ED 028 239

By-Rowe, Harold R.; Flitter, Hessel H.

Study on Cost of Nursing Education. Part 1: Cost of Basic Diploma Programs.

National League for Nursing, New York, N.Y.

Spons Agency-Public Health Service (DHEW), Washington, D.C. Div. of Nursing.

Pub Date 64

Grant-NU-00009

Note-108p.

Available from National League for Nursing, 10 Columbus Circle, New York, New York 10019 (\$2.00)

EDRS Price MF-\$0.50 HC Not Available from EDRS.

Descriptors-Clinical Experience, Comparative Analysis, Cost Effectiveness, Educational Economics, \*Health

Occupations Education, \*Hospitals, National Surveys, \*Nursing, \*Program Costs, Systems Approach

The cost analysis method developed in a National League for Nursing-Public Health Service study was adapted to determine the cost of nursing education in the sample of 126 hospital-supported programs in this study. Some of the findings were: (1) The median gross cost per student-year for educational functions was \$1,100 and the median riet cost (cost remaining after income intended for educational functions was subtracted) was \$900, (2) The median gross cost per student-year for noneducational functions was \$1,500 and the median net cost was \$1,400, and (3) The median estimated value of students' clinical experiences was \$750 per student-year. Separate sections of the report deal with sample selection methodology, gross costs to partner institutions, gross costs to parent institutions and cooperating agencies, real and derived income, and general comments on the cost of the program. Appendixes include explanation of the statistical methods used, a simplified example of the close-out method of cost analysis, schedules used to record cost analyses, and a listing of participating institutes. (JK)



C.1

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION

STUDY COST NURSING EDUCATION

COST OF BASIC DIPLOMA PROGRAMS

NATIONAL LEAGUE FOR NURSING

10 COLUMBUS CIRCLE, NEW YORK

1964

ATCC 4046



STUDY ON COST

OF

NURSING EDUCATION .

PART I: COST OF BASIC DIPLOMA PROGRAMS. \_\_\_\_

Prepared by

2

Harold R. Rowe 53

Hessel H. Flitter

Principal Co-investigators

This investigation was supported by Public Health Service Research Grant NU-00009 from the Division of Nursing, Public Health Service

3 NATIONAL LEAGUE FOR NURSING, TOWN MARK, MIN

1964

Code Number: 19-1142

Price \$2.00

## CONTENTS

	rage
FOREWORD	<b>v</b>
PROJECT STAFF	vi
ADVISORY COMMITTEE	vii
SAMPLE OF DIPLOMA PROGRAMS	1
METHODS USED IN THE STUDY  Beliefs Expressed in Methods of Costing  Methods for Analyzing the Costs of a Hospital-supported Diploma Program  Methods Used in Statistical Treatment of the Data  Example of Cost Analysis  Table 2. Summary of cost analysis of one participating institution	3 3 6 7 8
GROSS COST OF DIPLOMA PROGRAMS TO PARENT INSTITUTIONS  Relationship of Program Costs to the Fiscal Year of the Analysis  Gross Cost of Educational Functions  Gross Cost of Noneducational Functions  Gross Cost of Educational and Noneducational Functions  Significant Relationships between Variables and Costs to Parent Institutions  Relationships of Combinations of Variables to Costs to Parent Institutions  Relationship of Gross Cost to NLN Accreditation  Relationship of Gross Cost to the Number of Cooperating Agencies Used  Characteristics of the Most Costly and the Least Costly Programs  Supplementary Table	9 14 18 22 25 25 27 28 29 33 35
GROSS COST OF THE TOTAL DIPLOMA PROGRAM	37 37 37 45 47 49
REAL AND DERIVED INCOME  Nature of Income	56 56 56 59 60 65
GENERAL COMMENTS ON THE COST OF DIPLOMA PROGRAMS IN NURSING	68
APPENDIXES  A. Description of Statistical Methods Used in the Study	97 97
Cooperating agencies	99

## LIST OF FIGURES

	Page
Figure 1. Median Gross Cost of Educational and Noneducational Functions per Student-week to Parent Institutions, by Enrollment Size and Regional Subgroups	10
Figure 2. Median Gross Cost of Educational and Noneducational Functions per Student-week to Parent Institutions, by Type of Control and Number of Cooperating Agencies	11
Figure 3. Gross Cost of Educational Functions per Student-week to Parent Institutions, by Regional Subgroups	15
Figure 4. Gross Cost of Educational Functions per Student-week to Parent Institutions, by Type of Control	16
Figure 5. Gross Cost of Educational Functions per Student-week to Parent Institutions, by Enrollment Size Subgroups	18
Figure 6. Gross Cost of Noneducational Functions per Student-week to Parent Institutions, by Regional Subgroups	19
Figure 7. Gross Cost of Noneducational Functions per Student-week to Parent Institutions, by Type of Control	20
Figure 8. Gross Cost of Noneducational Functions per Student-week to Parent Institutions, by Enrollment Size Subgroups	21
Figure 9. Gross Cost of Educational and Noneducational Functions per Student-week to Parent Institutions, by Regional Subgroups	22
Figure 10. Gross Cost of Educational and Noneducational Functions per Student-week to Parent Institutions, by Type of Control	23
Figure 11. Gross Cost of Educational and Noneducational Functions per Student-week to Parent Institutions, by Enrollment Size Subgroups	24
Figure 12. Gross Cost of Educational and Noneducational Functions per Student-week to Parent Institutions and Cooperating Agencies	38
Figure 13. Median Gross Cost of Educational and Noneducational Functions per Student-week to Cooperating Agencies, by Type of Course	39
Figure 14. Total Income for Diploma Program per Student-week as Reported by 126 Parent Institutions	56
Figure 15. Percent of Cost of Diploma Program Met by Parent Institution	57
Figure 16. Estimated Weekly Value of Students' Clinical Experiences	61
Figure 17. Estimated Weekly Value of Student's Clinical Experience per Dollar of Net Cost of Educational and Noneducational Functions to Parent Institutions	64



#### **FOREWORD**

For many years, nursing leaders have been aware of the need for knowledge of the cost of nursing education. In 1937, the National League of Nursing Education, one of the National League for Nursing's three predecessor organizations, acted jointly with the American Hospital Association and the American Nurses' Association to establish a committee to study the cost of nursing education and nursing service. The study conducted by the committee was reported in 1940 by Pfefferkorn and Rovetta. In 1952, the newly created National League for Nursing began to study ways and means to determine the cost of nursing education and to finance nursing education. By 1953, a working committee had been established, which in turn recommended that a study to develop a method for analyzing the cost of nursing education be undertaken. This study was realized through the joint efforts of NLN and the U. S. Public Health Service. When the resulting method was published, the working committee suggested that the method be used in an investigation of the cost of nursing education programs in hospitals, colleges, and universities. In 1958, the National Institutes of Health approved a research grant to support the investigation, and in 1961, it approved an extension of the grant.

The cost analysis method developed in the NLN-PHS study was adapted to determine the cost of nursing education in the hospital-supported diploma programs that participated in the present study. The cost centers and bases for prorating costs that are used for analyzing costs of these programs differ from those used for analyzing costs of nursing programs supported by colleges and universities. Cost centers in the hospital represent units that, for the most part, provide services for patients. Cost centers in the university or college represent units that provide services for educational programs. Because of this factor and other differences between hospital-supported diploma programs and baccalaureate and associate degree programs, it was thought appropriate to present this study in two parts. Part I, which follows, deals with findings pertaining to diploma programs. Part II deals with findings pertaining to those programs leading to a baccalaureate or an associate degree.

Space does not permit separate mention of the many persons, institutions, and agencies to whom thanks are due for their contributions to the study. Among the outstanding contributions are those of the many staff members of the participating institutions who supplied data needed for the cost analyses. The staff of the study is grateful also for the suggestions of the nursing educators, general educators, university and hospital administrators, comptrollers, cost accountants, statistical analysts, and researchers who served on the study's advisory committee and for those of the members of the Steering Committee of NLN's Division of Nursing Education. Especially noteworthy were the efforts put forth by the late Eleanor Helm in getting this investigation under way.

Hessel H. Flitter Principal Investigator

New York May, 1964



<sup>1.</sup> Blanche Pfefferkorn and Charles Rovetta. Administrative Cost Analysis for Nursing Service and Nursing Education. Chicago, American Hospital Association, and New York, National League of Nursing Education, 1940.

## PROJECT STAFF

Hessel H. Flitter, Principal Investigator

Harold R. Rowe, Co-principal Investigator and Project Director

Florence Elliott, Past Director

Vivian Zane, Assistant Director

Alice Kohler, Past Assistant Director

Richard Mason, Cost Accountant

Walter Schaffner, Cost Accountant

Louis Breslow, Past Cost Accountant

Mary Elizabeth Bauhan, Consultant in Public Health Nursing Costs

Fern Kamine, Statistician

Douglas Douthit, Secretary

Essie Green, Past Secretary

## ADVISORY COMMITTEE (1963-1964)

- Florence Alexander, Director, Department of Nursing, American Medical Association, Chicago, Illinois
- Charlotte Davidson, Director of Nursing Education, Port Huron Junior College, Port Huron, Michigan
- Agnes Gelinas, Chairman, Department of Nursing, Skidmore College, New York, New York
- Marjorie Gooch, Research Analyst, Public Health Service, Washington, D. C.
- Thad Hungate, Professor of Higher Education, Teachers College-Columbia University, New York, New York
- Martha Johnson, Director, Division of Nursing, Department of Professional Services, American Hospital Association, Chicago, Illinois
- Edna S. Lepper, Associate Director, Nursing Service, Massachusetts General Hospital, Boston, Massachusetts
- William P. Miller, President, Weber College, Ogden, Utah
- Rita Mittlehauser, Accountant, Edinund F. Bowen and Company, New York, New York
- Edith D. Payne, Director of Nursing, Presbyterian-St. Luke's Hospital, Chicago, Illinois
- Mabel Reid, Statistician, Visiting Nurse Service of New York, New York, New York
- John Dale Russell, former Director, Office of Institutional Research, New York University, New York, New York
- Sister Charles Marie, Dean, School of Nursing, The Catholic University of America, Washington, D. C.
- Sister Ruth Marion, Assistant Controller, St. Vincent's Hospital of the City of New York, New York, New York
- Elton TeKolste, Executive Secretary, Indiana Hospital Association, Indianapolis, Indiana
- Granville Thompson, Manager of Institutional Activities, Lybrand, Ross Bros. and Montgomery, Boston, Massachusetts
- William K. Turner, Administrator, Newport Hospital, Newport, Rhode Island
- Howard A. Withey, Certified Public Accountant, Peat, Marwick, Mitchell and Company, New York, New York



## SAMPLE OF DIPLOMA PROGRAMS

In December, 1958, each state-approved diploma program in the United States was asked if it would be willing and able to participate in the study. The responses indicated that a truly random sampling of these programs was not possible. Of the 858 fully operating programs, 314, or 37 percent, indicated that they were willing and able to participate.

Of those willing and able to participate, a sample was selected that would possess certain independent variables as these variables existed in the population. The variables were enrollment size, type of control, and NLN geographic region. Table 1 shows, by subgroup of each variable, the number of programs in the total population, the number of programs originally selected for the study, and the number of programs actually studied. The percentages in each column are comparable.

TABLE 1. NUMBER OF PROGRAMS IN THE UNITED STATES AND NUMBER SELECTED FOR STUDY, BY VARIABLE

		Number of Programs	
Variable	In U.S.A.	Originally Selected	Actually Studied
l Envollment size			
Small	264 (31%)	47 (31.3%)	23 (18%)
Medium	303 (35%)	53 (35.3%)	53 (42%)
Large	291 (34%)	50 (33.3%)	50 (40%)
Total	858 (100%)	150 (100%)	126 (100%)
Type of control <sup>2</sup>			
Public	112 (13%)	20 (13%)	22 (17.5%)
Private S	373 (43.5%)	66 (44%)	61 (48.5%)
Private D	373 (43.5%)	64 (43%)	43 (34%)
Total	858 (100%)	150 (100%)	126 (100%)
NLN region <sup>3</sup>			
1 (North Atlantic)	322 (37.5%)	56 (37%)	47 (37%)
II (Midwest)	275 (32%)	48 (32%)	37 (29.5%)
III (South)	210 (24.5%)	36 (24%)	32 (25.5%)
IV (West)	51 (6%)	10 (7%)	10 (8%)
Total	858 (100%) . Medium = 70-119 enrolled.	150 (100%) .arge = 120 or more enrolled.	126 (100%)

<sup>1.</sup> Small = less than 70 enrolled. Medium = 70-119 enrolled. Large = 120 or more enrolled.



<sup>2.</sup> Public = federal or nonfederal government control. Private D = religious denominational control. Private S = secular control.

<sup>3.</sup> Region I = Connecticut, Delaware, District of Columbia, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont. Region II = Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin. Region III = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, Puerto Rico, South Carolina, Tennessee, Texas, Virginia, West Virginia. Region IV = Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

When the number of willing and able programs with a particular combination of variable categories was greater than the desired number, the desired number was chosen at random. All selected programs participated in the study excepting those unable to secure cooperation of all cooperating agencies connected with the program. When alternates existed, a participant that withdrew from the study was replaced by one of its alternates. If no alternate existed, a selection was made among all alternates on the basis of similarity of variable categories. The entire sample of programs was evaluated periodically for agreement with the over-all sampling design.

Of all the variable categories considered, the greatest difficulty was encountered in the study of programs with small-size enrollments. Several factors contributed to this difficulty. Many of these programs were located in small hospitals with limited accounting facilities. In several instances, the promised data were not submitted or were withdrawn after having been submitted. During the years in which the study was conducted, certain programs that had enrollments of less than 70 at the time of selection had enrollments of over 70 during the year of their cost analysis. In several instances, a replacement made for this variable differed from the original choice in another variable.

In terms of the independent variables under investigation, the sample was representative of the population of diploma programs. Because random sampling was not possible, it is unknown whether or not results are applicable to the population of diploma programs. Results are, at the least, applicable to the 314 programs that expressed willingness to participate in the study.

#### METHODS USED IN THE STUDY

## BELIEFS EXPRESSED IN METHODS OF COSTING

Certain beliefs or points of view are inherent in any method of determining cost. If one were to analyze the cost of a product by means of two methods based upon two differing beliefs, the result could be two different costs for the same product. The costs of diploma programs as reported here reflect the beliefs that underlie the method used to determine these costs. One of these beliefs is that if a hospital provides an educational program, this program is in fact a function of the hospital. According to this belief, each functional unit of the hospital, including the educational program, should bear its fair share of the operating cost of the hospital.

Another point of view is that the cost of this educational program should be looked upon as the money that would be saved if the educational program were to be discontinued. Here, the cost of the program is the cost that would be avoided if there were no educational program. The point of view of avoidable cost is not reflected in the cost analysis method used to obtain data in this study.

The following brief description of the methods employed in the present study includes both the method for analyzing the cost of diploma programs and the method used to estimate the value of the students' clinical experiences to nursing service. Appendix B offers the reader who is unfamiliar with cost analysis methods a simplified illustration of certain steps in the cost analysis.

# METHODS FOR ANALYZING THE COSTS OF AT HOSPITAL-SUPPORTED DIPLOMA PROGRAM

Throughout the study, the methods of cost analysis used for all types of institutions were those described or recommended in the NLN manual entitled Cost Analysis for Collegiate Programs in Nursing, Part 1. The manual includes a method for analyzing the costs of a hospital that serves as a cooperating agency for a collegiate program in nursing. This cost analysis includes cost centers that are applicable to a hospital setting. It was used to analyze the operating costs of all hospitals included in the study.

In five instances, a public health agency served as a cooperating agency for a diploma program. Costs in these agencies were analyzed by means of the method developed by the National Organization for Public Health Nursing (one of the three organizations that merged to form the National League for Nursing).

For each hospital offering any part of a diploma program, the cost analysis consisted of three steps: casting direct expenditures, collecting statistics used in apportioning expenditures, and apportioning these expenditures.

## Casting Direct Expenditures

Each institution's total expenditures for the most recently completed fiscal year were classified and recorded under certain headings. Each heading pertained to a function, an activity, or a department of the hospital. These headings were called cost centers. So that comparable data could be collected, it was important that the cost centers reflect the same function, activity, or department in each institution. When the institution's accounts were not classified under the desired cost centers, the study consultant in accounting assisted the institution's fiscal department in reclassifying the accounts. The cost centers used in the cost analysis of a hospital were:

- A. Staff Benefits (provisions for the welfare of employees such as group insurance, Social Security taxes, and Workmen's Compensation Insurance).
- B. Health Service (limited to a formally organized health program that included health service for employees).
- 1. Leslie W. Knott and others. Cost Analysis for Collegiate Programs in Nursing, Part I, Analysis of Expenditures. New York, National League for Nursing, 1956. Out of print.
- 2. National Organization for Public Health Nursing. Cost Analysis for Public Health Nursing Services. New York, National League for Nursing, 1950.



- C. Operation and Maintenance of Physical Plant (including maintenance of and utilities for plant operation).
- D. Administration and General Expense (limited to general administrative functions, excluding administrative functions exclusively for patients, such as the functions of the admitting office).
- E. Laundry.
- F. Housekeeping.
- G. Dietary (including dietary service for patients and all others).
- H. Employee and Student Nurse Residence (excluding residences that housed employees only).
- 1. Library (including hospital libraries used by nursing students and others, excluding the hospital's medical records department).
- J. Maintenance of the Religious (when applicable).
- K. Nursing Education: Noneducational Functions (including such functions as provisions for nursing students' housing, meals, laundry, and recreation and separate health services for nursing students).
- L. Nursing Education: Educational Functions (including such functions as provisions for the nursing students' instructional program and counseling, separate libraries for nursing students, and the keeping of educational records).
- M. All Other Hospital Functions (including all functions not included in the previous cost centers, such as the care of patients and educational programs other than the basic diploma program).
- N. Use Value of Buildings (not allocated as a cost).

The items of direct expense, such as salaries and supplies, were entered under each of these cost centers and summed to derive the total direct expenditures in each cost center. The cost centers from A, Staff Benefits, through I, Library, were general service, or overhead, cost centers. The cost centers from J, Maintenance of the Religious, through M, All Other Hospital Functions, were primary cost centers. The expenses accumulated in the overhead cost centers were distributed among the primary cost centers. Statistics were collected to show the extent to which each cost center was of service to other cost centers. For example, statistics were collected to show the number of meals eaten by persons in each cost centers. The statistics served as bases for allocating the expenses of the general service cost centers to the primary cost centers. Coordance with the amount of general services provided.

### Collecting Statistics Used in Apportioning Expenditures

The statistics collected to apportion overhead expenditures gave as accurate an account of the use of general services as was practicable. For instance, the basis for allocating the direct expenditures of the cost center Operation and Maintenance of Physical Plant was the proportion of total square footage occurring in each cost center. A more accurate picture of the use of this service could have been obtained if each participating institution had been required to install meter, to measure the amount of electricity, water, and steam supplied to each cost center, but such a requirement would have been impractical.

The following list of bases for the allocation of each general service cost center indicates the statistics used for these allocations.

Cost Center	Basis for Allocation
A. Staff Benefits	Proportion of total salaries and wages occurring in each cost center.
B. Health Service	Proportion of total health service visits made by persons in each cost center or proportion of total number of eligible persons occurring in each cost center.
C. Operation and Maintenance of Physical Plant	Proportion of total square footage occurring in each cost center.
D. Administration and General Expense	Proportion of total direct expenses occurring in each cost center.
E. Laundry	Proposition of total man-hours involved in washing and finishing laundry devoted to laundry sent by each cost center and/or proportion of total poundage sent by each cost center.

1. For a more detailed picture of the statistical data that were collected, see Appendix C.



## Cost Center

## Basis for Allocation

F. Housekeeping

Proportion of total square footage serviced by housekeeping occurring in each cost center.

G. Dietary

Proportion of total meals served to persons in each cost center.

H. Employee and Student Nurse Residence

Proportion of total rooms reserved for persons in each cost center or proportion of total weeks of occupancy occurring in each cost center.

1. Library

Proportion of total usage of library by persons in each cost center.

## Apportioning Expenses of General Service Cost Centers

Using the bases described above and the close-out, or step-down, method of cost analysis, leach general service cost center was closed out—that is, completely apportioned. Each cost center was closed out as a separate step. The general service cost centers were closed out in alphabetical sequence according to their code letters. That is, cost center A, Staff Benefits, was closed out first and cost center l, Library, was closed out last. Apportionments from any cost center were made to only those cost centers that followed it in alphabetical sequence. For example, in closing out cost center C, C's expenses were allocated to all subsequent cost centers but not to A or B. In each instance, the amount of money that was closed out was the sum of the cost center's direct expenditures plus apportionments from any other cost center. This process is illustrated on the summary sheet of the cost analysis at the end of this section.

The result of this apportionment was the isolation of the yearly cost of nursing education, including its appropriate share of the overhead cost, from the yearly cost of all the other functions, activities, and departments of the hospital.

## Determining the Net Cost of Nursing Education

The term net cost as used in this study refers to the result of subtracting the institution's real income designated for the nursing program from the institution's gross cost of operating the program. This income did not include the estimated value of the student's contribution to nursing service. It did include tuition and all fees that pertained to instruction and were credited to Educational Functions. When students were charged for room and board, health services, or health insurance, this income was credited to Noneducational Functions. When applicable, income included governmental appropriations, private gifts, and endowment income restricted to nursing education. When gifts or appropriations were not specifically designated as income to be credited to either Educational Functions or Noneducational Functions, the income was credited to Educational Functions and Noneducational Functions proportionately to the respective costs of these functions.

# Method for Estimating the Value of Student Contribution to Nursing Service

The method used to estimate the value of the student's contribution to the hospital's nursing service was the Saunders-Murchison Professional Ability-Usability Method, which is described in Part II of Cost Analysis for Collegiate Programs in Nursing.<sup>2</sup>

Briefly, the method involves three steps:

- 1. Determining the hourly rate of pay that the student would be entitled to receive if she were a full-time employee.
- 2. Reducing this value by the extent to which the student is not as usable as a full-time employee.
- 3. Determining the value of the student's contribution to nursing service by multiplying the reduced value by the hours of the clinical experience.

Two types of data were used to determine what the student would be worth as a full-time employee: the faculty's estimation of the portion of professional abilities acquired in each six months of the program and the hourly rates of pay to two categories of employees.

- 1. For a simplified explanation of this method, see Appendix B.
- 2. Leslie W. Knott and others. Cost Analysis for Collegiate Programs in Nursing, Part II, Current Income and Other Sources. New York, National League for Nursing, 1957, pp. 21 ff.



The term professional abilities was defined as the knowledge, skills, and attitudes necessary for graduation from the program. The faculty determined the percent of professional abilities that the average student possessed at the midpoint of each six-month portion of the program.

Payment for the professional ability was the amount that the hospital paid the beginning staff nurse in excess of what the hospital paid the beginning nonskilled nursing service employee. Considering the student as a full-time employee, her hourly value would be that of the nonskilled employee plus the percent of payment for professional ability commensurate with her level of professional ability.

By way of example, one faculty determined that the student had acquired 50 percent of the professional abilities at a given point in the program. In this hospital, the beginning graduate nurse was paid \$2.00 per hour. She received \$1.00 more per hour than did the beginning nonskilled nursing service employee, who was paid \$1.00 per hour. If a student at this point of the program were to have left school to become a full-time employee of the hospital, her hourly value would have been \$1.50--that is, the \$1.00 paid for nonskilled service plus \$0.50 for her professional abilities.

The head nurses and supervisors responsible for administering nursing service determined usability of the student. Usability was defined as the extent to which, compared with nursing service personnel, the students' activities during clinical experience were directed toward meeting the needs of nursing service. Usability was determined for each six-month interval of the program for each clinical area. In the previous example, at this point in the program the student's value as a full-time employee was \$1.50 per hour. On the medical-surgical unit, her usability was judged to be 50 percent of that of a nursing service employee. The corrected hourly value was \$0.75 per hour. If, during this six-month period, the student had 100 hours of medical-surgical clinical experience, her value to nursing service was \$75.00.

The dollar values resulting from the use of this method are not held to be comparable with the dollar values resulting from the cost analysis. Unlike the cost analysis, this method combines judgments of individuals (faculty, supervisors, and head nurses) with expenditures recorded in the hospital's accounts.

## METHODS USED IN STATISTICAL TREATMENT OF THE DATA

## Determining the Unit of Cost

In each institution studied, the cost of nursing education for students in the diploma program was converted into cost per student-week. This unit of cost was used for both the parent institution and the cooperating agency. (The term parent institution refers to the hospital that provided financial support for the major portion of the program. Cooperating agency refers to a hospital that provided one of the clinical courses in the program, such as a course in the nursing of children.)

The programs studied varied as to the amount of the program that was conducted in the parent institutions. Some of the hospitals had facilities for the entire program. In some instances, as much as one-fifth of the instructional weeks of the program occurred in cooperating agencies. The programs studied also varied in length, exclusive of vacation periods. Using a unit such as cost per student enrolled could have resulted in misleading comparisons among the parent institutions.

The student-weeks in the parent institution were determined by (1) computing the total student-weeks for all students enrolled during the fiscal year of the study and (2) subtracting from this total the number of student-weeks of vacation plus the number of student-weeks spent in cooperating agencies. In most of the programs studied, a student spent an average of 43 weeks in the parent institution during the year of the study.

In several of the programs in the study, the number of student-weeks of educational functions accumulated in the parent institution differed from the number of student-weeks of noneducational functions accumulated there. Usually, the parent institution was in close proximity to the cooperating agency and continued to provide its students with room and board while they were taking the course offered by the cooperating agency.

The cost per student-week for educational functions in a cooperating agency was computed by dividing the educational-functions cost of the particular course by the total number of student-weeks of educational functions accumulated by all students taking the course during the year of study. Some of the cooperating agencies studied were conducting their own diploma programs. In several of these agencies, the agency's students were taking the nursing course under study along with students from other diploma programs. When this occurred, the cost of educational functions was prorated to determine the cost of the particular course. The basis for proration was the percent of instructional salaries applicable to the nursing course being studied.

In all institutions and agencies, noneducational-functions costs per student-week are the total noneducational-functions costs for the year divided by the total number of student-weeks of noneducational functions accumulated during the year.

In a few instances, the hospital being studied as a parent institution was itself a cooperating agency in that it offered a course



to students of other diploma programs. When this occurred, the parent institution's educational-functions costs were prorated as they were when the cooperating agency had its own diploma program.

The cost of the total program was the sum of the cost of all student-weeks accumulated in all institutions or agencies offering parts of the program. The cost of the total program was divided by all student-weeks accumulated by all students in the program (exclusive of weeks of vacation) during the year. The result was the cost per student-week for the total program.

## Statistical Analysis

Measures of central tendencies of cost are usually reported in terms such as median cost (the cost midway between the highest and lowest cost) or the interquartile range of cost (the middle 50 percent of the range of all costs). These measures are customarily preferred to a mean cost (the numerical average derived by dividing the sum of all costs by the total number of cases). The mean cost can give a misleading picture of central tendency when a few of the costs are unusually small or unusually great. The median cost is not distorted by extreme cases. Median costs rather than mean costs are cited in this report.

The statistical analyses used in this study, like the median, are limited to tests that consider the rank, or the relative standing, of each case. For the purpose of comparison, the mean rank of a group of programs will be reported. This is not a numerical mean of costs. It is the average rank, or standing, of all cases in the group.

Statistical tests were used to determine whether or not certain diploma programs were significantly more costly than others. The tests used were nonparametric tests—that is, tests that can be used to test a phenomenon when the parameters (limits) of the phenomenon are unknown. The limits of the costs of diploma programs in nursing throughout the country are unknown. It is not known whether or not these costs are distributed in the pattern of a normal curve of distribution. If such knowledge had existed, the alternative, or parametric, tests could have been used. Compared with nonparametric tests, parametric tests are more powerful. That is, they are more sensitive in detecting significant differences.

The statistical tests were used to determine whether or not such characteristics as size of enrollment were related to relatively small or relatively great costs of diploma programs. If it happened that a small-size enrollment was related to relatively greater costs per student-week, this finding did not indicate that the small-size enrollment caused the cost to increase. Another characteristic of programs with small-size enrollments, not considered in this study, could have been the cause. It did indicate, however, that relatively higher costs tend to occur in programs with small-size enrollments.

Two nonparametric tests were applied to the data. When the characteristic, or variable, consisted of two subgroups (such as public control and private control), the test used was the Mann-Whitney U test. When the variable had more than two subgroups (for example, geographic location, which was divided into four subgroups—the four NLN regions), the Kruskal-Wallis one-way analysis of variance was used. The results of this test could show that there were differences in cost among the four regions, but they could not identify the region or regions that accounted for the differences.

For further description of the methods used in the study, see Appendix A.

## **EXAMPLE OF COST ANALYSIS**

Table 2 is the final schedule of the cost analysis of one participating parent institution. This schedule summarizes the results of the first and third steps of the cost analysis procedure.

The horizontal line under item 2, Total Expenses, divides the data arrived at in the first step from that arrived at in the third step. The upper portion of the table is a record of the direct expenses occurring in each cost center. The lower portion is a record of the apportionments by which each cost center was closed out. Each amount of money that was closed out is indicated by a double underline. The series of downward steps formed by the underlined sums accounts for the name step-down that is sometimes used to identify this method of analysis.

The horizontal series of figures to the right of closed-out amounts are the allocations made from those amounts to the respective centers listed in the column headings.

In columns K and L, the two nursing education cost centers, are listed the direct and indirect expenses that account for the cost of the institution's diploma program in nursing.

Table 2 summarizes the findings of 28 schedules that were used to report data for the cost analysis. The 28 schedules enumerate items of direct expense or record the process of or basis for allocations (see Appendix C).



# TABLE 2. SUMMARY OF COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

31, 1961
December
ENDED
YEAR
FISCAL
FOR
DATA

DATA FOR FISCAL YEAR ENDED December 31, 1961	ember 31, 1	961								T. TANK	d SMISSING	DIICATTON	+	USE VALUE	
	STAFF	HEALTH	OPERATION OF PHYSI-	ADMIN. & GENERAL	LAUNDRY	HOUSE -	DIETARY	STUDENT	LIBRARY	NANCE OF THE	NON-EDUCA- EDUCA- ELGNALC C.T. TONALC	EDUCA-	HOSPITAL	OF	TOTAL
* # # H H	BENEFITS (A)	SERVICES (B)	CAL PLANT (C)	EXPENSE (D)	一	(F)	(9)	RESIDENCE (H)	(I)	RELIGIOUS (J)	FUNCTIONS (K)			(N)	0)
SINSES	e	\$ 2.130	\$ 88,102	\$ 196,915	\$ 92,597	\$ 183,232 \$	251,058	<u></u>	· ·	o,	\$ 10,052	\$ 76,138	\$1,643,231	w.	\$2,543,455
Actual salaries and wages	·											•			1,700
b. Imputed salaries and wages		13/00		_				_							
c. Actual and imputed salaries and wages (total) d. Supplies and expense	133,596	3,830	88,102	196,915 197,269	92,597 10,307	183,232	251,058	889			10,052	76,138 27,719	1,643,231		2,545,155
e. Depreciation of (or capital expenditures for) equipment			81,648											163,809	81,648
f. Use value of buildings												219	(219)		
• • • • • • • • • • • • • • • • • • • •															
h. Total													2 257 700	163,809	4.153.367
2. TOTAL EXPENSES	133,596	9,563	3 314,750	394,184	102,904	207,934	452,587	889			11,56/	104,070	4, 437, 103	500,501	2010011
	133,596	107	4.622	10,340	4,863	9,619	13,199				534	3,995	86,317		
a. Starr Denerics						298	969				6,145	82	1,912		
b. Health services		77042									3 770	13.034	225.087		
c. Operation of physical plant			319,454	9,871	11,660	928	8,753	46,321			27.65				
d. Administration and general				414,681	13,602	27,493	59,838	83			1,534	13,726	298,405		
C. T. annual des					133,198			1,496		_	4,276		127,426		
				_		246,302	7,241	38,423			3,128	10,813	186,697	_	
f. Housekeeping	_							_			105,155		437,159		
8. Dietary		_									•				
h. Employee and student nurse residence								87.011			87,011				
i. Library															_
<ol> <li>Maintenance of The Religious</li> </ol>											•				
NURSING EDUCATION				_											
k. Non-educational functions											223,120	17.5 726	<del></del>		
1. Educational functions													2 620 712		
m. All other hospital functions														163.809	
n. Use value of buildings															
Separational Cares											1 223,120	0 145,726	3,620,/12	7 103,003	71 4,113,307

ERIC Full Text Provided by ERIC

# GROSS COST OF DIPLOMA PROGRAMS TO PARENT INSTITUTIONS

The data from the cost analyses in 126 parent institutions were compiled to determine the distribution of gross costs of diploma programs to the institutions offering the programs. This distribution is shown in Table 3 at the end of this chapter, in which data from the 126 institutions are listed in order of increasing gross cost per student-week for all functions of the diploma program. In the cost analyses and in all subsequent treatment of the data, the costs were considered in terms of the cost of all functions of the program and in terms of the two component functions of the program as defined in the cost analysis method-educational functions and noneducational functions. Table 3 indicates for each parent institution the portions of the total cost that pertained to educational functions and noneducational functions, respectively.

The data from the 126 cost analyses were compiled in other ways to determine whether or not a certain independent variable, such as enrollment size or geographic region, was related to relatively greater or relatively lesser gross costs to the parent institution for the diploma program.

Figures 1 and 2 are graphic illustrations of central tendencies of costs of the various functions when the 126 cases were divided into the subgroups of each variable. As is customary with cost data, the median is used to indicate the central tendency.

The upper part of Figure 1 plots the medians for the three subgroups of the variable enrollment size—small (under 70 students), medium (from 70 to 120 students), and large (120 or more students). The three black bars at the top represent the medians of the three subgroups for the gross cost of both functions of the program—the sum of the cost of educational functions plus the cost of noneducational functions.

The median for the cost of both functions is approximately \$16 (or 30 percent) more per student-week in programs of small enrollment size than it is in programs of medium or large enrollment size. The median cost of educational functions in programs of small enrollment size is 57 percent higher than the median in programs of large enrollment size.

In Figure 1 and Figure 2, there are differences among the medians of subgroups under each of the four variables. In evaluating these differences, the question to be answered was, Are the differences greater than those one would expect to occur among subgroups formed by merely shuffling the cost figures at random? The following figures do not include a factor that affects the probability of chance variation—the number of cases in a subgroup. If one were making random subgroups from a list of 100 costs, one would be more apt to randomly bring together all relatively high costs in a subgroup of 5 cases than to do so in a subgroup of 50 cases. In other words, the greater the number of items in a group, the smaller the chances of their being all relatively high costs.

## RELATIONSHIP OF PROGRAM COSTS TO THE FISCAL YEAR OF THE ANALYSIS

The cost analyses of parent institutions and cooperating agencies included in this study do not pertain to the same fiscal year. Some analyses pertain to fiscal year 1959, some to 1960, some to 1961, and a few to 1962. There were indicators, such as the cost-of-living indexes, that the fiscal year of the analysis might be a variable with a significant effect upon the cost of nursing education. If this were so, one finding of the study might be that the costs varied significantly with the fiscal year of the cost analysis. If it could be proved that they had varied significantly, this finding would complicate the interpretation of other findings of significant relationships between variables, such as the relationship between enrollment size and cost.

Therefore, the data were examined first for evidence of significant relationships between gross costs and the fiscal year of the analysis.

