		OTHER		TOTAL	
		F	RF	F	RF	F	RF	F	RF	F	RF	F	RF	F	RF
R&D AND GRADUATE INSTRUCTION	76-100													1	.20
	51- 75														
	26- 50														
	01- 25			1	.20	1	.20	2	.40			2	.40	1	.20
	NO RESP-00	5	1.00	4	.80	4	.80	3	.60	5	1.00	3	.60	3	.60
	TOTAL F	5		5		5		5		5		5		5	
UNDER-GRAD INSTRUCTION	76-100													1	.20
	51- 75													1	.20
	26- 50														
	01- 25							1	.20	1	.20	1	.20		
	NO RESP-00	5	1.00	5	1.00	5	1.00	4	.80	4	.80	3	.60	3	.60
	TOTAL F	5		5		5		5		5		5		5	
TOTAL R&D AND INSTRUCTION 1964-65	76-100														
	51- 75													2	.40
	26- 50														
	01- 25			1	.20	1	.20	2	.40	1	.20	1	.20		
	NO RESP-00	5	1.00	4	.80	4	.80	3	.60	4	.80	3	.60	3	.60
	TOTAL F	5		5		5		5		5		5		5	
TOTAL R&D AND INSTR. PROJECTED 1968-69	76-100														
	51- 75							1	.20					2	.40
	26- 50							1	.20						
	01- 25			1	.20	1	.20	3	.60	1	.20	1	.20		
	NO RESP-00	5	1.00	4	.80	4	.80			4	.80	3	.60	3	.60
	TOTAL F	5		5		5		5		5		5		5	

	COMP CTR		LIBR.SCI.		EXTRA-INST.	
	F	RF	F	RF	F	RF
	1	.20	3	.60	3	.60
	4	.80	5		5	
	5					

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 5   LEVEL 2

SAMPLE SIZE 5   POP. SIZE 6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF
R&D AND GRADUATE INSTRUCTION							
76-100							
51- 75							
26- 50							
01- 25	1 .16	1 .16	6 1.00	6 1.00	1 .16	6 1.00	1 .16
NO RESP-00	5 .83	5 .83			5 .83		5 .83
TOTAL F	6	6	6	6	6	6	6

COMP CTR   F RF   TOTAL 2 .33

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF
UNDER-GRAD INSTRUCTION							
76-100							
51- 75							
26- 50	2 .33	1 .16	1 .16	2 .33	2 .33	2 .33	4 .66
01- 25		1 .16					
NO RESP-00	4 .66	4 .66	5 .83	4 .66	4 .66	4 .66	
TOTAL F	6	6	6	6	6	6	6

LIBR.SCI.   F RF   TOTAL 4 .66 / 6

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF
TOTAL R&D AND INSTRUCTION 1964-65							
76-100							
51- 75							
26- 50	2 .33	1 .16	1 .16	2 .33	2 .33	2 .33	2 .33
01- 25		1 .16					
NO RESP-00	4 .66	4 .66	5 .83	4 .66	4 .66	4 .66	4 .66
TOTAL F	6	6	6	6	6	6	6

EXTRA-INST.   F RF   TOTAL 2 .33

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF
TOTAL R&D AND INSTR. PROJECTED 1968-69							
76-100							
51- 75							
26- 50	2 .33	1 .16	1 .16	2 .33	2 .33	2 .33	2 .33
01- 25		1 .16					
NO RESP-00	4 .66	4 .66	5 .83	4 .66	4 .66	4 .66	4 .66
TOTAL F	6	6	6	6	6	6	6

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AS WELL AS THE TWO ABOVE IT.

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RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 5   LEVEL 3

SAMPLE SIZE 6   POP. SIZE 7
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
R&D AND GRADUATE INSTRUCTION														
76-100			1	.14									1	.14
51- 75														
26- 50														
01- 25	1	.14												
NO RESP-00	6	.85	6	.85	7	1.00	7	1.00	7	1.00	7	1.00	6	.85
TOTAL F	7		7		7		7		7		7		7	
UNDER-GRAD INSTRUCTION														
76-100	2	.33											5	.71
51- 75	2	.33												
26- 50														
01- 25	1	.16	1	.14	1	.14	1	.14			1	.14	1	.14
NO RESP-00	1	.16	6	.85	6	.85	6	.85	7	1.00	2	.28	1	.14
											4	.57		
TOTAL F	6		7		7		7		7		7		7	
TOTAL R&D AND INSTRUCTION 1964-65														
76-100	2	.33	1	.14									6	.85
51- 75	2	.33												
26- 50														
01- 25	1	.16	1	.14	1	.14	1	.14			1	.14	1	.14
NO RESP-00	1	.16	5	.71	6	.85	6	.85	7	1.00	2	.28	7	1.00
											4	.57		
TOTAL F	6		7		7		7		7		7		7	
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100	1	.16	1	.14									6	.85
51- 75	2	.33	1	.14										
26- 50														
01- 25	2	.33	1	.14	2	.28	1	.14			1	.14	1	.14
NO RESP-00	1	.16	4	.57	5	.71	6	.85	7	1.00	2	.28	7	1.00
											4	.57		
TOTAL F	6		7		7		7		7		7		7	

COMP CTR F RF

LIBR.SCI. F RF
****

EXTRA-INST. F RF
****

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AS WELL AS THE TWO ABOVE IT.

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RF = F /(TOTAL F)

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CTL 1   TYPE 5   LEVEL 4

SAMPLE SIZE 6   POP. SIZE 6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
R&D AND GRADUATE INSTRUCTION														
CLASS LIMITS 76-100													3	.50
51- 75	2	.33	1	.16	1	.16	1	.16	4	.66			2	.33
26- 50	3	.50	3	.50	5	.83	5	.83	2	.33			1	.16
01- 25	1	.16	2	.33							6	1.00		
NO RESP-00											6		6	
TOTAL F	6		6		6		6		6					

COMP CTR: F 1 RF .16 ; 6

	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
UNDER-GRAD INSTRUCTION														
76-100	1	.16											1	.16
51- 75	2	.33	2	.33									2	.33
26- 50	1	.16	3	.50	1	.16	1	.16	1	.16			2	.33
01- 25	2	.33	1	.16	6	1.00	6	1.00	5	.83	6	1.00	1	.16
NO RESP-00											6			
TOTAL F	6		6		6		6		6					

LIBR.SCI.: F 4 RF .66 ; F 2 RF .33 ; 6

	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
TOTAL R&D AND INSTRUCTION 1964-65														
76-100	1	.16											5	.83
51- 75	1	.16	2	.33										
26- 50	2	.33	3	.50	1	.16	1	.16	1	.16				
01- 25	1	.16	1	.16	5	.83	5	.83	3	.50			1	.16
NO RESP-00	1	.16			6		6		2	.33	6	1.00	6	
TOTAL F	6		6						6		6			

EXTRA-INST.: F 2 RF .33 ; F 4 RF .66 ; 6

	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100	2	.33	4	.66	3	.50	3	.50	1	.16	1	.16	6	1.00
51- 75	2	.33	2	.33	3	.50	3	.50	4	.66	1	.16	1	.16
26- 50	2	.33							1	.16	4	.66	2	.33
01- 25													3	.50
NO RESP-00														
TOTAL F	6		6		6		6		6		6		6	

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RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 7   LEVEL 4

SAMPLE SIZE   8   POP. SIZE   8
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			3	.37					3	.37			5	.62*
51- 75			1	.12					5	.62			1	.12*
26- 50	1	.12	1	.12										*
01- 25			1	.12			2	.25			1	.12		*
NO RESP-00	7	.87	2	.25	8	1.00	6	.75			7	.87	2	.25*
TOTAL F	8		8		8		8		8		8		8	*