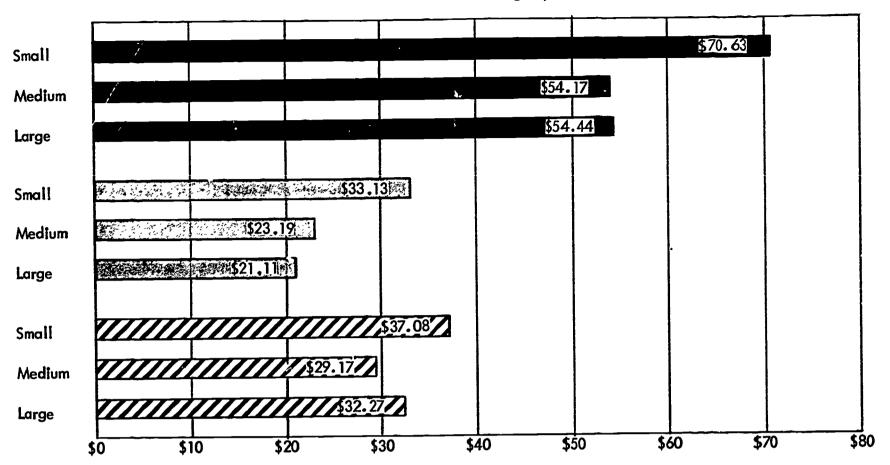
The 126 parent institutions were ranked as to the gross cost of educational functions per student-week. The institution with the lowest cost per student-week was ranked 1; that with the highest cost was ranked 126. The average rank was 63.50. The 126 institutions were divided into three subgroups—(1) those with cost analyses for fiscal year 1959, (2) those with analyses for 1960, and (3) those with analyses for either 1961 or 1962 (the small number of 1962 cases justified combining these two years). The average rank for each subgroup was computed. For purposes of comparison, the average rank of the total group (63.50) was subtracted from the average rank of each subgroup. When the result was a positive number, this indicated that the average rank (or cost) of this subgroup was higher than the average rank (or cost) of all cases. When the result was a negative number, this indi-

1. Throughout the study, the fiscal year is the year in which the last day of the fiscal period occurred.

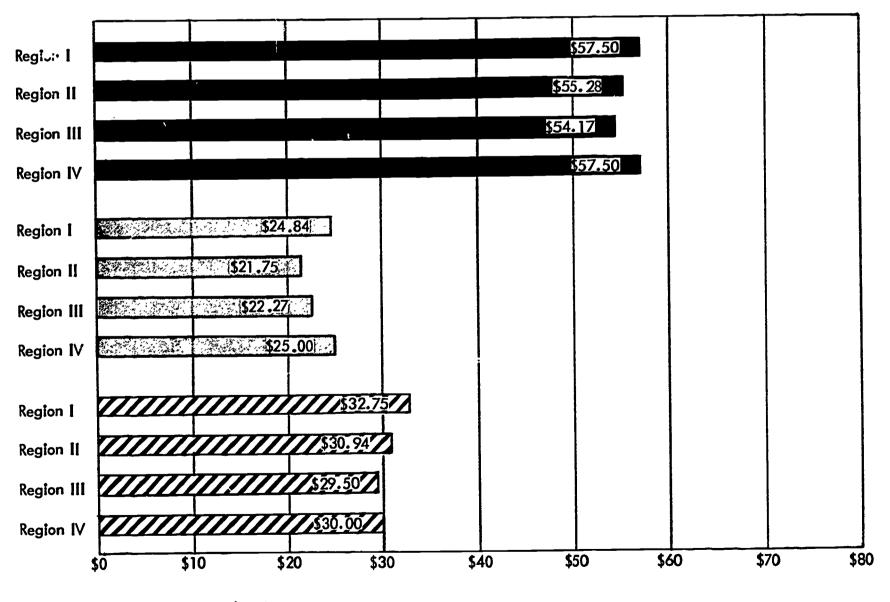


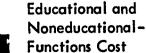
FIGURE 1. MEDIAN GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY ENROLLMENT SIZE AND REGIONAL SUBGROUPS (126 Programs)

## Enrollment Size Subgroups



### **NLN** Regional Subgroups



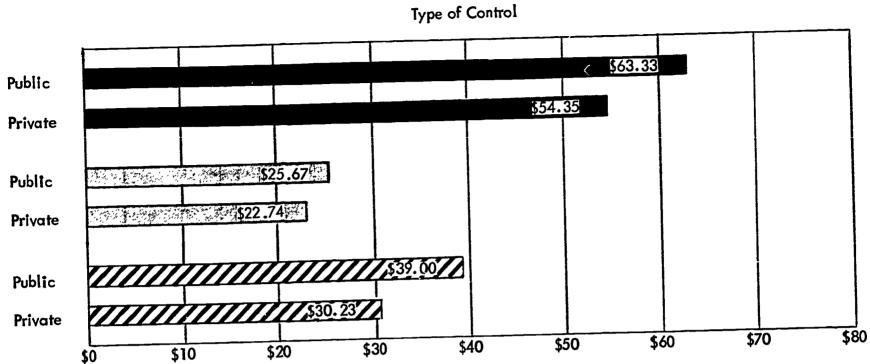


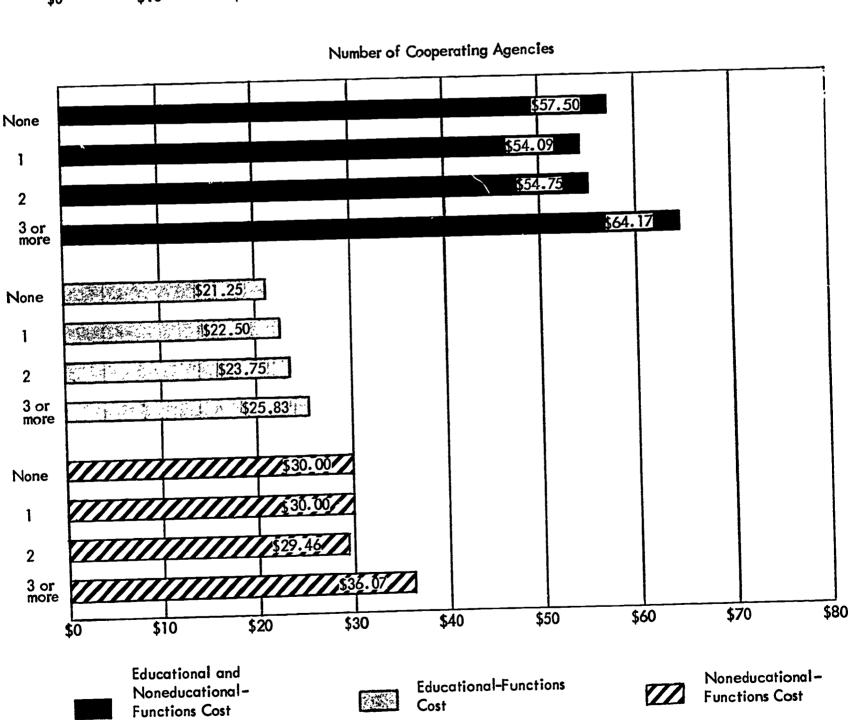
Educational-Functions
Cost





FIGURE 2. MEDIAN GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY TYPE OF CONTROL AND NUMBER OF COOPERATING AGENCIES (126 Programs)







cated that on the average, this subgroup had a somewhat 'ower cost per student-week than did all of the cases studied. The results of these operations were as follows:

Subgroup by Fiscal Year	Number of Cases	Rank of Subgroup as to Cost of Educational Functions		
	in Subgroup	Average Rank	Average Rank Minus 63.50	
1959	32	60.28	-3.22	
1960	43	61.56	-1.94	
1961 or 1962	51	67.16	3.66	

The average rank of all (126) cases.

The above table indicates that compared with the average rank for gross cost of educational functions per student-week for all parent institutions, those with studies completed in 1959 or 1960 tend to be somewhat less costly than those studied in 1961 or 1962. The Kruskal-Wallis one-way analysis of variance was used to determine whether or not the differences between the subgroups were greater than one would expect on the basis of chance alone. The results of this test (chi-square = 0.88 at 2 degrees of freedom) indicated that it was highly probable (probability is greater than .50) that selecting three subgroups of these sizes on a purely random basis could have resulted in variations as great as those observed.

When the 126 parent institutions were ranked similarly as to the gross cost of noneducational functions per student-week, the results comparable to the above were as follows:

Subgroup by Fiscal Year	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions		
	in Subgroup	Average Rank	Average Rank Minus 63.50	
1959	32	70.09	6.59	
1960	43	60.47	-3.03	
1961 or 1962	51	61.92	-1.58	

The average rank of all (126) cases.

The results of the Kruskal-Wallis one-way analysis of variance indicated that these variations were not statistically significant (chi-square = 1.40 at 2 degrees of freedom; p > .30).

When the 126 parent institutions were ranked similarly as to the gross cost of educational functions plus that of noneducational functions per student-week, the results were as follows:

Subgroup by Fiscal Year	Number of Cases	Rank of Subgroup as and Noneduc	Rank of Subgroup as to Cost of Educational and Noneducational Functions	
	in Subgroup	Average Rank	Average Rank Minus 63.50*	
1959	32	65.84	2.34	
1960	43	61.37	-2.13	
1961 or 1962	51	63.82	0.32	

The average rank of all (126) cases.

The statistical test again indicated that the above variations were not significant (chi-square = 0.28 at 2 degrees of freedom; p > .80).

Considering the cost of educational and noneducational functions either separately or combined, it did not appear that these costs were influenced appreciably by the year in which the study was completed.

A similar search was made for relationships between the fiscal year of the study and gross costs per student-week in cooper-



ating agencies. Cost analyses were completed for 119 cooperating agencies. Two of the 119 cooperating agencies did not provide noneducational functions for the diploma program students; therefore, the number of cases of noneducational and noneducational plus educational costs is limited to 117. With this exception and the resulting difference in average rank of all cases, the tables for the cooperating agencies are similar to those for the parent institutions.

The following table shows the average rank of the subgroups of cooperating agencies as to educational-functions gross costs per student-week.

	Number of Cases	Rank of Subgroup as to Cost of Educational Functions		
Subgroup by Fiscal Year	in Subgroup	Average Rank	Average Rank Minus 60.00	
1959	46	56.00	-4.00	
1960	40	60.78	0.78	
1961 or 1962	33	64.38	4.38	

<sup>\*</sup>Average rank for all (119) cases.

The results of the Kruskal-Wallis one-way analysis of variance indicated that the above variations were not statistically significant (chi-square = 1.14 at 2 degrees of freedom; p > .50).

The following table gives similar data for gross costs of noneducational functions per student-week.

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions		
Subgroup by Fiscal Year	in Subgroup	Average Rank	Average Rank Minus 59.00	
1959	46	<b>57.2</b> 8	-1.72	
1960	39	59.26	0.26	
1961 or 1962	32	61.16	2.16	

<sup>\*</sup>Average rank for all (117) cases.

The statistical test indicated that the above variations were not significant (chi-square = 0.25 at 2 degrees of freedom; p > .80).

The following table gives similar data for gross cost of educational functions plus that of noneducational functions per student-week.

	Number of Cases	Rank of Subgroup as to Cost of Educational and Noneducational Functions		
Subgroup by Fiscal Year	in Subgroup	Average Rank	Average Rank Minus 59.00*	
1959	46	57.57	-1.43	
1960	39	58.46	-0.54	
1961 or 1962	32	61.72	2.72	

<sup>\*</sup>Average rank for all (117) cases.

The statistical test indicated that the above variations were not significant (chi-square = 0.30 at 2 degrees of freedom; p > .80).

In all of the foregoing analyses of the data, there was no evidence of a significant relationship between the fiscal year of the study and the cost of nursing education to the parent institution or to the cooperating agency. That is, data collected for the study indicated that the increase in the cost of living that occurred during the study period did not necessarily result in an increase in the cost of operating a diploma program.



An analysis of the gross cost of a diploma program to one parent institution was done for the fiscal year 1959 and was repeated for the fiscal year 1962. The program had undergone two changes in this time interval: it had increased somewhat in enrollment size and the site of the course in psychiatric nursing was changed from a cooperating agency to the parent institution. Both of these were changes in the direction of increasing the number of student-weeks from 3,624 in 1959 to 4,480 in 1962—an increase of 24 percent.

A number of the items of cost within the parent institution showed an increase during the time interval. Certain of these were as follows:

Cost Item	1959 Cost	1962 Cost	Change
Staff benefits (per dollar of salary)	\$0.037	\$0.043	16% increase
Housekeeping (per square foot)	0.48	0.64	33% increase
Plant operation (per square foot)	0.69	1.03	49% increase
Laundry (per average piece)	0.04	0.07	75% increase

A rough approximation of the cost to the hospital for patient care (computed by dividing the total cost allocated to the cost center All Other Hospital Functions by the number of patient days) showed relatively less increase (6 percent) in this time interval.

As shown below, the total cost of educational and noneducational functions of the nursing program decreased slightly between 1959 and 1962. Considered separately, the cost of these two functions varied in opposite directions.

Cost Item	1959 Cost	1962 Cost	Change
Educational and noneducational functions per student-week	\$58.80	\$56.55	4% decrease
Educational functions per student-week	33.50	27.28	19% decrease
Noneducational functions per student-week	25.30	29.27	16% increase

## GROSS COST OF EDUCATIONAL FUNCTIONS

The 126 parent institutions were ranked as to gross cost per student-week for educational functions. The ranks were sorted into subgroups representing the various geographic regions, the various enrollment sizes, and the various types of control. The results of these sortings were tested to determine whether or not educational-functions costs were related to the above-mentioned variables.

The method of testing for significant differences and the tables of data pertaining to the tests are generally comparable with the methods and tables pertaining to the fiscal-year subgroups.

# Relationship of Geographic Region to Cost of Educational Functions

Figure 3 represents the distribution of educational costs in each of the four NLN regions. In numbered sequence these are: Region 1, the North Atlantic; Region 11, the Midwest; Region 11, the South; and Region IV, the West. The states included in each NLN region are listed in a footnote to Table 1.

The parent institutions were ranked by gross cost of educational functions per student-week. When the ranks were sorted by regional subgroups, there were differences among the ranks of each regional subgroup. Region IV, for instance, was 9.60 ranks above the average rank for all cases, and Region II was 9.04 ranks below the over-all average. However, when all regional subgroups were analyzed statistically, the differences among them were not significant at the .05 level of probability. The result of the Kruskal-Wallis one-way analysis of variance applied to the ranks of the regional subgroups was a chi-square of 6.73 at 3 degrees of freedom. One could expect this degree of difference to occur on the basis of chance alone about once in every 10 random sortings of 126 ranks.

Data from this analysis are given in the following table.



	Number of Cases	Rank of Subgroup as to Cost of Educational Functions	
Subgroup by NLN Region	in Subgroup	Average Rank	Average Rank Minus 63.50*
Region I	47	72.62	9.12
Region II	37	<b>54.4</b> 5	-9.04
Region III	32	57.56	-5.94
Region IV	10	73.10	9.60

<sup>\*</sup>The average rank of all (!26) cases.

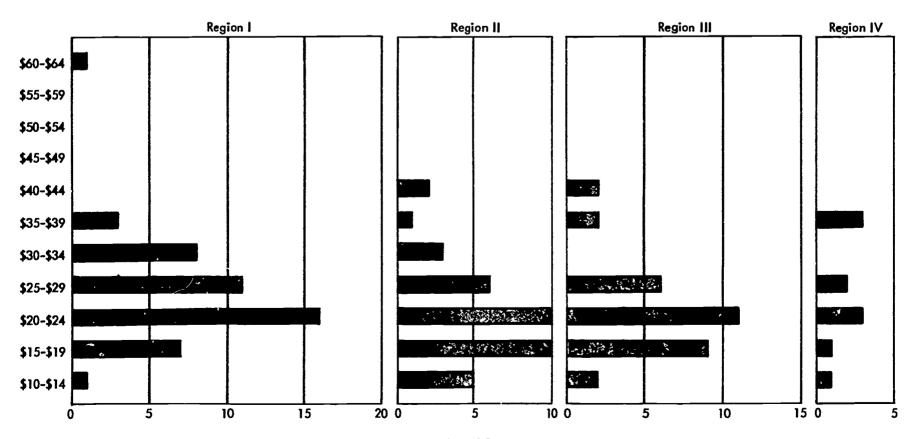
The analysis of variance among the fiscal-year subgroups resulted in a probability greater than .70. One could state with confidence that it was doubiful that the fiscal year of the analysis was related to the cost of educational functions. One could feel much less confident in discounting any relationship between the cost of educational functions and the geographic region. The search for evidence of the latter relationship was continued. Four tests (Mann-Whitney U) were done in which each subgroup was compared with all other cases considered as one subgroup. In the first test, for instance, the ranks of the 47 cases in the subgroup Region I were compared with the ranks of the remaining 79 cases.

The results of the four Mann-Whitney U tests are shown in the following table. (Probabilities are based upon standard scores (z)—that is, the number of standard deviations from the mean.)

Subgroup by NLN Region	Average Rank of Subgroup	Average of Ranks of Cases in All Other Subgroups	Standard Score ( <u>z</u> )	Probability
Region I	72.62	58.08	2.16	<.04
Region II	54.46	67.26	1.74	>.08
Region III	57.56	65.52	1.07	>.28
Region IV	<i>7</i> 3.10	62.79	0.87	>.38

According to the resulting probabilities (last column of the above table), the only finding that was significant at the .05 level of probability was that in Region I, the parent institutions tended to have higher gross costs for educational functions than did

FIGURE 3. GROSS COST OF EDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY REGIONAL SUBGROUPS (126 Programs)



Number of Programs

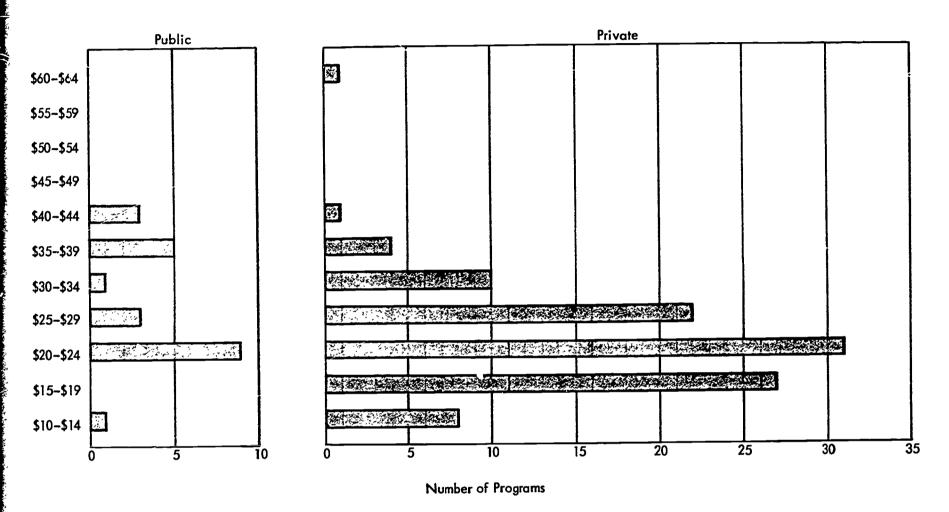


parent institutions in all other regions. Region I was 9.12 ranks above the mean rank for all cases. Region IV was 9.60 ranks above. Region I differed significantly from all other subgroups, whereas Region IV did not. This illustrates the importance of number of cases (47 in Region I and 10 in Region IV) in determining statistical significance.

# Relationship of Type of Control to Cost of Educational Functions...

Figure 4 represents the distribution of educational-functions costs in two main categories of type of control of the parent institution.

FIGURE 4. GROSS COST OF EDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY TYPE OF CONTROL (126 Programs)



In some of the subsequent analyses, additional type-of-control subgroups were used. The subgroup public was subdivided into institutions under the control of a city government and institutions under the control of other governments (county, state, and federal). The subgroup private was divided into voluntary institutions under secular control and voluntary institutions under religious control.

The variable type of control seemed to be more related to the cost of educational functions provided by parent institutions than did the variable geographic region. Data pertaining to these four subgroups are shown in the following table.

	Number of Cases	Rank of Subgroup as to Cost of Educational Functions	
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 63.50
Federal, state, and county government	10	80.50	17.00
City government	12	89.75	26.25
Private secular	61	60.52	-2.98
Private religious	43	56 .44	-7.06

The average rank of all (126) cases.

The above table indicates that when ranked as to gross cost of educational functions, parent institutions under the control of of a city government had an average rank that was 26.25 ranks higher than the average rank for all cases, and parent institutions

controlled by a religious denomination had an average rank that was 7.06 ranks lower than the over-all average.

The result of the Kruskal-Wallis one-way analysis of variance applied to the ranks of the four subgroups was a chi-square of 10.38 at 3 degrees of freedom, which indicates a significant relationship (p < .02).

Mann-Whitney U tests were used to investigate differences between each subgroup and all other cases considered as one subgroup. Data from these four analyses are presented in the following table.

Subgroup by Type of Control	Average Rank of Subgroup	Average of Ranks of Cases in All Other Subgroups	Standard Score ( <u>z</u> )	Probability
Federal, state, and county government	80.50	62.03	1.53	>.12
City government	89.75	60.74	2.62	<.009
Private secular	60.52	66.29	0.89	>.37
Private religious	56.44	67.16	1.56	>.11

The last column of the above table indicates that only in the case of programs controlled by city governments did educational-functions costs differ significantly from those of all others. The previously mentioned analysis of variance applied to the same data, however, showed that the variance among all groups was a significant one. It is are not contradictory results. The Kruskal-Wallis one-way analysis of variance was a test of all differences among the four subgroups. The Mann-Whitney U test was a test of the difference between one subgroup and a second subgroup consisting of all other cases.

An additional Mann-Whitney U test was applied to the 126 ranks divided into two subgroups by type of control: those of institutions under any type of public control and those of institutions under any type of private control. The data pertaining to the two subgroups are shown in the following table.

	Number of Cases	Rank of Subgroup as to Cost of Educational Functions	
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 63.50*
Public	22	85.55	22.05
Private	104	58.84	-4.66

<sup>\*</sup>The average rank of all (126) cases.

The standard score (z) was 3.13, and the probability was less than .002. The difference in ranks between parent institutions under public control and those under private control was a significant one.

Generally, it can be said that the costs of educational functions to the parent institutions in this study were related to the type of control of the institution. The gross cost was greatest in institutions under public control and least in institutions under private control. Parent institutions under the control of a city government had significantly higher costs for educational functions than did those under other types of control.

## Relationship of Size of Enrollment to Cost of Educational Functions

Figure 5 compares the distribution of educational-functions costs in the three enrollment-size subgroups used in the study.

As the distributions in the three subgroups indicate, there was a negative relationship between enrollment size and cost per student-week. When each school was ranked for the number of student-weeks accumulated during the year and for the cost of educational functions per student-week, the relationship between the two ranks was an rs of minus .495 (Spearman rank correlation coefficient).

The most marked difference in average rank of educational-functions gross costs was observed when the ranks of the 126 institutions were divided into three subgroups by size of enrollment—small (less than 70), medium (from 70 to 120), and large (120 or more).

The average rank of programs with less than 70 enrollments was 38.10 ranks above the over-all average. The average rank of programs with more than 120 enrollments was 15.52 ranks below the over-all average. The average ranks of the small and large enrollment subgroups were 53.62 ranks removed from one another. The result of the Kruskal-Wallis one-way analysis of variance applied to these data was a chi-square of 34.28 at 2 degrees of freedom. The probability was less than .001 that these differences would occur from chance variations alone. The following table illustrates these differences.



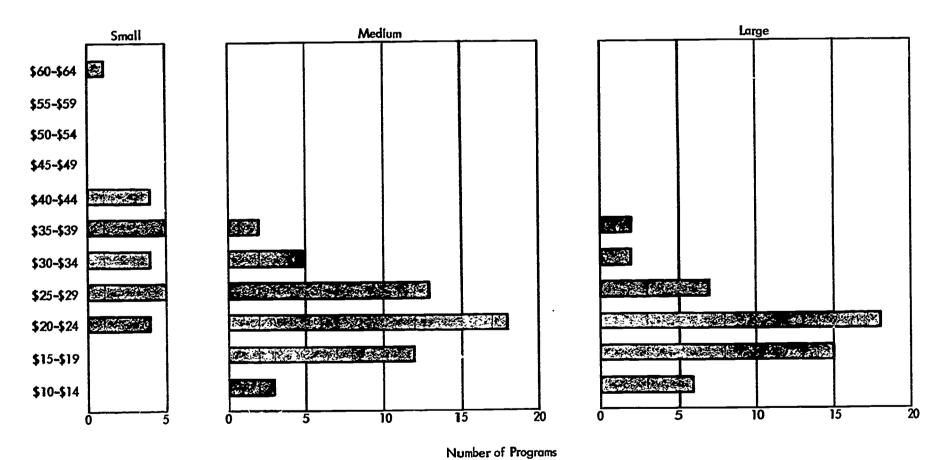
	Number of Cases	Rank of Subgroup as to Cost of Educational Functions		
Subgroup by Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 63.50*	
Small	23	101.60	38.10	
Medium (	53	61.58	-1.92	
Large	50	47.98	-15.52	

<sup>\*</sup>The average rank of all (126) cases.

The results of further tests indicated that the cost of educational functions was (1) significantly lower in programs with 120 or more students than it was in programs with fewer than 120 students and (2) significantly higher in programs with less than 70 students than it was in programs with 70 or more students. Data pertaining to the two Mann-Whitney U tests of the significance appear in the following table.

Subgroup by Enrollment Size	Average Rank of Subgroup	Average of Ranks of Cases in All Other Subgroups	Standard Score (z)	Probability
Small	101.60	54.98	5.54	<.0001
Large	47.98	73.71	3.87	<.0002

FIGURE 5. GROSS COST OF EDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY ENROLLMENT SIZE SUBGROUPS (126 Programs)



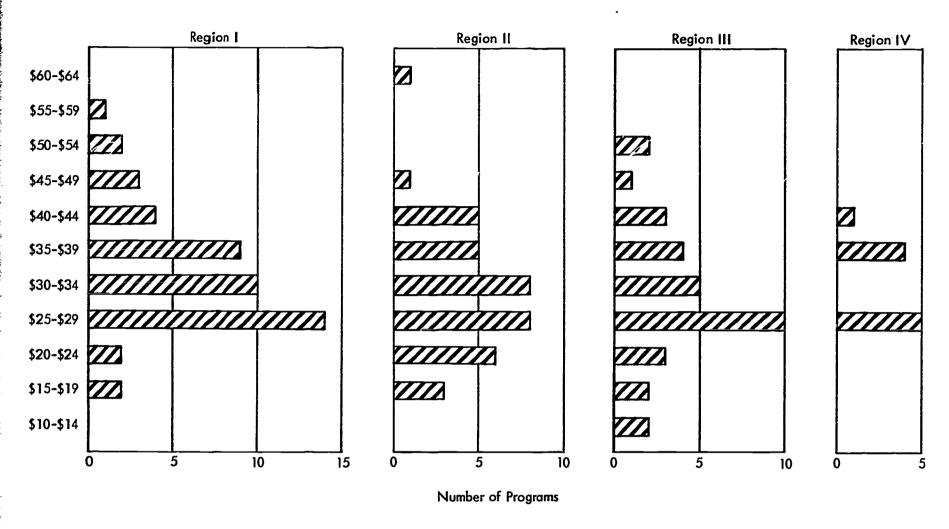
## GROSS COST OF NONEDUCATIONAL FUNCTIONS

The 126 parent institutions were ranked as to cost of noneducational functions. The tests described under relationships of variables and educational-functions cost were repeated. The same relationship between cost and the independent variables geographic region and enrollment size that occurred in the case of educational functions did not occur in the case of noneducational functions.



Figure 6 represents the distribution of noneducational-functions costs in each of the four NLN regions.

FIGURE 6. GROSS COST OF NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY REGIONAL SUBGROUPS (126 Programs)



There was no evidence of a statistically significant relationship between naneducational-functions cost and geographic region.

The following table gives data pertaining to noneducational-functions cost by geographic region.

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions	
Subgroup by NLN Region	in Subgroup	Average Rank	Average Rank Minus 63.50*
Region I	47	68.13	4.63
Region II	37	62.57	-0.93
Region III	32	56.66	-6.84
Region IV	10	67.10	3.60

The average rank of all (126) cases.

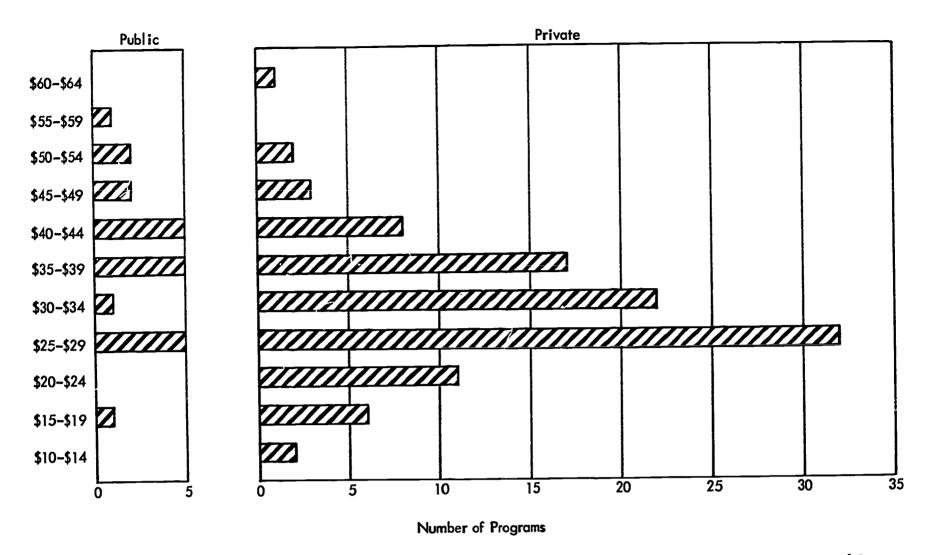
The result of the Kruskal-Wallis one-way analysis of variance applied to the ranks of the four subgroups indicated that the observed differences were not significant (chi-square = 2.00 at 3 degrees of freedom; p > .50). One can be relatively more certain of an absence of relationship between geographic region and noneducational-functions cost than of an absence of relationship between geographic region and educational-functions cost.

# Relationship of Type of Control to Cost of Noneducational Functions

Figure 7 represents the distribution of noneducational-functions costs when the 126 institutions were divided into two subgroups by type of control, public control and private control.



# FIGURE 7. GROSS COST OF NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY TYPE OF CONTROL (126 Programs)



Significant differences were observed when the ranks of the 126 parent institutions as to gross cost of noneducational functions per student-week were sorted into subgroups according to type of control. The following table gives data pertaining to ranks in these subgroups.

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions	
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 63.50*
Federal, state, and county government	10	77.10	13.60
City government	12	96.25	32.75
Private secular	61	59.28	-4.22
Private religious	43	57 .19	-6.31

<sup>\*</sup>The average rank of all (126) cases.

The Kruskal-Wallis one-way analysis of variance applied to the ranks in these subgroups resulted in a chi-square of 13.14 at 3 degrees of freedom, which was significant at the .01 level of probability.

While there were relatively few cases in the city-government subgroup, there was a significant difference between the ranks of this subgroup and those of all other cases considered as one subgroup. The results of four Mann-Whitney U tests for differences between each subgroup and all remaining cases considered as one subgroup are shown in the following table.

Subgroup by Type of Control	Average Rank of Subgroup	Average of Ranks of Cases in All Other Subgroups	Standard Score ( <u>z</u> )	Probability
Federal, state, and county government	77.10	62.33	1 .23	>.21
City government	96.25	60.05	3.27	<.002
Private secular	59.28	67.46	1.23	>.21
Private religious	57.19	66.77	1 .40	>.15

A significant difference was observed when the ranks of the 126 parent institutions were divided into two subgroups by type of control, public control and private control. Data from the Mann-Whitney  $\underline{U}$  test for these subgroups are as follows:

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions					
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 63.50*				
ublic	22	87 .55	24.05				
rivate	104	58.41	-5.09				

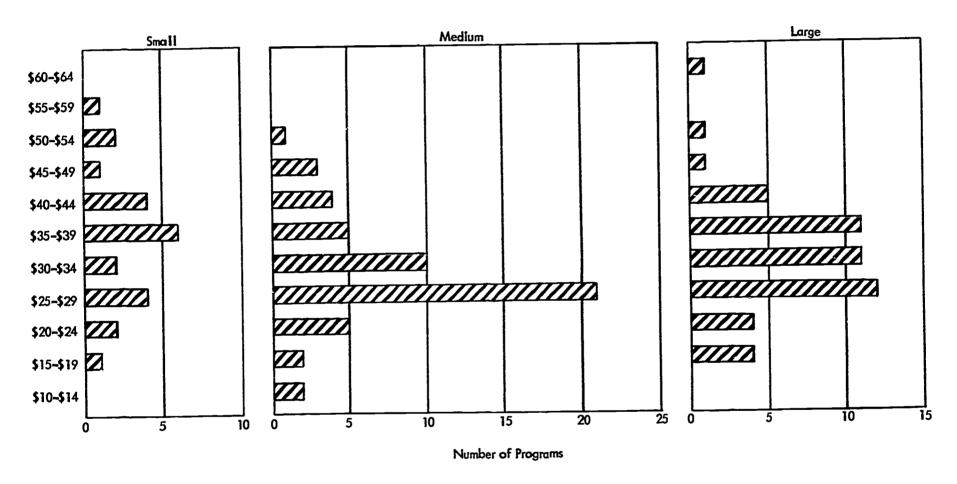
<sup>\*</sup>The average rank of all (126) cases.

The resulting standard score (z) was 3.40, and the probability was less than .001.

# Relationship of Enrollment Size to Cost of Noneducational Functions

Figure 8 shows the distribution of noneducational-functions costs in the three enrollment-size subgroups.

FIGURE 8. GROSS COST OF NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY ENROLLMENT SIZE SUBGROUPS (126 Programs)



There were no statistically significant differences in the cost of noneducational functions among the three subgroups. The average ranks of these subgroups are shown in the following table.

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions					
Subgroup by Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 63.50*				
Small	23	77.83	14.33				
<b>Nedium</b>	53	56.55	-6.95				
Large	50	64.28	0.78				

<sup>\*</sup>The average rank of all (126) cases.

The result of the Kruskal-Wallis one-way analysis of variance applied to these ranks was a chi-square of 5.48 at 2 degrees of freedom (p > .05). Further analysis failed to show significant differences when each subgroup was compared with all other cases considered as one subgroup.

In the programs included in the study, differences in the gross cost to the parent institution for noneducational functions were related to type of control of the institution. In institutions under public control, especially in those under the control of a city government, the gross cost of noneducational functions was significantly higher than it was in institutions under other types of control.

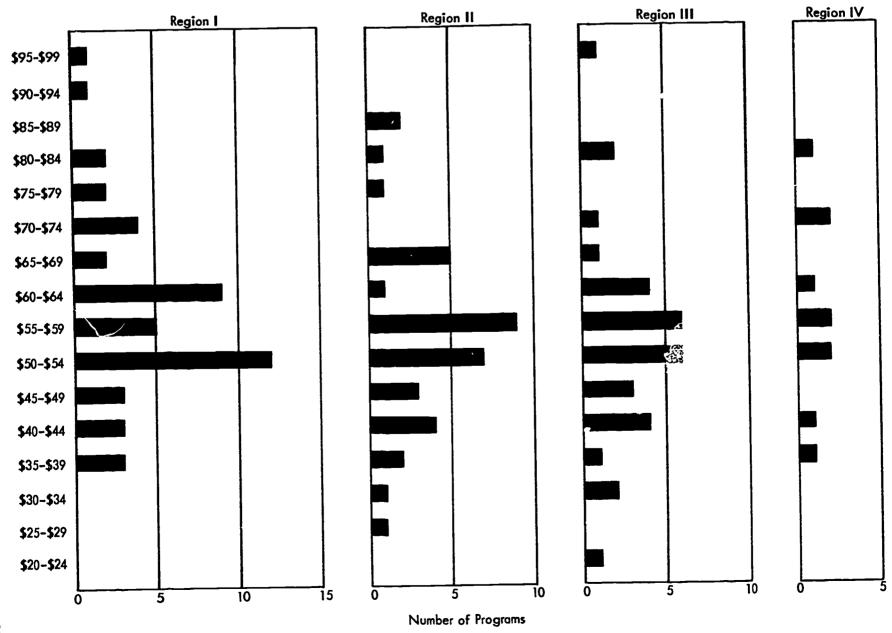
## GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS

The total gross cost of the nursing program to the parent institution was the sum of the gross cost of the educational functions and the noneducational functions of the program. In the 126 institutions studied, there was considerable variance in the percent of the total cost that pertained to educational functions. This is illustrated by the low correlation ( $r_s = .386$ , Spearman rank correlation) between the gross cost of educational functions and the gross cost of noneducational functions.

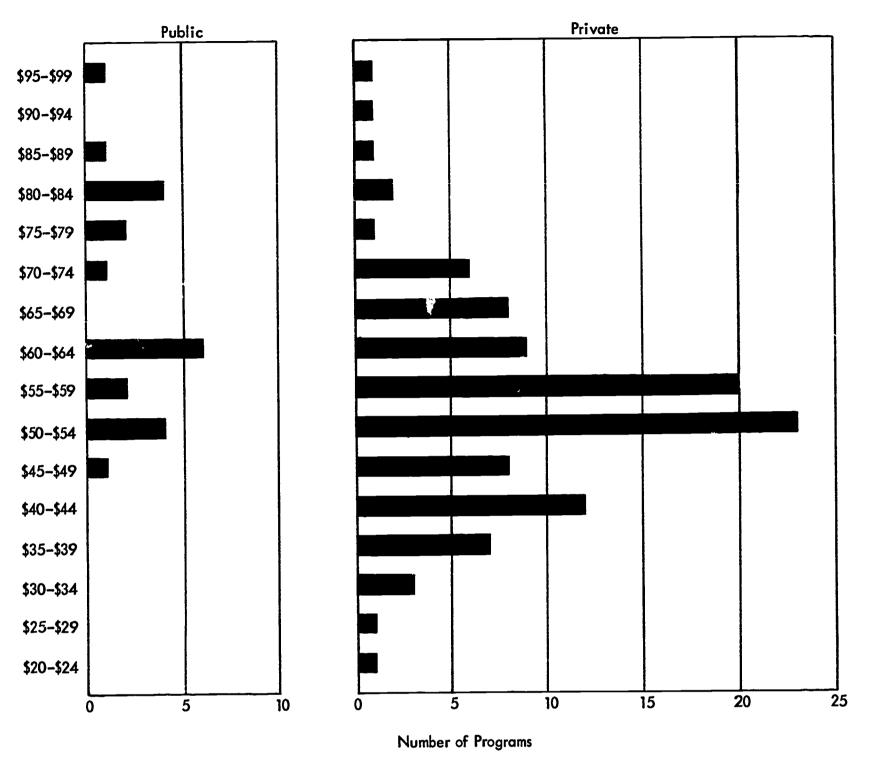
A possible explanation of the low correlation between the two types of cost was that the parent institution with relatively high educational-functions costs had compensating relatively low noneducational-functions cost. If such compensations occurred frequently enough, the differences between costs (ranks) among the various subgroups when ranked as to total cost would diminish. In the subsequent analyses, there was no evidence of such a degree of frequency of compensation. There was, instead, evidence of significant differences between subgroups based on type of control and on enrollment size.

The separate distributions by subgroups under each variable are shown in Figures 9, 10, and 11.

FIGURE 9. GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY REGIONAL SUBGROUPS
(126 Programs)



# FIGURE 10. GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY TYPE OF CONTROL (126 Programs)



The gross costs of educational functions and noneducational functions were summed for each parent institution. Each institution was ranked according to the sum of these costs. The 126 ranks were sorted three times. When sorted as to geographic region, the average ranks of each subgroup were:

Region I	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	70.38
Region II		•			•	•	•	•		•			•	•	•	•	•	٠	60.19
Region III																			
Region IV																			

The Kruskal-Wallis one-way analysis of variance resulted in a chi-square of 3.85 at 3 degrees of freedom and a probability greater than .20.