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100														*
51- 75														*
26- 50														*
01- 25	1	.12	1	.12					1	.12			1	.12*
NO RESP-00	7	.87	7	.87	8	1.00	8	1.00	7	.87	8	1.00	7	.87*
TOTAL F	8		8		8		8		8		8		8	*

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			3	.37					3	.37				*
51- 75			1	.12					5	.62			6	.75*
26- 50	1	.12	1	.12							1	.12		*
01- 25			1	.12			2	.25			1	.12		*
NO RESP-00	7	.87	2	.25	8	1.00	6	.75			7	.87	2	.25*
TOTAL F	8		8		8		8		8		8		8	*

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	1	.12	3	.37					4	.50	1	.12		*
51- 75	1	.12	2	.25					4	.50			6	.75*
26- 50	1	.12	1	.12			2	.25			1	.12		*
01- 25														
NO RESP-00	6	.75	2	.25	8	1.00	6	.75	4	.50	7	.87	2	.25*
TOTAL F	8		8		8		8		8		8		8	*

Additional columns:

	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
	2	.25	1	.12	6	.75
	6	.75	7	.87		
			8			

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AS WELL AS THE TWO ABOVE IT.

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RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 8   LEVEL 1

SAMPLE SIZE 71   POP. SIZE 400
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
R&D AND GRADUATE INSTRUCTION														
76-100													6	.01*
51- 75														*
26- 50														*
01- 25														*
NO RESP-00	400	1.00	400	1.00	400	1.00	400	1.00	400	1.00	394	.98	394	.98*
TOTAL F	400		400		400		400		400		400		400	*
UNDER-GRAD INSTRUCTION														
76-100	11	.02							51	.12	11	.02	90	.22*
51- 75											11	.02		*
26- 50									17	.04	6	.01		*
01- 25	23	.05	17	.04					11	.02	6	.01		*
NO RESP-00	366	.91	383	.95	400	1.00	400	1.00	321	.80	366	.91	310	.77*
TOTAL F	400		400		400		400		400		400		400	*
TOTAL R&D AND INSTRUCTION 1964-65														
76-100	11	.02							51	.12	17	.04	96	.24*
51- 75											11	.02		*
26- 50									17	.04	6	.01		*
01- 25	23	.05	17	.04					11	.02	6	.01		*
NO RESP-00	366	.91	383	.95	400	1.00	400	1.00	321	.80	361	.90*	304	.76*
TOTAL F	400		400		400		400		400		401		400	*
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100	11	.02							39	.09	28	.07	118	.29*
51- 75									11	.02	11	.02		*
26- 50	6	.01							23	.05	11	.02		*
01- 25	34	.08	23	.05	17	.04	17	.04	17	.04	11	.02		*
NO RESP-00	349	.87	377	.94	383	.95	383	.95	310	.77	338	.84	282	.70*
TOTAL F	400		400		400		400		400		399		400	*

	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
	17	.04	6	.01		
	383	.95	394	.98	400	1.00
	400		400		400	

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F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

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1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 1   TYPE 9   LEVEL 1

SAMPLE SIZE   8   POP. SIZE   20

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF
76-100																
51- 75																
26- 50																
01- 25															8	.38
NO RESP-00	20	1.00	20	1.00	20	1.00	20	1.00	20	1.00	20	1.00	20	1.00	8	
TOTAL F	20		20		20		20		20		20		20			

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	LIBR.SCI. F	RF
76-100																
51- 75																
26- 50																
01- 25	5	.25													8	.38
NO RESP-00	15	.75	20	1.00	20	1.00	20	1.00	13	.61	20	1.00	13	.61	8	
TOTAL F	20		20		20		20		21		20		21			

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
76-100																
51- 75																
26- 50																
01- 25	5	.25													8	.38
NO RESP-00	15	.75	20	1.00	20	1.00	20	1.00	13	.61	20	1.00	13	.61	8	
TOTAL F	20		20		20		20		21		20		21			

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100														
51- 75														
26- 50											5	.23		
01- 25	5	.25	3	.14	3	.14	3	.14	3	.14				
NO RESP-00	15	.75	18	.85	18	.85	18	.85	13	.61	20	1.00	13	.61
TOTAL F	20		21		21		21		21		20		21	

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F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

CTL 2   TYPE 1   LEVEL 3

SAMPLE SIZE 9   PUP. SIZE 9
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF
76-100													1	.11*	1	.11
51- 75			1	.11									1	.11*	1	.11
26- 50			3	.33	1	.11	3	.33	1	.11	2	.22	2	.22*	2	.22
01- 25	1	.11	5	.55	1	.11	6	.66	8	.88	7	.77	5	.55*	5	.55
NO RESP-00	8	.88			7	.77										
TOTAL F	9		9		9		9		9		9		9		9	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	LIBR.SCI. F	RF
76-100	1	.11			1	.11					1	.11	2	.22*		
51- 75													1	.11*		
26- 50	1	.11	5	.55	1	.11	3	.33	2	.22	2	.22	2	.22*		
01- 25	1	.11	4	.44	8	.88	6	.66	7	.77	6	.66	1	.11*	3	.33
NO RESP-00	6	.66											3	.33*	6	.66
TOTAL F	9		9		9		9		9		9		9		9	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
76-100	1	.11	1	.11	1	.11							2	.22*	1	.11
51- 75			1	.11									1	.11*		
26- 50	1	.11	1	.11	1	.11	3	.33	2	.22	2	.22	2	.22*		
01- 25	1	.11	3	.33	7	.77	6	.66	7	.77	6	.66	1	.11*	8	.88
NO RESP-00	6	.66	4	.44									3	.33*		
TOTAL F	9		9		9		9		9		9		9		9	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
76-100			1	.11							1	.11	5	.55*	1	.11
51- 75			1	.11											1	.11
26- 50	2	.22	4	.44	4	.44	5	.55	3	.33	3	.33	1	.11*	7	.77
01- 25	1	.11			5	.55	4	.44	6	.66	5	.55	3	.33*		
NO RESP-00	6	.66	3	.33												
TOTAL F	9		9		9		9		9		9		9		9	

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F = EST. OF FREQUENCY IN POPULATION
RF = F/(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE 1   LEVEL 4

SAMPLE SIZE 61   POP. SIZE 65

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL * F	RF *
76-100	1	.01	1	.01	2	.03			1	.01			21	.32*
51- 75	1	.01	5	.07	1	.01			1	.01			17	.26*
26- 50	7	.10	14	.21	2	.03	5	.07	1	.01	3	.04	12	.18*
01- 25	21	.32	26	.40	28	.43	34	.52	13	.20	23	.35	2	.03*
NO RESP- 00	34	.53	19	.29	32	.49	26	.40	49	.75	38	.59	13	.20*
TOTAL F	64		65		65		65		65		64		65	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL * F	RF *
76-100									1	.01			1	.01*
51- 75													2	.03*
26- 50	2	.03	3	.04			1	.01			1	.01	13	.20*
01- 25	28	.43	30	.46	12	.18	20	.30	14	.21	15	.23	32	.49*
NO RESP- 00	35	.53	32	.49	53	.81	44	.67	50	.76	49	.75	17	.26*
TOTAL F	65		65		65		65		65		65		65	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL * F	RF *
76-100	1	.01	3	.04	2	.03	2	.03	2	.03	1	.01	*53	.81*
51- 75	2	.03	7	.10	1	.01	1	.01	1	.01				
26- 50	14	.21	19	.29	2	.03	2	.03	1	.01	2	.03		
01- 25	17	.26	16	.25	30	.46	34	.52	18	.27	26	.40		
NO RESP- 00	31	.47	19	.29	30	.46	26	.40	43	.66	36	.55	*12	.18*
TOTAL F	65		64		65		65		65		65		65	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL * F	RF *
76-100	1	.01	4	.06	1	.01			2	.03	1	.01	48	.73*
51- 75			5	.07	1	.01			1	.01			5	.07*
26- 50	12	.18	20	.31	5	.07	4	.06	2	.03	2	.03		
01- 25	21	.32	17	.26	34	.53	37	.57	27	.41	30	.46		
NO RESP- 00	31	.47	18	.28	23	.35	23	.35	33	.50	32	.49	12	.18*
TOTAL F	65		64		64		64		65		65		65	