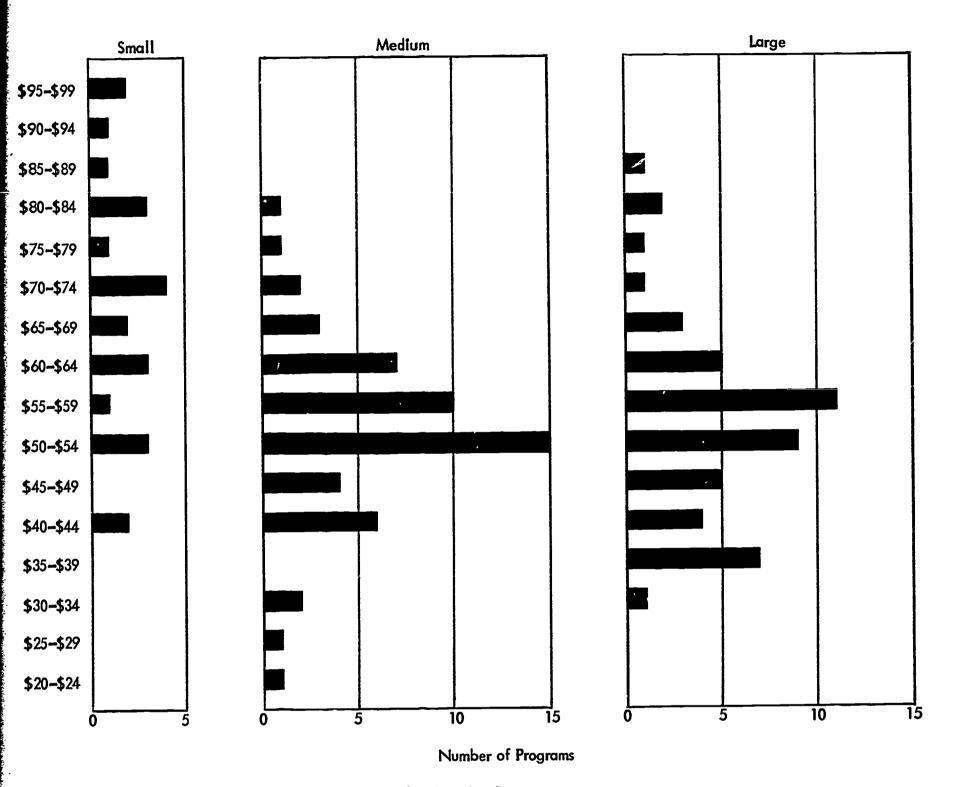
When sorted as to type of control, the average ranks of each subgroup were:

Federal, state, an	ıd	C	וטכ	nty	g	٥٧	eri	nm	en	t.	•		•	•	•	<i>76.</i> 70
City government		•	•	•	•	•	•	•	•	•	•	•	•	•	•	99.58
Private secular.						•	•				•	•	•		•	59.49
Private religious																

The Kruskal-Wallis one-way analysis of variance resulted in a chi-square of 15.55 at 3 degrees of freedom. These differences were significant at the .01 level of probability.



# FIGURE 11. GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO PARENT INSTITUTIONS, BY ENROLLMENT SIZE SUBGROUPS (126 Programs)



When sorted as to enrollment size, the average ranks of each subgroup were:

Small.																
Medium		•		•	•		•	•	•		•	•	•	•	•	58.45
Large .		•					•		•	•	•	•	•	•	•	55.60

The Kruskal-Wallis one-way analysis of variance resulted in a chi-square of 17.66 at 2 degrees of freedom. These differences were significant at the .001 level of probability.

When Mann-Whitney U tests were used to compare the ranks of the cost of educational and noneducational functions, the findings were as follows:

- 1. Costs in institutions under city government control were significantly higher than costs in institutions under any other type of control (standard score (z) = 3.60; p < .0004).
- 2. Costs in institutions under any type of public control were significantly higher than costs in institutions under any type of private control (standard score (z) = 3.72; p < .0003). The average rank for the public-control subgroup was 89.18; that for the private-control subgroup was 58.07.
- 3. Costs in programs with fewer than 70 students were significantly higher than costs in programs with 70 or more students (standard score (z) = 4.18; p < .0001).
- 4. Costs in programs with 120 or more students were significantly lower than costs in programs with fewer than 120 students (standard score (z) = 1.96; p < .05).



## SIGNIFICANT RELATIONSHIPS BETWEEN VARIABLES AND COSTS TO PARENT INSTITUTIONS

The relationships of independent variables to the cost of educational functions, to the cost of noneducational functions, and to the cost of educational and noneducational functions are summarized in the following table.

	-		Significant* D	ifferences in Cost		
Type of Cost		By Region	By T	ype of Control	By Enr	ollment Size
1,700 01 0031	Among All Subgroups	In Subgroups Considered Separately	Among All Subgroups	In Subgroups Considered Separately	Among All Subgroups	In Subgroups Considered Separately
Educational— functions cost	No	Higher for Region I	Yes	Higher for city gov- ernment and public Lower for private	Yes	Higher for small
Noneducational- functions cost	No	No	Yes	Higher for city government and public  Lower for private	No	No
Educational and noneducational—functions cost	No	No	Yes	Higher for city gov- ernment and public Lower for private	Yes	Higher for small

At the .05 level of probability.

# RELATIONSHIPS OF COMBINATIONS OF VARIABLES TO COSTS TO PARENT INSTITUTIONS

The gross-cost ranks of the 126 parent institutions were separated into six subgroups representing combinations of two variables, type of control and enrollment size. That is, institutions under public control were divided into the three enrollment-size subgroups—small, medium, and large—and institutions under private control were divided into the same three subgroups. The ranks of the six subgroups were tested for significant differences among all subgroups and for significant differences between each subgroup and all other cases considered as one subgroup. The six subgroups were ranked for the gross cost of (1) educational functions, (2) noneducational functions, and (3) educational and noneducational functions.

The average-rank data and the results of the tests of significance for the first ranking basis, gross cost of educational functions, were as follows:

Subgroup by	Number of Cases	Rank of Subgr Educatio	oup as to Cost of nal Functions	_ Standard Score (z)	Probability
Type of Control and Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 63.50	_ Sidilidad Score (2)	
Public, small	8	110.00	46.50	3.72	< .003
Public, medium	7	79.14	15.64	1.17	> .24
Public, large	7	64.00	0.50	0.04	> .93
Private, small	15	97.19	33.69	3.81	< .0002
Private, medium	45	58.46	-5.04	1.15	> .25
Private; large	44	46.14	-17.36	3.91	< .0001

<sup>\*</sup>The average rank of all (126) cases.

The results of the Kruskal-Wallis one-way analysis of variance for differences among all subgroups was a chi-square of 37.81 at 5 degrees of freedom, which was significant at the .001 level of probability.



The above data indicate that the highest average rank (therefore, the highest educational-functions gross costs) occurred in the subgroup public control with small-size enrollment; the lowest, in the subgroup private control with largi-size enrollment. The average ranks of these two subgroups are 63.86 ranks removed from one another.

Data in the above table give some indication of the interaction of the variable type of control with the variable enrollment size. When the two variables were considered separately, it appeared that gross costs of educational functions were significantly higher in institutions under public control than in institutions under private control and that programs of small-size enrollment were significantly more costly than were all other cases considered as one subgroup, while those of large-size enrollment were significantly less costly than were all other cases so considered.

The average ranks in the above table indicate that enrollment size had a more marked effect upon the cost of educational functions than did type of control. The average rank of programs under private control with small-size enrollments is greater than the average rank of programs under public control with medium-size or with large-size enrollments.

The results of the tests of significance indicated that:

- 1. There were significant differences in educational costs among all six subgroups.
- 2. The cost of educational functions in programs of small-size enrollment in institutions under public control was significantly higher than in all other cases considered as one subgroup.
- 3. The cost of educational functions in programs of small—size enrollment in institutions under private control was significantly higher than in all other cases considered as one subgroup.
- 4. The cost of educational functions in programs of large-size enrollment under private control was significantly lower than in all other cases considered as one subgroup.

The following table shows similar data pertaining to noneducational-functions costs.

I Voe of Control and	Number of Cases		up as to Cost of nal Functions	Standard Score (z)	Probability	
	in Subgroup	Average Rank	Average Rank Minus 63.50	Juliania Score (2)		
Public, small	8	87.13	23.63	1.89	>.05	
Public, medium	7	79.14	15.64	1.12	>.26	
Public, large	7	96.43	32.93	2.46	<.02	
Private, small	15	75.79	12.29	1.39	>.16	
Private, medium	45	53.31	-10.19	2.33	<.02	
Private, large	44	57.70	-5.80	1.31	>.19	

The average rank of all (126) cases .

The result of the Kruskal-Wallis one-way analysis of variance for differences among all subgroups was a chi-square of 16.56 at 5 degrees of freedom, which was significant at the .01 level of probability.

When the variables type of control and enrollment size were considered separately, it appeared that gross costs of noneducational functions were significantly higher in institutions under public control than in institutions under private control and that enrollment size had no significant relationship to this cost.

The above table indicates that programs of large-size enrollment under public control had significantly higher noneducational-functions costs than did all other cases considered as one subgroup and that programs of medium-size enrollment under private control had significantly lower noneducational-functions costs than did all other cases so considered.

<sup>1.</sup> It will be noted that the average rank of the subgroup public and small is 46.50 ranks above the over-all average rank and that the average rank of the subgroup private and small is 33.69 ranks above. Nevertheless, the latter difference is of greater statistical significance than is the former. This illustrates the effect of number of cases upon the results of tests for significance.

When the variable enrollment size was considered alone or together with type of control, there were no indications of a linear relationship between enrollment size and the cost of noneducational functions. That is, there may well be a point at which further increase in the enrollment is related to a higher cost per student enrolled for food, lodging, and other noneducational functions.

The following table differs from the two preceding ones in that the ranks pertain to the sum of educational-functions cost plus noneducational-functions cost. As was the case when each cost was considered separately, there were statistically significant differences among the ranks of the six subgroups.

Subgroup by	Number of Cases		to Cost of Educational Itional Functions	Standard Score (z)	Probability
Type of Control and Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 63,50*	Sidilidard Score (2)	
Public, small	8	97.63	34.13	2.73	< .01
Public, medium	7	83.86	20.36	1.52	> .12
Public, large	7	84.86	21.36	1.59	> .11
Private, small	15	89.46	25.96	2.93	< .004
Private, medium	45	55.79	<i>-7.7</i> 1	1.76	> .07
Private, large	44	49.68	-13.82	3.11	< .002

<sup>\*</sup>The average rank of all (126) cases.

The result of the Kruskal-Wallis one-way analysis of variance for differences among all subgroups was a chi-square of 27.42 at 5 degrees of freedom, which was significant at the .001 level of probability.

Three of the six subgroups differed significantly from all other cases treated as one subgroup in the cost of educational and noneducational functions in that:

- 1. Programs of small-size enrollment in institutions under public control were more costly;
- 2. Programs of large-size enrollment in institutions under private control were less costly;
- 3. Programs of small-size enrollment in institutions under private control were more costly.

Generally, the results of tests for the effect of the two variables considered together upon the cost of diploma programs to rent institutions paralleled the results of tests for the effect of these variables considered separately. In the case of educational-functions cost, there was evidence that enrollment size had a more marked effect upon cost than did the type of control of the institution. There was some evidence that enrollment size had an interacting effect with type of control upon the cost of noneducational functions. This effect was not in the same direction as it was in the case of educational-functions costs.

However, the results of considering the variables in combination agree with two predictions that could have been drawn from previous findings that resulted from considering each variable separately. These two predictions are:

- 1. Programs of small-size enrollment in institutions under public control tend to be the most costly programs.
- 2. Programs of large-size enrollment in institutions under private control tend to be the least costly programs.

#### RELATIONSHIP OF GROSS COST TO NLN ACCREDITATION

Whether a diploma program had or lacked NLN accreditation was not a factor in selecting programs for the study. It happened that 104 (82.5 percent) of the 126 programs selected had NLN accreditation at the time of the study. During any year of the study, no more than 65 percent of the population of diploma programs held NLN accreditation.

Some of the 22 study programs that lacked NLN accreditation applied for accreditation within less than two years of the completion of their cost analyses. To say that a program lacks NLN accreditation does not necessarily imply that the program lacks quality. It mc, mean that the program has never sought accreditation and has never been subjected to this kind of evaluation. It may indicate either a lack of quality or a lack of knowledge of the quality of the program.



The following data indicate that in the programs selected for study, accreditation status did not have a significant relation-ship to the gross cost of nursing education.

Type of Cost	Average Rank of 104 Programs with NLN Accreditation	Average Rank of 22 Programs Lacking NLN Accreditation	Probability That Differences Were Unrelated to Accreditation Status
Educational-functions cost	62.15	69.86	>.36
Noneducational-functions cost	64.24	60.00	> .61
Educational and noneducational – functions cost	63.13	65.27	>.80

In none of the above test results was there significant evidence that the cost of any functional part of the program was more or less expensive in programs holding NLN accreditation. The two accreditation subgroups were practically identical in that 50 percent of each fell above the median cost of educational functions and 50 percent fell below it. This was true for noneducational functions as well.

# RELATIONSHIP OF GROSS COST TO THE NUMBER OF COOPERATING AGENCIES USED

The aim of using cost per student-week as the unit of cost was to secure comparable data about each program. The programs varied somewhat in the number of weeks of vacation and more so in the number of weeks that the student spent in courses given by cooperating agencies. Ten (8 percent) of the programs used no cooperating agencies; 103 (82 percent) used two or fewer or no cooperating agencies; 123 (98 percent) used three or fewer or no cooperating agencies.

The ranks of cost per student-week in the parent institutions were sorted into subgroups according to the number of cooperating agencies used. The relationships being investigated were those between subgroups by number of agencies used and cost per student-week during the time that the students were in the parent institution.

The following data indicate that it is relatively less expensive to provide a student-week of educational functions when the parent institution provides instruction in all areas of the program and no cooperating agencies are involved.

Sub-man by Number of	Number of Cases	Rank of Subgroup as to Cost of Educational Functions					
Subgroup by Number of Cooperating Agencies Used	in Subgroup	Average Rank	Average Rank Minus 63.50*				
one	10	47 .60	-15.90				
ne	48	61 .48	-2.02				
<i>1</i> 0	45	61 .49	-2.01				
hree or more	23	78.57	15.07				

<sup>\*</sup>The average rank of all (126) cases.

However, differences among the above subgroups were not significant (chi-square = 6.09 at 3 degrees of freedom; p > .10).

When each subgroup was compared with all other cases considered as one subgroup, the cost per student-week to the parent agency was significantly higher in those programs using three or more cooperating agencies (standard score (z) = 2.19; p < .03).

A somewhat different pattern of average ranks appeared when the ranking was based upon the cost of noneducational functions.

Unlike the cost of educational functions, the cost of noneducational functions was relatively higher in programs using none and those using three or more cooperating agencies. Data in the following table illustrate this difference.



C. I. Alimbar of	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions	
Subgroup by Number of Cooperating Agencies Used	in Subgroup	Average Rank	Average Rank Minus 63.50
None	10	69.00	5.50
One	48	60.67	-2.83
- wo	45	55.40	-8.10
Three or more	23	82.87	19.37

<sup>\*</sup>The average rank of all (126) cases.

There were significant differences among all of the above subgroups in the cost per student-week for noneducational functions. The Kruskal-Wallis one-way analysis of variance resulted in a chi-square of 9.20 at 3 degrees of freedom, which was significant at the .05 level of probability.

When each subgroup was compared with all other cases considered as one subgroup, the cost of noneducational functions was significantly higher in parent institutions using three or more cooperating agencies (standard score (z) = 2.82; p < .005). When the 126 ranks were divided into two subgroups, those of programs using either one or two cooperating agencies and those using none or more than two agencies, significant differences were observed (standard score (z) = 2.77; p < .006).

Similar data for these subgroups when the ranking was based upon the sum of the cost of educational functions plus the cost of noneducational functions were as follows:

S. I. Number of	Number of Cases	Rank of Subgroup as to Cost of Educational and Noneducational Functions	
Subgroup by Number of Cooperating Agencies Used	in Subgroup	Average Rank	Average Rank Minus 63.50*
	10	61.10	-2.40
ne	48	60.08	-3.42
vo	45	56.80	-6.70
nree or more	23	84.75	21.25

<sup>\*</sup>The average rank of all (126) cases.

Differences among the subgroups were significant at the .05 level of probability (chi-square = 9.79 at 3 degrees of freedom).

When each subgroup was compared with all other cases considered as one subgroup, the cost of educational and noneducational functions per student-week was significantly greater in institutions using three or more agencies (standard score (z) = 3.09; p < .003).

The number of cooperating agencies used was related to variations in the cost of noneducational functions and in the sum of the cost of noneducational functions plus the cost of educational functions. Programs using three or more cooperating agencies had significantly higher costs for both educational and noneducational functions and for the sum of these functions. In programs that utilized either one or two cooperating agencies, the cost of noneducational functions was significantly less than it was in programs that used none or more than two cooperating agencies.

### CHARACTERISTICS OF THE MOST COSTLY AND THE LEAST COSTLY PROGRAMS

This part of the study entailed a search for differences between the most costly and the least costly programs in terms of cost characteristics. Two groups—roughly, the highest—ranking and the lowest—ranking fifths of all cases—were chosen. Comparing the highest and lowest fifths of a group of this size automatically ensured a statistically significant difference in cost between the two groups. Comparisons of differences between them were limited to common—sense observations and did not entail statistical analyses for significance.

With several exceptions, the 25 most costly programs and the 25 least costly programs were the 25 that ranked highest and lowest, respectively, in a particular cost to the parent institution per student-week. Exceptions were made for either of two rea-



sons: (1) the parent institution served as a cooperating agency to students in other diploma programs or (2) the parent institution lacked the characteristic used for comparison.

The comparisons pertained to costs to the parent institution for both educational functions and noneducational functions. The 25 most costly programs with respect to educational functions were not necessarily the 25 most costly programs with respect to non-educational functions. This applies similarly to the least costly programs.

In making the following comparisons, each group of 25 programs was treated as a unit. That is, the totals of the various educational-functions costs for the 25 least costly programs were summed, as were the totals of those functions for the 25 most costly programs. The same procedure was carried out to obtain the total noneducational-functions cost for each group. Data for an item such as the area (square feet) used for educational functions in the 25 most costly programs were summed to find the total area for the unit, as were similar data for the 25 least costly programs. The costs of maintaining the educational areas (cost of plant operation) in each group were also totaled. The plant operations cost per square foot for each group was not determined by averaging the separate costs per square foot in each institution, but by dividing the total cost of plant operation by the total square footage. For all of the items selected for comparison, the data collected from each group were treated as described.

### Comparisons Pertaining to the Cost of Educational Functions

In the 126 study programs, both the typical student and the average student accumulated 43 weeks per year in the parent institution. The term student-equivalent refers to the typical student in this respect. The number of student-equivalents was obtained by dividing the total number of student-weeks by 43. With respect to educational functions, the result for the group of least costly programs was 3,573 and the result for the group of most costly programs was 1,814.

The following table shows various units of educational-functions cost for the two groups.

	Ī	Educational—Fur	nctions Cost	
Group	Total	Per Program	Per Student– Equivalent	Per Student-Week
Least costly programs	\$2,542,755	\$101,710	\$ 712	\$16.55
Most costly programs	2,544,716	101,789	1,403	32.62

The average cost per program is practically the same for both groups (the cost for the most costly programs was less than one-tenth of 1 percent greater than the cost for the least costly programs). However, the 25 least costly programs were providing educational functions for nearly twice as many students (1.97 times as many). The least costly programs had an average enrollment of 143 students per program; the most costly had an average enrollment of 73 students per program. Consequently, the cost per student-equivalent or the cost per student-week for the most costly programs was 97 percent higher than that for the least costly programs.

As the following table shows, costs related to general institutional expense in parent institutions offering the most costly programs were somewhat greater than those in institutions offering the least costly programs.

	Unit Cost for	r Group
Cost Item	Least Costly Programs	Most Costly Programs
Plant Operation (per square foot)	\$1.15	\$1.19
lousekeeping (per square foot)	0.84	0.97
Administration (per dollar spent)	0.114	0.111

The most costly programs, as compared with the least costly, had a 4 percent higher cost for plant operation, a 16 percent higher cost for housekeeping, and a 3 percent lower cost for administration. However, the differences were not outstanding.

In contrast, costs related to enrollment size were considerably greater for the most costly programs than for the least costly group. The expenditure for educational salaries per student-equivalent was \$422 in the least costly programs and \$818 in the most costly programs, an increase of 94 percent over the former figure. The educational areas were more costly to maintain in the latter group, not because of plant operation costs as such, but because of the greater classroom area per student enrolled in these programs. In the least costly programs, the classroom space was 58 square feet per student; in the most costly programs, it was 102 square feet per student, an increase of 76 percent over the former figure.

sons: (1) the parent institution served as a cooperating agency to students in other diploma programs or (2) the parent institution lacked the characteristic used for comparison.

The comparisons pertained to costs to the parent institution for both educational functions and noneducational functions. The 25 most costly programs with respect to educational functions were not necessarily the 25 most costly programs with respect to non-educational functions. This applies similarly to the least costly programs.

In making the following comparisons, each group of 25 programs was treated as a unit. That is, the totals of the various educational-functions costs for the 25 least costly programs were summed, as were the totals of those functions for the 25 most costly programs. The same procedure was carried out to obtain the total noneducational-functions cost for each group. Data for an item such as the area (square feet) used for educational functions in the 25 most costly programs were summed to find the total area for the unit, as were similar data for the 25 least costly programs. The costs of maintaining the educational areas (cost of plant operation) in each group were also totaled. The plant operations cost per square foot for each group was not determined by averaging the separate costs per square foot in each institution, but by dividing the total cost of plant operation by the total square footage. For all of the items selected for comparison, the data collected from each group were treated as described.

### Comparisons Pertaining to the Cost of Educational Functions

In the 126 study programs, both the typical student and the average student accumulated 43 weeks per year in the parent institution. The term student-equivalent refers to the typical student in this respect. The number of student-equivalents was obtained by dividing the total number of student-weeks by 43. With respect to educational functions, the result for the group of least costly programs was 3,573 and the result for the group of most costly programs was 1,814.

The following table shows various units of educational-functions cost for the two groups.

		Educational-Fu	nctions Cost	
Group	Total	Per Program	Per Student- Equivalent	Per Student-Week
east costly programs	\$2,542,755	\$101,710	\$ 712	\$16.55
Most costly programs	2,544,716	101,789	1,403	32.62

The average cost per program is practically the same for both groups (the cost for the most costly programs was less than one-tenth of 1 percent greater than the cost for the least costly programs). However, the 25 least costly programs were providing educational functions for nearly twice as many students (1.97 times as many). The least costly programs had an average enrollment of 143 students per program; the most costly had an average enrollment of 73 students per program. Consequently, the cost per student-equivalent or the cost per student-week for the most costly programs was 97 percent higher than that for the least costly programs.

As the following table shows, costs related to general institutional expense in parent institutions offering the most costly programs were somewhat greater than those in institutions offering the least costly programs.

	Unit Cost for Group		
Cost Item	Least Costly Programs	Most Costly Programs	
Plant Operation (per square foot)	\$1.15	\$1.19	
lousekeeping (per square foot)	0.84	0.97	
Administration (per dollar spent)	0.114	0.111	

The most costly programs, as compared with the least costly, had a 4 percent higher cost for plant operation, a 16 percent higher cost for housekeeping, and a 3 percent lower cost for administration. However, the differences were not outstanding.

In contrast, costs related to enrollment size were considerably greater for the most costly programs than for the least costly group. The expenditure for educational salaries per student-equivalent was \$422 in the least costly programs and \$818 in the most costly programs, an increase of 94 percent over the former figure. The educational areas were more costly to maintain in the latter group, not because of plant operation costs as such, but because of the greater classroom area per student enrolled in these programs. In the least costly programs, the classroom space was 58 square feet per student; in the most costly programs, it was 102 square feet per student, an increase of 76 percent over the former figure.

The difference in instructors' salaries per student is important in that such salaries accounted for over half of the total educational-functions cost in both groups (59 percent in the least costly programs and 58 percent in the most costly programs).

In the cost analysis method used, the item Educational Salaries does not include staff benefits or additional compensations such as free meals and laundry. As the following data show, the costs of additional benefits were greater in the most costly programs.

	Unit Cost for Group  Least Costly Programs Most Costly Programs	
Cost Item		
taff Benefits (per dollar of salary)	\$0.030	\$0.048
Additional Compensations (per dollar of salary)	0.019	0.040

The most costly programs, as compared with the least costly, had a 60 percent higher cost for staff benefits and an 111 percent higher cost for compensations not included in the cost center Staff Benefits.

However, in both groups of programs, these items accounted for less than 3 percent of the total cost of educational functions. Thus, the greater expenditure for additional compensations in the most costly programs accounted for relatively little of the difference in educational-functions costs between the two groups. The least costly programs had little or no cost under this heading. In 92 percent of these programs, the amount expended for additional compensations was insufficient to provide one meal a day per instructor. This was true for less than 65 percent of the most costly programs.

Most of the differences in the cost of educational functions seemed to be related to the difference in student-weeks or student-equivalents per program.

#### Comparisons Pertaining to the Cost of Noneducational Functions

Unlike the findings for educational-functions costs, the number of student-equivalents for the most costly group of programs (2,854) was practically identical with that for the least costly group (2,715).

The following table shows pronounced differences between the two groups.

		Noneducational-	Functions Cost	
Group	Total	Per Program	Per Student- Equivalent	Per Student-Week
Least costly programs	\$2,535,424	\$101,417	\$ 934	\$21.72
Most costly programs	5, 187, 641	207,506	1,818	42.27

Unlike the cost of educational functions, the cost of noneducational functions per program was twice as great for the group of most costly programs as it was for the group of least costly programs. The least costly programs were providing noneducational functions for somewhat fewer students than were the most costly programs. The cost per student-equivalent was roughly twice (1.95 times) as great for the most costly programs as the least costly programs. In this instance, the difference did not seem to be related to enrollment size. The least costly programs had an average of 109 student-equivalents per program, and the most costly had an average of 114. In both groups of programs, the costs of meals and residence accounted for 80 percent or more of all non-educational costs.

	Total Cost	for Group		vided by Cost of unctions (in Percent)
Cost Item	Least Costly Programs	Most Costly Programs	Least Costly Programs	Most Costly Programs
Meals	\$1,072,327	\$2,199,215	42.3	42.4
Residence	955,505	2,042,479	37.7	39.4
Meals and residence	2,027,832	4,241,694	80.0	81.8



Both groups were similar in the percent of total cost expended for meals and the total cost expended for residence.

There were pronounced differences between the cost of meals and residence per student-week in the two groups, as the following table shows.

	Unit Cost for Group		
Cost Item —	Least Costly Programs	Most Costly Programs	
Meals (per student-week)	\$ 9.19	\$17.92	
Residence (per student-week)	8.18	16.64	
Meals and residence (per student-week)	17.37	34.56	

The unit cost of providing either or both of these services for the most costly programs was roughly twice that for the least costly programs. For the most costly programs, the cost of meals was 95 percent higher, the cost of residence 103 percent higher, and the cost of meals and residence 99 percent higher. The greater meal cost was not a function of the number of meals served. A similar number of meals per student-week was served in all institutions. Some of the relatively greater residence costs could be accounted for by the residence and other noneducational areas allotted per student-equivalent. This allotment was 204 square feet in the least costly programs and 297 square feet, or 46 percent more, in the most costly programs. To a considerable degree, the higher unit costs for meals and residence in the most costly programs seemed to be related to the fact that costs for institutionwide services in the institutions that offered these programs were higher than such costs in the parent institutions of the least costly programs.

The following table shows the differences in the unit costs of general services for the two groups.

	Unit Cost for Group		
Cost Item	Least Costly Programs	Most Costly Programs	
Plant Operation (per square foot)	\$0.99	\$1.34	
lousekeeping (per square foot)	0.75	1.07	
Staff Benefits (per dollar of salary)	0.030	0.048	
Administration (per dollar spent)	0.124	0.282	

The cost of plant operation in the most costly programs was 35 percent higher than that in the least costly programs. Similarly, the cost of housekeeping was 43 percent higher, the cost of staff benefits was 60 percent higher, and the cost of administration was 127 percent higher.

The costs of the above items are commonly referred to as overhead costs. As such, they affect the cost of noneducational functions as direct allocations and also affect the cost indirectly in that they are a part of most of the other allocations. For example, the last item in the preceding table, administrative cost per dollar spent, refers to a cost center that was closed out relatively early in the cost analysis. Thus, administrative costs were a part of the cost of most of the other allocated costs.

Two items that together constituted approximately 7 percent of the noneducational-functions costs in each group of programs were the costs of health service and laundry. As is shown in the following table, both of these costs were much higher in the 25 most costly programs.

	Unit Cost for	Group
Cost Item	Least Costly Programs	Most Costly Programs
Health Service (per student-week)	\$ 3.86	\$ 6.80
Laundry (per student-equivalent)	30.13	58.02

For the most costly programs, health service costs were 76 percent higher and laundry costs were 93 percent higher.

Comparisons of data from the 25 most costly and the 25 least costly programs indicated that educational-functions costs were influenced most by the number of students enrolled in each program and that noneducational-functions costs were influenced most by relatively high over-all costs in the parent institution. These findings were in line with the earlier finding that enrollment size had a significant inverse relationship to the cost of educational functions but not to the cost of noneducational functions. Statistical analysis of the two variables considered in combination, type of control and enrollment size, revealed that enrollment size had a more marked effect upon the cost of educational functions. Comparisons of most costly and least costly programs gave evidence that supported the previously cited finding that there were no indications of a linear relationship between enrollment size and noneducational-functions cost. In other words, there was no evidence to support the contention that increasing the size of enrollment results in lower noneducational-functions cost per student.

#### SUPPLEMENTARY TABLE

Table 3 at the end of this section lists cost data by individual institution. The data are arranged in order of increasing cost of educational and noneducational functions of the program per student-week.

Although the institution is not identified by name, some of its characteristics are indicated in a column headed Code Number. Each code number can be read as a profile of the characteristics of the institution. The code number consists of a series of seven symbols. Following is an explanation of their meanings.

The first symbol refers to the year in which the fiscal year of the cost analysis ended. The symbols are the capital letters A through D. Their meanings are:

A = ending 1959.

B = ending 1960.

C = ending 1961.

D = ending 1962.

The second symbol refers to the enrollment size of the program. The symbols are the three capital letters S, M, and L. Their meanings are:

S = Small (less than 70 enrolled).

M = Medium (from 70 to 120 enrolled).

L = Large (120 or more enrolled).

The third symbol refers to the NLN geographic region in which the parent institution was located. The symbols are the arabic numerals 1, 2, 3, and 4, which designate NLN Regions 1, 11, 111, and IV, respectively.

The fourth symbol refers to the service classification of the institution. The symbols are the arabic numerals 1 through 7. Their meanings are:

1 = General.

2 = Psychiatric.

3 = Communicable disease (including tuberculosis).

4 = Maternity.

5 = Children's.

6 = Other specialties.

7 = Combinations of the above.

The fifth symbol refers to the type of administrative control of the parent institution. The symbols are the arabic numerals 1 through 6. Their meanings are:

1 = Public control by the federal government.

2 = Public control by a state government.

3 = Public control by a county government.

4 = Public control by a city government.

5 = Private control by a secular group.

6 = Private control by a religious sect.

The sixth symbol refers to combinations of characteristics that pertain to income. The symbols are the lower case letters a through p. Each symbol refers to two characteristics, the type of function or functions for which income from students was intended and source or sources of income other than student fees. The meanings of the symbols are shown in the following table.



	Characteristics Designated				
Symbol	Function(s) for Which Students Were Charged	Source(s) Other Than Students of Income of \$1,000 or More Earmarked for Diploma Program			
a	educational and noneducational	government and private			
b	noneducational	government and private			
С	educational	government and private			
d	neither	government and private			
е	educational and noneducational	private			
f	noneducational only	private			
g	educational only	private			
h	neither	private			
i	educational and noneducational	government			
i	noneducational	government			
k	educational	government			
1	neither	government			
m	educational and noneducational	none			
n	noneducational	none			
0	educational	none			
p	neither	none			

The seventh symbol does not refer to pertinent characteristics but was used to identify replications of a possible combination of the six preceding symbols. These final numerals were assigned at random.

To illustrate, the symbols in the code number BM31501 signify that:

- (B). The fiscal year of the cost analysis ended in 1960.
- (M). From 70 to 120 students were enrolled in the diploma program.
- (3). The parent institution was located in NLN Region III.
- (1). The parent institution was a general hospital.
- (5). The parent institution was controlled administratively by a private secular organization.
- (o). Identifiable income was limited to student fees and was specified for only the educational functions of the program.
- (1). This case was the first chosen at random of cases with the foregoing characteristics.