Additional columns (right of column of asterisks)

Class limits	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
26- 50	2	.03	2	.03	1	.01
01- 25	27	.41	7	.10	21	.32
NO RESP- 00	36	.55	55	.85	43	.66
TOTAL F	65		64		65	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)

CTL 2   TYPE 2   LEVEL 2

SAMPLE SIZE 81   POP. SIZE 508
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
R&D AND GRADUATE INSTRUCTION														
76-100														
51- 75														
26- 50			6	.01	6	.01	6	.01			6	.01	6	.01
01- 25														
NO RESP-00	508	1.00	502	.98	502	.98	502	.98	508	1.00	502	.98	502	.98
TOTAL F	508		508		508		508		508		508		508	
UNDER-GRAD INSTRUCTION														
76-100	6	.01	13	.02			6	.01	6	.01	13	.02	56	.11
51- 75			6	.01					6	.01			6	.01
26- 50	6	.01	19	.03	25	.04	25	.04	6	.01	25	.04		
01- 25														
NO RESP-00	495	.97	470	.92	483	.95	483	.95	489	.96	470	.92	445	.87
TOTAL F	507		508		508		508		507		508		507	
TOTAL R&D AND INSTRUCTION 1964-65														
76-100	6	.01	13	.02			6	.01	6	.01	13	.02	63	.12
51- 75			13	.02										
26- 50	6	.01	13	.02	25	.04	25	.04	6	.01	25	.04		
01- 25									6	.01				
NO RESP-00	495	.97	470	.92	483	.95	483	.95	489	.96	470	.92	445	.87
TOTAL F	507		509		508		508		507		508		508	
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100	6	.01	13	.02			6	.01	6	.01	13	.02	63	.12
51- 75			13	.02					6	.01				
26- 50	6	.01	13	.02	25	.04	31	.06	6	.01	25	.04		
01- 25									6	.01				
NO RESP-00	495	.97	470	.92	483	.95	477	.93	489	.96	470	.92	445	.87
TOTAL F	507		509		508		508		507		508		508	

	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
R&D AND GRADUATE INSTRUCTION						
26- 50	6	.01	19	.03		
NO RESP-00	502	.98	489	.96	508	1.00
TOTAL F	508		508		508	
UNDER-GRAD INSTRUCTION						
76-100	56	.11				
51- 75	6	.01				
NO RESP-00	445	.87	445	.87	445	.87
TOTAL F	507		507		508	
TOTAL R&D AND INSTRUCTION 1964-65						
76-100	63	.12			63	.12
NO RESP-00	445	.87	445	.87	445	.87
TOTAL F	508		508		508	
TOTAL R&D AND INSTR. PROJECTED 1968-69						
76-100	63	.12				
NO RESP-00	445	.87	445	.87	445	.87
TOTAL F	508		508		508	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

CTL 2   TYPE 2   LEVEL 3

SAMPLE SIZE 55   POP. SIZE 172
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F/RF	PHYS.SCI. F/RF	LIFE SCI. F/RF	SOC.SCI. F/RF	COMP.SCI. F/RF	OTHER F/RF	TOTAL F/RF	COMP CTR F/RF
76-100		3 .01					3 .01*	
51- 75								
26- 50							13 .07*	
01- 25	9 .05	16 .09	9 .05	19 .11	9 .05	9 .05	16 .09*	16 .09
NO RESP-00	163 .94	153 .88	163 .94	153 .88	163 .94	163 .94	141 .81*	156 .90
TOTAL F	172	172	172	172	172	172	173	172

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F/RF	PHYS.SCI. F/RF	LIFE SCI. F/RF	SOC.SCI. F/RF	COMP.SCI. F/RF	OTHER F/RF	TOTAL F/RF	LIBR.SCI. F/RF
76-100	3 .01			3 .01	13 .07	3 .01	41 .23*	
51- 75	3 .01	6 .03			3 .01		13 .07*	
26- 50		13 .07		6 .03	3 .01		3 .01*	
01- 25	9 .05	22 .12	25 .14	28 .16	6 .03	19 .11	6 .03*	
NO RESP-00	156 .91	131 .76	147 .85	134 .78	147 .85	150 .87	109 .63*	166 .96
TOTAL F	171	172	172	171	172	172	172	172

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F/RF	PHYS.SCI. F/RF	LIFE SCI. F/RF	SOC.SCI. F/RF	COMP.SCI. F/RF	OTHER F/RF	TOTAL F/RF	EXTRA-INST. F/RF
76-100	3 .01	3 .01	3 .01	3 .01	13 .07	3 .01	63 .36*	
51- 75	6 .03	13 .07			3 .01		3 .01*	
26- 50	6 .03	9 .05		13 .07	3 .01			
01- 25		16 .09	22 .12	25 .14	6 .03	22 .12	22 .12*	
NO RESP-00	156 .91	131 .76	147 .85	131 .76	147 .85	147 .85	109 .63*	166 .96
TOTAL F	171	172	172	172	172	172	172	172

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F/RF	PHYS.SCI. F/RF	LIFE SCI. F/RF	SOC.SCI. F/RF	COMP.SCI. F/RF	OTHER F/RF	TOTAL F/RF	F/RF
76-100	3 .01	3 .01	3 .01	3 .01	9 .05	3 .01	66 .38*	
51- 75	3 .01	9 .05			6 .03		6 .03*	
26- 50	16 .09	16 .09		13 .07	6 .03			
01- 25		31 .18	41 .23	34 .19	16 .09	31 .18		
NO RESP-00	150 .87	113 .65	128 .74	122 .70	134 .78	138 .80	100 .58*	166 .96
TOTAL F	172	172	172	172	171	172	172	172

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

CTL 2   TYPE 2   LEVEL 4

SAMPLE SIZE 20   POP. SIZE 22
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100														
51-75													3	.14
26-50	2	.09	2	.09			7	.31			2	.09	3	.14
01-25	2	.09	4	.19	2	.09			2	.09				
NO RESP-00	18	.81	15	.71	20	.90	15	.68	20	.90	20	.90	15	.71
TOTAL F	22		21		22		22		22		22		21	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	2	.09	1	.04	7	.31	1	.04	1	.04	2	.09	3	.14
51-75	2	.09							1	.04			1	.04
26-50	1	.04	8	.36	7	.31	7	.31	3	.13	3	.13	4	.19
01-25							1	.04					1	.04
NO RESP-00	18	.81	13	.59	15	.68	14	.63	17	.77	17	.77	12	.57
TOTAL F	22		22		22		22		22		22		21	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	1	.04	2	.09	7	.31	2	.09	1	.04	2	.09		
51-75	2	.09							1	.04				
26-50	1	.04	6	.27	7	.31	6	.27	3	.13	4	.19	10	.45
01-25														
NO RESP-00	18	.81	14	.63	15	.68	14	.63	17	.77	15	.71		
TOTAL F	22		22		22		22		22		21			

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	1	.04	4	.19	8	.36	2	.09	2	.09	1	.04	9	.40
51-75	1	.04											1	.04
26-50	1	.04	4	.19			4	.19	6	.27	4	.18		
01-25	1	.04												
NO RESP-00	18	.81	13	.61	14	.63	15	.71	14	.63	17	.77	12	.54
TOTAL F	22		21		22		21		22		22		22	

Additional categories:

	COMP CTR F	COMP CTR RF	LIBR.SCI. F	LIBR.SCI. RF	EXTRA-INST. F	EXTRA-INST. RF
	4	.18	1	.04	3	.13
	18	.81	21	.95	19	.86
	22		22		22	

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F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE 5   LEVEL 2

SAMPLE SIZE   5   POP. SIZE   14
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF	COMP CTR F RF
R&D AND GRADUATE INSTRUCTION CLASS LIMITS								
76-100								
51- 75								
26- 50								
01- 25								
NO RESP-00	14 1.00	14 1.00	14 1.00	14 1.00	14 1.00	14 1.00	14 1.00*	
TOTAL F	14	14	14	14	14	14	14	

	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF	COMP CTR F RF
UNDER-GRAD INSTRUCTION								
76-100	3 .21						6 .42*	6 .42*
51- 75	3 .21							
26- 50		6 .42			3 .21	3 .21		3 .21*
01- 25								
NO RESP-00	8 .57	8 .57		11 .78	11 .78	11 .78	8 .57*	11 .78*
TOTAL F	14	14		14	14	14	14	14

LIBR.SCI. F RF
****
8 .57*
14

	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF	COMP CTR F RF
TOTAL R&D AND INSTRUCTION 1964-65								
76-100	3 .21						6 .42*	6 .42*
51- 75	3 .21							
26- 50		6 .42		3 .21	3 .21	3 .21*		3 .21*
01- 25								
NO RESP-00	8 .57	8 .57	14 1.00	11 .78	11 .78	11 .78*	8 .57*	11 .78*
TOTAL F	14	14	14	14	14	14	14	14

EXTRA-INST. F RF
****
8 .57*
14 1.00
14

	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL F RF	COMP CTR F RF
TOTAL R&D AND INSTR. PROJECTED 1968-69								
76-100	3 .21						6 .42*	6 .42*
51- 75								
26- 50		6 .42		3 .21	3 .21	3 .21		3 .21
01- 25								
NO RESP-00	8 .57	8 .57	14 1.00	11 .78	11 .78	11 .78	8 .57*	11 .78
TOTAL F	14	14	14	14	14	14	14	14

EXTRA-INST. F RF
14 1.00
14

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AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

PAGE VII-20

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD   COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE 5   LEVEL 3

SAMPLE SIZE 5   POP. SIZE 6
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F / RF	PHYS.SCI. F / RF	LIFE SCI. F / RF	SOC.SCI. F / RF	COMP.SCI. F / RF	OTHER F / RF	TOTAL F / RF *	COMP CTR F / RF
76-100	2 .40						2 .40*	
51- 75							*	
26- 50							*	
01- 25	1 .20	2 .33			1 .16	2 .33	2 .40*	1 .16
NO RESP-00	2 .40	4 .66	6 1.00	6 1.00	5 .83	4 .66	1 .20*	5 .83
TOTAL F	5	6	6	6	6	6	5 *	6

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F / RF	PHYS.SCI. F / RF	LIFE SCI. F / RF	SOC.SCI. F / RF	COMP.SCI. F / RF	OTHER F / RF	TOTAL F / RF *	LIBR.SCI. F / RF
76-100							*	
51- 75	2 .33						1 .20*	
26- 50							*	
01- 25		2 .33			1 .16	1 .16	1 .20*	1 .16
NO RESP- 00	4 .66	4 .66	6 1.00	6 1.00	5 .83	5 .83	2 .40*	5 .83
TOTAL F	6	6	6	6	6	6	5 *	6

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F / RF	PHYS.SCI. F / RF	LIFE SCI. F / RF	SOC.SCI. F / RF	COMP.SCI. F / RF	OTHER F / RF	EXTRA-INST. F / RF *
76-100	2 .40						*
51- 75	2 .40						*
26- 50							*
01- 25		2 .33			1 .16	2 .33	*
NO RESP- 00	1 .20	4 .66	6 1.00	6 1.00	5 .83	4 .66	1 .16*
TOTAL F	5	6	6	6	6	6	6 * / 5 .83*

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F / RF	PHYS.SCI. F / RF	LIFE SCI. F / RF	SOC.SCI. F / RF	COMP.SCI. F / RF	OTHER F / RF	EXTRA-INST. F / RF *
76-100	2 .40						*
51- 75	2 .40						*
26- 50							*
01- 25		2 .33			1 .16	2 .33	*
NO RESP- 00	1 .20	4 .66	6 1.00	6 1.00	5 .83	4 .66	1 .16*
TOTAL F	5	6	6	6	6	6	6 * / 5 .83*

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

CTL 2   TYPE 5   LEVEL 4

SAMPLE SIZE 7   POP. SIZE 9

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT AT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF*
76-100														
51-75	1	.12											5	.55*
26-50	1	.12	1	.12	4	.44	3	.33	5	.55	3	.33	1	.11*
01-25	6	.75	6	.75	5	.55	6	.66	4	.44	6	.66	3	.33*
NO RESP-00			1	.12										
TOTAL F	8		8		9		9		9		9		9	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF*
76-100													3	.29*
51-75														
26-50	3	.33	1	.12					1	.12	1	.11	4	.40*
01-25	6	.66	6	.75	9	1.00	9	1.00	6	.75	3	.33	3	.29*
NO RESP-00			1	.12					1	.12	5	.55		
TOTAL F	9		8		9		9		8		9		10	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF*
76-100	1	.12	1	.12										
51-75	1	.12	1	.12										
26-50	5	.62	5	.62	4	.44	3	.33	3	.33	1	.11		
01-25	1	.12	1	.12	5	.55	6	.66	5	.55	3	.33	9	1.00*
NO RESP-00									1	.11	5	.55		
TOTAL F	8		8		9		9		9		9		9	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF*
76-100	1	.12	1	.12									8	.88*
51-75			1	.12									1	.11*
26-50	6	.75	5	.62	5	.55	3	.33	3	.33	1	.11		
01-25	1	.12	1	.12	4	.44	6	.66	5	.55	5	.55		
NO RESP-00									1	.11	3	.33		
TOTAL F	8		8		9		9		9		9		9	

Additional categories at right of asterisk column (COMP CTR, LIBR.SCI., EXTRA-IN.T.):

	F	RF
COMP CTR	3	.29*
LIBR.SCI.	4	.44
	5	.55
	9	
EXTRA-IN.T.	1	.11
	8	.88
	9	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE 7   LEVEL 3

SAMPLE SIZE 11   PUP. SIZE 13
SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