TABLE 3. GROSS COSTS OF DIPLOMA PROGRAMS TO PARENT INSTITUTIONS

		EDUCATIONAL-FUN	TOTT ONC COCT	NONEDUCATIONAL-FU	INCTIONS COST	COST OF BOTH	FUNCTIONS
CODE	STUDENT				PER STUDENT		PER STUDENT-
NUMBER	WEEKS	FOR ALL STUDENTS	PER STUDENT WEEK	FOR ALL STUDENTS	WEEK	FOR ALL STUDENTS	WEEK
BM315o1	3,456	\$ 42,199	\$12.21	\$ 42,588	\$12.32	\$ 84,787	\$24.53
CM216m6	4,284	58,434	13.64	67,009	15.64	125,443	29.28
BM315o5	3,957	68,412	17.29	54,841	13.86	123,253	31.15
CL315o4	5,988	89,845	15.00	116,186	19.40	206,031	34.40 34.83
CM216m4	3,720	72,868	19.59	56,709	15.24 21.35	129,577 302,791	36.26
BL315o2	8,351	124,515	14.91	178,276 138,562	18.91	274,384	37.45
BL216m3	7,326	135,822 108,441	18.54 14.67	176,964	23.94	285,405	38.61
AL216m4	7,392 9,756	131,630	13.49	247,159	25.33	378,789	38.82
BI416m1 AL176e1	13,118	197,751	15.08	312,518	23.82	510,269	38.90
AL115k3	7,684	150,174	19.69	148,608	19.34	298,782	39.03
BL115k1	12,624	176,560	14.10	324,567	25.71	501,127	39.85
CL215m1	11,808	171,403	15.69	285,173	24.15	456,581	40.17
- AL115m3	7,636	165,430	21.66	146,991	19.25	312,421	40.91 41.00
CM215o1	3,421	57,223	16.73	83,029	24.27	140,252 137,233	41.50
CM315o2	3,307	58,417	17.67	78,316 100,046	25.62	164,361	42.09
CM315o4	3,905	64,315 45,710	16.47 21.22	45,245	21.01	90,955	42.23
CS216e1 CM115o4	2,154 3,096	63,926	20.65	69,042	22.30	132,968	42.95
AM416m2	3,085	54,276	17.59	80,974	26.25	135,250	43.84
CS316o1	3,120	73,823	23.66	64,615	20.71	138,438	44.37
BL316g1	7,065	130,227	18.43	184,635	26.13	314,862	44.56
BM216m3	3,264	65,052	19.93	80,817	24.76	145,869	44.69
BL115k4	11,520	186,854	16.22	330,854	28.72	517,708 353,571	44.94 46.05
AL115k5	7,677	138,891	18.09	214,680	27.96 25.66	537,849	46.07
CL316o1	11,812	234,753	20.35 14.89	303,096 368,850	29.91	523,695	46.08
BL213o1	12,334	154,845 64,178	14.73	136,826	31.41	201,004	46.14
BM215m3 CL316o2	4,356 6,210	113,528	18.28	173,259	27.90	286,787	46.18
BM216m2	4,816	82,302	17.09	140,808	29.24	223,110	46.33
BM316m2	3,546	81,203	22.90	89,359	2" 20	170,562	48.10
BM11507	5,180	123,060	23.76	130,563	25.21	253,623	48.97
BL115e1	9,568	164,987	18.27	293,477	30.67	458,464 183,477	49.30 50.29
AM314m1	3,648	78,740	21.58	104,737 162,472	28.71	275,644	50.47
BM11511	5,611	113,172 103,275	21.30	126,708	27.93	229,983	50.70
AM316m1 CM216m1	4,536 3,572	84,631	23.69	96,594	27.04	181,225	50.73
AM216o2	4,287	116,332	27.14	101,571	23.69	217,903	50.83
AM31503	4,167	71,479	17.15	142,075	34.10	213,554	51.25
CS313o1	2,384	76,832	35.79	40,099	16.82	116,931	51.61
AM416m3	3,420	77,298	22.60	100,093	29.27	177,391	51.87
CL215o2	9,806	153,154	16.94	336,652	34.33	489,806	51.98
BL216m2	6,167	110,513	20.68	188,717	30.60	299,230	51.99 52.18
BL115m4	16,812	445,686	26.51	431,564	25.67	877,250	J10
(Footnote 1) AM116o1	3,868	84,694	21.90	117,167	30.29	201,861	52.19
AM11501 AM115a1	3,566	88,567	25.19	96,548	27.07	185,115	52.28
CL315m1	5,796	115,357	19.90	188,085	32.45	303,442	52.35
CS111m1	2,400	55,907	23.30	70,395	29.33	126,302	52.63
BS315g1	2,760	71,995	26.09	73,849	26.76	145,844	52.85
BM115e1	4,560	119,284	26.16	122,522	26.87	241,806	53.03
CL216e3	5,952	112,872	18.96	203,029	34.11	315,901 277,134	53.07 53.25
CM11506	5,204	122,007	23.44 19.95	155,127 299,324	29.81 33.31	478,595	53.26
BL115m1 BL115k2	8,986 6,450	179,271 116,130	18.00	230,695	35.77	346,825	53.77
AL415g1	5,992	146,800	24.50	177,524	29.63	324,324	54.13
CM213m1	3,960	98,767	24.94	116,030	29.30	214,797	54.24
CL115m2	4,973	106,239	21.36	164,028	32.98	270,267	54.34
BM11508	4,284	120,477	28.12	113,340	26.46	233,817	54.58
CM215m2	3,312	64,022	20.75	111,169	33.57	175,191	54.76
CM115o2	4,800	116,525	24.28	146,693	30.56	263,218	54.84 55.33
BL316m1	5,628	116,780	20.75	194,641 223,120	34.58	311,421 368,846	55.47
CL216e2	6,700	145,726 85,133	22.08 26.57	93,906	29.31	179,039	55.88
DM115g1	3,204	03,133	20.31		4 47 4 3 4		<del></del>

<sup>1.</sup> One or more bases of allocation were modified for this institution



TABLE 3, Continued

CODE	STUDENT	EDUCATIONAL-FUN	CTIONS COST	NONEDUCATIONAL-FU	NCTIONS COST	COST OF BOTH	FUNCTIONS
NUMBER	WEEKS	YOR ALL STUDENTS	PER STUDENT- WEEK	FOR ALL STUDENTS	PER STUDENT- WEEK	FOR ALL STUDENTS	PER STUDENT- WEEK
AL216m1	13,556	\$155,338	\$11.46	\$ 602,632	\$44.46	\$ 757,970	\$55.92
AM116g1	4,816	114,598	23.80	155,329	32.25	269,927	56.05
AL315g1	11,040	299,846	28.26	309,010	27.99	608,856	56.24
DM416m4 CS215o1	4,480	122,168	27.27	131,152	29.28	253,320	56.55
CL21503	2,599 7,878	75,927 164,876	29.21 20.93	71,382 287,026	27.47	147,309	56.68
BL31503	7,590	201,666	26.57	233,924	36.43 30.82	451,902 435,590	57.36 57.39
DM216e1	3,249	90,769	27.94	95,841	29.50	186,610	57.44
AL41311	7,620	162,839	21.87	272,491	35.76	435,330	57.79
CL316m4	5,441	112,612	20.70	204,632	37.61	317,244	58.31
BM115k1	4,056	126,213	31.12	110,768	27.31	236,981	58.43
AL115k6	10,785	313,884	29.10	319,826	29.66	633,710	58.76
BL316m2	4,968	122,006	24.56	171,708	34.56	293,714	59.12
CL115m5	7,236	171,271	23.67	257,964	35.65	429,235	59.32
AM216e4 CM316o1	5,616 4,737	94,068 89,568	16.75 18.91	239,691	42.68	333,759	59.43
CM216e2	4,757	132,484	30.44	192,586 127,138	40.66	282,154	59.57
CM213o1	3,042	76,726	25.49	103,961	29.21 34.18	259,622 180,687	59.65 59.71
DM21601	4,222	110,010	26.06	142,892	33.84	252,902	59.90
CL114k1	6,104	143,316	23.48	225, 160	36.89	368,476	60.37
CM11501	4,066	109,963	27.04	137,462	33.81	247,425	60.85
BS315m1	2,380	57,252	24.06	87,598	\$36.81	144,850	60.87
BL31501	5,104	105,332	20.64	206,552	40.47	311,884	61.11
CS115o3	2,496	75,047	30.07	78,452	31.43	153,499	61.50
AL11401	11,028	212,298	20.50	447,075	40.54	659,373	61.67
Footnote 1)							
AM214m1	3,648	89,011	24.40	137,165	37.60	226,176	62.00
AM115o5	3,484	92,472	26.54	123,864	35.55	216,336	62.09
AL31201	12,048	277,465	23.03	473,607	39.31	751,072	62.34
CS314o1 BM155m1	1,452 3,774	53,224 121,862	37.43 32.29	37,265 115,862	25.67 30.70	90,489 237,724	62.97 62.99
CL115o2	9,395	250,767	26.69	349,129	37.16	599,896	63.85
AM414p1	3,687	96,467	27.08	135,685	36.80	232,152	64.05
BM115k2	3,020	83,884	27.78	111,251	36.84	195,135	64.62
BM115o3	4,224	94,699	22.42	179,493	42.49	274, 192	64.91
BM215m1	3,774	63,835	16.91	181,721	48.15	245,556	65.06
CL216m5	7,164	188,732	26.34	277,810	38.78	466,542	65.12
AL216e1	23,136	495,947	21.44	1,017,468	43.98	1,513,415	65.42
BM216e3	3,101	123,059	39.68	79,934	25.78	202,993	65.46
BS115o2 AM215e1	2,832 3,944	82,422 121,676	30.06 30.85	100,464	35.47 35.07	182,886	65.62 65.87
CS 316m1	2,368	67,757	28.61	135,081	38.05	256,757 157,860	66.66
BL11501	5,012	151,371	30.25	186,346	37.18	337,717	67.44
BI416e1	5,209	173,862	35.08	182,497	35.04	356,359	70.11
CS115±1	3,193	96,063	34.31	115,537	36.18	211,600	70.62
AM115p1	4,256	101,250	23.79	204,714	48.10	305,964	71.89
BS416m1	2,189	79,422	36.28	80,150	36.62	159,572	72.90
CS315o1	1,398	38,345	27.43	63,899	45.71	102,244	73.14
CS115o1	2,496	76,369	30.60	108,559	43.49	184,928	74.09
CM11401	4,800	115,233	24.01	244,674	50.97	359,907 216,824	74.98 75.35
AM216m5 BL114p1	2,910 5,412	89,800 181,799	31.56 33.59	127,024 247,115	43.65 45.66	216,824 428,914	75.35 79.25
AS114o2	2,503	95,451	39.04	100,947	40.33	196, 398	79.38
BL413p1	11,205	411,672	36.74	500,079	44.63	911,751	81.37
CS313e1	2,880	115,958	40.26	118,586	41.18	234,544	81.44
BL316m3	5,750	167,633	29.78	307,087	53.41	474,720	83.44
AM11111	3,724	141,879	38.10	171,341	46.01	313,220	84.11
CS216m1	956	42,903	44.88	37,667	39.40	80,570	84.28
CS114o1	3,027	89,649	29.62	167,041	55.18	256,690	84.80
AL21501	6,496	148,383	22.84	414,215	63.77	562,598	86.61
BS214o1	2,186	93,060	44.19	97,129	44.43	190, 189	88.62
CS115g1	2,088	82,496 44,097	39.51 43.40	111,959 52,798	53.62 51.97	194,455 96,895	93.13 95.37
CS314o2	1,016						

<sup>1.</sup> One or more bases of allocation were modified for this institution.



## COMPARISON OF TOTAL PROGRAM COSTS WITH COSTS TO PARENT INSTITUTIONS

The term total program cost as used in this report indicates the sum of the cost to the parent agency plus the cost to any and all cooperating agencies offering parts of the program. With the exception of 10 programs, the parent institution provided only a portion of the educational experiences of the program. The remaining experiences were provided by cooperating agencies.

In terms of statistical analysis of the data, the difference between the cost per student-week to the parent institution and the cost per student-week for the total program is a negligible difference. The rank of a particular program based upon cost to the parent institution varied insignificantly from its rank based upon total program costs. The correlation (Spearman rank) between the two costs was .980. The relatively high correlation between these costs indicated in advance that no new findings would result from repeating the statistical tests on ranks of programs with regard to total program costs.

The high correlation does not necessarily signify a similarity between the cost per student-week in the parent institution and the cost in the cooperating agencies. The cost per student-week in a cooperating agency could vary greatly from the cost in the parent institution without affecting the relative standing of the program when ranked as to total program costs.

For example, in one program, the cost per student-week to the parent institution was \$74.98. The cost per student-week to the cooperating agency was \$37.08—less than half the cost to the parent institution. The cost per student-week for the total program, however, was \$72.17, which is slightly more than 96 percent of the cost to the parent institution. The rank of this program based on parent institution cost was identical with its rank based on total program cost. The small effect of this cooperating agency's cost upon the total program cost was obviously a function of the relatively small number of student-weeks spent in the cooperating agency. Of the total number of student-weeks (5,184) accumulated in the program during the year, 7.4 percent (384 weeks) were spent in the cooperating agency.

The 118 programs for which total program costs were computed accumulated 710,953 student-weeks. Of these, 642,340, somewhat over 90 percent, occurred in the parent institution.

The similarity of the cost to the parent institution and the cost of the total program is apparent in Figure 12. Statistically, the two distributions do not differ significantly.

Table 5 at the end of this section lists each program in order of increasing gross total program cost per student-week. The cost to each institution offering a portion of the program is identified. Findings reported in the previous section with regard to relationships of independent variables to the cost to the parent institution are applicable to the cost of the total program as well. A more detailed report of tests for these relationships would be redundant.

# RELATIONSHIP OF VARIABLES TO COST OF NURSING EDUCATION IN COOPERATING AGENCIES

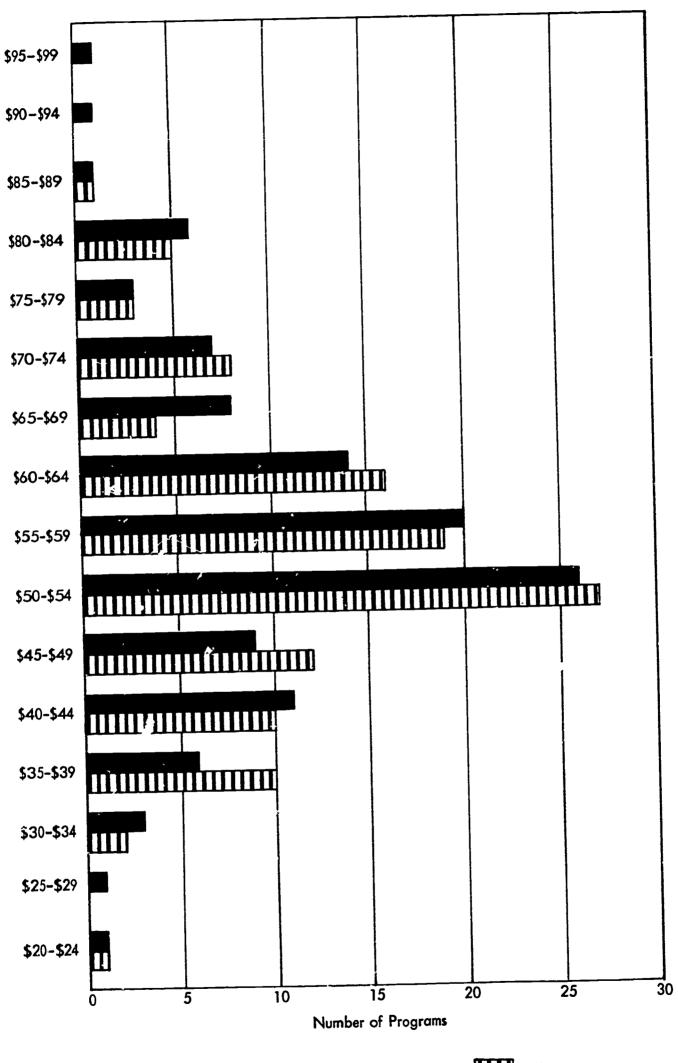
The statistical analyses referred to in this section deal with the costs to the cooperating agencies. While no cooperating agency included in the study provided more than a minor portion of an individual program, this does not imply that the cost borne by a given cooperating agency for an educational course for diploma students was necessarily less than that borne by any parent institution. The typical course given by the agencies was 12 weeks in length, which is roughly 28 percent of the number of weeks per year that a typical student spent in the parent institution. Therefore, a cooperating agency that offered one course to 200 students per year accumulated as many student—weeks as did a parent institution with 56 students enrolled in the program. Each of the 30 cooperating agencies servicing more than 300 students per year accumulated student—weeks equivalent to those accumulated by a parent institution with 85 or more students enrolled in the program.

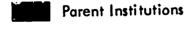
Table 4 at the end of this section lists, by type of nursing course, the costs to cooperating agencies for the education (instruction and applicable maintenance) of diploma students. Figure 13 is a graphic representation of the median gross costs per student-week of educational and noneducational functions by type of course.

The investigation of possible relationships between independent variables and the costs of nursing courses in cooperating agencies closely paralleled the investigation of relationships between independent variables and costs in parent institutions.



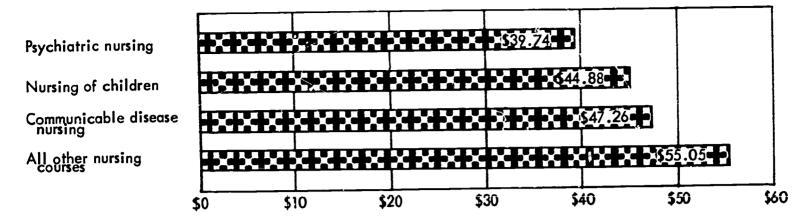
FIGURE 12. GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS
PER STUDENT-WEEK TO PARENT INSTITUTIONS AND TO
PARENT INSTITUTIONS AND COOPERATING AGENCIES
(118 Programs)







# FIGURE 13. MEDIAN GROSS COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS PER STUDENT-WEEK TO COOPERATING AGENCIES, BY TYPE OF COURSE



In addition to geographic region, type of control, and enrollment size, another variable that occurred in cooperating agencies was investigated. The additional variable was the clinical area in which the cooperating agency provided educational experiences for diploma program students.

The unit of cost used in investigating all variables was the cost per student per week. This unit was used in making comparisons between the cost of instruction in communicable disease nursing and that in psychiatric nursing, even though the typical course in psychiatric nursing covered a 12-week interval and the typical course in communicable disease nursing covered a 4-week interval.

The subgroups by type of control used for cooperating agencies differed somewhat from those used for parent institutions. For the former, there was no differentiation among institutions under public control, so that the subgroups were: agencies under public (governmental) control, agencies under the control of a private secular organization, and agencies under the control of a private religious organization.

The data pertaining to the variable enrollment size for cooperating agencies are not comparable with those data for parent institutions. Enrollment size in cooperating agencies is limited to the number of students enrolled in the particular course during the fiscal year of the cost analysis. Diploma students taking other courses in the same institution were not included in the number enrolled. The three enrollment-size subgroups were (1) 99 or fewer students enrolled, (2) from 100 to 300 students enrolled, and (3) 300 or more students enrolled. Each of the three enrollment-size subgroups accounted for more than one-fourth but less than one-half of the total number of cooperating agencies.

# Relationship of Variables to the Cost of Educational Functions in Cooperating Agencies

The gross costs of educational functions in the 119 cooperating agencies did not differ significantly when comparisons among all four geographic subgroups were made at the same time. Ranking data were as follows:

	Number of Cases in Subgroup	Rank of Subgroup as to Cost of Educational Functions		
Subgroup by NLN Region.		Average Rank	Average Rank Minus 60.00*	
egion I	40	<b>59.0</b> 3	-0.97	
egion II	45	56.49	-3.51	
egion III	21	56 <b>.</b> 76	-3.24	
egion IV	13	80.38	20.38	

<sup>\*</sup>The average rank of all (119) cases.

The result of the Kruskal-Wallis one-way analysis of variance applied to these subgroup ranks was a chi-square of 5.23 at 3 degrees of freedom (p > .10).

Considered separately, Region IV (the West) differed significantly from all the other subgroups combined in having relatively high gross costs per student-week (standard score (z) = 2.26; p < .03).

There was a significant relationship between the type of control of the cooperating agency and the gross cost of educational functions. Ranking data for the three type-of-control subgroups were as follows:



	Number of Cases	Rank of Subgroup as to Cost of Educational Functions		
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 60.00	
Public (governmental)	79	67 .04	7.04	
Private secular	<b>.</b> 9	50.59	-9.41	
Private religious	11	34 .27	-25.73	

<sup>\*</sup>The average rank of all (119) cases.

The result of the Kruskal-Wallis one-way analysis of variance of these data was a chi-square of 11.57 at 2 degrees of freedom (p < .01).

In addition, significant differences were apparent when the private-religious subgroup was compared with all other subgroups combined and when the subgroup public (governmental) was similarly compared.

Subgroup by Type of Control	Standard Score (z)	Probability
Public (governmental)	3.13	< .002
Private secular	1.69	>.09
Private religious	2.60	<.01

Significant relationships were apparent when the ranks of the cooperating agencies were sorted into the three enrollment-size subgroups. Ranking data for these subgroups were as follows:

	Number of Cases	Rank of Subgroup as to Cost of Educational Functions		
Subgroup by Enrollment Size	in Subgroup Average Rank		Average Rank Minus 60.00*	
99 or fewer	35	78.49	18.49	
100 to 300	54	60.13	0.13	
300 or more	30	38.20	-21.80	

<sup>\*</sup>The average rank of all (119) cases.

The chi-square resulting from the Kruskal-Wallis one-way analysis of variance was 22.03 at 2 degrees of freedom, which is significant at the .001 level of probability.

Considered separately, the 99-or-fewer subgroup differed significantly from all other subgroups combined, as did the 300-or-more subgroup. The results of tests for these differences were as follows:

Subgroup by Enrollment Size	Standard Score ( <u>z</u> )	Probability
99 or fewer	3.13	<.002
300 or more	4.00	<.0001

Differences of comparable significance did not appear when the agencies' ranks were sorted into subgroups by type of course.

The Kruskal-Wallis one-way analysis of variance applied to these ranks failed to show significant differences among the four subgroups (chi-square = 7.27 at 3 degrees of freedom; p > .05). Data pertaining to the analysis were as follows:



	Number of Cases	Rank of Subgroup as to Cost of Educational Functions		
Subgroup by Course	in Subgroup	Average Rank	Average Rank Minus 60.00*	
Psychiatric nursing	68	61 .72	1.72	
Nursing of children	24	46 .87	-13.13	
Communicable disease nursing	13	77 .92	17.92	
All other courses	14	57.50	-2.50	

<sup>\*</sup>The average rank of all (119) cases.

The subgroup nursing of children differed significantly from all other subgroups combined, as did the subgroup communicable disease nursing. The results of tests for these differences were as follows:

Subgroup by Course	Standard Score (z)	Probability
Nursing of children	2.09	< .04
Communicable disease nursing	1.99	<.05

# Relationship of Variables to the Cost of Noneducational Functions in Cooperating Agencies

In 2 of the 119 cooperating agencies, no provisions existed for supplying diploma program students with lodging and food and other services classed as noneducational functions. Data pertaining to noneducational-functions cost are therefore limited to the remaining 117 cooperating agencies. Ranking data for the 117 agencies by regional subgroups were as follows:

	Number of Cases in Subgroup	Rank of Subgroup as to Cost of Noneducational Functions		
Subgroup by NLN Region		Average Rank	Average Rank Minus 59.00*	
Region I	39	63.90	4.90	
Region II	44	52.34	-6.66	
Region III	21	57.43	-1 .57	
Region IV	13	69.38	10.38	

<sup>\*</sup>The average rank of all (117) cases.

There were no statistically significant differences among the regional subgroups (chi-square = 3.74 at 3 degrees of freedom). None of the additional tests applied to these data revealed a significant relationship between the variable geographic region and the cost of noneducational functions.

Ranking data for the subgroups by type of control were as follows:

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions	
Subgroup by Type of Control	in Subgroup		
Public (governmental)	77	56.19	-2.81
Private secular	29	71.20	12.20
Private religious	11	46.45	-12.55

<sup>\*</sup>The average rank of all (117) cases.



While there were no significant differences among the three subgroups, the subgroup private secular differed significantly from all other subgroups combined. A Mann-Whitney  $\underline{U}$  test for such a difference resulted in a standard score  $(\underline{z})$  of 2.24, which is significant at the .05 level of probability.

The following data pertain to the ranks for noneducational functions cost when sorted by enrollment-size subgroups.

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions				
Subgroup by Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 59.00*			
99 or fewer	34	56.59	-2.41			
100 to 300	53	58.26	-0.74			
300 or more	30	63.03	4.03			

<sup>\*</sup>The average rank of all (117) cases.

Tests applied to these data revealed no relationships between the variable enrollment size and the cost of noneducational functions that were significant at the .05 level of probability.

Data pertaining to ranks of nc. Aucational-functions cost by type-of-course subgroups included the following:

	Number of Cases	Rank of Subgroup as to Cost of Noneducational Functions				
Subgroup by Course	in Subgroup	Average Rank	Average Rank Minus 59.00*			
Psychiatric nursing	67	48.51	-10.49			
Nursing of children	24	67.73	8.73			
Communicable disease nursing	12	74.75	15.75			
All other courses	14	80.71	21.71			

<sup>\*</sup>The average rank of all (117) cases.

The Kruskal-Wallis one-way analysis of variance applied to these data resulted in a chi-square of 16.32 at 3 degrees of freedom. There was a statistically significant difference among the four subgroups (p < .001).

Three of the subgroups differed significantly from all other subgroups combined, as is shown in the following table.

Subgroup by Course	Standard Score ( <u>z</u> )	Probability
Psychiatric nursing	3.87	<.0002
Communicable disease nursing	2.05	- <.05
All other courses	3.12	<.002

It cost significantly less to provide lodging and food and other services covered under noneducational functions for students taking courses in psychiatric nursing than it did for students taking all other courses. It cost significantly more to provide these functions to students taking courses in the subgroup communicable disease nursing than it did in all other subgroups combined. This was true as well of the subgroup all other courses. In all of the diploma programs included in this study, less than 12 percent of the courses given by cooperating agencies were in clinical areas other than psychiatry and pediatrics.

There were fewer significant relationships between the variables considered and noneducational-functions cost than there were between the variables and educational-functions cost. With regard to noneducational-functions cost, evidences of significant relationships were limited to the variables type of control and clinical area of the nursing course.



### Relationship of Variables to the Costs of Educational and Noneducational Functions

Cooperating agencies resembled parent institutions in the lack of correlation between each institution's rank as to educational-functions cost. Testing the data from 117 agencies (those from which information about both types of costs was gathered) for correlation between the two costs resulted in a Spearman rank correlation coefficient (r<sub>s</sub>) of .148, which could not be shown to be significantly different from zero correlation. As with the analysis of data from parent institutions, the lack of evidence of correlation justified considering the possible relationship of each variable to the costs of educational and noneducational functions.

The following data show the variance among the four NLN regions when ranked as to the cost of educational and noneducational functions.

	Number of Cases	Rank of Subgroup as to Cost of Educational and Noneducational Functions				
Subgroup by NLN Region	in Subgroup	Average Rank	Average Rank Minus 59.00*			
Region I	39	62.79	3.79			
Region II	44	50.11	-8.89			
Region III	21	57.24	-1.76			
Region IV	13	80.54	21.54			

The average rank of all (117) cases .

The result of the Kruskal-Wallis one-way analysis of variance based on these data was a chi-square of 8.81 at 3 degrees of freedom. There was significant evidence (at the .05 level of probability) of differences among the four geographic region subgroups.

In two instances, a subgroup considered separately differed significantly from all other subgroups combined. Costs in Region II (the Midwest) were significantly lower, and costs in Region IV (the West) were significantly higher, as shown in the table below.

Subgroup by NLN Region	Standard Score (z)	Probability
Region II	2.20	<.03
Region iV	2.43	<.02

The data pertaining to the three type-of-control subgroups ranked as to the sum of the costs of educational and noneducational functions were as follows:

	Number of Cases	Rank of Subgroup as to Cost of Educational and Noneducational Functions				
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 59.00*			
Public (governmental)	77	60.55	1.55			
Pr'yate secular	29	64.00	5.00			
Private religious	11	35.00	-24.00			

<sup>\*</sup>The average rank of all (117) cases.

The result of the Kruskal-Wallis one-way analysis of variance applied to these data was a chi-square of 6.30 at 2 degrees of freedom, which is significant at the .05 level of probability. When the results were sorted into two subgroups, public (governmental) versus private (secular as well as religious), a significant difference could not be demonstrated (standard score (z) = 0.68; p > .50). Compared with all other subgroups combined, the private-religious subgroup was significantly less expensive (standard score (z) = 2.47: p < .02).

Data pertaining to the three enrollment-size subgroups ranked as to the sum of the two costs were as follows:



	Number of Cases	Rank of Subgroup as to Cost of Educational and Noneducational Functions				
Subgroup by Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 59.00*			
99 or fewer	34	70.12	11.12			
100 to 300	53	57 .32	-1.68			
300 or more	30	49.37	-9.63			

<sup>\*</sup>The average rank of all (117) cases.

The Kruskal-Wallis one-way analysis of variance applied to these data resulted in a chi-square of 6.20 at 2 degrees of freedom, which was significant at the .05 lev. of probability.

One subgroup, 99 or fewer, differed significantly from the remaining subgroups combined. For that subgroup, the cost of educational and noneducational functions were significantly higher (standard score (z) = 2.20; p < .03).

Significant differences were apparent among the four subgroups by type of course. Data for such comparisons were as follows:

	Number of Cases	Rank of Subgroup as to Cost of Educational and Noneducational Functions				
Subgroup by Course	in Subgroup	Average Rank	Average Rank Minus 59.00*			
Psychiatric nursing	67	52.48	-6.52			
Nursing of children	24	58.96	-0.04			
Communicable disease nursing	12	78.00	19.00			
All other courses	14	74.00	15.00			

The average rank of all (117) cases.

The Kruskal-Wallis one-way analysis of variance applied to these data resulted in a chi-square of 8.98 at 3 degrees of freedom, which was significant at the .05 level of probability.

The subgroup psychiatric nursing ranked significantly lower rhan all other subgroups combined. The subgroup communicable disease nursing ranked significantly higher than all other subgroups combined. These differences were as follows:

Subgroup by Type of Course	Standard Score (z)	Probability
Psychiatric nursing	2.41	<.02
Communicable disease nursing	2.05	<.05

## Statistically Significant Relationships between Variables and Cost to Cooperating Agencies

Limiting the findings to those that were significant at a probability of .05 or less, the following statements can be made about the gross cost of nursing education to the cooperating agencies.

With respect to educational functions:

- 1. The cost tended to be highest in NLN Region IV.
- 2. The cost tended to be highest in agencies under government control and lowest in agencies controlled by religious groups.
- 3. The cost tended to be highest in agencies in which 99 or fewer diploma students were enrolled in the course and lowest in agencies in which 300 or more were enrolled in the course.

4. The cost tended to be highest in agencies that offered courses in communicable disease nursing and lowest in those that offered courses in nursing of children.

With respect to noneducational functions:

- 1. The cost tended to be highest in agencies under the control of private secular organizations.
- 2. The cost tended to be highest in agencies that offered courses in communicable disease nursing and in agencies that offered courses in the subgroup all other courses and lowest in agencies that offered courses in psychiatric nursing.

With respect to educational and noneducational functions:

- 1. The cost tended to be highest in NLN Region IV and lowest in NLN Region II.
- 2. The cost tended to be lowest in agencies under private religious control.
- 3. The cost tended to be highest in agencies in which 99 or fewer diploma students were enrolled for the course.
- 4. The cost tended to be highest in agencies offering courses in communicable disease nursing and lowest in agencies offering courses in psychiatric nursing.

These findings are summarized is tollowing table.

	Significant* Differences in Cost									
Type of Cost	Ву	Region	Ву Туре	By Type of Control		lment Size	By Type of Course			
, make 12°°	Among All Subgroups	In Subgroups Considered Separately	Among All Subgroups	In Subgroups Considered Separately	Among All Subgroups	In Subgroups Considered Separately	ups Among All In Subgroups S  99 n- No 300 1- Hi co ing	In Subgroups Considered Separately		
Educational— functions cost	No	Higher for Region IV	Yes	Higher for pub- lic (govern- mental) Lower for pri- vate religious	Yes	Higher for 99 or fewer en- rollments  Lower for 300 or more en- rollments	No	Higher for communicable disease nursing Lower for nursing of children		
Noneducational – functions cost	No	No	No	Higher for pri- vate secular	No	No	Yes	Higher for communicable disease nursing and for subgroup all other courses  Lower for psychiatric		
Educational and noneducational – functions cost	Yes	Higher for Region IV Lower for Region II	Yes	Lower for private religious	Yes	Higher for 99 or fewer en- rollments	Yes	nursing Higher for communicable disease nursing Lower for psychiatric nursing		

<sup>\*</sup>At the .05 level of probability.

#### SUPPLEMENTARY TABLES

Table 4, the first of the two tables at the end of this section, is a compilation of the cost data, net and gross, that pertain to nursing courses given by cooperating agencies. Under each clinical area, the data are arranged in order of increasing gross cost of educational and noneducational functions per student-week. The section of the table headed "Cost of Typical Course" pertains



to the number of student-weeks needed to complete the course. Table 5 is a compilation of cost data pertaining to total program costs—the cost to all agencies for all educational and noneducational functions provided in the program. The data are arranged in order of increasing gross total program cost per student-week.

The code numbers used for cooperating agencies in Table 4 differ somewhat from those used for parent institutions in the table at the end of the preceding section. The differences are as follows:

- 1. The second symbol of each code number refers to the number of students who took the course during the fiscal year of the study. The symbols are the capital letters A through F. Their meanings are:
  - A = less than 50 students.
  - B = 50 to 100 students.
  - C = 100 to 200 students.
  - D = 200 to 300 students.
  - E = 300 to 400 students.
  - F = 400 or more students.
- 2. The third symbol refers to the NLN region. The symbols are the arabic numerals 5 through 8. Their meanings are:
  - 5 = NLN Region 1.
  - 6 = NLN Region II.
  - 7 = NLN Region III.
  - 8 = NLN Region IV.
- 3. The sixth symbol refers to charges for tuition or fees per student taking the course. The symbols are the lower-case letters x, y, and z. Their meanings are:
  - x = There were no charges or fees for the course.
  - y = There were charges and/or fees of less than \$25.
  - z =There were charges and/or fees of more than \$25 for the course.

To illustrate, the symbols in the code number CE522x2 signify that:

- (C). The fiscal year of the cost analysis ended in 1961.
- (E). Between 300 and 400 students took the course during the year.
- (5). The cooperating agency was located in NLN Region 1.
- (2). The cooperating agency was a psychiatric hospital.
- (2). The agency was controlled by a state government.
- (x). There were no charges or fees for the course.
- (2). This case was the second chosen at random among cases with the foregoing characteristics.