		ENG		PHYS.SCI.		LIFE SCI.		SOC.SCI.		COMP.SCI.		OTHER		TOTAL	
	CLASS LIMITS	F	RF	F	RF	F	RF	F	RF	F	RF	F	RF	F	RF
R&D AND	76-100														
GRADUATE	51- 75														
INSTRUCTION	26- 50														
	01- 25							1	.07	1	.07	1	.07	2	.15
	NO RESP-00	13	1.00	13	1.00	13	1.00	12	.92	13	1.00	12	.92	11	.84
	TOTAL F	13		13		13		13		13		13		13	
UNDER-GRAD	76-100														
INSTRUCTION	51- 75	1	.07	2	.15			1	.08			1	.07	4	.30
	26- 50														
	01- 25														
	NO RESP-00	12	.92	11	.84	13	1.00	9	.75	12	.92	12	.92	9	.69
	TOTAL F	13		13		13		12		13		13		13	
TOTAL R&D	76-100														
AND	51- 75	1	.07	2	.15			1	.08			1	.07	4	.30
INSTRUCTION	26- 50														
1964-65	01- 25														
	NO RESP-00	12	.92	11	.84	13	1.00	9	.75	12	.92	12	.92	9	.69
	TOTAL F	13		13		13		12		13		13		13	
TOTAL R&D	76-100														
AND INSTR.	51- 75	1	.07	2	.15			1	.08			1	.07	4	.30
PROJECTED	26- 50														
1968-69	01- 25							1	.07	1	.07	1	.07	1	.07
	NO RESP-00	12	.92	11	.84	12	.92	9	.75	12	.92	12	.92	12	.92
	TOTAL F	13		13		13		12		13		13		13	

	COMP CTR		LIBR.SCI.		EXTRA-INST.	
	F	RF	F	RF	F	RF
			13	1.00	13	1.00
			13		13	
			9	.69	9	.69
			13		13	
			13	1.00	13	1.00
			13		13	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS
AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL 2   TYPE 7   LEVEL 4

SAMPLE SIZE 9   POP. SIZE 11

SAMPLE(LEFT COLUMN)   POPULATION(RIGHT COLUMN)

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

	CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
R&D AND	76-100					2	.20							4	.36*
GRADUATE	51- 75					2	.20							1	.09*
INSTRUCTION	26- 50														*
	01- 25														*
	NO RESP-00	11	1.00	11	1.00	6	.60	11	1.00	1	.09	1	.09	6	.54*
	TOTAL F	11		11		10		11		10	.90	10	.90	11	*
										11		11			*
UNDER-GRAD	76-100														*
INSTRUCTION	51- 75														*
	26- 50														*
	01- 25														*
	NO RESP-00	11	1.00	11	1.00	11	1.00	11	1.00	11	1.00	11	1.00	11	1.00*
	TOTAL F	11		11		11		11		11		11		11	*
TOTAL R&D	76-100					2	.20			1	.09	1	.09	5	.45*
AND	51- 75					2	.20								*
INSTRUCTION	26- 50														*
1964-65	01- 25														*
	NO RESP-00	11	1.00	11	1.00	6	.60	11	1.00	10	.90	10	.90*	6	.54*
	TOTAL F	11		11		10		11		11		11		11	*
TOTAL R&D	76-100					1	.09			1	.10	1	.09	4	.36*
AND INSTR.	51- 75					4	.36			2	.20			1	.09*
PROJECTED	26- 50														*
1968-69	01- 25														*
	NO RESP-00	11	1.00	1	.09	6	.54	11	1.00	7	.70	10	.90	6	.54*
	TOTAL F	11		10	.90	11		11		10		11		11	*
				11											*

	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
	1	.09	2	.18	1	.09
	1	.09	9	.81	10	.90
	9	.81	11		11	
	11					

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RF = F /(TOTAL F)

PAGE VII-24

CTL 1   TYPE X   LEVEL 1

COMBINED SAMPLE SIZE   82   POP. SIZE   428

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
R&D AND GRADUATE INSTRUCTION														
76-100											6	.01	6	.01
51- 75														
26- 50														
01- 25														
NO RESP-00	428	1.00	428	1.00	428	1.00	428	1.00	428	1.00	422	.98	422	.98
TOTAL F	428		428		428		428		428		428		428	
UNDER-GRAD INSTRUCTION														
76-100	11	.02							59	.13	11	.02	98	.22
51- 75											11	.02		
26- 50									17	.03	6	.01		
01- 25	28	.06	17	.03					11	.02	6	.01		
NO RESP- 00	389	.90	411	.96	428	1.00			342	.79	394	.92	331	.77
TOTAL F	428		428		428				429		428		429	
TOTAL R&D AND INSTRUCTION 1964-65														
76-100	11	.02							59	.13	17	.03	104	.24
51- 75											11	.02		
26- 50									17	.03	6	.01		
01- 25	28	.06	17	.03					11	.02	6	.01		
NO RESP- 00	389	.90	411	.96	428	1.00			342	.79	389	.90	325	.75
TOTAL F	428		428		428				429		429		429	
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100	11	.02									28	.06	126	.29
51- 75											11	.02		
26- 50	6	.01			3						11	.02		
01- 25	39	.09	42	.09	23	.05	20	.04			11	.02		
NO RESP- 00	372	.86	387	.90	403	.93	409	.95	331	.77	366	.85	303	.70
TOTAL F	428		429		429		429		429		427		429	

Additional categories:

	TOTAL F	TOTAL RF	COMP CTR F	COMP CTR RF	LIBR.SCI. F	LIBR.SCI. RF	EXTRA-INST. F	EXTRA-INST. RF
428	1.00		98	.22				
					17	.03	6	.01
422	.98				411	.96	422	.98
428					428		428	
			428	1.00				
			428					

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F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)

CTL 1   TYPE X   LEVEL 2

COMBINED SAMPLE SIZE 27   POP. SIZE 92

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL * F RF *
76-100							
51-75							
26-50							
01-25	1 .01				1 .01		1 .01
NO RESP-00	91 .98	92 1.00	92 1.00	92 1.00	91 .98	92 1.00	91 .98
TOTAL F	92	92	92	92	92	92	92

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL * F RF *	COMP CTR F RF
76-100		8 .08			4 .04	4 .04	18 .19*	18 .19
51-75					4 .04	6 .06		
26-50	2 .02	1 .01			2 .02			
01-25	8 .08	1 .01	1 .01	1 .01				
NO RESP-00	82 .89	82 .89	91 .98	91 .98	82 .89	82 .89	74 .80*	74 .80
TOTAL F	92	92	92	92	92	92	92	92 1.00 / 92

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL * F RF *	LIBR.SCI. F RF
76-100		8 .08			4 .04	4 .04	18 .19*	18 .19
51-75					4 .04	6 .06		
26-50	2 .02	1 .01			2 .02			
01-25	8 .08	1 .01	1 .01	1 .01				
NO RESP-00	82 .89	82 .89	91 .98	91 .98	82 .89	82 .89	74 .80*	74 .80
TOTAL F	92	92	92	92	92	92	92	92 1.00 / 92

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F RF	PHYS.SCI. F RF	LIFE SCI. F RF	SOC.SCI. F RF	COMP.SCI. F RF	OTHER F RF	TOTAL * F RF *	EXTRA-INST. F RF
76-100		8 .08			8 .08	4 .04	23 .25*	23 .25
51-75	4 .04				6 .06	6 .06		
26-50	2 .02	1 .01		6 .06				
01-25	8 .08	9 .09	5 .05					
NO RESP-00	78 .84	74 .80	87 .94	85 .92	78 .84	82 .89	69 .75*	69 .75
TOTAL F	92	92	92	92	92	92	92	92 1.00 / 92

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F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)

CTL 1   TYPE X   LEVEL 3

COMBINED SAMPLE SIZE 62   POP. SIZE 188

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100			1								3	.01	5	.02
51- 75			4	.02									7	.03
26- 50									10	.05			20	.10
01- 25	12	.06	36	.19	5	.02	25	.13	19	.10	19	.10	27	.14
NO RESP- 00	176	.93	147	.78	183	.97	163	.86	159	.84	166	.88	128	.68
TOTAL F	188		188		188		188		188		188		187	

COMP CTR F RF: 1 ; 25 .13 ; 162 .86 ; 188

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	2	.01	4	.02	4	.02			17	.08	4	.02	33	.17
51- 75	2	.01									4	.02	14	.07
26- 50	7	.03	4	.02			1		14	.07	5	.02	26	.13
01- 25	13	.06	34	.17	19	.10	27	.14	9	.04	34	.17	6	.03
NO RESP- 00	164	.87	147	.77	169	.89	160	.85	149	.78	142	.75	108	.57
TOTAL F	188		189		188		188		189		189		187	

LIBR.SCI. F RF: 83 .44

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	2	.01	5	.02					24	.12	7	.03	83	.44
51- 75	5	.02	8	.04					7	.03	4	.02		
26- 50	4	.02	4	.02	1		2	.01			14	.07		
01- 25	12	.06	37	.19	19	.10	35	.18	13	.06	26	.13	105	.55
NO RESP- 00	164	.87	135	.71	168	.89	151	.80	145	.76	139	.73		
TOTAL F	187		189		188		188		189		190		188	

EXTRA-INST. F RF: 7 .03 ; 24 .12 ; 157 .83 ; 188

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	1		1						21	.11	4	.02	83	.43
51- 75	2	.01	15	.07					7	.03	5	.02	7	.03
26- 50	8	.04	17	.09	1		4	.02	18	.09	16	.08	11	.05
01- 25	16	.08	39	.20	53	.28	57	.30	28	.14	42	.22		
NO RESP- 00	160	.85	116	.61	134	.71	126	.67	115	.60	123	.64	88	.46
TOTAL F	187		188		188		187		189		190		189	

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RF = F /(TOTAL F)

CTL 1   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 123   POP. SIZE 132

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100			1		5	.03							37	.28*
51- 75			9	.06	1								39	.29*
26- 50	24	.18	18	.13	6	.06	2	.01			4	.03	27	.20*
01- 25	58	.43	67	.50	78	.59	87	.65	46	.34	70	.53	10	.07*
NO RESP-00	51	.38	37	.28	40	.30	43	.32	86	.65	57	.43	19	.14*
TOTAL F	133		132		132		132		132		131		132	

COMP CTR — F RF: 8 .06 / 66 .49 / 59 .44 / TOTAL 133

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	2	.01							2	.01	1		6	.04*
51- 75									2	.01			7	.05*
26- 50	12	.09	1				1		1		3	.02	33	.25*
01- 25	61	.46	67	.50	42	.31	46	.34	46	.34	39	.29	57	.43*
NO RESP-00	57	.43	64	.48	90	.68	84	.64	81	.61	89	.67	28	.21*
TOTAL F	132		132		132		131		132		132		131	

LIBR.SCI — F RF: *115 .87*; 28 .21 / 104 .78 / TOTAL 132

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF
76-100	3	.02	1		5	.03	1		2	.01	1	
51- 75	9	.06	10	.07	2	.01			2	.01	1	
26- 50	33	.24	30	.22	9	.06	4	.03	4	.03	11	.08
01- 25	39	.29	58	.43	77	.58	85	.64	52	.39	67	.50
NO RESP-00	49	.36	33	.25	39	.29	41	.31	72	.54	52	.39
TOTAL F	133		132		132		131		132		132	

EXTRA-INST — F RF: *17 .12*

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	6	.04	1		3	.02			2	.01			101	.76*
51- 75			3	.02	5	.03					1		11	.08*
26- 50	31	.23	31	.23	6	.04	5	.03	11	.08	10	.07	2	.01*
01- 25	50	.38	67	.51	86	.65	93	.70	79	.59	68	.51		
NO RESP-00	44	.33	29	.22	32	.24	34	.25	40	.30	53	.40	18	.13*
TOTAL F	131		131		132		132		132		132		132	

EXTRA-INST — F RF: 3 .02 / 51 .38 / 78 .59 / TOTAL 132

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F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

CTL 2   TYPE X   LEVEL 2

COMBINED SAMPLE SIZE 115   POP. SIZE 702

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF
R&D AND GRADUATE INSTRUCTION																
73-100																
51- 75																
26- 50			6		6		6				6		6		22	.03
01- 25																
NO RESP-00	702	1.00	696	.99	696	.99	696	.99	702	1.00	696	.99	696	.99	680	.96
TOTAL F	702		702		702		702		702		702		702		702	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	LIBR.SCI. F	RF
UNDER-GRAD INSTRUCTION																
76-100	13	.01	13	.01							13	.01	66	.09		
51- 75	9	.01	6						6		3		6			
26- 50			19	.02	25	.03	28	.03	6		29	.04				
01- 25	6		6						9							
NO RESP-00	679	.96	658	.93	677	.96	674	.96	680	.97	657	.93	629	.89	702	1.00
TOTAL F	701		702		702		702		701		702		701		702	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	EXTRA-INST. F	RF
TOTAL R&D AND INSTRUCTION 1964-65																
76-100	13	.01	13	.01					6		13	.01	73	.10		
51- 75	9	.01	13	.01					6		3					
26- 50			13	.01	25	.03	28	.03			29	.04				
01- 25	6		6						9							
NO RESP-00	679	.96	658	.93	677	.96	674	.96	680	.97	657	.93	629	.89	702	1.00
TOTAL F	701		703		702		702		701		702		702		702	

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
TOTAL R&D AND INSTR. PROJECTED 1968-69														
76-100	9	.01	13	.01					6		13	.01	73	.10
51- 75	10	.01	13	.01					6		3			
26- 50			13	.01							4			
01- 25	3		10	.01	25	.03	38	.05	9		25	.03		
NO RESP-00	679	.96	654	.93	677	.96	664	.94	680	.97	657	.93	629	.89
TOTAL F	701		703		702		702		701		702		702	

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AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F/(TOTAL F)

CTL 2   TYPE X   LEVEL 3

COMBINED SAMPLE SIZE 96   POP. SIZE 278
POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	2		3	.01									6	.02
51-75			1		1								1	
26-50													13	.04
01-25	11	.03	21	.07	10	.03	23	.08	11	.03	14	.05	22	.07
NO RESP-00	264	.95	253	.91	267	.96	255	.91	267	.96	264	.94	236	.84
TOTAL F	277		278		278		278		278		278		278	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	4	.01					4	.01	13	.04	4	.01	48	.17
51-75	3	.01	6	.02					3	.01	1		15	.05
26-50	4	.01	13	.04			6	.02	3	.01			5	.01
01-25	10	.03	31	.11	26	.09	33	.11	10	.03	22	.07	8	.02
NO RESP-00	256	.92	228	.82	252	.90	233	.84	249	.89	251	.90	201	.72
TOTAL F	277		278		278		276		278		278		277	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	6	.02	3	.01			4	.01	13	.04	4	.01	78	.28
51-75	3	.01	14	.05					3	.01	1			
26-50	7	.02	10	.03	4	.01	13	.04	3	.01				
01-25	7	.02	23	.08	23	.08	30	.10	10	.03	26	.09		
NO RESP-00	253	.91	228	.82	251	.90	230	.83	249	.89	247	.88	200	.71
TOTAL F	276		278		278		277		278		278		278	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI. F	PHYS.SCI. RF	LIFE SCI. F	LIFE SCI. RF	SOC.SCI. F	SOC.SCI. RF	COMP.SCI. F	COMP.SCI. RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	5	.01	3	.01	3	.01	4	.01	9	.03	3	.01	80	.28
51-75	2		10	.03					6	.02	2		6	.02
26-50	6	.02	17	.06			9	.03	9	.03			1	
01-25	17	.06	39	.14	46	.16	41	.14	18	.06	36	.12		
NO RESP-00	247	.89	209	.75	229	.82	219	.79	235	.84	237	.85	191	.68
TOTAL F	277		278		278		277		277		278		278	