TABLE 4. GROSS AND NET COSTS OF DIPLOMA PROGRAM COURSES GIVEN BY COOPERATING AGENCIES

Mone				COST PER S	TUDENT-WE					OST OF TY	PICAL CO		
MORGAN   DIOLA   TORNAL   DIOLA   TORNAL   DIOLA   TORNAL   TORN	00 <b>D</b> E	<u> </u>	GROSS			NET			GROSS			NET	
TIONAL   T		EDUCA-			EDUCA-	1		EDUCA-			EDUCA-	•	
National	NUMBER	TIONAL	1	TOTAL	TIONAL	1	TOTAL	TIONAL		TOTAL	TIONAL	1	TOTAL
### AF72691   3., 453   5., 7.91   \$1, 27, 6   5., 453   5., 7.91   \$1, 27, 6   \$9, 9.92   \$1, 122, 88   \$57, 96   \$9, 9.92   \$122, 88   \$57, 96   \$9, 9.92   \$122, 88   \$57, 96   \$9, 9.92   \$122, 88   \$57, 96   \$9, 9.92   \$172, 48   \$867224   \$7, 18   \$10, 43   \$17, 61   \$2, 18   \$10, 43   \$15, 95   \$123, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 9			TIONAL			TIONAL		L	TIONAL			TIONAL	
### AF72691   3., 453   5., 7.91   \$1, 27, 6   5., 453   5., 7.91   \$1, 27, 6   \$9, 9.92   \$1, 122, 88   \$57, 96   \$9, 9.92   \$122, 88   \$57, 96   \$9, 9.92   \$122, 88   \$57, 96   \$9, 9.92   \$122, 88   \$57, 96   \$9, 9.92   \$172, 48   \$867224   \$7, 18   \$10, 43   \$17, 61   \$2, 18   \$10, 43   \$15, 95   \$123, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 95   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 93   \$135, 93   \$228, 9						PSYCH!	ATRIC NUR	SING					
### SP\$2624   3.55   12.60   16.15   2.77   11.60   16.37   42.61   191.20   193.80   33.24   139.20   172.44   38.85224   3.13   10.43   17.61   7.18   10.43   17.61   7.18   10.43   195.59   228.63   39.33   13.93   23.92   228.93   39.32   39.33   39.34   39.33   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.34   39.	A 177771	6 4 02	. 7 01	6 10 74	6 4 92	1			4 04 00	A 159 00	0 57 06	6 04 00	6 150 00
BECZZE													
ABSZEZY 1.779 13.46 12.12 17.09 1.61 19.90 12.771 19.61 19.62 17.12 17.14 19.61 19.62 17.12 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.62 17.14 19.6													
BPIZZPI   7.79   13.46													
BB62291													
COCCEAN   22.66													
AGS2222													
ABSEZ24						L							
CD52244   11,59   16,12   27,71   11,59   16,12   27,71   139,08   334,44   332,52   39,08   193,44   332,24   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44   332,44													
ADSZ224   6.72   21.48   28.20   6.72   21.48   28.20   80.64   257.76   338.40   80.64   257.76   338.40   80.64   257.76   338.40   80.64   257.76   338.40   80.6222   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   257.80   25													
ABS6224													
CCC222-33   12.61   16.95   29.56   12.61   16.95   29.56   151.32   203.40   354.72   151.32   203.40   354.72   351.32   203.40   354.72   351.32   203.40   354.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   203.40   355.72   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.32   351.													
APTZ221													
CGC5221													
MAGILIX    25.52   4.95   31.47   26.52   4.95   31.47   318.22   59.40   377.64   318.24   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   59.40   377.64   318.26   328.26   328.21   31.73   317.73   314.76   412.49   197.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   214.76   412.49   347.73   347.73   347.74   347.73   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   347.74   34													
BGS2242   15.21   16.52   31.73   15.21   16.52   31.73   17.73   214.76   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49   412.49													
BGS22222         15.211         16.522         31.731         15.221         16.522         31.731         197.732         214.76         412.491         197.732         214.76         412.491         197.732         214.76         412.491         197.732         214.76         412.491         197.733         214.76         412.203         333.64         31.731         197.732         212.66         215.86         225.86         23.21         23.21         23.131         364.11         53.56         417.691         364.13         53.36         417.69         364.61         217.64         417.69         364.61         335.64         440.04         440.62         23.34         68         877.66         117.69         364.60         273.36         357.96         417.69         364.60         273.36         357.96         417.69         364.60         273.36         357.96         417.69         364.60         273.36         357.96         417.69         364.60         273.36         357.96         417.69         364.60         273.36         357.96         417.20         20.20         364.00         20.20         20.20         366.61         422.00         366.67         117.11         426.20         366.67         367.71         367.71         373.2													
ABG2224	BC522x2	15.21	16.52	31.73		16.52							
MAGEZ2R  28.01   4.12   32.13   28.01   4.12   32.13   36.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   53.56   417.69   364.13   364.13   364.14   364.04   365.22   365.23   364.04   364.04   365.04   365.04   364.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   365.04   36			21.25	31.97	10.72	21.25	31.97	128.64			128.64	255.00	
AP726e1					28.01	4.12	32.13	364.13	53.56	417.69	364.13	53.56	417.69
CDG22xd   11.71   24.29   36.00   11.71   24.29   36.00   140.52   291.48   432.00   140.52   291.48   432.00   140.52   291.48   432.00   140.52   291.48   432.00   140.52   291.48   432.00   140.40   150.52   291.48   432.00   140.40   150.52   291.48   432.00   140.40   150.52   291.48   432.00   140.40   150.52   291.48   140.04   150.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52   140.52							27.89	150.72	238.20				334.68
EGS22xd   8.70   27.97   36.67   8.70   27.97   36.67   10.4.0   335.64   440.0.04   104.40   335.64   440.0.04   104.40   335.64   440.0.04   104.40   335.64   440.0.04   104.40   335.64   440.0.04   104.40   335.64   440.0.04   104.40   335.64   440.0.04   104.40   335.64   440.0.04   104.40   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004   340.004							29.83			391.20	84.60	273.36	357.96
BDS22xt   23.97   13.11   37.08   23.97   13.11   37.08   267.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   444.96   287.64   157.32   244.96   287.64   157.32   247.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84   287.84													432.00
Bullsk4 8.62 28.72 37.34 7.87 28.72 36.59 112.06 373.36 485.42 102.31 373.36 475.67 87613x1 4.95 32.69 376.43 33.82 37.85 194.64 18.39 37.85 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.07 492.05 252.98 239.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 252.05 2													
B**613x1         4.95         32.69         37.64         3.33         23.82         27.35         59.40         39.2.8         451.68         42.36         285.84         382.90           AG622x1         19.46         18.39         37.85         15.296         38.03         22.71         15.24         37.95         273.48         182.88         456.36         272.52         182.88         457.90           C6622x1         18.74         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.37         15.79         38.16         22.82         37.788         467.92         224.88         242.04         466.92         224.88         262.04         466.92         224.88         262.04         466.92         224.88         38.20.04         466.92         224.88         262.04         466.92         224.88         38.20.04         466.92         224.88         38.20.04         466.92         224.88         18.20.14         18.98         14.2													
AGG22xt   19.46   18.39   37.85   19.46   18.39   37.85   252.98   239.07   492.05   22.79   452.05   22.79   452.05   22.79   15.24   38.03   22.71   15.24   38.03   22.71   15.24   38.03   22.71   15.24   38.03   22.71   15.24   38.03   22.71   15.24   38.03   22.71   25.20   22.81   28.84   455.40   26.22   22.37   15.79   38.16   22.37   15.79   38.16   26.44   189.48   45.792   268.44   189.48   457.92   268.44   189.48   457.92   268.44   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.24   189.48   457.92   268.22   248.82   247.04   466.92   248.82   247.04   466.92   248.82   247.04   466.92   248.82   247.04   466.92   248.82   247.04   466.92   248.82   247.04   466.92   248.82   247.04   466.92   248.82   247.04   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   248.93   24													
CCG52cyl   22.79   15.24   33.03   22.71   15.24   37.95   273.46   182.88   456.36   272.52   182.88   455.40													
CB722xl 22.37 15.79 38.16 22.37 15.79 38.16 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 457.92 268.44 189.48 269.24 189.48 269.24 189.48 269.24 189.48 269.24 189.48 269.24 189.48 269.24 189.48 269.24 189.48 269.24 189.48 269.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24 189.24													
AD526y1													
BC622xt   18.74   20.17   38.91   18.74   20.17   38.91   224.88   242.04   466.92   224.88   242.04   466.92   248.88   242.04   466.92   248.85   248.03   25.32   13.71   39.03   25.32   13.71   39.03   25.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   303.84   164.52   468.36   474.72   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.84   472.													
AB522x3													
AB6225y1         14.02         25.68         39.70         13.94         25.68         39.62         182.28         33.84         516.10         181.22         333.84         515.06           AB822y1         16.54         23.24         39.78         16.32         23.24         39.56         198.48         278.88         477.36         195.94         278.88         474.72           BB522x2         14.12         26.25         40.37         16.944         315.00         484.44         169.44         315.00         484.44         169.44         315.00         484.44         169.44         315.00         484.44         169.44         315.00         484.44         166.81         24.93         41.75         16.62         24.93         41.75         16.82         299.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00         201.84         289.16         501.00         201.84         299.16         501.00         201.84         299.16         501.00				<del></del>									
BB522x2													
BBS22x2						_							
CGE22x  16.82   24.93													
CDS22x2													
AB522x2   22.32   19.89   42.21   22.32   19.89   42.21   267.84   238.64   506.52   267.84   238.68   506.52     AB525x1**   10.44   31.89   42.33   10.16   31.10   41.26   125.28   382.68   507.96   121.92   373.20   495.12     AL315x1   16.08   27.99   44.07   209.04   363.87   572.91   209.04   363.87   572.91     CC622x3   20.24   26.01   46.25   20.24   26.01   46.25   242.88   312.12   555.00   242.88   312.12   555.00     BB522y1   13.87   32.53   46.40   13.79   32.53   46.52   166.44   390.36   556.80   165.48   390.36   555.80     BB522y1   13.87   32.53   46.40   13.79   32.53   46.52   166.44   390.36   556.80   165.48   390.36   556.80     BS522y1   13.87   32.53   46.40   13.79   32.53   46.52   166.44   390.36   556.80   165.48   390.36   556.80     BS522x1   47.01   31.53   15.75   29.8   264.00   300.12   564.12   162.36   189.00   351.36     CG622x2   27.26   21.51   48.77   27.26   21.51   48.77   327.12   258.12   585.24   327.12   258.12   55.24     BB522x1   43.16   5.69   48.85   43.16   5.69   48.85   561.00   73.97   635.05   561.00   73.97   635.05     BB822x2   36.72   12.15   48.87   36.72   12.15   48.87   440.64   145.80   386.44   440.64   145.80   586.44     AB521x1   21.67   30.88   52.55   21.67   30.88   52.55   260.04   370.56   630.60   260.04   370.56   630.60     CBS21x1   27.30   25.54   52.84   27.30   25.54   52.86   327.00   306.48   634.08   327.60   306.48   634.08   327.12   33.64   24.30   57.94   33.64   24.30   57.94   33.64   24.30   57.94   23.76   35.85   35.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   285.12   670.56   385.44   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48   385.48													
ABS25x1**         10.44         31.89         42.33         10.16         31.10         41.26         125.28         382.68         507.96         121.92         373.20         495.12           AL315g1         16.08         27.99         44.07         16.08         27.99         44.07         209.04         363.87         572.91         209.04         363.87         572.91           C6622x3         20.24         26.01         46.25         24.28         312.12         555.00         242.88         312.12         555.00           BBS22v1         13.87         32.53         46.40         13.79         32.53         46.32         166.44         390.36         556.80         165.48         390.36         555.00           BBS22x2         27.266         21.51         48.77         27.26         21.51         48.77         27.26         21.51         48.87         36.72         12.15         58.52         36.72         27.12         258.12         585.03         586.24         37.77         27.62         21.51         48.87         36.04         44.88         36.04         44.88         36.05         561.08         73.97         635.05         561.03         73.97         635.05         630.60													
AL315g  16.08   27.99   44.07   16.08   27.99   44.07   209.04   363.87   572.91   209.04   363.87   572.91   CG622x3   20.24   26.01   46.25   20.24   26.01   46.25   242.88   312.12   555.00   242.88   312.12   555.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   355.00   242.88   312.12   352.00   242.88   312.12   352.00   252.01   47.01   13.53   15.75   29.28   264.00   300.12   364.12   162.36   189.00   351.36   362.22   327.22   328.12   328.12   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.10   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22   342.22													
CC622x3   20.24   26.01   46.25   20.24   26.01   46.25   242.86   312.12   555.00   242.88   312.12   555.00     BB522y1   13.87   32.53   46.40   13.79   32.53   46.32   166.44   390.36   556.80   165.48   390.36   555.84     AC622x3**   22.00   25.01   47.01   13.53   15.75   29.28   264.00   300.12   564.12   162.36   189.00   351.36     CC622x2   27.26   21.51   48.77   27.26   21.51   48.77   327.12   258.12   585.24   327.12   258.12   57.24     BB522x1   43.16   5.69   48.85   43.16   5.69   48.85   561.08   73.97   635.05   561.08   73.97   635.05     BB622x2   36.72   12.15   48.87   36.72   12.15   48.87   440.64   145.80   386.44   440.64   145.80   386.44     AE521x1   21.67   30.88   52.55   21.67   30.88   52.55   260.04   370.56   630.60   260.04   370.56   630.60     CB521x1   27.30   25.54   52.84   27.30   25.54   52.84   327.60   306.48   634.08   327.60   306.48   634.08     AB822x1   34.99   18.57   53.56   34.99   18.57   53.55   279.29   148.56   428.48   279.92   148.56   428.48     AA622x1   32.12   23.76   55.88   32.12   23.76   55.88   385.44   285.12   670.56   385.44   285.12   670.56     BB722x1   33.64   24.30   57.74   33.64   24.30   57.94   437.32   315.90   753.22   437.32   315.90   753.22     AC722x1   33.64   24.30   57.94   33.64   24.30   57.94   437.32   315.90   753.22   437.32   315.90   753.22     AC722x1   23.45   34.80   58.25   21.38   31.73   53.11   281.40   417.60   699.00   281.40   417.60   699.00     BC522x1   22.19   37.79   59.98   22.19   37.79   59.98   266.28   453.48   719.76   266.28   453.48   719.76     AE522x2   24.42   39.03   63.45   24.42   39.03   63.45   27.00   61.85   29.82   44.00   742.20   29.82   044.00   742.20     AC821x1   24.25   37.00   61.85   24.85   37.00   61.85   24.85   37.00   61.85   24.85   37.00   61.85   24.85   37.00   61.85   24.84   39.03   63.45   27.00   48.30   27.00   36.30   487.80   361.16   363.36   487.80   361.16     AC522x2   24.42   39.03   63.45   24.42   39.03   63.45   27.00   36.20   44.00   74.20   2													
BB522y1													
AC622x3   #   22.00   25.01   47.01   13.53   15.75   29.28   264.00   300.12   564.12   162.36   189.00   351.36													
CC622x2   27.26   21.51   48.77   27.26   21.51   48.77   327.12   258.12   585.24   327.12   258.12   57.524     BB522x1   43.16   5.69   48.85   43.16   5.69   48.85   561.08   73.97   635.05   561.08   73.97   635.05     AB622x2   36.72   12.15   48.87   36.72   12.15   48.87   440.64   145.80   586.44   440.64   145.80   586.44     AE521x1   21.67   30.88   52.55   21.67   30.88   52.55   260.04   370.56   630.60   260.04   370.56   630.60     CB521x1   27.30   25.54   52.84   27.30   25.54   52.84   327.60   306.48   634.08   327.60   306.48   634.08     AB822x1   34.99   18.57   53.56   34.99   18.57   53.56   279.92   148.56   428.48   279.92   148.56   428.48     AA622x1   32.12   23.76   55.88   32.12   23.76   55.83   385.44   285.12   670.56   385.44   285.12   670.56     BB722x1   35.03   22.69   57.72   35.03   22.69   57.72   420.36   272.28   692.64   420.36   272.28   692.64     AC722x1   33.64   24.30   57.94   33.64   24.30   57.94   437.32   315.90   753.22   437.32   315.90   753.22     AC722x1   23.45   34.80   58.25   21.38   31.73   53.11   281.40   417.60   699.00   281.40   417.60   699.00     BC522x1   22.19   37.79   59.98   22.19   37.79   59.98   266.28   453.48   719.76   266.28   453.48   719.76     AC6221x1   24.85   37.00   61.85   24.85   37.00   61.85   298.20   444.00   742.20   298.20   444.00   742.20     AC6221x1   24.42   39.03   63.45   24.42   39.03   63.45   27.04   468.36   761.40   293.04   468.36   761.40     CA721x1   34.42   29.20   63.62   34.42   29.20   63.62   413.04   350.40   763.44   413.04   350.40   763.44     BB522x2   35.55   16.04   69.59   53.55   16.04   69.59   642.60   192.48   835.08   642.60   192.48   835.08     BC611x1   30.28   40.65   70.93   30.28   40.65   70.93   363.36   487.80   851.16   363.36   487.80   851.16     AC522x1   24.42   39.03   63.45   24.42   39.03   63.45   27.00   48.80   76.90   76.60     AC522x2   24.42   39.03   63.45   24.62   39.03   63.45   27.00   48.80   76.90   76.60     AC621x1   34.42   29.20   63.62   34.42													
BB522x1         43.16         5.69         48.85         43.16         5.69         48.85         561.08         73.97         635.05         561.08         73.97         635.05           AB822x2         36.72         12.15         48.87         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.64         145.80         586.44         440.62         260.30         660.40         370.56         630.60         660.60         600.60         600.60         600.60         600.60         600.60         600.60         802.64         282.84         27.90         21.88.56         428.48         279.92         148.56         428.48         279.92         148.56         428.48         279.92         148.56         428.48         289.92         148.56         428.48         289.92         148.56         428.48         289.92         148.56         428.48         489.92         289.12 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
AB822x2   36.72   12.15   48.87   36.72   12.15   48.87   440.64   145.80   586.44   440.64   145.80   586.44     AE521x1   21.67   30.88   52.55   21.67   30.88   52.55   260.04   370.56   630.60   260.04   370.56   630.60     CB521x1   27.30   25.54   52.84   27.30   25.54   52.84   327.60   306.48   634.08   327.60   306.48   634.08     AB822x1   34.99   18.57   53.56   34.99   18.57   53.56   279.92   148.56   428.48   279.92   148.56   428.48     AA622x1   32.12   23.76   55.88   32.12   23.76   55.88   385.44   285.12   670.56   385.44   285.12   670.56     BB722x1   35.03   22.69   57.72   35.03   22.69   57.72   420.36   272.28   692.64   420.36   272.28   692.64     AC722x1   33.64   24.30   57.94   33.64   24.30   57.94   437.32   315.90   753.22   437.32   315.90   753.22     AC722x1   33.64   24.30   57.94   33.64   24.30   57.94   437.32   315.90   753.22   437.32   315.90   753.22     AC722x1   23.45   34.80   58.25   21.38   31.73   53.11   281.40   417.60   699.00   281.40   417.60   699.00     BC522x1   22.19   37.79   59.98   22.19   37.79   59.98   266.28   453.48   719.76   266.28   453.48   719.76     AE522x1   9.96   51.51   61.47   9.96   51.51   61.47   119.52   618.12   737.64   119.52   618.12   737.64     CC621x1   24.85   37.00   61.85   24.85   37.00   61.85   298.20   444.00   742.20   298.20   444.00   742.20     AC821x1   21.70   41.35   63.05   21.70   41.35   63.05   260.40   496.20   756.60   260.40   496.20   756.60     CC522x2   24.42   39.03   63.45   24.42   39.03   63.45   2^{\triangle 0.7} \) 64.68   64.60   69.59   53.55   16.04   69.59   64.260   192.48   835.08   642.60   192.48   835.08     BC611x1   30.28   40.65   70.93   30.28   40.65   70.93   363.36   487.80   351.16   363.36   487.80   851.16     AC522x1   23.10   44.80   72.90   28.10   44.80   72.90   365.30   582.40   947.70   365.30   582.40   947.70     CB522x1   23.10   44.80   72.90   28.10   44.80   72.90   365.30   582.40   947.70   365.30   582.40   947.70     BB722x2   36.32   46.49   82.81   36.32													
AE521x1   21.67   30.88   52.55   21.67   30.88   52.55   260.04   370.56   630.60   260.04   370.56   630.60   CB521x1   27.30   25.54   52.84   27.30   25.54   52.84   27.30   25.54   52.84   27.30   25.54   52.84   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   634.08   327.60   306.48   327.60   306.48   327.60   327.28   327.60   327.28   327.60   327.28   327.60   327.28   327.60   327.28   327.60   327.28   327.60   327.28   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22   327.22	AB822x2	36.72	12.15	48.87	36.72	12.15	48.87	440.64	145.80	586.44		145.80	586.44
AB822xl         34.99         18.57         53.56         34.99         18.57         53.56         279.92         148.56         428.48         279.92         148.56         428.48           AA622xl         32.12         23.76         55.88         32.12         23.76         55.88         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         385.44         285.12         670.56         692.64         480.41         480.21         480.21         480.21         480.21         480.21         480.22         480.24         480.36         480.21         480.22         480.22         480.22         480.22         480.22 <t< td=""><td></td><td></td><td></td><td>52.55</td><td>21.67</td><td>30.88</td><td>52.55</td><td>260.04</td><td>370.56</td><td>630.60</td><td>260.04</td><td>370.56</td><td>630.60</td></t<>				52.55	21.67	30.88	52.55	260.04	370.56	630.60	260.04	370.56	630.60
AA622x1         32.12         23.76         55.88         32.12         23.76         55.88         385.44         285.12         670.56         385.44         285.12         670.56           BB722x1         35.03         22.69         57.72         35.03         22.69         57.72         420.36         272.28         692.64         420.36         272.28         692.64           AC722x1         33.64         24.30         57.94         437.32         315.90         753.22         437.32         315.90         753.22           AC722y1         23.45         34.80         58.25         21.38         31.73         53.11         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40         417.60         699.00         281.40													
BB722xl         35.03         22.69         57.72         35.03         22.69         57.72         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         272.28         692.64         420.36         237.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         427.20         282.20         420.20         282.21         97.00         662.28         453.48         719.76         666.28         453.48         719.76         618.12         737.64         120.20													
AC722x1         33.64         24.30         57.94         33.64         24.30         57.94         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         753.22         437.32         315.90         436.22         437.32         315.90         436.22         437.32         315.30         315.30         315.30         315.30         315.30													
AC722y1         23.45         34.80         58.25         21.38         31.73         53.11         281.40         417.60         699.00         281.40         417.60         699.00           BC522x1         22.19         37.79         59.98         22.19         37.79         59.98         266.28         453.48         719.76         266.28         453.48         719.76           AE522x1         9.96         51.51         61.47         9.96         51.51         61.47         119.52         618.12         737.64         119.52         618.12         737.64           CC621x1         24.85         37.00         61.85         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         20         20         20         20         20         20         20         20         2													
BC522x1         22.19         37.79         59.98         22.19         37.79         59.98         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         266.28         453.48         719.76         261.28         453.48         719.76         261.28         444.00         742.20         288.20         444.00         742.20         298.20         444.00         742.20         298.20         444.00         742.20         298.20         468.36         761.40													
AE522x1         9.96         51.51         61.47         9.96         51.51         61.47         119.52         618.12         737.64         119.52         618.12         737.64           CC621x1         24.85         37.00         61.85         24.85         37.00         61.85         298.20         444.00         742.20         298.20         444.00         742.20           AC821x1         21.70         41.35         63.05         21.70         41.35         63.05         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         293.04         468.36         761.40         293.04         468.36 <td></td>													
CC621x1         24.85         37.00         61.85         24.85         37.00         61.85         298.20         444.00         742.20         298.20         444.00         742.20           AC821x1         21.70         41.35         63.05         21.70         41.35         63.05         260.40         496.20         756.60         260.40         496.20         756.60           CC522x2         24.42         39.03         63.45         24.42         39.03         63.45         20.04         468.36         761.40         293.04         468.36         761.40           CA721x1         34.42         29.20         63.62         34.42         29.20         63.62         413.04         350.40         763.44         413.04         350.40         763.44         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.08         642.60         192.48         835.16													
AC821x1         21.70         41.35         63.05         21.70         41.35         63.05         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         496.20         756.60         260.40         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         468.36         761.40         293.04         462.60         192.48													
CC522x2         24.42         39.03         63.45         24.42         39.03         63.45         20.04         468.36         761.40         293.04         468.36         761.40           CA721x1         34.42         29.20         63.62         34.42         29.20         63.62         413.04         350.40         763.44         413.04         350.40         763.44           BB522x3         53.55         16.04         69.59         53.55         16.04         69.59         642.60         192.48         835.08         642.60         192.48         835.08           BC811x1         30.28         40.65         70.93         30.28         40.65         70.93         363.36         487.80         851.16         363.36         487.80         851.16           AC522x1         23.10         44.80         72.90         28.10         44.80         72.90         365.30         582.40         947.70         365.30         582.40         947.70           CB522x1         45.27         31.73         77.00         45.27         31.73         77.00         543.24         380.76         924.00         543.24         380.76         924.00           BS125ml         45.53         34.10         <													
CA721x1         34.42         29.20         63.62         34.42         29.20         63.62         413.04         350.40         763.44         413.04         350.40         763.44           BB522x3         53.55         16.04         69.59         53.55         16.04         69.59         642.60         192.48         835.08         642.60         192.48         835.08           BC811x1         30.28         40.65         70.93         30.28         40.65         70.93         363.36         487.80         851.16         363.36         487.80         851.16           AC522x1         23.10         44.80         72.90         365.30         582.40         947.70         365.30         582.40         947.70           CB522x1         45.27         31.73         77.00         44.80         72.90         365.30         582.40         947.70         365.30         582.40         947.70           CB522x1         45.27         31.73         77.00         543.24         380.76         924.00         543.24         380.76         924.00           BS125ml         45.53         34.10         79.63         591.89         443.30         1,035.19         591.89         443.30         1,035.19 <td></td>													
BB522x3         53.55         16.04         69.59         53.55         16.04         69.59         642.60         192.48         835.08         642.60         192.48         835.08           BC811x1         30.28         40.65         70.93         30.28         40.65         70.93         363.36         487.80         851.16         363.36         487.80         851.16           AC522x1         28.10         44.80         72.90         28.10         44.80         72.90         365.30         582.40         947.70         365.30         582.40         947.70           CB522x1         45.27         31.73         77.00         45.27         31.73         77.00         543.24         380.76         924.00         543.24         380.76         924.00           BS125ml         45.53         34.10         79.63         45.53         34.10         79.63         591.89         443.30         1,035.19         591.89         443.30         1,035.19         591.89         443.30         1,035.19         591.89         443.30         1,035.19         591.89         443.30         1,035.19         591.89         443.30         1,035.19         591.89         443.80         593.72         435.84         557.88													
BCE11x1         30.28         40.65         70.93         30.28         40.65         70.93         363.36         487.80         851.16         363.36         487.80         851.16           AC522x1         28.10         44.80         72.90         28.10         44.80         72.90         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         582.40         947.70         365.30         383.12         383.12         383.12         383.12         383.12         383.12         383.12         383.12         383.12         383.12         383.12         384.30         1,035.19         383.12         364.32         747.44         383.12         364.32         747.44         383.12         364.32													
AC522x1         28.10         44.80         72.90         365.30         582.40         947.70         365.30         582.40         947.70           CB522x1         45.27         31.73         77.00         45.27         31.73         77.00         543.24         380.76         924.00         543.24         380.76         924.00           BS125ml         45.53         34.10         79.63         45.53         34.10         79.63         591.89         443.30         1,035.19         591.89         443.30         1,035.19           BB722x2         36.32         46.49         82.81         435.84         557.88         993.72         435.84         557.88         993.72           BC821x1         47.89         45.54         93.43         47.89         45.54         93.43         383.12         364.32         747.44         383.12         364.32         747.44           BD524x1         22.35         97.33         119.68         268.201,167.96         1,436.16         268.201,167.96         1,436.16													
CB522x1       45.27       31.73       77.00       45.27       31.73       77.00       543.24       380.76       924.00       543.24       380.76       924.00         BS125ml       45.53       34.10       79.63       45.53       34.10       79.63       591.89       443.30       1,035.19       591.89       443.30       1,035.19         BB722x2       36.32       46.49       82.81       36.32       46.49       82.81       435.84       557.88       993.72       435.84       557.88       993.72         BC821x1       47.89       45.54       93.43       47.89       45.54       93.43       383.12       364.32       747.44       383.12       364.32       747.44         BD524x1       22.35       97.33       119.68       22.35       97.33       119.68       268.201,167.96       1,436.16       268.201,167.96       1,436.16													
BS125ml 45.53 34.10 79.63 45.53 34.10 79.63 591.89 443.30 1,035.19 591.89 443.30 1,035.19 BB722x2 36.32 46.49 82.81 36.32 46.49 82.81 435.84 557.88 993.72 435.84 557.88 993.72 BC821x1 47.89 45.54 93.43 47.89 45.54 93.43 383.12 364.32 747.44 383.12 364.32 747.44 BD524x1 22.35 97.33 119.68 22.35 97.33 119.68 268.201,167.96 1,436.16 268.201,167.96 1,436.16													
BB722x2       36.32       46.49       82.81       36.32       46.49       82.81       435.84       557.88       993.72       435.84       557.88       993.72         BC821x1       47.89       45.54       93.43       47.89       45.54       93.43       383.12       364.32       747.44       383.12       364.32       747.44         BD524x1       22.35       97.33       119.68       22.35       97.33       119.68       268.201,167.96       1,436.16       268.201,167.96       1,436.16													
BC821x1 47.89 45.54 93.43 47.89 45.54 93.43 383.12 364.32 747.44 383.12 364.32 747.44 BD524x1 22.35 97.33 119.68 22.35 97.33 119.68 268.201,167.96 1,436.16 268.201,167.96 1,436.16								591.89	443.30				
BD524x1 22.35 97.33 119.68 22.35 97.33 119.68 268.201,167.96 1,436.16 268.201,167.96 1,436.16													
*No non-educational facilities.					42.33	7/.33	117.08	200.20	T 10/ . 30	1,436.16	268.20	μ,167.96	1,436.16

<sup>\*</sup>No non-educational facilities. \*\*State appropriations for course.



TABLE 4, Continued

COURDERN		COST PER STUDENT-WEEK					COST OF TYPICAL COURSE						
NOBER   FUNCAL   FU													
Ref   Spice   Total					TD.CA	NON-		PDUCA.	NON-		PDUCA-	NON-	
1109AL   1	NUMBER	1		TOTAL			TOTAL		EDUCA-	TOTAL	• 1	EDUCA-	TOTAL
Section   Sect		TIONAL			TIONAL	•		TIONAL	TIONAL	_	TIUNAL	TIONAL	
## # # # # # # # # # # # # # # # # # #					1	NURSIN	G OF CHIL	<u>DREN</u>				}	
AF55521   9,87   22.30   32.17   7.61   22.30   29.91   118.44   267.60   386.04   91.32   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   358.92   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60   267.60	BC656x1	\$ 12.56	\$ 19.21	\$ 31.77	\$ 12.56	\$ 19.211	\$ 31.77	\$163.28	\$249.73	\$ 413.01	\$163 <b>.2</b> 8	\$249.73	\$ 413.01
BP65   137, 520   32,69   37,89   37,89   37,81   37,12   23,92   27,53   62,04   372,28   454,68   472,57   122,63   335,94   479,57   32,03   367,97   122,63   355,94   479,57   32,03   367,97   122,63   355,94   479,57   320,036   37,97   122,97   25,62   38,59   163,04   370,05   370,05   30,03   367,90   163,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   330,33   497,90   363,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,28   347,2								118.44	267.60	386.04	91.32	267.60	
							36.89	123.63	355.94	479.57	123.63		
CG755y1   12,89   25,41   38,30   12,56   25,41   37,97   167,77   300,33   497,90   163,28   330,13   492,61							27.53	62.40	392.28	454.68	44.52	285.84	
### 12.97   25.62   38.59   12.97   25.62   38.59   168.61   333.06   501.67   168.61   333.06   501.67   168.61   333.06   501.67   168.62   333.06   501.67   168.62   333.06   501.67   168.61   333.06   501.67   168.62   333.06   501.67   168.62   333.06   501.67   168.62   333.06   501.67   168.62   333.06   501.67   168.62   333.06   501.67   168.62   336.02   337.20   468.22   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.88   348.8				38.30	12.56	25.41	37.97	167.57	330.33	497.90	163.28	330.33	
RESPSTALL   9,06   31,58   40,64   9,06   31,58   40,64   108,72   379,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,68   108,72   378,96   487,58   112,73   32,98   33,73   112,62   30,70   41,96   149,64   368,60   518,04   135,12   368,60   503,12   127,57   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   112,73   1					12.97	25.62	38.59	168.61	333.06	501.67	168.61	333.06	
BBS55x1						31.58	40.64	108.72	378.96	487.68	108.72	378.96	
## 15551   12,747   30,70   43,17   11,26   30,70   41,96   149,64   358,40   318,04   135,12   368,40   303,52   375,551   311,12   32,68   43,95   11,28   30,97   42,25   142,08   390,00   532,08   135,36   371,64   307,10   307,551   11,28   32,20   44,60   11,28   30,97   42,25   142,08   390,00   532,08   135,36   371,64   307,00   305,551   12,46   32,70   44,34   11,28   30,97   42,25   142,08   390,00   532,08   135,36   371,64   307,00   307,551   12,46   32,70   44,34   11,28   30,97   42,25   142,08   390,00   532,08   135,36   371,64   307,00   307,551   12,46   32,70   44,34   11,28   30,97   42,25   142,08   390,00   532,08   135,36   371,64   307,00   418,86   579,80   44,81   30,97   42,25   44,60   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   44,81   4							41.35	159.00	337.20	496.20	159.00	337.20	496.20
AF55591							41.96	149.64	368.40	518.04	135.12	368.40	
CC75521							41.76	135.24	392.10	527.40	128.52	372.60	501.12
CF655x1   12.38   32.22   44.60   12.38   32.70   45.16   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   160.94   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80   418.86   579.80						30.97	42.25	142.08	390.00	532.08	135.36	371.64	
R6655y1   12.46   32.70   45.16   7.61   32.70   40.31   161.98   425.10   587.08   89.31   425.10   524.03   34.31261   5.87   5.31   45.18   5.14   49.31   44.45   70.44   471.72   542.16   61.68   471.72   533.40   476.5691   6.20   39.17   45.37   6.07   38.35   44.42   80.60   599.21   589.81   74.712   533.40   476.5691   6.20   39.17   45.37   6.07   38.35   44.42   80.60   599.21   589.81   74.91   498.55   577.46   43.31521   79.94   47.33   19.34   27.99   47.33   53.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.87   615.29   251.42   363.42   615.42   363.42   363.87   615.29   251.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42   363.42							44 - 60	160.94	418.86	579.80	160.94	418.86	579.80
## ## ## ## ## ## ## ## ## ## ## ## ##					٠	32.70	40.31	161.98	425.10	587.08	98.93	425.10	524.03
AGS										542.16			
19.34   27.99   47.33   19.34   27.99   47.33   19.34   27.99   47.33   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.87   615.29   231.42   363.42   363.87   363.42   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   363.87   3									509.21				
										615.29			
ALAJA11   12.67   35.76   48.43   12.67   35.76   48.43   152.04   429.12   581.16   132.04   429.12   581.16   C555x1   22.65   25.82   48.67   27.65   25.82   48.47   27.19   30.90.84   581.64   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   581.65   27.180   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   309.84   30											272.22		
BC55x    22.65   25.02   48.47   22.65   25.82   44.47   271.80   309.84   581.64   271.80   309.84   581.66   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   309.84   581.64   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80   271.80											152.04	429.12	
\$\frac{10055yrl}{20055yrl} = 32,36												309.84	581.64
CFG   172   173   174   175   174   174   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175   175										673.53	397.15	252.85	650.00
SAGI   CR   ST   ST   ST   ST   ST   ST   ST   S											329.16	352.56	681.72
CRES5x2   31.64   21.63   53.27   31.64   21.63   53.27   379.68   259.56   639.24   379.68   259.56   639.24   CRES5y1   20.38   45.85   66.23   20.16   45.85   66.01   244.56   550.20   794.76   241.92   550.20   792.12										637.44	373.20	264.24	637.44
COMMUNICABLE DISEASE NURSING   CR732x1***										639.24	379.68	259.56	639.24
CRT32x1**   16.33   17.42   33.75   2.43   11.36   13.79   65.32   69.68   135.00   9.72   45.44   55.16   E1613p1   33.97   4.18   38.15   33.97   4.18   38.15   135.88   16.72   152.60   135.88   16.72   152.60   EB532x1   38.47   * 38.47   * 38.47   * 38.47   * 38.47   153.88   * 153.88   153.88   153.88   153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$ 153.88   \$								244.56			241.92	550.20	792.12
CE732x1** 16.33 17.42 33.75 2.43 11.36 13.79 65.32 69.68 135.00 9.72 45.44 55.16 BIA191 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.58 16.72 152.60 CB532x1 38.47 * 83.47 34.75 44.42 150.00 13.59 29.48 43.07 13.59 29.48 43.07 13.59 29.48 43.07 13.59 29.48 25.42 208.50 266.52 58.42 31.54 176.88 258.42 AD633x1 9.67 34.75 44.42 9.67 34.75 44.42 38.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 20.50 266.52 20.50 266.52 20.50 266.52 20.50 266.52 20	0200372	1 22000			<u>.                                    </u>			· · · · · · · · · · · · · · · · · · ·					
CE732x1** 16.33 17.42 33.75 2.43 11.36 13.79 65.32 69.68 135.00 9.72 45.44 55.16 BIA191 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.97 4.18 38.15 33.58 16.72 152.60 CB532x1 38.47 * 83.47 34.75 44.42 150.00 13.59 29.48 43.07 13.59 29.48 43.07 13.59 29.48 43.07 13.59 29.48 25.42 208.50 266.52 58.42 31.54 176.88 258.42 AD633x1 9.67 34.75 44.42 9.67 34.75 44.42 38.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 20.50 266.52 20.50 266.52 20.50 266.52 20.50 266.52 20					C	OMMUNICAE	LE DISEAS	E NURSING	3				
BEA15p1 33.97 4.18 38.15 33.97 4.18 38.15 135.88 16.72 152.60 135.88 16.72 152.60 (B532x1 38.47 * 38.47 38.47 * 38.47 * 38.47 * 38.47 153.88 * 153.88 * 153.88 153.88 * 153.88 B633x1 13.59 29.48 43.07 13.59 29.48 43.07 31.54 176.88 258.42 81.54 176.88 258.42 B633x1 9.67 34.75 44.42 9.67 34.75 44.42 158.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 266.52 58.02 208.50 265.34 12.82 32.69 45.51 9.15 23.82 32.97 76.92 196.14 273.06 54.90 142.92 197.52 26.534x1 20.32 26.94 47.26 20.32 26.94 47.26 121.92 161.64 283.56 121.92 161.64 283.56 AL31201 20.08 39.31 59.39 17.59 39.31 56.90 80.32 157.24 237.56 70.36 157.24 227.60 AB532x1 32.40 32.60 65.00 32.40 32.60 65.00 122.0 130.40 260.00 129.60 130.40 260.00 B634x1 19.95 45.39 65.34 19.95 45.39 65.34 119.70 272.34 392.04 119.70 272.34 392.04 AIA1311 34.19 35.76 69.95 34.19 35.76 69.95 136.76 143.04 279.80 136.76 143.04 227.80 AIA31201 20.08 80.31 47.84 29.80 77.64 47.84 29.80 77.64 191.30 119.20 310.56 AB632x1 40.16 40.65 80.81 40.16 40.65 80.81 40.16 40.65 80.81 240.96 243.90 484.86 240.96 243.90 484.86 AIA31201 13.59 39.31 52.90 12.22 39.31 51.33 163.08 471.72 630.96 243.90 484.86 BF613x1 30.97 32.69 63.66 22.12 23.92 31 57.24 59.48 471.72 630.96 AIA31201 13.59 39.31 52.90 12.22 39.31 51.33 163.08 471.72 630.96 201.84 429.12 630.96 BF613x1 30.97 32.69 63.66 22.12 23.92 31.51 33 163.08 471.72 630.96 10.66 40.65 80.81 40.16 40.65 80.81 240.96 243.90 484.86 240.96 243.90 484.86 BF613x1 30.97 32.69 63.66 22.12 23.92 31.51 33 163.08 471.72 630.96 10.66 40.65 80.81 40.65 47.84 29.80 77.48 4.33 57.20 105.24 581.16 686.40 105.24 581.16 686.40 BF613x1 30.97 32.69 63.66 22.12 23.92 31.51 33 163.08 471.72 630.96 10.66 47.72 618.35 48.77 48.43 57.20 13.66 51.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12 630.96 201.84 429.12	07700 144	1 16 00	17/0	1 22 75	_				_	1 125 00	1 0 72	1 45 44	1 55.76
CB532x1   38.47													
BDG33x1													
AD653x1													
BF613x1   12.82   32.69   45.51   9.15   23.82   32.97   76.92   196.14   273.06   54.90   142.92   197.82			<del></del>				44.4						
CB334x    20.32   26.94   47.26   20.32   26.94   47.26   121.92   161.64   283.56   121.92   161.64   283.56     AL31201   20.08   39.31   59.39   17.59   39.31   56.90   80.32   157.24   237.56   70.36   157.24   227.60     BD634x    19.95   45.39   65.34   19.95   45.39   65.34   19.95   45.39   65.34   19.95   45.39   65.34   19.95   45.39   47.84   29.80   77.64   47.84   29.80   77.64   19.36   119.70   272.34   392.04   119.70   272.34   392.04     AL41311   34.19   35.76   69.95   34.19   35.76   69.95   136.76   143.04   279.80   136.76   143.04   279.80     CB732x    47.84   29.80   77.64   47.84   29.80   77.64   191.36   119.20   310.56   191.36   119.20   310.56     AB632x    40.16   40.65   80.81   40.16   40.65   80.81   240.96   243.90   484.86   240.96   243.90   484.86     CA616x1   8.89   27.20   36.00   8.89   27.20   36.00   106.68   326.40   433.08   106.68   326.40   433.08     AL41311   16.82   35.76   52.58   16.82   35.76   52.58   201.84   429.12   630.96   201.84   429.12   630.96     CC545x1   8.77   48.43   57.20   8.77   48.43   57.20   105.24   581.16   686.40     BF613x1   30.97   32.69   63.66   22.12   23.82   45.94   371.64   392.28   763.92   265.44   285.84   557.28     CB545y1   25.00   51.46   76.46   24.86   51.46   76.32   325.00   668.98   993.98   323.18   668.98   992.16     CTHER NURSING   BB615x1   29.07   4.85   33.92   29.07   4.85   33.92   116.28   19.00   135.68   116.28   19.40   135.68     BL11501   2.51   37.18   39.69   2.51   37.18   39.69   65.26   966.66   1,031.94   65.26   966.68   1,031.94     CA616x1   14.66   27.20   41.86   14.66   27.20   41.86   58.64   108.80   167.44   58.64   108.80   167.44     CE514x1   20.03   40.84   60.87   20.03   40.84   60.87   80.12   163.36   243.48   80.12   163.36   243.48     BF613x1   33.17   32.69   65.86   23.69   23.82   47.51   199.02   196.14   395.16   142.14   142.92   285.06     AC565x1   54.26   25.27   79.53   54.26   25.27   79.53   217.04   101.08   318.12   217.04   101.08   318.12   217.04   101.													
AL31201   20.08   39.31   59.39   17.59   39.31   56.90   80.32   157.24   237.56   70.36   157.24   227.60     AB532x1   32.40   32.60   65.00   32.40   32.60   65.00   129.60   130.40   260.00   129.60   130.40   260.00     AB532x1   19.95   45.39   65.34   19.95   45.39   65.34   119.70   272.34   392.04   119.70   272.34     AL41311   34.19   35.76   69.95   34.19   35.76   69.95   136.76   143.04   279.80   136.76   143.04   279.80     CB732x1   47.84   29.80   77.64   47.84   29.80   77.64   191.36   119.20   310.56   191.36   119.20   310.56     AB632x1   40.16   40.65   80.81   40.16   40.65   80.81   240.96   243.90   484.86   240.96   243.90   484.86     CA616x1   8.89   27.20   36.09   8.89   27.20   36.09   106.68   326.40   433.08   106.68   326.40   433.08     AL41311   16.82   35.76   52.58   16.82   35.76   52.58   201.84   429.12   630.96   201.84   429.12   630.96     AL31201   13.59   39.31   52.90   12.22   39.31   51.33   163.08   471.72   634.80   146.64   471.72   618.36     AL31201   30.97   32.69   63.66   22.12   23.82   45.94   371.64   392.28   763.92   265.44   285.84   551.28     CB545y1   25.00   51.46   76.46   24.86   51.46   76.32   35.00   668.98   993.98   323.18   668.98   992.16      OTHER NURS ING      BA615x1   9.33   22.98   32.31   9.33   22.98   32.31   55.98   137.88   193.86   55.98   137.88   193.86     BE614x1   9.33   22.98   32.31   9.33   22.98   32.31   55.98   137.88   193.86   55.98   137.88   193.86     BE615x1   9.33   22.98   32.31   9.33   22.98   32.31   55.98   137.88   193.86   55.98   137.88   193.86     BE615x1   29.07   48.85   33.92   29.07   4.85   33.92   106.28   19.40   135.68     BE615x1   29.07   4.85   33.92   29.07   4.85   33.92   106.28   19.40   135.68   106.28   19.40   135.68     BE615x1   29.03   40.84   60.87   80.95   65.26   966.65   1,031.94   65.26   966.68   1,031.94     CA616x1   14.66   27.20   41.86   14.66   27.20   41.86   58.64   108.80   167.44   58.64   108.80   167.44     CE514x1   20.03   40.84   60.87   80.95   20.5													
AB532x1   32.40   32.60   65.00   32.40   32.60   65.00   129.60   130.40   260.00   129.60   130.40   260.00													
BP634x1													
AL41311 34.19 35.76 69.95 34.19 35.76 69.95 136.76 143.04 279.80 136.76 143.04 279.80 CB732x1 47.84 29.80 77.64 47.84 29.80 77.64 191.36 119.20 310.56 191.36 119.20 310.56 AB632x1 40.16 40.65 80.81 40.16 40.65 80.81 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 484.86 240.96 243.90 429.12 630.96 243.90 484.86 240.96 243.90 448.40 105.24 285.84 285.84 555.28 285.24 285.84 555.28 285.24 285.84 555.28 285.24 285.84 555.28 285.24 285.84 555.28 285.24 285.24 285.84 555.28 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285.24 285				<del></del>									
CB732x1													
CA616x1													
OBSTETRIC NURSING           CA616x1         8.89         27.20         36.09         8.89         27.20         36.09         106.68         326.40         433.08         106.68         326.40         433.08           ALA1311         16.82         35.76         52.58         16.82         35.76         52.58         16.82         35.76         52.58         201.84         429.12         630.96         201.84         429.12         630.96           AL31201         13.59         39.31         52.90         12.22         39.31         51.33         163.08         471.72         634.80         146.64         471.72         618.36           CC545x1         8.77         48.43         57.20         8.77         48.43         57.20         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16         686.40         105.24         581.16<													
CA616x1         8.89         27.20         36.09         8.89         27.20         36.09         106.68         326.40         433.08         106.68         326.40         433.08           AIA1311         16.82         35.76         52.58         16.82         35.76         52.58         201.84         429.12         630.96         201.84         429.12         630.96           AI.31201         13.59         39.31         52.90         12.22         39.31         51.33         163.08         471.72         634.80         146.64         471.72         618.36           CC545x1         8.77         48.43         57.20         105.24         581.16         686.40         105.24         581.16         686.40           BF613x1         30.97         32.69         63.66         22.12         23.82         45.94         371.64         392.28         763.92         265.44         285.84         557.28           CB545y1         25.00         51.46         76.46         24.86         51.46         76.32         325.00         668.98         993.98         323.18         668.98         992.16           OTHER NURSING           BA615x1         9.33         22.98         32.31<	AB632x1	1 40.16	40.65	80.81	1 40.16	1 40.65	80.81	240.96	<u> </u>	1 484.86	1 240.96	1 243.90	404.80
CA616x1         8.89         27.20         36.09         8.89         27.20         36.09         106.68         326.40         433.08         106.68         326.40         433.08           AIA1311         16.82         35.76         52.58         16.82         35.76         52.58         201.84         429.12         630.96         201.84         429.12         630.96           AI.31201         13.59         39.31         52.90         12.22         39.31         51.33         163.08         471.72         634.80         146.64         471.72         618.36           CC545x1         8.77         48.43         57.20         105.24         581.16         686.40         105.24         581.16         686.40           BF613x1         30.97         32.69         63.66         22.12         23.82         45.94         371.64         392.28         763.92         265.44         285.84         557.28           CB545y1         25.00         51.46         76.46         24.86         51.46         76.32         325.00         668.98         993.98         323.18         668.98         992.16           OTHER NURSING           BA615x1         9.33         22.98         32.31<						0505		****					
ALA1311 16.82 35.76 52.58 16.82 35.76 52.58 201.84 429.12 630.96 201.84 429.12 630.96  AL31201 13.59 39.31 52.90 12.22 39.31 51.33 163.08 471.72 634.80 146.64 471.72 618.36 CC545x1 8.77 48.43 57.20 8.77 48.43 57.20 105.24 581.16 686.40 105.24 581.16 686.40 BF613x1 30.97 32.69 63.66 22.12 23.82 45.94 371.64 392.28 763.92 265.44 285.84 551.28 CB545y1 25.00 51.46 76.46 24.86 51.46 76.32 325.00 668.98 993.98 323.18 668.98 992.16    DOTHER NURSING   STATE						OBSTE	STRIC NURS	T I/IG		_	_		_
ALA1311 16.82 35.76 52.58 16.82 35.76 52.58 201.84 429.12 630.96 201.84 429.12 630.96  AL31201 13.59 39.31 52.90 12.22 39.31 51.33 163.08 471.72 634.80 146.64 471.72 618.36 CC545x1 8.77 48.43 57.20 8.77 48.43 57.20 105.24 581.16 686.40 105.24 581.16 686.40 BF613x1 30.97 32.69 63.66 22.12 23.82 45.94 371.64 392.28 763.92 265.44 285.84 551.28 CB545y1 25.00 51.46 76.46 24.86 51.46 76.32 325.00 668.98 993.98 323.18 668.98 992.16    DOTHER NURSING   STATE	04616-1	0 00	27 00	26 00	0 00	27 20	26 00	106 60	326 40	/32 No	106 60	326 40	1 /33 Ng
AL31201 13.59 39.31 52.90 12.22 39.31 51.33 163.08 471.72 634.80 146.64 471.72 618.36 CC545x1 8.77 48.43 57.20 8.77 48.43 57.20 105.24 581.16 686.40 105.24 581.16 686.40 BF613x1 30.97 32.69 63.66 22.12 23.82 45.94 371.64 392.28 763.92 265.44 285.84 551.28 CB545y1 25.00 51.46 76.46 24.86 51.46 76.32 325.00 668.98 993.98 323.18 668.98 992.16     DOTHER NURSING   Section 1													
CC545x1 8.77 48.43 57.20 8.77 48.43 57.20 105.24 581.16 686.40 105.24 581.16 686.40 BF613x1 30.97 32.69 63.66 22.12 23.82 45.94 371.64 392.28 763.92 265.44 285.84 551.28 CB545y1 25.00 51.46 76.46 24.86 51.46 76.32 325.00 668.98 993.98 323.18 668.98 992.16     DOTHER NURSING													
BF613x1 30.97 32.59 63.66 22.12 23.82 45.94 371.64 392.28 763.92 265.44 285.84 551.28 CB545y1 25.00 51.46 76.46 24.86 51.46 76.32 325.00 668.98 993.98 323.18 668.98 992.16     DOTHER NURSING				<del></del>									
CB545y1 25.00 51.46 76.46 24.86 51.46 76.32 325.00 668.98 993.98 323.18 668.98 992.16  CTHER NURSING  BA615x1 9.33 22.98 32.31 9.33 22.98 32.31 55.98 137.88 193.86 55.98 137.88 193.86  BE614x1 29.07 4.85 33.92 29.07 4.85 33.92 116.28 19.40 135.68 116.28 19.40 135.68  BL115o1 2.51 37.18 39.69 2.51 37.18 39.69 65.26 966.66 1,031.94 65.26 966.68 1,031.94  CA616x1 14.66 27.20 41.86 14.66 27.20 41.86 58.64 108.80 167.44 58.64 108.80 167.44  CE514x1 20.03 40.84 60.87 20.03 40.84 60.87 80.12 163.36 243.48 80.12 163.36 243.48  AA815x1 11.79 53.07 64.86 11.79 53.07 64.86 47.16 212.28 259.44 47.16 212.28 259.44  BF613x1 33.17 32.69 65.86 23.69 23.82 47.51 199.02 196.14 395.16 142.14 142.92 285.06  AC565x1 54.26 25.27 79.53 54.26 25.27 79.53 217.04 101.08 318.12 217.04 101.08 318.12													
OTHER NURSING           BA615x1         9.33         22.98         32.31         9.33         22.98         32.31         55.98         137.88         193.86         55.98         137.88         193.86           BE614x1         29.07         4.85         33.92         29.07         4.85         33.92         116.28         19.70         135.68         116.28         19.40         135.68           BL115o1         2.51         37.18         39.69         2.51         37.18         39.69         65.26         966.68         1,031.94         65.26         966.68         1,031.94           CA616x1         14.66         27.20         41.86         14.66         27.20         41.86         58.64         108.80         167.44         58.64         108.80         167.44           CE514x1         20.03         40.84         60.87         20.03         40.84         60.87         80.12         163.36         243.48         80.12         163.36         243.48           AA815x1         11.79         53.07         64.86         47.16         212.28         259.44         47.16         212.28         259.44           BF613x1         33.17         32.69         65.86													
BA615x1       9.33       22.98       32.31       9.33       22.98       32.31       55.98       137.88       193.86       55.98       137.88       193.86         BE614x1       29.07       4.85       33.92       29.07       4.85       33.92       116.28       19.40       135.68       116.28       19.40       135.68         BL115o1       2.51       37.18       39.69       2.51       37.18       39.69       65.26       966.66       1,031.94       65.26       966.68       1,031.94         CA616x1       14.66       27.20       41.86       14.86       58.64       108.80       167.44       58.64       108.80       167.44         CE514x1       20.03       40.84       60.87       20.03       40.84       60.87       80.12       163.36       243.48       80.12       163.36       243.48         AA815x1       11.79       53.07       64.86       47.16       212.28       259.44       47.16       212.28       259.44         BF613x1       33.17       32.69       65.86       23.69       23.82       47.51       199.02       196.14       395.16       142.14       142.92       285.06         AC565x1       54.26	I CR 242AT	23.00	1 31.46	1 /0.46	1 24.86	JI.40	10.32	323.00	T 000.39	773.70	1 223.10	000.70	336.010
BA615x1       9.33       22.98       32.31       9.33       22.98       32.31       55.98       137.88       193.86       55.98       137.88       193.86         BE614x1       29.07       4.85       33.92       29.07       4.85       33.92       116.28       19.40       135.68       116.28       19.40       135.68         BL115o1       2.51       37.18       39.69       2.51       37.18       39.69       65.26       966.66       1,031.94       65.26       966.68       1,031.94         CA616x1       14.66       27.20       41.86       14.86       58.64       108.80       167.44       58.64       108.80       167.44         CE514x1       20.03       40.84       60.87       20.03       40.84       60.87       80.12       163.36       243.48       80.12       163.36       243.48         AA815x1       11.79       53.07       64.86       47.16       212.28       259.44       47.16       212.28       259.44         BF613x1       33.17       32.69       65.86       23.69       23.82       47.51       199.02       196.14       395.16       142.14       142.92       285.06         AC565x1       54.26	1					<b>∕</b>	JPD MMCTN	c					
BE614x1         29.07         4.85         33.92         29.07         4.85         33.92         116.28         19.40         135.68         116.28         19.40         135.68           BL115o1         2.51         37.18         39.69         2.51         37.18         39.69         65.26         966.66         1,031.94         65.26         966.68         1,031.94           CA616x1         14.66         27.20         41.86         27.20         41.86         58.64         108.80         167.44         58.64         108.80         167.44           CE514x1         20.03         40.84         60.87         20.03         40.84         60.87         80.12         163.36         243.48         80.12         163.36         243.48           AA815x1         11.79         53.07         64.86         11.79         53.07         64.86         47.16         212.28         259.44         47.16         212.28         259.44           BF613x1         33.17         32.69         65.86         23.69         23.82         47.51         199.02         196.14         395.16         142.14         142.92         285.06           AC565x1         54.26         25.27         79.53         54.26<					_	· · · · · · · · · · · · · · · · · · ·		_			•		
BL11501         2.51         37.18         39.69         2.51         37.18         39.69         65.26         966.66         1,031.94         65.26         966.68         1,031.94           CA616x1         14.66         27.20         41.86         14.66         27.20         41.86         58.64         108.80         167.44         58.64         108.80         167.44           CE514x1         20.03         40.84         60.87         20.03         40.84         60.87         80.12         163.36         243.48         80.12         163.36         243.48           AA815x1         11.79         53.07         64.86         11.79         53.07         64.86         47.16         212.28         259.44         47.16         212.28         259.44           BF613x1         33.17         32.69         65.86         23.69         23.82         47.51         199.02         196.14         395.16         142.14         142.92         285.06           AC565x1         54.26         25.27         79.53         54.26         25.27         79.53         217.04         101.08         318.12         217.04         101.08         318.12													
CA616x1         14.66         27.20         41.86         14.66         27.20         41.86         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         58.64         108.80         167.44         60.87         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48         80.12         163.36         243.48													
CE514x1         20.03         40.84         60.87         20.03         40.84         60.87         80.12         163.36         243.48         80.12         163.36         243.48           AA815x1         11.79         53.07         64.86         11.79         53.07         64.86         47.16         212.28         259.44         47.16         212.28         259.44           BF613x1         33.17         32.69         65.86         23.69         23.82         47.51         199.02         196.14         395.16         142.14         142.92         285.06           AC565x1         54.26         25.27         79.53         54.26         25.27         79.53         217.04         101.08         318.12         217.04         101.08         318.12	BL11501												
AA815x1       11.79       53.07       64.86       11.79       53.07       64.86       47.16       212.28       259.44       47.16       212.28       259.44         BF613x1       33.17       32.69       65.86       23.69       23.82       47.51       199.02       196.14       395.16       142.14       142.92       285.06         AC565x1       54.26       25.27       79.53       54.26       25.27       79.53       217.04       101.08       318.12       217.04       101.08       318.12	CA616x1	14.66											
BF613x1 33.17 32.69 65.86 23.69 23.82 47.51 199.02 196.14 395.16 142.14 142.92 285.06 AC565x1 54.26 25.27 79.53 54.26 25.27 79.53 217.04 101.08 318.12 217.04 101.08 318.12	CE514x1	20.03	40.84										
BF613x1       33.17       32.69       65.86       23.69       23.82       47.51       199.02       196.14       395.16       142.14       142.92       285.06         AC565x1       54.26       25.27       79.53       54.26       25.27       79.53       217.04       101.08       318.12       217.04       101.08       318.12		11.79	53.07	64.86									
AC565x1 54.26 25.27 79.53 54.26 25.27 79.53 217.04 101.08 318.12 217.04 101.08 318.12				65.86		23.82	47.51						
				79.53	54.26	25.27	79.53	1 217.04	101.08	318.12	217.04	101.08	318.12
			1 60-212	tios									