Additional summary columns (far right):

	COMP CTR F	COMP CTR RF	LIBR.SCI. F	LIBR.SCI. RF	EXTRA-INST. F	EXTRA-INST. RF
	20	.07	8	.02	9	.03
	258	.92	270	.97	268	.96
	278		278		278	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

COL 2   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 104   POP. SIZE 137

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF	COMP CTR F	COMP CTR RF
76-100	1		1		4	.02			1				25	.18		
51- 75	2	.01	5	.03	3	.02			1				26	.19		
26- 50	10	.07	17	.12	2	.01	5	.03	1		3	.02	16	.11	3	.02
01- 25	29	.21	36	.26	34	.25	44	.32	21	.15	29	.21	5	.03	36	.26
NO RESP-00	93	.68	76	.56	93	.68	88	.64	113	.82	104	.76	64	.47	98	.71
TOTAL F	135		135		136		137		137		136		136		137	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF	LIBR.SCI. F	LIBR.SCI. RF
76-100									1				7	.05		
51- 75	7	.05	5	.03			2	.01	1		4	.02	3	.02		
26- 50	36	.26	44	.32	19	.13	27	.19	23	.16	21	.15	21	.15	2	.01
01- 25	94	.68	87	.63	118	.86	108	.78	109	.80	112	.81	36	.26	11	.08
NO RESP-00													70	.51	123	.90
TOTAL F	137		136		137		137		136		137		137		136	

Marginal total: 77 .56

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF	EXTRA-INST. F	EXTRA-INST. RF
76-100	3	.02	3	.02	4	.02	2	.01	2	.01	1					
51- 75	5	.03	10	.07	3	.02	5	.03	2	.01	5	.03				
26- 50	20	.14	21	.15	2	.01	43	.31	5	.03	34	.25			1	
01- 25	18	.13	27	.20	41	.30	87	.63	27	.19	96	.70	60	.43	28	.20
NO RESP-00	90	.66	74	.54	86	.63			101	.73					108	.78
TOTAL F	136		135		136		137		137		136		137		137	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	ENG RF	PHYS.SCI F	PHYS.SCI RF	LIFE SCI F	LIFE SCI RF	SOC.SCI F	SOC.SCI RF	COMP.SCI F	COMP.SCI RF	OTHER F	OTHER RF	TOTAL F	TOTAL RF
76-100	3	.02	4	.02	2	.01			2	.01	1		69	.50
51- 75	1		6	.04	5	.03	6	.04	3	.02	4	.02	8	.05
26- 50	19	.13	25	.18	5	.03	44	.32	6	.04	40	.29	60	.43
01- 25	23	.16	27	.20	47	.34	85	.62	40	.29	40	.29		
NO RESP-00	90	.66	72	.53	77	.56			85	.62	92	.67		
TOTAL F	136		134		136		135		136		137		137	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY   SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 1

COMBINED SAMPLE SIZE 141   POP. SIZE 688

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF	LIBR.SCI. F	RF	EXTRA-INST. F	RF
R&D AND GRADUATE INSTRUCTION																				
76-100	11	.01																		
51- 75																				
26- 50													6							
01- 25																				
NO RESP-00	688	1.00	688	1.00	688	1.00	688	1.00	688	1.00	682	.99	682	.99	18	.02	6		688	1.00
TOTAL F	688		688		688		688		688		688		688		670 .97 / 688		682 .99 / 688		688	
UNDER-GRAD INSTRUCTION																				
76-100	11	.01							60	.08	11	.01	99	.14						
51- 75											11	.01								
26- 50									17	.02	6									
01- 25	28	.04	17	.02					11	.01	6									
NO RESP-00	649	.94	671	.97	688	1.00	688	1.00	601	.87	654	.95	590	.85						
TOTAL F	688		688		688		688		689		688		689							
TOTAL R&D AND INSTRUCTION 1964-65																				
76-100	11	.01							60	.08	17	.02	105	.15						
51- 75											11	.01								
26- 50									17	.02	6									
01- 25	28	.04	17	.02					11	.01	6									
NO RESP-00	649	.94	671	.97	688	1.00	688	1.00	601	.87	649	.94	584	.84						
TOTAL F	688		688		688		688		689		689		689							
TOTAL R&D AND INSTR. PROJECTED 1968-69																				
76-100	11	.01							45	.06	33	.04	132	.19						
51- 75									11	.01	11	.01								
26- 50	6		3						23	.03	11	.01								
01- 25	39	.05	42	.06	23	.03	20	.02	20	.02	11	.01								
NO RESP-00	632	.91	647	.93	663	.96	669	.97	590	.85	621	.90	557	.80						
TOTAL F	688		689		689		689		689		687		689							

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F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)

CTL X   TYPE X   LEVEL 2

COMBINED SAMPLE SIZE 142   POP. SIZE 794
POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF
76-100														
51- 75														
26- 50			6								6		6	
01- 25			1						1				1	
NO RESP- 00	793	.99	787	.99	788	.99	788	.99	793	.99	788	.99	787	.99
TOTAL F	794		794		794		794		794		794		794	

COMP CTR: F 22 .02, 772 .97, 794

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF
76-100	13	.01	21	.02			6		6		13		84	.10
51- 75			6				4		4				6	
26- 50	11	.01	20	.02	26	.03	29	.03	10	.01	7			
01- 25	8	.01	7						11	.01	35	.04		
NO RESP- 00	761	.95	740	.93	768	.96	765	.96	762	.96	739	.93	703	.88
TOTAL F	793		794		794		794		793		794		793	

LIBR.SCI: F 703 .88, 793

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF
76-100	13	.01	21	.02			6		6		13		91	.11
51- 75			13	.01			4		4					
26- 50	11	.01	14	.01	26	.03	29	.03	10	.01	7			
01- 25	8	.01	7						11	.01	35	.04		
NO RESP- 00	761	.95	740	.93	768	.96	765	.96	762	.96	739	.93	703	.88
TOTAL F	793		795		794		794		793		794		794	

EXTRA-INST.: F 794 1.00, 794

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF
76-100	9	.01	21	.02			1				13	.01	96	.12
51- 75	4		13	.01					6		3			
26- 50	12	.01	14	¢.01	30	.03	44	.05	14	.01	8	.01		
01- 25	11	.01	19	.02					15	.01	31	.03		
NO RESP- 00	757	.95	728	.91	764	.96	749	.94	758	.95	739	.93	698	.87
TOTAL F	793		795		794		794		793		794		794	

EXTRA-INST.: F 794 1.00, 794

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION
RF = F /(TOTAL F)

CTL X   TYPE X   LEVEL 3

COMBINED SAMPLE SIZE 158   PUP. SIZE 466
POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL* F	RF
76-100	2		4		1						3		11	.02
51- 75			5	.01									8	.01
26- 50									10	.02			33	.07
01- 25	23	.04	57	.12	15	.03	48	.10	30	.06	33	.07	49	.10
NO RESP-00	440	.94	400	.85	450	.96	418	.89	426	.91	430	.92	364	.78
TOTAL F	465		466		466		466		465		466		465	

COMP CTR — F / RF: 1; 45 .09; 420 .90; TOTAL 466

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL* F	RF
76-100	6	.01	4		4		4		30	.06	8	.01	81	.17
51- 75	5	.01	6	.01					3		5	.01	29	.06
26- 50	11	.02	17	.03			7	.01	17	.03	5		31	.06
01- 25	23	.04	65	.13	45	.09	60	.12	19	.04	56	.11	14	.03
NO RESP-00	420	.90	375	.80	421	.90	393	.84	398	.85	393	.84	309	.66
TOTAL F	465		467		466		464		467		467		464	

LIBR.SCI. — F / RF: 3; 18 .03; 445 .95; TOTAL 466

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL* F	RF
76-100	8	.01	8	.01	4		4		37	.07	11	.02	161	.34
51- 75	8	.01	22	.04					10	.02	5	.01		
26- 50	11	.02	14	.02			15	.03	3		14	.02		
01- 25	19	.04	60	.12	42	.09	65	.13	23	.04	52	.11		
NO RESP-00	417	.90	363	.77	419	.89	381	.81	394	.84	386	.82	305	.65
TOTAL F	463		467		466		465		467		466		466	

EXTRA-INST. — F / RF: 8 .01; 33 .07; 425 .91; TOTAL 466

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL* F	RF
76-100	6	.01	4				4		30	.06	7	.01	163	.34
51- 75	4		25	.05					13	.02	5	.01	13	.02
26- 50	14	.03	34	.07			17	.03	27	.05	18	.03	12	.02
01- 25	33	.07	78	.16	99	.21	98	.21	46	.09	78	.16		
NO RESP-00	407	.87	325	.69	363	.77	345	.74	350	.75	360	.76	279	.59
TOTAL F	464		466		466		464		466		468		467	

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RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL 4

COMBINED SAMPLE SIZE 227   POP. SIZE 269

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	1		2		9	.03			1				62	.23
51- 75	2		14	.05	4	.01			1				65	.24
26- 50	34	.12	35	.13	10	.03	7	.02	1		7	.02	43	.16
01- 25	87	.32	103	.38	112	.41	131	.48	67	.24	99	.37	15	.05
NO RESP-00	144	.53	113	.42	133	.49	131	.48	199	.73	161	.60	83	.30
TOTAL F	268		267		268		269		269		267		268	

COMP CTR F RF: 11 .04   102 .37   157 .58   270

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	2						3	.01	3	.01	1		13	.04
51- 75							3	.01	3	.01	1		10	.03
26- 50	19	.07	6	.02	3	.01	3	.01	3	.01	7	.02	54	.20
01- 25	97	.36	111	.41	73	.27	69	.25	69	.25	60	.22	93	.34
NO RESP-00	151	.56	151	.56	192	.71	190	.70	190	.70	201	.74	98	.36
TOTAL F	269		268		268		268		268		269		268	

LIBR.SCI. F RF: 192 .71   268

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	6	.02	4	.01	9	.03	1		4	.01	2		4	.01
51- 75	14	.05	20	.07	5	.01	2		4	.01	1		4	.01
26- 50	53	.19	51	.19	11	.04	9	.03	9	.03	16	.05	9	.03
01- 25	57	.21	85	.31	118	.44	128	.47	79	.29	101	.37	79	.29
NO RESP-00	139	.51	107	.40	125	.46	128	.47	173	.64	148	.55	173	.64
TOTAL F	269		267		268		268		269		268		269	

TOTAL F RF: 192 .71   269

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI. F	RF	LIFE SCI. F	RF	SOC.SCI. F	RF	COMP.SCI. F	RF	OTHER F	RF	TOTAL F	RF
76-100	3	.01	5	.01	5	.01			4	.01	1		170	.63
51- 75	7	.02	9	.03	10	.03			3	.01	1		19	.07
26- 50	50	.18	56	.21	11	.04	11	.04	17	.06	14	.05	2	
01- 25	73	.27	94	.35	133	.49	137	.51	119	.44	108	.40	4	.01
NO RESP-00	134	.50	101	.38	109	.40	119	.44	125	.46	145	.53	78	.28
TOTAL F	267		265		268		267		268		269		269	

EXTRA-INST. F RF: 170 .63   19 .07   2   4 .01   79 .29   186 .69   269

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

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RF = F /(TOTAL F)

1964-65 COMPUTER SURVEY SOUTHERN REGIONAL EDUCATION BOARD COMPUTER SCIENCES PROJECT

CONTRACT NSF C465

CTL X   TYPE X   LEVEL X

COMBINED SAMPLE SIZE 669   POP. SIZE 2219

POPULATION ESTIMATES

ITEM VII UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH DEVELOPMENT AND EDUCATION

R&D AND GRADUATE INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF	COMP CTR F	RF
76-100	3		6		9		7		1		9		79	.03*		
51- 75	2		19		4				1				73	.03*		
26- 50	34	.01	41	.01	11	.01			11		7		82	.03*	12	
01- 25	111	.05	161	.07	133	.07	185	.05	98	.04	138	.06	65	.02*	187	.08
NO RESP-00	2067	.93	1990	.89	2061	.89	2027	.92	2108	.91	2063	.93	1918	.86*	2021	.91
TOTAL F	2217		2217		2218		2219		2219		2217		2217		2220	

UNDER-GRAD INSTRUCTION

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF	LIBR.SCI F	RF
76-100	32	.01	25	.01			4	.01	99	.04	32	.01	277	.12*	549	.24*
51- 75	5		12						10		17		45	.02*		
26- 50	41	.01	43	.01			10		47	.02	25	.01	85	.03*		
01- 25	156	.07	200	.09	132	.09	162	.05	110	.04	157	.07	107	.04*		
NO RESP-00	1983	.89	1939	.88	2087	.87	2040	.94	1953	.88	1989	.89	1702	.76*	1671	.75*
TOTAL F	2217		2219		2219		2216		2219		2220		2216		2220	

TOTAL R&D AND INSTRUCTION 1964-65

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	EXTRA-INST. F	RF
76-100	38	.01	33	.01	9	.01	5	.01	107	.04	43	.01	5	
51- 75	22		55	.02	5	.02	2	.02	18		17			
26- 50	75	.03	79	.03	16	.03	24	.01	39	.01	43	.01		
01- 25	112	.05	169	.07	186	.07	222	.10	124	.05	194	.08	63	.02*
NO RESP-00	1968	.88	1883	.84	2002	.90	1964	.88	1932	.87	1924	.86	2150	.96*
TOTAL F	2215		2219		2218		2217		2220		2221		2218	

TOTAL R&D AND INSTR. PROJECTED 1968-69

CLASS LIMITS	ENG F	RF	PHYS.SCI F	RF	LIFE SCI F	RF	SOC.SCI F	RF	COMP.SCI F	RF	OTHER F	RF	TOTAL F	RF	F	RF
76-100	29	.01	30	.01	5	.01	5	.01	79	.03	54	.02	561	.25*	12	
51- 75	15		47	.02	10	.02			33	.01	20		32	.01*		
26- 50	82	.03	104	.04	18	.04	28	.01	81	.03	51	.02	14			
01- 25	156	.07	233	.10	285	.12	299	.13	200	.09	228	.10			112	.05
NO RESP-00	1932	.87	1803	.81	1901	.85	1884	.85	1825	.82	1867	.84	1614	.72*	2095	.94
TOTAL F	2214		2217		2219		2216		2218		2220		2221		2219	

INFORMATION IN CELL ENCLOSED BY ASTERISKS INCLUDES THREE CELLS ON RIGHT OF COLUMN OF ASTERISKS AS WELL AS THE TWO ABOVE IT.

F = EST. OF FREQUENCY IN POPULATION

RF = F /(TOTAL F)