\*No non-educational facilities.

\*\*State appropriations for course.



TABLE 5. AGGREGATE GROSS AND NET COSTS OF DIPLOMA PROGRAMS

CODE NUMBER (PARENT INSTITUTION)	NURSING COURSE BY COOPERATING AGENCY	STUDENT WEEKS	GROSS EDUCATIONAL COST	GROSS NON- EDUCATIONAL COST	GROSS COST  OF  TOTAL	GROSS TOTAL PROGRAM COST PER STUDENT- WEEK	NET TOTAL PROGRAM COST PER STUDENT- WEEK
			1 /0 100	4 (0.500	PROGRAM \$ 84.787	\$24.53	\$22.42
BM31501		3,456	\$ 42,199	\$ 42,588 67,009	\$ 84,787	924.55	722.72
CM216m6		4,284	58,434	12,906			
	Psychiatric	600	16,356	12,500	154,705	31.68	27.10
DV215-5		3,957	68,412	54,841			
B <b>M3</b> 15o5	Psychiatric	195	2,734	5,008			
	Pediatric	216	1,268	8,491			
	rediatric	210	-,200		140,754	32.22	30.42
CM216m4		3,720	72,868	56,709			
0.122	Psychiatric	312	6,315	8,115			
					144,007	35.72	29.85
CL31504		5,988	89,845	116,186			
	Psychiatric	492	16,935	14,366			
	Communicable Disease	48	784	836	238,952	36.60	34.51
		7 006	105 000	138,562	230,932	30.00	34.32
BL216m3	Daniel Aresta	7,326 450	135,822 10,256	6,858			
	Psychiatric	430	10,230	0,050	291,498	37.49	29.76
AV 176 - 1		13,118	197,751	312,518	2,2,4,0	1	
AL176e1	Psychiatric	1,476	11,365	36,752			
	rsychiactic	1,470	12,505		558,386	38.26	30.32
AL216m4		7,392	108,441	176,964	285,405	38.61	32.15
BL115k1		12,624	173,560	324,567			
DELLINI	Psychiatric	1,079	10,963	15,786			
	Communicable Disease <sup>3</sup>	124	4,770		532,646	38.80	32.53
AL115k3		7,684	150,174	148,608			
MLIJKS	Psychiatric	910	9,246	13,313			1
	Rehabilitation <sup>4</sup>	248	13,456	6,267			
	1,011,002,12,000,1011				341,064	38.83	33.39
BI_416m1		9,756	131,630	247,159			
D231202	Psychiatric	612	10,122	14,223			24.00
					403,134	38.88	34.99
CL215m1	•	11,808	171,403	285,178			
	Pediatric <sup>3</sup>	884	8,407		164 000	39.38	35.96
			165 (00	166 001	464,988	39.30	33.90
AL115m3		7,636	165,430	146,991			
	Psychiatric	428	2,956	5,445	320,822	39.78	36.44
		2 207	58,417	78,816	320,022	- 37	
CM31502	Daniel atmin	3,307 221	1,722	2,975			
	Psychiatric	221	1,722		14.1,930	40.23	35.18
CM21501	<del>                                     </del>	3,421	57,223	83,029			
CMXIOUI	Psychiatric	299	5,412	3,148			
	Pediatric	312	10,096	6,068			
					164,976	40.92	36.12
CS216e1		2,154		45,245			
<del>-</del>	Psychiatric	195		2,053			
	Pediatric	195	4,083	5,339	-0-000	12 65	21 06
			1	100.076	105,960	41.65	31.96
CM31504		3,905		100,046			
	Psychiatric	260	3,637	7,251	175,249	42.08	39.08
		7.00	120 207	184,635	173,249	42.00	37.00
BL316g1		7,065		3,417			
	Psychiatric	432	2,007	3,41/	320,366	42.73	38.49
00016:1		3,120	73,823	64,615	320,500	· · · · · · · · · · · · · · · · · · ·	
CS316o1	Description of the state of the	192	· · · · · · · · · · · · · · · · · · ·	2,419			
	Psychiatric	1,72	002	2,42	141,539	42.74	40.14
AM416m2	<del></del>	3,085	54,276	80,974			
AM410M2	Psychiatric	273	1	2,875			
	Pediatric	267		5, 183			
	Communicable Disease	3.1		1,781			
ł					159,604	43.17	35.94

<sup>2.</sup> Some costs estimated for this institution.



Institution did not provide non-educational functions.
 Institution provided partial maintenance only.

CODE NUMBER (PARENT	NURSING COURSE BY COOPERATING	STUDENT WEEKS	GROSS EDUCATIONAL	GROSS NON- EDUCATIONAL	GROSS COST OF TOTAL	GROSS TOTAL PROGRAM COST PER STUDENT-	NET TOTAL PROGRAM COST PER STUDENT-
(NSTITUTION)	AGENCY	MERKO	COST	COST	PROGRAM	WEEK	WEEK
CL316o2		6,210	\$113,528	\$ 173,259			
	Psychiatric	650	10,264	14,541			
ļ	Pediatric	676	8,714	17,177	\$ 337,483	\$44.78	\$40.98
BM216m3		3,264	65,052	80,817			
	Psychiatric	288	6,336	7,203	150 409	// 99	37.45
BL115k4		11,520	186,854	330,854	159,408 517,708	44.94	49.02
BM216m2		4,816	82,302	140,808	52,7,55		
	Psychiatric	416	4,056	9,094	026 060	45.16	41.67
CL316o1		11,812	234,753	303,096	236,260	43.10	41.07
CESTOOT	Psychiatric	552	12,944	19,210			<u> </u>
	Communicable Disease4	438	9,732	1,844	501 570	16.10	/0.05
71/016 0		3,546	81,203	89,359	581,579	46.42	42.85
BM316m2	Psychiatric	494	4,258	14,188	<u> </u>		
	Pediatric	5 <b>2</b> 0	6,438	16,754			
				100.000	212,200	46.54	44.25
BM215m3	D-m-1-takuta	4,356 396	64,178 12,720	136,826 9,409	1		
	Psychiatric	390	12,720	9,409	223,133	46.96	42.77
AL115k5		7,677	138,891	214,680			
	Psychiatric	387	10,886	17,356	201 012	47.25	44.40
AM316m1		4,536	103,275	126,708	381,813	47.35	44.40
WIND TOURT	Psychiatric	444	1,576	5,594			
	Pediatric	396	2,325	15,567			40.70
		10 226	154 945	368,850	255,045	47.44	40.78
BL21301	Psychiatric <sup>4</sup> ,	12,334 756	154,845 17,131	2,344			
	Obstetric <sup>2</sup> , 4	144	1,168	433			
	Communicable bisease	346	4,705	10,206	EE0 692	48.07	44.79
BM115o7		5,180	123,060	130,563	559,682	40.07	44.79
PHILION	Psychiatric	372	5,160	12,101			
	Pediatric	336	3,044	10,611			
		0.560	164,987	293,477	284,539	48.33	45.97
BL115e1	Psychiatric	9,5 <b>6</b> 8 1,047	22,688	32,331			
	Pediatric <sup>4</sup>	678	7,641	3,309			
					524,433	48.76	43.46
CM216m1	Donald same	3,572 364	84,631	96,594 7,957	İ	ľ	
	Psychiatric	304	3,549	7,937	192,731	48.97	39.82
CL315m1		5,796	115,357	188,085			
	Psychiatric	444	2,145	3,512	200 000	49.54	43.48
CL215o2		9,806	153,154	336,652	309,099	49.34	43.40
CLETICE	Psychiatric	754	10,571	19,363			
	Pediatric <sup>3</sup>	767	7,294			40.05	/0.07
12/01/	<u></u>	2 640	70.760	104,737	527,034 183,477		48.27 47.71
AM314m1 BM115e1		3,648 4,560	78,740 119,284	122,522	103,477	30.43	47.71
Britiset	Psychiatric	396	8,839	7,876	1		
	Pediatric	420	4,145	9,366			
	1	1	1	<u> </u>	272,032	50.60	42.45

Some costs estimated for this institution.
 Institution did not provide non-educational functions.
 (nstitution provided partial maintenance only.



 $\mathcal{F}$ 

TABLE 5, Continued

CODE NUMBER (PARENT	NURSING COURSE BY COOPERATING	STUDENT	GROSS EDUCATIONAL	GROSS NON- EDUCATIONAL	GROSS COST OF	GROSS TOTAL PROGRAM COST	NET TOTAL PROGRAM COST
INSTITUTION)	AGENCY	WEEKS	COST	COST	TOTAL PROGRAM	PER STUDENT- WEEK	PER STUDENT WEEK
AM21602		4,287	\$116,332	\$ 101,571			
	Psychiatric	507	7,108	13,020			
	Pediatric	546	6,803	17,854			
	Communicable Disease	276	11,084	11,219			
BL115k2		6,450	116,130	230,695	\$ 284,991	\$50.75	\$46.70
	Psychiatric	702	7,132	10,270			
AM116o1		3,868	84,694	117,167	364,227	50.93	46.66
	Psychiatric	372	2,559	11,714			
BL216m2		6,167	110,513	188,717	216,134	50.98	46.64
	Psychiatric <sup>(;</sup>	504	13,366	2,495			
	Pediatric <sup>4</sup>	481	10,072	3,102			
	Rural	246	2,295	5,653			
				<b>5,033</b>	336,213	51.13	42.42
AM31503	Psychi <b>a</b> tric	4,167 286	71,479 9,621	142,075			
Į	Pediatric	299	5,783	6,950 8,369			
			5,785	0,309	244,277	51.40	49.70
CL216e3		5,952	112,872	203,029			
	Psychiatric	444	5,577	8,813			
	Communicable Disease	124	1,199	4,309			
BM115i1		5,611	113,172	160 470	335,799_	51.50	<u>45.33</u>
Dilligit	Psychiatric <sup>4</sup>	351	15,172	162 472 1,997			
		331	13,143	1,557	292,790	51.69	45.68
AM115a1		3,566	88,567	96,548		32.00	43.00
Í	Psychiatric ,	364	3,800	11,608			
	Rehabilitation <sup>4</sup>	56	3,039	619			
BS315g1		2,760	71,995	73,849	204,181	51.88	45.85
	Psychiatric	228	4,941	7,041			
	Pediatric	228	2,570	7,451			
CS313o1		2 20/	76 000		167,847	52.19	48.58
0331301	Psychiatric <sup>2</sup> , <sup>4</sup>	2,384 132	76,832 2,249	40,099			
	1 Sychiatric	132	2,249	326	119,506	52.44	44.48
CM115o2		4,800	116,525	146,693		,	44.40
	Psychiatric	254	3,060	4 <b>,2</b> 56		,	
	Pediatric	312	3,891	9,578	20/ 002	50.00	
AM416m3		3,420	77,298	100,093	284,003	52.83	47.24
	Psychiatric	324	7,031	13,397			
BL316m1		F 600	116 700		197,819	52.84	43.48
-47 TOM:	Psychiatric	5,628 372	116,780 1,321	194,641 4,587			
i		J/2	1,521	4,00/	317,429	52.90	49.40
CL115m2		4,973	106,239	164,028	5	- 52.50	77.40
	Psychiatric	342	2,360	4,347			
İ	Pediatric	332	4,145	10,205		l	
	0bstetric	388	9,690	19,946	200 260	F0 10	
AI415g1		5,992	146,800	177,524	320,960	53.18	48.35
·	Psychiatric	492	17,215	9,136			
i	Pediatric	720	9,540	20,232		ľ	
1	Communicable Disease	180	6,154	6,437			
CL215o3		7 970	16/ 076	207.000	393,038	53.23	49.09
-m-1903	Psychiatric	7,878 741	164,876 5,320	287,026			
1				7,729	i	i i	
I	Pediatric	741	4,594	29,025		I	

Some costs estimated for this institution.
 Institution provided partial maintenance only.

CODE NUMBER (PARENT INSTITUTION)	NURSING COURSE BY COOPERATING AGENCY	STUDENT WEEKS	GROSS EDUCATIONAL COST	GROSS NON- EDUCATIONAL COST	GROSS COST OF TOTAL PROGRAM	GROSS TOTAL PROGRAM COST PER STUDENT- WEEK	NET TOTAL PROGRAM COST PER STUDENT- WEEK
CM215m2		3,312	\$ 64,022	\$ 111,169			
Grizi Jinz	Psychiatric <sup>2</sup>	195	2,547	488		i	
	Pediatric	234	2,916	7,652			
]	Communicable Disease <sup>3</sup>	60	2,410			0:0 (0	650 12
					\$ 191,204	\$53.48	\$52.12
AL216m1		13,556	155,338	602,632			
	Psychiatric	910	9,437	12,358		ļ	
	Communicable Disease	510	4,932	17,723	802,420	53.58	50.26
		5.007	122,007	155,127	002,420	33.30	33.2.3
CM11506	Dunal tatus	5,204 220	2,191	11,332			
]	Psychiatric	220	2,171	12,552	290,657	53.59	50.56
DM115g1		3,204	85,133	93,906			
DWIIDGI	Psychiatric	276	6,616	3,618			
	Pediatric	264	3,292	8,105			
					200,670	53.60	47.00
CS21501		2,599	75,927	71,382			
İ	Psychiatric	204	2,191	2,160			i
	Pediatric	221	5,596	5,994	163,250	53.98	50.41
		0.000	170 071	299,324	103,230	33.90	30.41
BL115m1	<b>.</b> ••••	8,986 744	179,271 18,168	299,324		1	1
	Psychiatric	/44	10,100	25,030	525,801	54.04	45.65
77.016.0		6,700	145,726	223,120	323,002		
CL216e2	Psychiatriç	672	11,303	16,753			
	Outpatient <sup>4</sup>	120	3,488	582	İ		
	ducpacient		,,,,,,,		400,972	54.24	50.13
BM115k1		4,056	126,213	110,768			
DMLIJKI	Psychiatric	396	4,134	12,628			
	Pediatric	540	5,330	12,042			10.07
					271,115	54.31	49.07
DM216e1		3,249	90,769	95,841			
	Psychiatric	286	5,177	3,012	Ì		j
	Pediatric	273	5,717	7 <b>,47</b> 5	207,991	54.62	43.09
		0.000	00 767	116,030	201,991	34.02	13.03
CM213m1		3,960	98,767 12,524	18,648			
	Psychiatric	504	12,524	10,040	245,969	55.10	47.43
		5,104	105,332	206,552	2.53.55		
BL31501	Psychiatric	432	2,087	3,417			1.
	Pediatric	468	2,747	18,397			
	Communicable Disease	236	3,854	4,111			
					346,497	55.53	50.16
BL115m4		16,812	445,686	431,564		1	
(Footnote 1)	Psychiatric	1,392		47,464			
	Obstetric	1,380		71,012		55.05	E1 //6
		<u> </u>			1,093,599	55.85	51.46
BM11508		4,284		113,340	ļ		
	Psychiatric	324	10,281	14,667	258,765	56.16	51.62
		11.0/2	200 946	309,010	230,703	+ - 50.20	
AL315g1	3	11,040		203,010			
	Public Health <sup>3</sup>	429	11,613		620,469	56.20	50.93
200000		4,480	122,168	131,152	253,320		48.25
DM416m4	<del> </del>	3,042		103,961			
CM21301	Psychiatric <sup>4</sup>	221		1,848			
	Pediatric	221		5,994			
	Icaractic		}		195,712	56.70	50.63
BL315o3	+	7,590	201,666	233,924			
כטרזכתם	Psychiatric	282		7,244			
					446,789	56.76	54.81
CL316m4		5,441	112,612	204,632			
	Psychiatric	415 96		10,338 2,861			
1	Communicable Disease	90	4,753	2,001	338,233	56.82	52.97

One or more bases of allocation were modified for the parent institution.
 Some costs estimated for this institution.
 Institution did not provide non-educational functions.
 Institution provided partial maintenance only.



CODE NUMBER (FARENT	NURSING COURSE BY COOPERATING	STUDENT WEEKS	GROSS EDUCATIONAL	GROSS NON- EDUCATIONAL	GROSS COST OF TOTAL	GROSS TOTAL PROGRAM COST PER STUDENT-	NET TOTAL PROGRAM COST PER STUDENT-
INSTITUTION)	AGENCY		COST	COST	PROGRAM	WEEK	WEEK
AL115k6		10,785	\$313,884	\$ 319,826			
	Psychiatric <sup>2</sup>	639	6,607	12,300	\$ 652,617	\$57.13	\$50.39
011/11		6 104	143,316	225,160	\$ 032,017	\$37.13	\$30.33
CL114k1	Psychiatric	6,104 432	1,905	11,340			
	Pediatric	432	5,387	13,262			
	Outpatient	40	801	1,634			
	•				402,805	57.48	36.74
DM21601		4,222	110,010	142,892			
	Psychiatric	338	6,118	3,559	262,579	57.58	53.42
CM216e2	· · · · · · · · · · · · · · · · · · ·	4,352	132,484	127,138	202,377	<del>                                     </del>	
CHETOCE	Psychiatric	312	6,524	3,251		•	1
					269,397	57.76	52.33
CM31601		4,737	89,568	192,586			1
	Pediatric	351	4,524	8,919	295,597	58.10	52.39
CL115m5		7,236	171,271	257,964	273,371	70.10	† <u> </u>
OUL LOUD	Psychiatric	540	9,083	13,452			
					451,780	58.10	54.73
AM11505		3,484	92,472	123,804	1		
	Psychiatric	356	2,392	7,645	226,373	58.96	57.22
CS115o3		2,496	75,047	78,452	220,373	78.30	37.22
C211303	Psychiatric	180	2,542	4,725	İ		
	Pediatric	204	4,621	5,267			
					170,654	59.25	58.18
AM216e4		5,616	94,068	239,691	333,759	59.43	57.49
BM215m1	Day Minkey La	3,774	63,835	181,721 12,161			
	Psychiatric Pediatric	372 372	1,841 1,934	12,161			
	Communicable Disease	186	2,385	6,080			
					282,118	59.97	48.32
CS314o1		1,452	53,224	37,265		Ì	
	Psychiatric 2.3	180	4,027 667	2,842		ļ	
	Communicable Disease	30	007		98,025	60.06	58.13
CS316m1		2,368	67,757	90,103	30,000	1	
	Psychiatric	240	852	3,024		<b>\$</b>	
	Pediatric	204	1,197	8,019			1
	Communicable Disease	68	1,110	1,185	173,247	60.16	51.62
ma 15-1		4.066	109,963	137,462	1/3,24/	00.10	71.02
CM1 1501	Psychiatric	4,066 110	960	3,088			
	Layoutactic				251,473	60.21	59.08
AI41311		7,620	162,839	272,491			
	Psychiatric	120	4,406	1,458			
	Psychiatric 3	372	11,264	15,122			
	Public Health	173	22,009		489,589	60.35	26.11
CL216m5	<del> </del>	7,164	188,732	277,810	1,		
- VIII./	Psychiatric	546	7,655	14,021			
	Pediatric	546	5,192	14,949			
			101 000	115.000	508,359	61.57	57.52
BM155m1	Donald chart -	3,774	121,862	115,862 15,516		1	
	Psychiatric Obstetric	455 481	20,716 12,025	24,752			1
	Medical-surgical	858	2,154	31,900			1
					344,787	61.92	57.00
AM214m1		3,648	89,011	137,165	226,176	62.00	58.77



Some costs estimated for this institution.
 Institution did not provide non-educational functions.

CODE NUMBER (PARENT INSTITUTION)	NURSING COURSE BY COOPERATING AGENCY	STUDENT WEEKS	GROSS EDUCATIONAL COST	GROSS NON- EDUCATIONAL COST	GROSS COST OF TOTAL PROG!'AM	GROSS TOTAL PROGRAM COST PER STUDENT- WEEK	NET TOTAL PROGRAM COST PER STUDENT- WEEK
CL11502	Psychiatric Obstetric	9,395 586 580	\$250,767 14,828 5,083	\$ 349,129 8,029 28,070	\$ 655,906	\$62 <b>.</b> 11	\$5 <b>8.7</b> 6
BM115k2	Psychiatric Pediatric	3,020 145 194	83,884 3,964 1,919	111,253 3,708 4,335	209,061	62.23	58.01
BS315m1	Psychiatric	2,380 168	57,252 6,102	87,598 7,810	158,762	62.31	59.00
AL31201		12,048	277,465	473,507	751,072	62.34	59.48
BM216e3	Psychiatric	3,101 282	123,059 5,188	79,934 5,490			
	Communicable Disease	73	1,460	3,323	218,454	63.20	55.27
BL11501	Psychiatric <sup>4</sup> Pediatric Obstetric	5,012 456 432 444	151,371 6,936 5,387 11,100	186,346 7,533 13,262 22,848	404,783	63.89	55.23
BS115o2	Psychiatric Communicable Disease Public Health <sup>3</sup>	2,832 216 90 90	82,422 5,469 1,829 5,603	100,464 2,961 2,425	201,173	64.11	61.08
AM414p1	Psychiatric <sup>4</sup> Private Patient	3,687 150 100	96,467 5,508 1,179	135,685 669 5,307	244,815	64.22	64.22
BM1 1503	Psychiatric	4,224 288	94,699 6,391	179,493 10,884	291,467	64.59	61.36
	<del> </del>	23,136	495,947	1,017,468	1,513,415	65.42	53.68
AL216el AM215el	Psychiatric <sup>2</sup> , 4, 5	3,944 312	121,676	135,081 1,448	258,205		52.44
CS315o1	Psychiatric Pediatric	1,398 143 91	38,345 2,001 1,180	63,899 3,988 2,331	111,744	68.47	64.64
AM115p1	Psychiatric Communicable Disease	4,256 504 232	101,250 10,922 7,563	204,714 15,564 7,517	347,530		69.62
BI416e1	Psychiatric Communicable Disease <sup>4</sup> Orthopedic-children	5,209 272 136 136	173,862 13,026 4,620 1,610	182,497 12,387 571	388,573	70.65	57.58
AM216m5	Psychiatric Pediatric Public Health <sup>3</sup>	2,910 192 221 65	89,800 2,058 1,370 2,153	127,024 4,080 8,657	235,142		63.85
C\$115o1	Psychiatric Pedi <b>at</b> ric	2,496 156 132		108,559 4,095 3,408	197,624		68.45

<sup>2.</sup> Some costs estimated for this institution.

Institution did not provide non-educational functions.
 Institution provided partial maintenance only.
 Institution did not provide educational functions.

TABLE 5, Continued

CODE NUMBER (PARENT INSTITUTION)	NURSING COURSE BY COOPERATING AGENCY	STUDENT WEEKS	GROSS EDUCATIONAL COST	GROSS NON- EDUCATIONAL COST	GROSS COST OF TOTAL	GROSS TOTAL PROGRAM COST LER STUDENT-	
					PROGRAM	WEEK	WEEK
CS216m1		956	\$ 42,903	\$ 37,667			
	Psychiatric	216	4,752	5,402			}
	Pediatric	132	4,105	2,907			
	Obstetric	120	1,067	3,264			
	Operating Room	16	235	435			
CS115i1		3,193	26,063	115,537	\$ 102,737	\$71.34	\$61.44
0011311	Psychiatric <sup>4</sup>	416	17,955	2,367		İ	
		420	17,555	2,507	231,922	72.11	63.58
CM11401		4,800	115,233	244,674	201,522	72.11	03.30
	Psychiatric	384	9,204	5,034			
					374,145	72.17	69.59
BS416m1		2,189	79,422	80,150			
	Psychiatric	112	5,364	5,100			
P0105-1		1 000	70 - 70		170,036	73.90	49.95
BS125m1	Pediatric	1,098	70,173	37,442			
	Pediatric	130	2,375	3,337			
	Obstetric	72	898	2,210	•		1
	Medical-surgical	208 648	5,200	10,704			
	medical-surgical	048	11,249	16,634	160,222	7/ 20	70.54
BL316m3		5,750	167,633	307,087	100,222	74.32	70.54
	Psychiatric	444	5,577	8,813		İ	
	Podiatria	455	5,715	8,741			
	Communicable Disease	144	3,708	468			
					507,742	76.10	69.76
CS313e1		2,880	115,958	118,586			
	Psychiatric	234	1,823	3,150			
AS114o2		2 502	05 /51	100 0/7	239,517	76.91	71.25
A511402	Public Herlth <sup>3</sup>	2,503 58	95,451 3,491	100,947			
	Tabile net len	50	3,471		199,889	79.86	66.52
BS214o1		2,186	93,060	97,129	122,003	75.00	00.52
	Psychiatric	240	4,498	4,841		i	
	Pediatric 2	240	4,891	11,004			
	Communicable Disease	80	674	,			
					216,097	81.06	76.93
BIA13p1		11,205	411,672	500,079	911,751	81.37	81.37
AM111i1		3,724	141,879	171,341			
	Psychiatric	324	7,021	10,005			
DT 11/-1			101 700		330,246	81.58	4.21
BL114p1	Danah datuda	5,412	181,799	247,115			
	Psychiatric	348	7,778	33,871	/70 566	0.5	A
CS114o1		3,027	89,649	167,041	470,563	81.69	81.69
	Psychiatric	261	8,282	11,815			
		201	0,202	11,013	276,786	84.18	80.35
CS115g1		2,088	82,496	111,959	270,700	04.10	00.33
_	Psychiatric	240	12,852	3,850			
Į.	Pediatric	228	2,570	7,451			
	<b>i</b>				221,178	86.53	81.87



Some costs estimated for this institution.
 Institution did not provide non-educational functions.
 Institution provided partial maintenance only.

#### NATURE OF INCOME

The term income as used in this study pertains to receipts that were identified by an institution as being creditable to nursing education. Real income refers to income recorded in the hospital's account and credited to nursing education. Derived income is the result of an estimate of the value of the student's clinical experience to nursing service. Most of the participating institutions had available at the time of the study a fiscal report for the year. Each report showed a balanced account; none indicated that the institution was operating at a deficit. One could argue that since the nonprofit institution had sufficient income to cover its expenses, the cost analysis of its nursing program was, in effect, a statement of the income to the nursing program. That is, if there was no deficit for the institution as a whole, the cost of each function of the institution, including nursing education, must have been covered by income. To one who so argues, income as used in this study would imply intention of the person who pays or donates money to the institution. Taking the approximental administrator stated:

Patients' fees and third-party payments cover only a portion of our operating cost. The remainder is met by the community. The fact that we have a program to supply nurses is a big selling-point in raising funds for the hospital. Who is to say how much or how little of these funds was intended for the school of nursing?

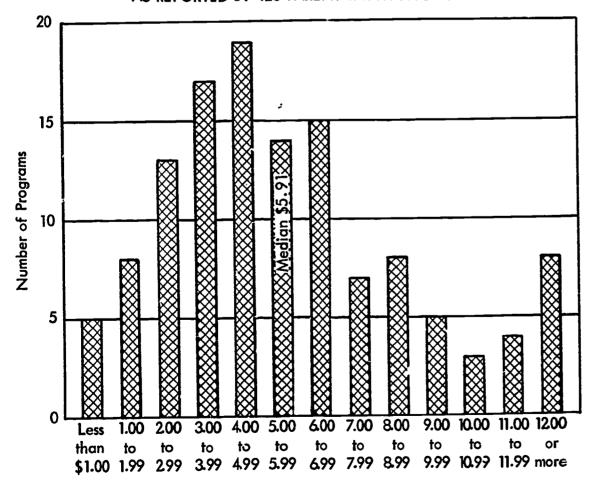
The findings presented here do not answer the question, Who paid for the diploma nursing programs? The findings pertain to diploma program income insofar as the sources of this income were known and identifiable.

#### INCOME TO PARENT INSTITUTIONS

Income reported by parent institutions as being earmarked for the diploma program in nursing was considered in two ways. First, the total income for the year was divided by the student-weeks accumulated during the year. The result was income per student-week. Second, the degree to which each parent institution met the cost of the program was computed as follows:

gross cost of program less identifiable income gross cost of program

FIGURE 14. TOTAL INCOME FOR DIPLOMA PROGRAM PER STUDENT-WEEK
AS REPORTED BY 126 PARENT INSTITUTIONS



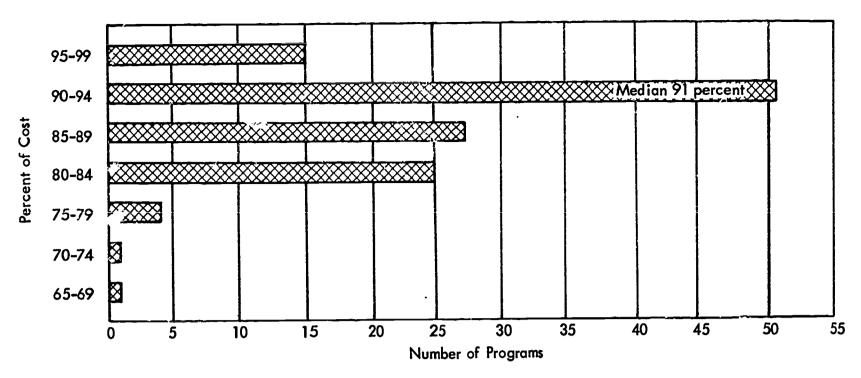
The distribution of income per student-week in all (126) parest institutions is shown in Figure 14. Figure 15 depicts the percent of the cost of the program met by each parent institution as computed by the above formula. In Figure 15 and in the statistical analyses, the data were limited to those from 119 parent institutions with comparable income reports. The data that were excluded were based upon definitions of income that differed from the definition in the study.

The percent of the gross cost of the program met by the parent institution, rather than net cost, was used as the dependent variable in the statistical analyses in this part of the study. The relatively high correlations between net cost and gross cost in parent institutions limited the possibilities for findings beyond those pertaining to gross costs.

Spearman rank correlation coeffi-



## FIGURE 15. PERCENT OF COST OF DIPLOMA PROGRAM MET BY PARENT INSTITUTION (119 Programs)



cients were computed for each institution for the net and gross costs of educational functions, noneducational functions, and educational and noneducational functions. These were as follows:

Between gross cost and net cost of educational functions .		•	•	•		•	•	•	•	•	•	•	.886
Between gross cost and net cost of noneducational functions	•	•	•	•	•	•	•	•	•	•	•	•	.870
Between gross cost and net cost of educational and naneduc	ati	one	al (	fur	ncti	ior	าร	•		•	•	•	.890

There was no evidence of any significant correlation between the gross cost of the nursing program and the portion of the gross cost met by the parent institution. The coefficient of correlation  $(r_s)$  was .013, which with this number of cases is not significantly different from zero.

## Relationship of Variables to the Portion of Cost Borne by the Parent Institution

The 119 programs with comparable records of income were ranked according to the portion of the cost of educational and non-educational functions that had to be met by the parent institution. The parent institution that met the greatest percent of the cost was ranked 119. The parent institution that met the smallest percent of the cost was ranked 1. The average rank for all of the 119 programs was 60.00. A rank above this figure indicated that the institution had to meet more of these costs than did the median institution.

Using these ranks, tests were made for significant relationships between the portion of the cost paid by the parent institution and certain independent variables. In addition to the previously cited variables, two additional variables were investigated:

(1) whether or not any income was earmarked for the noneducational functions of the program and (2) whether or not income included other than payments made by students. Both variables are based upon data included in the income reports. Of the 119 programs, 60 (50.4 percent) had some income identified as noneducational and 32 (26.9 percent) had some income from sources other than students.

The ranks were sorted by fiscal year to determine whether or not the percent of the cost of educational and noneducational functions met by the parent institution varied significantly among the subgroups. In the following data, a rank above 60.00 indicates that the portion of the cost met by the parent institutions in the subgroup was greater than the portion met by the median institution.

	Number of Cases	Rank of Subgroup as to Portion of Cost Borne by Parent Institution					
Subgroup by Fiscal Year	in Subgroup	Average Rank	Average Rank Minus 60.00				
1959	28	59.43	-0.57				
960	41	56.07	-3.93				
1961 or 1962	50	63.54	3.54				

 $<sup>^</sup>st$ The average rank of all (119) cases .



There was no significant difference among the fiscal year subgroups in the portion of the cost of the program borne by the parent institution. The Kruskal-Wallis one-way analysis of variance applied to the data on the previous page resulted in a chi-square of 1.07 at 2 degrees of freedom (p > .50).

Significant differences occurred when the ranks were sorted into subgroups by type of control of the parent institution. Data pertaining to this variable were as follows:

	Number of Cases	Rank of Subgroup as to Portion of Cost Borne by Parent Institution				
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 60.00*			
blic (governmental)	16	77.63				
vate secular	60	66.32	6.32			
vate religious	43	44.63	-15.37			

The average rank of all (119) cases.

The result of the Kruskal-Wallis one-way analysis of variance indicated that differences among all subgroups were significant at the .001 level of probability (chi-square = 14.73 at 2 degrees of freedom).

When considered separately, each of two subgroups differed significantly from all other cases considered as one subgroup.

Subgroup by Type of Control	Standard Score ( <u>z</u> )	Probability
Public (governmental)	2.20	<.03
Private religious	3.66	<.0004

There was no significant relationship between enrollment size and percent of cost met by the parent institution. Data pertaining to this relationship were as follows:

	Number of Cases	Rank of Subgroup as to Portion of Cost Borne by Parent Institution					
Subgroup by Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 60.00*				
mall	23	70.04	10.04				
edium	50	57.16	-2.84				
arge	46	58.07	-1.93				

The average rank of all (119) cases.

The result of the Kruskal-Wallis one-way analysis of variance applied to these data was a chi-square of 2.43 at 2 degrees of freedom (p > .20).

Considered separately, no enrollment-size subgroup differed significantly from all other cases considered as one subgroup with respect to portion of cost borne by the parent institution.

When the ranks were sorted according to NLN region, significant differences were apparent. Data resulting from this sorting were as follows:

	Number of Cases	Rank of Subgroup as to Portion of Cost Borne by Parent Institution	
Subgroup by NLN Region	in Subgroup	Average Rank	Average Rank Minus 60.00*
Region I	43	.44	3.44
Region II	37	50.95	-9.05
Region III	32	73.94	13.94
Region IV	7	23.00	-37.00

<sup>\*</sup>The average rank of all (119) cases.

The average rank of Region IV (the West) was 50.94 ranks lower than the average rank of Region III (the South) in percent of cost borne by parent institution. The results of the Kruskal-Wallis one-way analysis of variance indicated that there was a significant variance among all regional subgroups (chi-square = 16.25 at 3 degrees of freedom; p < .01).

When considered separately, each of two subgroups was found to differ significantly from all other cases considered as one subgroup.

Subgroup by NLN Region	Standard Score ( <u>z</u> )	Probability
Region III	2.93	<.004
Region IV	ø 2.67	300.>

The ranks were sorted into two subgroups according to whether or not some income was earmarked for noneducational functions. The data pertaining to this variable were as follows:

	Number of Cases	Rank of Subgroup as to Portion of Cost Borne by Parent Institution	
Subgroup	in Subgroup	Average Rank	Average Rank Minus 60.00*
ome noneducational income	60	47.02	-12.98
No noneducational income	59	73.02	13.02

<sup>\*</sup>The average rank of all (119) cases.

A Mann-Whitney <u>U</u> test applied to these data resulted in a standard score (<u>z</u>) of 3.82, which was significant at the .0002 level of probability.

The ranks were sorted into two subgroups according to whether or not students constituted the only source of income. Data from this operation were as follows:

	Number of Cases	Rank of Subgroup as to Portion of Cost Borne by Parent Institution	
Subgroup	in Subgroup	Average Rank	Average Rank Minus 60.00*
Students the only source of income	87	65.84	5.84
Students not the only source of income	32	44.13	-15.84

<sup>\*</sup>The average rank of all (119) cases.

The Mann-Whitney U test applied to these data resulted in a standard score (z) of 3.04, which was significant at the .003 level of probability.

Certain variables were significantly related to the portion of the cost of educational and noneducational functions that was borne by the parent institution. Parent institutions in the South (NLN Region III) tended to bear a higher portion of this cost than did those in other areas. Parent institutions in the West (NLN Region IV) tended to bear a lesser portion of the cost than did those in other areas. Parent institutions under public control bore a higher portion of the cost than did those under private control. Parent institutions under the control of a religious organization bore a lesser portion of the cost than did those under any other type of control. Parent institutions that identified part of the income as defraying the cost of noneducational functions bore a lesser portion of the cost than did institutions that did not make this identification. Parent institutions in which the source of a diploma program income was limited to students bore a relatively greater portion of the cost than did those with other sources of income.

### INCOME DESIGNATED FOR THE TOTAL PROGRAM

Income earmarked for the total program included, in addition to the foregoing, income designated for nursing education in each cooperating agency. Cooperating agencies and parent institutions differed significantly from one another in the amount of income per student-week. This difference is apparent in the following table.



	Parent Ir	Parent Institutions		g Agencies
Income per Student-week	Number	Percent	Number	Percent
10.00 and over	15	11.9	7	5.9
55.00 to \$9.99	49	38.9	1	8.0
51.00 to \$4.99	57	45.2	11	9.3
ess than \$1.00	5	4.0	100	84.0
Total	126	100.0	119	100.0

Four of the 5 parent institutions reporting income of less than \$1.00 per student-week were programs whose data were omitted in the statistical analyses. Of the 100 cooperating agencies reporting income of less than \$1.00 per student-week, 82 were unable to identify income from any source that was intended for nursing education.

As shown in the following table, similar differences occurred when parent institutions and cooperating agencies were compared as to the portion of cost of nursing education that was covered by income.

Percent of Cost Covered by Institution or Agency	Number of Parent Institutions	Number of Cooperating Agencies
Aore than 95	15	106
0-94.9	51	3
35-89.9	27	3
30-84.9	20	0
75-79.9	4	5
Less than 75	2	2
Total	119	119

The lack of any appreciable income to most cooperating agencies indicated that results of any statistical analyses of net costs would have been repetitive of analyses already applied to gross costs. Eighty-two cooperating agencies met 100 percent of the cost of nursing courses for diploma students and thus had identical ranks. Therefore, analyses of ranks based on such percentages were contraindicated.

Findings from statistical analyses of the relationship between the dependent variable percent of total program cost met by all agencies and the independent variables are not reported here. They are identical with applicable findings reported earlier in this section under the subhead Relationship of Variables to the Portion of Cost Borne by the Parent Institution. The Spearman rank correlation coefficient for the programs ranked by percent of cost met by the parent institution and percent of cost met by all institutions offering parts of the program was an rs of .982.

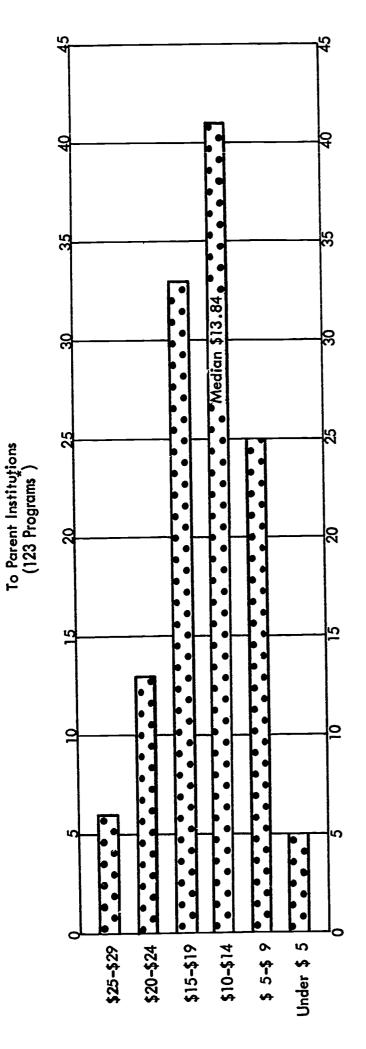
### DERIVED INCOME: PROFESSIONAL ABILITY-USABILITY VALUES

The foregoing considerations of income were limited to real income—real in the sense that it could be substantiated by fiscal records of money that had changed hands. Some of the data collected for the study pertained to derived income—derived in the sense that it was "gathered by inference" (Webster) or was estimated. These data were used to derive a unit that was the value of the students' clinical experiences to the institution per student—week.

Figure 16 shows the distribution of the value of the students' experiences (1) to the parent institution and (2) to all institutions participating in the program.

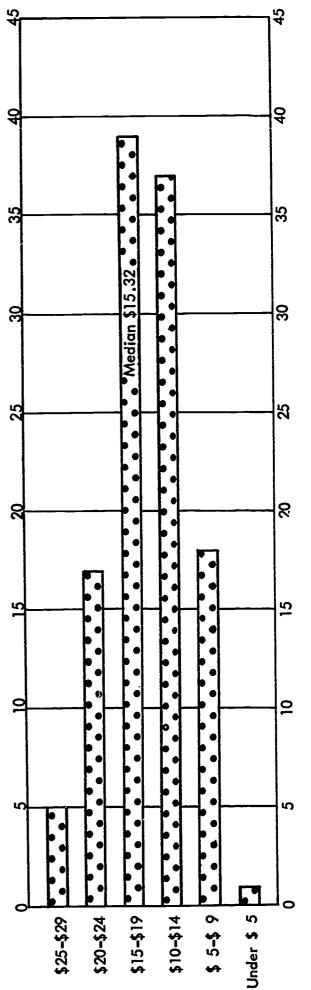
The value per student-week obtained by the professional ability-usability method was subjected to the same statistical tests that were applied to the gross cost data. Each parent institution was ranked as to value per student-week, so that the institution

FIGURE 16. ESTIMATED WEEKLY VALUE OF STUDENTS' CLINICAL EXPERIENCES



Number of Programs





Number of Programs

\*Information incomplete for 3 programs.
\*\*Information incomplete for 9 programs



in which students had least value was ranked 1 and the institution in which students had greatest value was ranked 123 (3 of the 126 programs did not participate in this part of the study). The average rank for all institutions was 62.00. For purposes of comparison, this over-all average was subtracted from the average rank of individual subgroups. When the result was a positive number, the indication was that the value was greater than the over-all average. When the result was a negative number, the indication was that the value was less than the average.

Such comparisons appear in the following data pertaining to the value of students' contributions by geographic regional subgroups.

C. L L. NUND Davis	Number of Cases	Rank of Subgroup as to Professional Ability-Usability Value	
Subgroup by NLN Region	in Subgroup	Average Rank	Average Rank Minus 62.00*
Region I	46	71.13	9.13
Region II	35	66.71	4.71
Region III	32	44.50	-17.50
Region IV	10	59.50	-2.50

The average rank of all (123) cases.

The last column of the table indicates that in Region I (the North Atlantic) the professional ability-usability value averaged 9.13 ranks above the over-all average and that in Region III (the South) the value of students averaged 17.50 ranks below the over-all average. Differences among the subgroups, as determined by a Kruskal-Wallis one-way analysis of variance, were significant at the .01 level of probability (chi-square = 11.39 at 3 degrees of freedom).

When each regional subgroup was compared with all other cases considered as one subgroup, two subgroups differed significantly from all others. The pertinent data were as follows:

Subgroup by NLN Region	Standard Score ( <u>z</u> )	Probability
Region I	2.20	<.03
Region III	3 <b>.2</b> 3	<.002

There was no evidence of significant differences when the ranks were sorted into subgroups according to the type of control. Data pertaining to this comparison were as follows:

	Number of Cases	Rank of Subgroup as to Professional Ability-Usability Value	
Subgroup by Type of Control	in Subgroup	Average Rank	Average Rank Minus 62.00*
Federal, state, and county government	10	40.90	-21.10
City government	11	63.45	1.45
Private secular	60	66.75	4.75
Private religious	42	59.68	-2.14

<sup>\*</sup>The average rank of all (123) cases.

The average rank of the first subgroup, institutions under the control of federal, state, and county governments, was 21.10 ranks lower than the over-all average. When this subgroup was compared with all other cases considered as one subgroup, the resulting standard score (z) was 1.95, which was significant at the .05 level of probability. No other type-of-control subgroup differed from all other cases at this level of significance.

When the ranks were sorted according to enrollment size, the differences among all subgroups were significant. Data based on this sorting were as follows:



	Number of Cases	Rank of Subgroup as to Professional Ability-Usability Value	
Subgroup by Enrollment Size	in Subgroup	Average Rank	Average Rank Minus 62.00*
Small	23	43.61	-18.39
<b>Medium</b>	53	64.91	2.91
Large	47	67 .72	5.72

<sup>\*</sup>The average rank of all (123) cases.

The Kruskal-Wallis one-way analysis of variance applied to these data resulted in a chi-square of 7.68 at 2 degrees of free-dom, which was significant at the .05 level of probability.

Further testing indicated that the subgroup small enrollment size differed significantly from all other cases considered as one subgroup (standard score (z) = 2.75; p < .007).

The following data did not reveal a significant relationship between the value of students' learning experiences per student-week and the number of cooperating agencies offering parts of the program.

Subgroup by Number of	Number of Cases	Rank of Subgroup as to Professional Ability-Usability Value	
Cooperating Agencies	in Subgroup	Average Rank	Average Rank Minus 62.00
None	9	72.44	10.44
ne	47	67.17	5.17
<b>vo</b>	44	55.64	-5.36
hree or more	23	59.62	-2.38

<sup>\*</sup>The average rank of all (123) cases.

The result of the Kruskal-Wallis one-way analysis of variance performed here was a chi-square of 3.01 at 3 degrees of freedom (p > .30). No significant relationships were apparent when each subgroup was compared with all other cases considered as one subgroup.

The ranks based upon professional ability-usability values were examined for differences among fiscal year subgroups.

The general duty nurse's median salary increased 8 percent between February, 1959, and June, 1961. The base salary used in the professional ability-usability method—the salary that each hospital paid to the beginning general duty nurse—increased similarly during the study period. Assuming that all other variables remained constant, the value of the students' clinical experiences would have increased during this period. However, the differences in professional ability-usability values during the study period were in a direction opposite from that which would have been predicted from salary changes alone, as the following data show.

	Number of Cases	Rank of Subgroup as to Professional Ability—Usability Value	
Subgroup by Fiscal Year	in Subgroup	Average Rank	Average Rank Minus 62.00*
1959	29	78.00	16.00
960	43	62.05	0.05
1961 or 1962	51	52.36	-9.14

<sup>\*</sup>The average rank of all (123) cases.

The result of the Kruskal-Wallis one-way analysis of variance applied to these data was a chi-square of 9.19 at 2 degrees of freedom, which was significant at the .02 level of probability.

<sup>1.</sup> American Nurses' Association. Facts About Nursing, A Statistical Summary. 1962-1963 ed. New York, the Association, 1963, p. 133.



When each fiscal-year subgroup was compared with all other cases considered as one subgroup, it was found that the value per student-week was significantly greater for the 1959 subgroup and significantly less for the 1961-1962 subgroup. The differences were as follows:

Subgroup by Fiscal Year	Standard Score (z)	Probability
1959	2.76	< .006
1961 or 1962	2.39	< .02

Statistical analyses of the professional ability-usability estimates for each of the 123 participating diploma programs showed significant relationships between certain variables and the nursing service value of the students' clinical experiences. According to the findings, these experiences were: (1) more valuable in NLN Region I than in all other regions and less valuable in Region III; (2) less valuable in institutions under the control of federal, state, and county governments than in institutions under other types of control; (3) less valuable in programs with less than 70 students than in programs with 70 or more students; (4) more valuable in programs studied in 1959 than in programs studied later and less valuable in programs studied in 1961–1962 than in programs studied earlier.

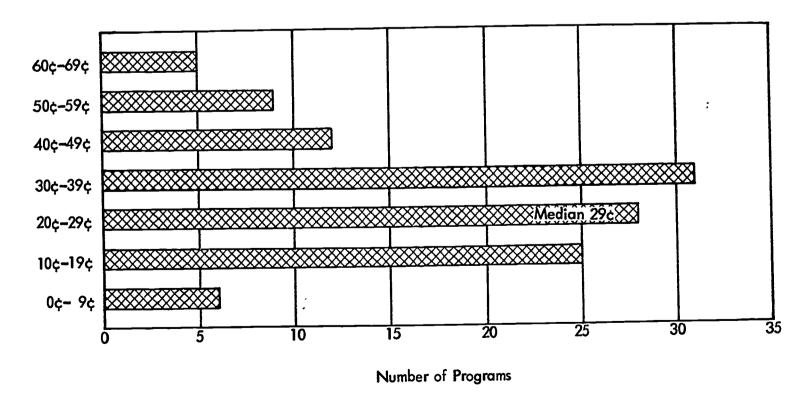
There was no significant evidence that the nursing service value of the students' clinical experience was related to the status of the programs with respect to NLN accreditation. Of the 22 programs that lacked accreditation, 16 had values that were below the median for all 123 programs. The average rank for programs lacking accreditation was 50.95, or 11.05 ranks below the overall average. The result of a Mann-Whitney  $\underline{U}$  test to determine whether or not this difference was significant was a standard score (z) of 1.60 (p > .10).

As explained in a previous section, the dollar values computed by cost analysis and dollar values derived by the professional ability-usability method are not held to be comparable. No mathematical computations involving combinations of these values were done. The table at the end of this section lists net costs and professional ability-usability values. The net costs were computed by subtracting real income and not the estimated value of students' clinical experiences. However, certain operations were performed that did not require equating dollar values of real income with those of derived income.

The result of the first operation is shown in Figure 17. The figure plots the distribution of 116 programs according to the estimated weekly value of students' clinical experience per weekly net dollar of cost to the parent institution. The student in the typical (median) program had an estimated value of 29 cents for every dollar of net cost to the parent institution.

FIGURE 17. ESTIMATED WEEKLY VALUE OF STUDENT'S CLINICAL EXPERIENCE PER DOLLAR OF NET COST OF EDUCATIONAL AND NONEDUCATIONAL FUNCTIONS TO PARENT INSTITUTIONS

(116 Programs)



<sup>1.</sup> Of the 126 participating programs, 116 had both comparable records of income and data pertaining to the value of students' clinical experiences.



The second operation used the ranks of parent institutions based upon net cost per student-week and the professional ability-usability value per student-week. A coefficient of correlation was determined in such a way that a positive correlation would indicate that the greater the net cost, the greater the value of the students' clinical experiences. The result,  $r_s = -.140$ , while negative, did not differ significantly from a zero correlation between these two ranks.

Table 6 shows the data used in the two operations—the net cost of educational and noneducational functions and the estimated value of students' clinical experiences per student-week—for each of the 116 programs.

TABLE 6. NET COSTS AND DERIVED INCOME PER STUDENT-WEEK OF DIPLOMA PROGRAM

BM31551 \$22.42 \$22.42 \$3.35 \$3.73 5.1 C1.31661 42.48 42.85 3.73 5.2 C1.31564 32.28 34.51 4.97 5.5 CM11461 72.19 69.55 5.12 6.6 CS31361 43.61 44.48 6.42 6.8 BS315g1 48.82 48.83 6.19 7. 7. 8 BL316g1 40.06 38.49 7.36 7. 12.2 7. 14.5 1.5 CL316m1 57.10 51.62 4.72 7. 14.5 1.5 CL316m1 57.10 51.62 4.72 7. 14.5 1.5 CL316m1 47.73 49.95 7. 23 8.8 BS11562 62.21 61.08 7.57 8.8 BL416e1 55.97 57.59 6.66 8.8 BL413p1 81.37 81.37 81.37 8.97 8.8 PT 8.8 BL413p1 81.37 81.37 8.97 8.8 PT 8.8 BL413p1 48.28 47.00 6.46 8.8 BL413p1 48.28 47.00 6.46 9.5 CS314o1 60.77 58.13 7.43 9.7 CS315o1 68.66 64.64 6.53 9.7 CM216m6 24.07 27.10 7.69 9.7 CM215m6 25.69 50.89 8.86 8.8 6.8 CM215m2 52.69 52.44 9.49 9.9 CL216e2 50.89 50.13 8.46 10.0 CM215m2 53.59 52.12 7.85 10.0 CM215m2 53.59 52.12 7.85 10.0 CM215m2 53.59 52.12 7.85 10.0 CM215m2 53.59 52.12 7.85 10.0 CM215m4 28.48 29.85 9.94 10.0 CS314o1 63.52 7.0 CM216m4 28.48 29.85 9.94 10.0 CS313b1 42.29 49.97 49.99 CL216e2 50.89 50.13 8.46 10.0 CS313b1 42.29 53.59 52.12 7.85 10.0 CM216m4 28.48 29.85 9.94 10.0 CS313b1 42.29 49.99 50.13 8.46 10.0 CS313b1 52.69 53.59 52.12 7.85 10.0 CM216m4 28.48 29.85 9.94 10.0 CS313b1 42.29 43.40 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.85 10.10 10.75 10.10 10.58 11.78 11.79 11.10 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20	Code Number of Parent	Net Cost per S	tudent-Week	Derived Income per Student-Week	
C1316e1 42.48 42.85 3.73 5. C1316e1 42.48 42.85 3.73 5. C1315e4 32.28 34.51 4.97 5. CMI14e1 72.19 69.59 5.112 6. CS113151 43.61 44.48 6.42 6. BS315g1 48.82 48.58 6.19 7. AMIIIII 0 4.21 7.46 7. BL316g1 40.06 38.49 7.36 7. BL316g1 40.06 38.49 7.36 7. BS416m1 47.73 49.95 7.23 8. BS115e2 62.21 61.08 7.57 8. BL416e1 55.97 57.58 6.66 8. BL413p1 81.37 81.37 8.97 8.97 8. BL413p1 81.37 81.37 8.97 8.97 8. CM115o1 59.69 59.08 8.86 8. DM115g1 48.28 47.00 6.46 6.53 9. CM316m6 24.07 58.13 7.43 9. CS315e1 68.66 64.64 6.53 9. CM216m6 24.07 27.10 7.69 9. AM215e1 52.69 52.44 9.49 9. CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 29.85 9.94 10 CM215m4 28.48 59.48 11.93 1.18 BM115c1 55.53 50.16 9.06 11 BS214c1 83.32 76.93 5.44 1.99 9.90 11 BM115k2 60.06 58.01 9.90 11 BM115k2 60.06 58.01 9.90 11 BM115k2 60.06 58.01 9.90 11 BM115k2 60.06 58.01 9.90 11 BM115k3 44.23 45.68 10.83 12 CM316m4 48.25 48.25 12.27 10.35 12 CM316m4 48.25 48.25 12.27 10.35 12 CM316m4 54.31 52.97 10.35 12 CM316m4 54.31 52.97 10.35 12 CM316m4 54.31 52.97 10.35 12 CM316m1 52.25 50.60 11.78 13.63 12 CM316m3 29.26 29.76 12.27 13 BM115c6 50.10 50.56 12.07 13 BM115c6 50.10 50.56 12.07 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13 BM115c7 46.30 45.97 12.96 13	Institution	To Parent Institution	For Total Program	To Parent Institution	For Total Program
CL31601 42.48 42.85 3.73 5. CL31504 32.28 34.51 4.77 5. CM11401 72.19 69.59 5.12 6. CM11401 72.19 69.59 5.12 6. CS31301 43.61 44.48 6.42 6. BS315g1 48.82 48.58 6.19 7. AM11111* 0 4.21 7.46 7. BL316g1 40.06 38.49 7.36 7. BL316g1 40.06 38.49 7.36 7. BS311502 62.21 61.08 7.57 8. BS11502 62.21 61.08 7.57 8. BL416e1 55.97 57.58 6.66 8. BL413p1 81.37 81.37 8.97 8.97 8. BL413p1 81.37 81.37 8.97 8.97 8. CM11501 59.69 59.08 8.86 8. DM115g1 48.28 47.00 6.46 9. CS314o1 60.77 58.13 7.43 9. CS315o1 68.66 64.64 6.53 9. CM216m6 24.07 27.10 7.69 9. AM215m2 53.59 52.44 9.49 9. CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 CM216m4 28.48 29.85 9.94 10 CS313e1 83.52 76.93 5.44 11.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.37 1.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 11.38 1	RM31501	\$22,42	\$22.42	\$ 3.35	\$ 3.35
CL31504 32.28 34.51 4.97 5.CM11401 72.19 69.59 5.112 6.CM31301 43.61 44.48 6.42 6.63 6.53 6.19 7.746 7.00 4.21 7.46 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.0		•	-		5.05
CMI14c1 72.19 69.59 5.12 6. CS313c1 43.61 44.48 6.42 6. SS315c1 48.82 48.58 6.19 7. AM11f11 0 4.21 7.46 7. BL316g1 40.06 38.49 7.36 7. BS416m1 47.73 49.95 7.23 8. SS115c2 62.21 61.08 7.57 8. BL416c1 55.97 57.58 6.66 8. BL413c1 81.37 81.37 8.97 8. BL416c1 55.97 57.58 6.66 8. BL413c1 81.37 81.37 8.97 8. BL416c1 55.97 85.06 8. BL413c1 60.077 58.13 7.43 9.95 7.23 8. CM115c1 68.66 64.64 6.53 9. CS314c1 60.77 58.13 7.43 9.95 7.43 9.95 7.23 7. CM115c1 68.66 64.64 65.33 9.95 7. CM216m6 22.4.07 27.10 7.69 9. AM215c1 52.69 52.44 9.49 9.95 7.60 7.60 7.60 7.60 7.60 7.60 7.60 7.60	P. Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Car	-		•	<b>5.7</b> 1
CS313o1 43.61 44.48 6.42 6. BS315g1 48.82 48.59 6.19 7. AM111i1* 0 4.21 7.46 7. BL316g1 40.06 38.49 7.36 7. BL316g1 57.10 51.62 4.72 7. BS416m1 47.73 49.95 7.23 8. BS115o2 62.21 61.08 7.57 8. BL416e1 55.97 57.58 6.66 8. BL413p1 81.37 81.37 8.97 8.97 8. BL416e1 55.97 57.58 6.66 8. BL413p1 81.37 81.37 8.97 8.97 8. CM115o1 59.69 59.08 8.86 8. DM115g1 48.28 47.00 6.46 9. CS314o1 60.77 58.13 7.43 9. CS314o1 60.77 58.13 7.43 9. CS314o1 60.77 58.13 7.43 9. CM216m6 24.07 27.10 7.69 9. CM216m6 24.07 27.10 7.69 9. CM216m6 24.07 27.10 7.69 9. CM216m4 28.48 29.85 9.13 8.46 10. CM215n2 53.59 52.12 7.85 10. CM216m4 28.48 29.85 9.94 10. CS313e1 75.35 71.25 9.11 10. BL315o1 55.53 50.16 9.06 11. BS214o1 83.52 76.93 5.44 11.93 11.85 11.93 11.85 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 11.93 1	1			h l	6.13
BS315g		-			6.42
ANITITIT 0 4.21 7.46 7.  BL316g1 40.06 38.49 7.36 7.  BL316g1 40.06 38.49 7.36 7.  CS316m1 57.10 51.62 4.72 7.  BS416m1 47.73 49.95 7.23 8.  BS11502 62.21 61.08 7.57 8.  BL416e1 55.97 57.58 6.66 8.  BL413p1 81.37 81.37 8.97 8.  CM11501 59.69 59.08 8.86 8.  DM115g1 48.28 47.00 6.46 9.  CS31401 60.77 58.13 7.43 9.  CS31401 60.77 58.13 7.43 9.  CS31501 68.66 64.64 6.53 9.  CM216m6 24.07 27.10 7.69 9.  AM215e1 52.69 52.44 9.49 9.9  AM215e1 52.69 52.14 9.49 9.9  CM216m2 28.48 29.85 9.94 10.  CS31301 75.35 71.25 9.11 10.75 10.  BL31501 55.53 50.16 9.06 11.  BL31501 55.53 50.16 9.06 11.  BL31501 55.53 50.16 9.06 11.  BL31501 55.53 50.16 9.06 11.  BM115k2 60.06 58.01 9.90 11.  BM115k2 60.06 58.01 9.90 11.  BM115k1 44.23 45.68 10.83 12.  CL316m4 54.31 52.97 1.90 11.93 11.  BM115k1 44.23 45.68 10.83 12.  CM316m1 48.25 43.31 52.97 10.55 12.  CM316m1 48.25 43.31 52.97 10.55 12.  CM316m1 53.47 52.39 12.65 12.  CM316m1 53.47 52.39 12.65 12.  CM316m1 53.47 52.39 12.65 12.  CM316m1 53.47 52.39 12.65 12.  CM316m3 29.26 29.76 12.79 13.  BM115p1 43.21 43.46 14.25 12.  AM315p3 29.26 29.76 12.79 13.  BM115p1 43.21 43.46 14.25 12.  AM315p3 29.26 29.76 12.79 13.  BM115p1 71.89 69.62 16.11 13.63 13.			_		7.01
BL316g1	AAA111:1*			1	7.46
St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.   St.	RI 216-1		9	•	7.73
SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI   SSI				T .	7.81
BS115o2 62.21 61.08 7.57 8. BL416e1 55.97 57.58 6.666 8. BL413p1 81.37 81.37 8.97 8. BL413p1 81.33 81.37 8.97 8. BL413p1 81.33 81.37 8.97 8. BL415o1 59.69 59.08 8.86 8. DM115g1 48.28 47.00 6.46 9. CS314o1 60.77 58.13 7.43 9. CS315o1 68.66 64.64 6.53 9. CM216m6 24.07 27.10 7.69 9. AM215e1 52.69 52.44 9.49 9. CL216e2 50.89 50.13 8.46 10. CM215m2 53.59 52.12 7.85 10. CM216m4 28.48 29.85 9.94 10. CS313e1 75.35 71.25 9.11 10. AL115k5 42.97 44.40 10.75 10. BL315o1 83.52 76.93 5.44 11. BM115k2 60.06 58.01 9.06 11. BS214o1 83.52 76.93 5.44 11. BM115k2 60.06 58.01 9.90 11. BM115k1 44.23 45.68 10.83 12. CL316m4 54.31 52.97 10.35 12. CM316m4 54.31 52.97 10.35 12. CM315o1 55.53 12. CM315o1 55.53 12. CM315o1 55.51 36.12 11.70 12. CM315o1 53.47 52.39 12.65 12. CM315o1 53.47 52.39 12.65 12. CM315o1 53.47 52.39 12.65 12. CM315o1 53.47 52.39 12.65 12. CM315o1 52.79 50.63 9.72 12. BL115e1 43.21 43.46 14.25 12. AM315o3 49.31 49.70 10.58 12. CM315o1 52.79 50.63 9.72 12. BL115e1 43.21 43.46 14.25 12. AM315o3 49.31 49.70 10.58 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 12. CM316o1 53.47 52.39 12.65 13. CM316o1 53.47 52.39 12.65 13. CM316o1 53.47 52.39 12.65 13. CM316o1 53.47 52.39 12.65 13. CM316o1 53.47 52.39 12.65 13. C				- I	8.14
BL416e1 55.97 57.58 6.66 8.8 BL413p1 81.37 81.37 8.97 89. CM115o1 59.69 59.08 8.86 89. DM115g1 48.28 47.00 6.46 99. CS314o1 60.77 58.13 7.43 99. CS315o1 68.66 64.64 6.53 99. CM216m6 24.07 27.10 7.69 99. AM215e1 52.69 52.44 9.49 99. CL216e2 50.89 50.13 8.46 10. CM215m2 53.59 52.12 7.85 10. CM216m4 28.48 29.85 9.94 10. CS313e1 75.35 71.25 9.11 10. AL115k5 42.97 44.40 10.75 10. BL315o1 55.53 50.16 9.06 11. BS214o1 83.52 76.93 5.44 11. BM115k2 60.06 58.01 9.90 11. BM115k2 60.06 58.01 9.90 11. BM115k2 60.06 58.01 9.90 11. BM115k1 44.23 45.68 10.83 12. CL316m4 54.31 52.97 10.35 12. CM316m4 48.25 48.25 12.22 12. AM315o3 49.31 49.70 10.58 12. CM215o1 53.47 52.39 12.65 12. CM215o1 53.47 52.39 12.65 12. CM215o1 55.51 36.12 11.70 12. CM316o1 53.47 52.39 12.65 12. CM215o1 55.51 36.12 11.70 12. CM316o1 53.47 52.39 12.65 12. CM215o1 55.51 36.12 11.70 12. CM316o1 53.47 52.39 12.65 12. CM215o1 55.51 36.12 11.70 12. CM316o1 53.47 52.39 12.65 12. CM215o1 55.57 50.63 9.72 12. BL115e1 43.21 43.46 14.25 12. AM315o3 29.26 29.76 12.79 13. CM216m3 29.26 29.76 12.79 13. CM115o6 50.10 50.56 12.07 13. BM216m2 42.60 41.67 12.27 13. BM115p1 71.89 69.62 16.11 1.78 BM115p1 71.89 69.62 16.11 1.363 BM115p1 71.89 69.62 16.11 13.63 BM115p1 71.89 69.62 16.11 13.63				1	8.62
BL413p1 81.37 81.37 8.97 8. CM115o1 59.69 59.08 8.86 8. DM115g1 48.28 47.00 6.46 9 CS314o1 60.77 58.13 7.43 9 CS315o1 68.66 64.64 6.53 9 CM216m6 24.07 27.10 7.69 9 CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 83.52 76.93 5.44 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 BM115k1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12  LM416m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 53.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM215o1 53.51 36.12 11.70 12 CM315o1 53.47 52.39 12.65 12 CM215o1 55.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM215o1 55.57 50.60 9.72 12 BL115e1 43.21 43.46 14.25 12 AM315o3 49.31 49.70 10.58 12 CM215o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 CM115o6 50.10 50.56 12.07 13 BM216m2 42.60 41.67 12.27 13 CM216e2 53.87 52.33 12.72 13 CM216e2 53.87 52.33 12.72 BM115o7 46.30 45.97 12.96 13 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97 12.96 BM115o7 46.30 45.97				1	8.70
CM115c1 59.69 59.08 8.86 8  DM115g1 48.28 47.00 6.46 9  CS314c1 60.77 58.13 7.43 9  CS315c1 68.66 64.64 6.53 9  CM216m6 24.07 27.10 7.69 9  AM215c1 52.69 52.44 9.49 9  CL216c2 50.89 50.13 8.46 10  CM215m2 53.59 52.12 7.85 10  CM216m4 28.48 29.85 9.94 10  CS313c1 75.35 71.25 9.11 10  AL115k5 42.97 44.40 10.75 10  BL315c1 55.53 50.16 9.06 11  BS214c1 83.52 76.93 5.44 11  BM115t2 60.06 58.01 9.90 11  AL312c1 59.48 59.48 11.93 11  BM115t1 44.23 45.68 10.83 12  CL316m4 54.31 52.97 10.35 12  LM416m4 48.25 48.25 12.22 12  AM315c3 49.31 49.70 10.58 12  CM213c1 53.47 52.39 12.65 12  CM213c1 53.47 52.39 12.65 12  CM213c1 53.47 52.39 12.65 12  CM213c1 59.48 11.70 10.58 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM215c1 35.51 36.12 11.70 12  CM316c1 54.40 41.25 12  AM216m5 67.49 63.85 11.78 13  AM216m5 67.49 63.85 11.78 13  AM216m5 67.49 63.85 11.78 13  AM216m2 42.60 41.67 12.27 13  AM216m2 42.60 41.67 12.27 13  AM216m2 42.60 41.67 12.27 13  AM315c1 44.30 45.90 45.97 12.96 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM316c1 41.73 40.14 13.63			1		8.97
DM115g1 48.28 47.00 6.46 9 CS314o1 60.77 58.13 7.43 9 CS315o1 68.66 64.64 65.3 9 CM216m6 24.07 27.10 7.69 9 AM215e1 52.69 52.44 9.49 9 CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 83.52 76.93 5.44 11 BM115k1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 BM115k1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 CM316m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 53.47 52.39 12.65 12 CM215o1 53.47 52.39 12.65 12 CM215o1 53.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM215o1 55.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM315o3 49.31 49.70 10.58 12 CM215o1 55.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 CM215o1 50.10 50.56 12.07 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 52.25 50.26 13.54 13 CM216e2 53.87 52.33 12.72 13 BM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 BM115p1 71.89 69.62 16.11 13.63	•		E .	•	8.99
CS314o1 60.77 58.13 7.43 9 CS315o1 68.66 64.64 6.53 9 CM216m6 24.07 27.10 7.69 9 AM215e1 52.69 52.44 9.49 9 CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 CM316m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM315o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 13 CM316o2 53.87 52.33 12.72 13 CM316o2 53.87 52.33 12.72 13 CM316o2 53.87 52.33 12.72 13 CM316o1 41.73 40.14 13.63				1	9.10
CS315o1 68.66 64.64 6.53 9 CM216m6 24.07 27.10 7.69 9 AM215e1 52.69 52.44 9.49 9 CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 CL316m4 54.31 52.97 10.35 12 CL316m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 CM115o6 50.10 50.56 12.07 13 BM216m2 42.60 41.67 12.27 13 AL216m1 52.25 50.26 13.54 13 CM216m2 42.60 41.67 12.27 13 AL216m1 52.25 50.26 13.54 13 CM216m2 42.60 41.67 12.27 13 CM216m2 53.87 52.33 12.72 13 BM115p1 71.89 69.62 16.11 13.63	•		1	•	9.24
CM216m6 24.07 27.10 7.69 9  AM215e1 52.69 52.44 9.49 9  CL216e2 50.89 50.13 8.46 10  CM215m2 53.59 52.12 7.85 10  CM216m4 28.48 29.85 9.94 10  CS313e1 75.35 71.25 9.11 10  AL115k5 42.97 44.40 10.75 10  BL315o1 55.53 50.16 9.06 11  BS214o1 83.52 76.93 5.44 11  BM115k2 60.06 58.01 9.90 11  AL312o1 59.48 59.48 11.93 11  BM11511 44.23 45.68 10.83 12  CL316m4 54.31 52.97 10.35 12  LM416m4 48.25 48.25 12.22 12  AM315o3 49.31 49.70 10.58 12  CM215o1 35.51 36.12 11.70 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM316o1 52.79 50.63 9.72 12  BL115e1 43.21 43.46 14.25 12  AM216m5 67.49 63.85 11.78 13  BL216m3 29.26 29.76 12.79 13  CM115o6 50.10 50.56 12.07 13  BM216m2 42.60 41.67 12.27 13  AL216m1 52.25 50.26 13.54 13  AM115p1 71.89 69.62 16.111 13  CM216e2 53.87 52.33 12.72 13  BM115o7 46.30 45.97 12.96 13  CS316o1 41.73 40.14 13.63				•	9.40
AM215e1 52.69 52.44 9.49 9 CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 CL316m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 35.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 CM115o6 50.10 50.56 12.07 13 CM216e2 53.87 52.33 12.72 BM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 BM115p1 71.89 69.62 16.11 13.63 CS316o1 41.73 40.14 13.63			<b>E</b> ()	l control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	9.45
CL216e2 50.89 50.13 8.46 10 CM215m2 53.59 52.12 7.85 10 CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 LM416m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 35.51 36.12 11.70 12 CM215o1 35.51 36.12 11.70 12 CM215o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m2 43.60 41.67 12.27 13 BM216m3 52.25 50.26 13.54 13 BM115p1 71.89 69.62 16.11 13.63				1	9.49
CM215m2 53.59 52.12 7.85 10  CM216m4 28.48 29.85 9.94 10  CS313e1 75.35 71.25 9.11 10  AL115k5 42.97 44.40 10.75 10  BL315o1 55.53 50.16 9.06 11  BS214o1 83.52 76.93 5.44 11  BM115k2 60.06 58.01 9.90 11  AL312o1 59.48 59.48 11.93 11  BM115i1 44.23 45.68 10.83 12  CL316m4 54.31 52.97 10.35 12  i_M416m4 48.25 48.25 12.22 12  AM315o3 49.31 49.70 10.58 12  CM215o1 35.51 36.12 11.70 12  CM316o1 53.47 52.39 12.65 12  CM213o1 52.79 50.63 9.72 12  BL115e1 43.21 43.46 14.25 12  AM216m5 67.49 63.85 11.78 13  BL216m3 29.26 29.76 12.79 13  BM216m3 29.26 29.76 12.79 13  BM216m3 29.26 29.76 12.79 13  BM216m2 42.60 41.67 12.27 13  BM216m2 42.60 41.67 12.27 13  AM115p1 71.89 69.62 16.11 13  CM216e2 53.87 52.33 12.72 13  BM115o7 44.30 45.97 12.96 13  CS316o1 41.73 40.14 13.63 13			1	1	10.20
CM216m4 28.48 29.85 9.94 10 CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 CM316m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 35.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CS316o1 41.73 40.14 13.63					10.25
CS313e1 75.35 71.25 9.11 10 AL115k5 42.97 44.40 10.75 10 BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12  M416m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 35.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 CM115o6 50.10 50.56 12.07 13 BM216m2 42.60 41.67 12.27 13 AM216m1 52.25 50.26 13.54 13 AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 CS316o1 41.73 40.14 13.63					10.40
AL115k5 42.97 44.40 10.75 10 BL315c1 55.53 50.16 9.06 11 BS214c1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312c1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12  M416m4 48.25 48.25 12.22 12  AM315c3 49.31 49.70 10.58 12  CM215c1 35.51 36.12 11.70 12  CM316c1 53.47 52.39 12.65 12  CM213c1 52.79 50.63 9.72 12  BL115e1 43.21 43.46 14.25 12  AM216m5 67.49 63.85 11.78 13  BL216m3 29.26 29.76 12.79 13  CM115c6 50.10 50.56 12.07 13  BM216m2 42.60 41.67 12.27 13  AM115p1 71.89 69.62 16.11 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13  CM216c2 53.87 52.33 12.72 13			1		10.82
BL315o1 55.53 50.16 9.06 11 BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 LM416m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 35.51 36.12 11.70 12 CM215o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 BM216m2 42.60 41.67 12.27 13 BM216m2 42.60 41.67 12.27 13 AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CM216o1 41.73 40.14 13.63			1	•	10.92
BS214o1 83.52 76.93 5.44 11 BM115k2 60.06 58.01 9.90 11 AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12  LM416m4 48.25 48.25 12.22 12  AM315o3 49.31 49.70 10.58 12  CM215o1 35.51 36.12 11.70 12  CM316o1 53.47 52.39 12.65 12  CM316o1 53.47 52.39 12.65 12  CM213o1 52.79 50.63 9.72 12  BL115e1 43.21 43.46 14.25 12  AM216m5 67.49 63.85 11.78 13  BL216m3 29.26 29.76 12.79 13  CM115o6 50.10 50.56 12.07 13  BM216m2 42.60 41.67 12.27 13  AL216m1 52.25 50.26 13.54 13  AM115p1 71.89 69.62 16.11 13  CM216e2 53.87 52.33 12.72 13  BM115o7 46.30 45.97 12.96 13  CS316o1 41.73 40.14 13.63				1	11.39
BM115k2         60.06         58.01         9.90         11           AL312o1         59.48         59.48         11.93         11           BM115i1         44.23         45.68         10.83         12           CL316m4         54.31         52.97         10.35         12           LM416m4         48.25         48.25         12.22         12           AM315o3         49.31         49.70         10.58         12           CM215o1         35.51         36.12         11.70         12           CM316o1         53.47         52.39         12.65         12           CM213o1         52.79         50.63         9.72         12           BL115e1         43.21         43.46         14.25         12           AM216m5         67.49         63.85         11.78         13           BL216m3         29.26         29.76         12.79         13           CM115o6         50.10         50.56         12.07         13           BM216m2         42.60         41.67         12.27         13           AL216m1         52.25         50.26         13.54         13           AM115p1         71.89			L	•	11.44
AL312o1 59.48 59.48 11.93 11 BM115i1 44.23 45.68 10.83 12 CL316m4 54.31 52.97 10.35 12 LM416m4 48.25 48.25 12.22 12 AM315o3 49.31 49.70 10.58 12 CM215o1 35.51 36.12 11.70 12 CM316o1 53.47 52.39 12.65 12 CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 BL216m3 29.26 29.76 12.79 13 BM216m2 42.60 41.67 12.27 13 BM216m1 52.25 50.26 13.54 13 AM216m2 42.60 41.67 12.27 13 AL216m1 52.25 50.26 13.54 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CM316o1 41.73 40.14 13.63 13			•	¥	11.79
BM11511       44.23       45.68       10.83       12         CL316m4       54.31       52.97       10.35       12         i_M416m4       48.25       48.25       12.22       12         AM315o3       49.31       49.70       10.58       12         CM215o1       35.51       36.12       11.70       12         CM316o1       53.47       52.39       12.65       12         CM213o1       52.79       50.63       9.72       12         BL115e1       43.21       43.46       14.25       12         AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.		•			11.93
CL316m4       54.31       52.97       10.35       12         i_M416m4       48.25       48.25       12.22       12         AM315o3       49.31       49.70       10.58       12         CM215o1       35.51       36.12       11.70       12         CM316o1       53.47       52.39       12.65       12         CM213o1       52.79       50.63       9.72       12         BL115e1       43.21       43.46       14.25       12         AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13					12.00
i_M416m4       48.25       48.25       12.22       12         AM315o3       49.31       49.70       10.58       12         CM215o1       35.51       36.12       11.70       12         CM316o1       53.47       52.39       12.65       12         CM213o1       52.79       50.63       9.72       12         BL115e1       43.21       43.46       14.25       12         AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13		1		•	12.03
AM315o3		1	1	•	12.22
CM215o1       35.51       36.12       11.70       12         CM316o1       53.47       52.39       12.65       12         CM213o1       52.79       50.63       9.72       12         BL115e1       43.21       43.46       14.25       12         AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13			<b>.</b>	T .	12.22
CM316o1       53.47       52.39       12.65       12         CM213o1       52.79       50.63       9.72       12         BL115e1       43.21       43.46       14.25       12         AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13		9	<b>b</b>	<b>.</b>	12.30
CM213o1 52.79 50.63 9.72 12 BL115e1 43.21 43.46 14.25 12 AM216m5 67.49 63.85 11.78 13 BL216m3 29.26 29.76 12.79 13 CM115o6 50.10 50.56 12.07 13 BM216m2 42.60 41.67 12.27 13 AL216m1 52.25 50.26 13.54 13 AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CS316o1 41.73 40.14 13.63			•	9	12.61
BL115e1       43.21       43.46       14.25       12         AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13					12.85
AM216m5       67.49       63.85       11.78       13         BL216m3       29.26       29.76       12.79       13         CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       13         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13		1		•	12.97
BL216m3 29.26 29.76 12.79 13 CM115o6 50.10 50.56 12.07 13 BM216m2 42.60 41.67 12.27 13 AL216m1 52.25 50.26 13.54 13 AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CS316o1 41.73 40.14 13.63		li de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	T .	•	13.06
CM115o6       50.10       50.56       12.07       13         BM216m2       42.60       41.67       12.27       i3         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13		1			13.27
BM216m2       42.60       41.67       12.27       i3         AL216m1       52.25       50.26       13.54       13         AM115p1       71.89       69.62       16.11       13         CM216e2       53.87       52.33       12.72       13         BM115o7       46.30       45.97       12.96       13         CS316o1       41.73       40.14       13.63       13			1		13.30
AL216m1 52.25 50.26 13.54 13 AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CS316o1 41.73 40.14 13.63 13				Pr .	13.36
AM115p1 71.89 69.62 16.11 13 CM216e2 53.87 52.33 12.72 13 BM115o7 46.30 45.97 12.96 13 CS316o1 41.73 40.14 13.63 13				1	13.70
CM216e2     53.87     52.33     12.72     13       BM115o7     46.30     45.97     12.96     13       CS316o1     41.73     40.14     13.63     13			5		13.74
BM115o7 46.30 45.97 12.96 13 CS316o1 41.73 40.14 13.63 13		1	•		13.74
CS316o1 41.73 40.14 13.63 13				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	13.81
C351601 41.75					13.90
CIDIC D		1	48.27	11.78	13.99
CL21302			4	4	14.03
DIVIZIONIO 30.10		1	E	1	14.06
DESTORIES 70.00			•	1	14.22
		1			14.26

<sup>\*</sup>Program costs are underwritten by government appropriation.



Code Number of Parent	Net Cost per St	udent-Week	Derived Income pe	Derived Income per Student-Week	
Institution	To Parent Institution	For Total Program	To Parent Institution	For Total Program	
AA421/1	\$43.05	\$40.78	\$13.15	\$14.36	
AM316m1	38.89	39.08	13.38	14.43	
CM315o4	57.32	59.00	14.16	14.58	
BS315m1		30.32	13.85	14.80	
AL176e1	30.38	55.27	14.78	14.89	
BM216e3	56.61		13.90	14.97	
CS 115g1	87.66	81.87	12.85	15.14	
CS215o1	52.55	50.41	13.72	15.21	
CL216m5	60.46	57.52		15.28	
BL416m1	34.70	34.99	14.61	15.52	
DM216e1	43.92	43.09	14.65	15.61	
AL115m3	37.38	36.44	13.88	1	
AL41311	20.91	26.11	14.73	15.63	
CL315m1	45.84	43.48	16.18	16.13	
AM216e4	57 .49	57.49	16.48	16.48	
CS216e1	30.78	31.96	15.56	16.50	
	46.62	45.33	15.63	16.69	
CL216e3	60.25	58.18	13.54	16.70	
CS 11503	55.69	54.73	16.43	16.77	
CL115m5	4	44.79	16.66	16.85	
BL213o1	42.73	66.52	15,42	17.30	
AS114o2	65.89	63.58	15.29	17.35	
CS115il	61.46	50.93	17.37	17.41	
AL315g1	50.86		16.44	17.42	
CM315 <sub>0</sub> 2	36.14	35.18	15.92	17.50	
BM11 <i>5</i> e1	43.62	42.45	16.66	17.52	
CM115o2	48.66	47.24	17.11	17.55	
CS114o1	80.64	80.35		17.62	
BL216m2	42.04	42.42	14.06	17.83	
BL115k1	33.01	32.53	18.28		
BL115ml	44.17	45.65	18.30	18.08	
CL215o3	55.21	51.38	14.92	18.14	
BM155m1	55.74	57.00	13.73	18.16	
BL31503	55.37	54.81	18.29	18.20	
	60.09	58 <b>.</b> 76	18.86	18.38	
CL115o2	61.45	61.36	18.58	18.38	
BM11503	36.64	36.74	17.06	18.46	
CL114k1	51.71	49.40	18.67	18.55	
BL316m1	1	81 .69	17.70	18.58	
BL114p1	79.25	40.02	18.79	18 <i>.7</i> 9	
BL115k4	40.02	68.45	16.43	18.94	
CS11501	71 .26	1	18.65	19.27	
BM31 <i>5</i> o5	29.21	30.42	19.48	19.37	
DM21601	55.40	53.42	20.88	19.39	
AM416m3	41 .63	43.48	18.19	19.65	
AM11601	47.48	46.64	20.64	19.99	
AL115k3	32.80	33.39	•	20.00	
AM21602	46.15	46.70	20.46	20.38	
CL115m2	48.58	48.35	16.80	20.36	
CL316o2	41.60	40.98	21.55	4	
BM115k1	52.39	49.07	18.48	20.56	
CS216m1	73.37	61 .44	23.34	20.75	
CM216m1	39.61	39.82	20.80	21.14	
	92.16	70.54	14.95	21 .45	
B\$125m1	60.19	57.22	20.72	21 .77	
AM11505	49.04	49.09	18.05	22.22	
AL415g1	•	55.23	18.27	22.23	
BL11501	56.60	50.39	22.64	22.64	
AL115k6	51.62	1	21.98	22.99	
BL115m4*	47.08	51.46	19.84	23.26	
BM215m1	53.20	48.32	22.46	23.36	
CL215m1	36.61	35.96	22.40		

<sup>\*</sup>Modified basis of allocation used in deriving gross cost.



TABLE 6, Continued

Code Number of Parent	Net Cost per Student-Week		Derived Income pe	r Student-Week
Institution	To Parent Institution	For Total Program	To Parent Institution	For Total Program
BL115k2 CM213m1 AM314m1 BM215m3 AL216e1 AM115a1 AM214m1 BM115o8	\$49.03 45.60 47.71 41.58 53.68 45.69 58.77 49.71	\$46.66 47.43 47.71 42.77 53.68 45.85 58.77 51.62	\$25.08 22.61 24.61 26.16 25.92 25.55 29.05 29.33	\$23 .72 23 .74 24 .61 25 .07 25 .92 26 .89 29 .05 29 .22



### GENERAL COMMENTS ON THE COST OF DIPLOMA PROGRAMS IN NURSING

### APPLICABILITY OF FINDINGS

The foregoing findings are based upon analyses of the costs of a sample of diploma programs. While the sample was chosen at random among those willing and able to participate, there was no evidence that unwillingness to participate indicated comparatively low or comparatively high costs. When the invitations to participate were distributed, those who decided not to participate could scarcely have had knowledge of comparative costs of diploma programs. Few if any of the parent institutions had done cost analyses of their diploma programs. No data were available that could be used to compare the costs of one program with those of the population of diploma programs.

None of the findings of the study indicated that there was a relationship between the cost of the program and willingness to participate in the study. Contacts with institutions that had originally indicated reluctance to participate gave study staff the impression that the reluctance was associated with apprehension about making the costs of the program known within the parent institution. In the programs studied, there was no obvious relationship between the relative cost of the program and whether or not the participants expressed concern about the cost of the program.

The findings of the present study appear to be the most complete and comprehensive that are available. It cannot be said unequivocally that the findings apply to programs outside the population of those willing to participate in a study of costs. However, it could not be demonstrated that this limitation biased the findings and therefore prejudiced their applicability.

### SUMMARY OF PROGRAM COSTS

The following table summarizes the costs to parent institutions. The last two columns of the table show the approximate cost (to the nearest \$50) per student per year. A student-year is equivalent to 43 weeks in the parent institution.

Tunna of Cont	Cost p	er Student-Week	Approximate Cost per Student-Year	
Type of Cost	Median	Interquartile Range	Median	Interquartile Range
Gross cost				
Educational functions	\$23.38	\$19.28-\$28.03	\$1,000	\$ 800-\$1,200
Noneducational functions	31.30	26.36- 37.04	1,400	1,000- 1,600
Educational functions and noneducational functions	55.68	48.54- 63.52	2,400	2,100~ 2,700
Net cost				
Educational functions	19.14	14.90- 23.63	850	600- 1,000
Noneducational functions	28.99	24.90- 36.06	1,300	1,000- 1,500
Educational functions and noneducational functions	50.16	41.62- 57.21	2,150	1,800- 2,500

The following table summarizes the total program costs, that is, the costs to the parent institution plus the costs to its cooperating agencies. In this instance, a student-year is equivalent to 48 weeks.



	Cost per Student-Week		Approximate Cost per Student-Year	
Type of Cost	Median	Interquartile Range	Median	Interquartile Range
Gross cost				
Educational functions	\$22.82	\$18.59-\$27.32	\$1,100	\$ 900-\$1,300
Noneducational functions	31.29	26.34- 36.39	1,500	1,250- 1,750
Educational functions and noneducational functions	54.44	47.76- 62.06	2,600	2,300- 3,000
Net cost				
Educational functions	18.79	14.61- 23.22	900	700- 1,100
Noneducational functions	28.55	25.01- 34.56	1,400	1,200- 1,700
Educational functions and noneducational functions	49.07	42.05- 57.36	2,300	2,000- 2,800

The following table summarizes the estimated value of students' clinical experiences to the parent institution and to the parent institution together with its cooperating agencies.

Institution(s) Participating in the Program	Estimated Value of Students' Clinical Experiences				
	Per	Student-Week	Per Student-Year		
	Median	Interquartile Range	Median	Interquartile Range	
Parent institution	\$13.84	\$10.25-\$18.2	\$600 <sup>a</sup>	\$400 <b>-</b> \$800 <sup>a</sup>	
All institutions	15.32	12.17- 19.46	750 <sup>b</sup>	600- 950 <sup>b</sup>	

- a. Based on a student-year of 43 weeks.
- b. Based on a student-year of 48 weeks.

Data in the first two of the foregoing tables exemplify the general tendency of institutions to devote a greater portion of expenditures to noneducational functions of the program than to educational functions. Gross noneducational-functions costs were approximately one-third greater than gross educational-functions costs both for the parent institution and for the total program. Net noneducational-functions costs were over 50 percent greater.

As mentioned earlier, net cost is the cost that remains after income intended for either function or both functions of the program has been subtracted. The relatively small portion of income earmarked for noneducational functions may indicate that institutions were unaware of or tended to overlook the relative magnitude of the cost of the maintenance of diploma program students.

According to these data, the typical student in one year of the program incurred the following costs.

To the parent institution:

- \$1,000 for educational functions.
- \$1,400 for noneducational functions.

To all institutions:

- \$1,100 for educational functions.
- \$1,500 for noneducational functions.

Yearly income per student to defray the cost of the program amounted to:

- \$150 for educational functions.
- \$100 for noneducational functions.



The estimated value of the clinical experiences of the student was:

\$600 per year in parent institutions. \$750 per year in all institutions.

Many participants in the study expressed the belief that the estimated value of students' clinical experience is only one aspect of the worth of having a diploma program. Additional values that were cited had to do with such intangibles as the value of the program in recruiting nursing service staff and the stimulating effect of the educational program on the total institution.

Two of the findings of the present study can be used as bases for estimating the yearly total program costs for the entire population of diploma programs. They are the median cost per student and the distribution of costs per student (the number of the cases studied that fell in each ten-dollar interval of the range of costs). On the first basis—the median cost per student applied to the population of diploma program students that existed on October 15, 1962—the estimated cost is \$250,000,000. The estimated cost of educational functions is \$105,000,000 and that of noneducational functions is \$145,000,000. When the second basis—distribution of costs—is applied to the population of diploma program students, the resulting estimate is approximately identical with the previous one—none of the three costs estimated by the one method varies as much as 2 percent from the cost estimated by the other method.

### **OBSERVATIONS ON VARIABLE RELATIONSHIPS**

### Relationships Pertaining to the Year of the Study

Statistical tests applied to data collected for the study did not show any significant relationships between the year of analysis and the cost of either or both functions of diploma programs. One could ask, Does this mean that the rise in living costs (the consumer price index increased by 4 percent during the study period) had no appreciable effect on the cost of the programs? It can be shown that had diploma program costs increased by 4 percent during the study period, the resulting differences in cost would not have been found to be significant at the .05 level of probability. To demonstrate this, one can number the costs of each program as they are listed on Table 3, increase each even-numbered cost by 4 percent, and test for significant differences between the odd- and even-numbered cases. It will be found that the differences are not significant at the .05 level of probability. However, they will be significant at the .10 level. In the study, the probability of chance variations among the fiscal year subgroups as great as those observed was more than .80. There is reason to suppose that some sort of compensating factor or factors offset the rise in living costs.

In the one instance of a significant relationship between a dependent variable and year of analysis, the variable was not cost but derived income as determined by professional ability-usability estimates. The estimates indicated that over the years of the study, there was a significant decrease in the value of the students' clinical experience to the institution in which the experiences took place. This finding is in line with the belief held by an increasing number of nurse educators that a nursing program is an educational program, not an apprenticeship, that the aims of the program alone should determine the time, the place, and the nature of students' clinical experiences.

### Relationships Pertaining to Geographic Region

The finding that diploma programs in NLN Region I (the North Atlantic) spent significantly more per student-week on educational functions than did diploma programs in other regions is in line with statistical reports of regional variations in the cost of public education. During the study period, the 11 units (10 states and the District of Columbia) comprising Region I had significantly greater expenditures per pupil-day for public education in elementary and secondary schools than did the remaining 40 states.

The item that accounted for most of the program's educational-functions cost was instructors' salaries. Salaries of instructors in elementary and secondary public schools were higher in the areas comprising NLN Region I than in the country as a whole. Over 90 percent of the diploma programs in Region I are in states in which the average public school teacher's salary was above the national average. Roughly half of these programs were in states in which the average public school teacher's salary was 15 percent or more above the national average.

<sup>1.</sup> U. S. Bureau of the Census. Statistical Abstract of the United States: 1962. 83d ed. Washington, D. C., U. S. Government Printing Office. 1962, p. 349.

<sup>2. &</sup>lt;u>lbid.</u>, p. 108.

<sup>3. &</sup>lt;u>lbid.</u>, p. 127.

<sup>4. &</sup>lt;u>lbid</u>.

Programs in Region I also differed significantly from programs in other NLN regions in that the students' clinical experiences had relatively greater value. The difference occurred in spite of the fact that the median hourly rate of pay for beginning general duty nurses in Region I was less than the national median. I

Cooperating agencies in Region II (the Midwest) differed significantly from cooperating agencies in other regions in that they spent less to provide educational and noneducational functions of the courses given. This finding, while statistically significant, appears to be of little importance. For instance, there was not a corresponding difference in expenditures for public education. The median amount of money spent on elementary and secondary public education by the states in Region II was near the median for the country. Also, there was not a corresponding difference in the cost of the two functions to parent institutions.

Parent institutions in Region III differed significantly from parent institutions in other regions in two ways. First, the portion of the cost of the program that was borne by these institutions was greater than that borne by other institutions. Second, the value of students' clinical experiences was less in these institutions than in those in other regions. The first difference might have been a consequence of the fact that farm and factory wages in the three U. S. Census Bureau geographic divisions within NLN Region III were the lowest in the country. That is, in a low-income area, it may be necessary for educational institutions to bear a larger portion of the cost of the program than that borne by such institutions in other regions. Although the second difference was in keeping with the low rates of pay for beginning general duty nurses that prevailed in the area, the difference was probably not a consequence of the rates of pay. It was shown earlier that these rates are not the prime determiners of the value of students' clinical experiences. Rather, the finding that the parent institution bore a relatively large portion of the cost of the program and the finding that students' clinical experiences were of relatively little value tended to occur together. These findings occurred together in two previous instances—when the programs were grouped according to type of control and compared and when programs in Region I were compared with those in all other regions.

The three significant differences between Region IV and all other regions were: (1) cooperating agencies had significantly higher costs for educational functions, (2) cooperating agencies had significantly higher costs for educational and noneducational functions, and (3) parent institutions met a significantly lesser portion of the cost of the diploma program.

It is highly probable that the first finding applies to parent institutions as well as to cooperating agencies. The average rank for Region IV was 9.60 ranks above the average for all regions for educational-functions costs to parent institutions, which was slightly higher than the average for Region I, which in turn was significantly higher than that for all other regions considered as one. Region IV is an area of relatively high income. Nurses' salaries are highest here<sup>4</sup>, and factory and farm wage rates are above the national average. If the data pertaining to the costs of educational functions of diploma programs in NLN Regions I and IV were to be combined (there is some justification for this in that costs of public education per pupil—day in these regions are the highest in the country<sup>5</sup>) and compared with educational-functions costs in the remaining regions, the results would show the costs in the combined region were significantly higher than those in the rest of the country. The probability of the occurrence of this difference on the basis of chance alone would be less than .02. (As mentioned earlier, the comparable probability for Region I was less than .04.)

One consequence of the fact that Region IV was a high-income area might have been that the siudents' parents were able to meet a larger portion of the cost of the program than was met by parents in the other regions. Region IV was outstanding in that it exceeded all other regions in the percent of parent institutions that reported income items pertaining to noneducational functions. A finding cited in the section of this report dealing with income was that institutions reporting such items tended to bear a lesser portion of the cost of the program than was borne by other institutions.

### Relationships Pertaining to Type of Control

When relationships between costs and type of control of the institution occurred, they were usually applicable to both parent institutions and cooperating agencies. Costs of educational functions were significantly greater in both parent institutions and cooperating agencies under public control. However, parent institutions under public control differed from cooperating agencies under public control in certain respects. Over half of the former were under the control of a city government, while most of the latter were under the control of a state government. Without exception, participating parent institutions under public control were general hospitals with short-term, acutely ill patients. Most cooperating agencies under public control were psychiatric hospitals with a relatively large census of ambulatory, long-term patients. Therefore, the finding that parent institutions under control of a city government had significantly higher costs for both educational and noneducational functions, which was reported earlier, and plies only to general hospitals under public control.



<sup>1.</sup> American Nurses' Association. <u>Facts About Nursing, A Statistical Summary</u>. 1962-1963 ed. New York, the Association, 1963, p. 141.

<sup>2.</sup> U. S. Bureau of the Census. Op. cit., pp. 234 and 238.

<sup>3.</sup> American Nurses' Association. Op. cit., p. 141.

<sup>4.</sup> Ibid.

<sup>5.</sup> U. S. Bureau of the Census. Op. cit., p. 108.

Noneducational-functions costs in cooperating agencies under public control were slightly less than those in cooperating agencies under private control. The large patient census in such institutions may reduce the unit cost of noneducational functions. This possibility is further supported by the finding that the noneducational-functions costs in agencies offering courses in psychiatric nursing were significantly less than those in agencies offering courses in other clinical areas.

The portion of the cost of the diploma program met by parent institutions under public control was significantly greater than that met by parent institutions under private control. This finding may be related in part to current opinions about who does or should pay for educating the diploma program student. There is an expressed concern about the cost of diploma programs in hospitals under private control that is not applicable to programs in hospitals that are financed by taxation. Hospital administrators are concerned that the unmet cost of nursing education is being passed on to the patient. 1, 2 One administrator warns that if the patients knew "how much they are paying for nursing education . . . the protests against high hospital charges would be even louder than now." A possible explanation for the difference between programs in institutions under public control and in those under private control with respect to costs is that the concern predisposes to economy measures by parent institutions under private control. In addition to the foregoing, one source of income that lessened the percent of program cost met by the parent institution was private gifts to nursing programs. Records of income from all but a few institutions under public control had no entries under the item Private Gifts.

The two subgroups of parent institutions under public control differed from one another in the value of the students' clinical experiences to the institutions in each subgroup. Of all type-of-control subgroups, the subgroup city government was most typical in that it was closest to the median for such values. The subgroup federal, state, and county, which contained only 10 institutions, was far enough below the median value to differ significantly from the remaining 113 institutions. An administrator in one of the institutions under the control of a city government expressed the belief that the number of nursing staff vacancies that existed increased the likelihood that students' educational experiences would be of value to nursing service. However, the present study did not include the investigation of a possible relationship between adequate staffing and the results of professional ability-usability estimates.

The costs of both educational and noneducational functions of the diploma program were significantly lower in parent institutions under private control than in such institutions under public control. This was also true of cooperating agencies under religious control as compared with all other cooperating agencies considered as one subgroup. However, the costs of the two functions were not significantly lower in cooperating agencies under private secular control as compared with all other cooperating agencies considered as one subgroup. Any services donated to cooperating agencies under religious control could not have been reflected in the findings of the study. When services were donated, the prevailing values of the services were imputed.

Parent institutions under religious control differed significantly from those under all other types of control in that they met a lesser portion of the cost of the program. This finding is in keeping with the fact that economy measures were observed much more frequently in institutions under religious control than in institutions under secular control.

### Relationships Pertaining to Enrollment Size

The finding that enrollment size was inversely related to educational-functions cost per student was consistent for both parent institutions and cooperating agencies. Persons who reviewed the findings of the study agreed that this relationship was the most impressive finding of the study. However, this does not mean that doubling or tripling the enrollment of a program of small-size enrollment that operated at a deficit would eliminate the deficit. While increasing the enrollment might decrease the financial loss per student, the increased number of students might accumulate a deficit as great as or greater than that which existed previously. The extent of the deficit may not be apparent to the administrator or to the program director whose knowledge of the cost of the program is limited to that of its direct expenses. In most of the cost analyses, direct expenses accounted for the major portion of the cost of noneducational functions.

The findings of the study did not indicate that measures directed toward economy of general overhead costs can offset the increased educational cost per student that is associated with programs of small enrollment size. When the study programs were subgrouped according to both enrollment size and type of control and compared for differences in the cost of educational functions, the results showed that enrollment size had the greater effect on the cost.

Findings pertaining to cooperating agencies offered further evidence that the cost of educational functions increased as the number of student-weeks spent in an institution or agency decreased. Parent institutions that used three or more cooperating agencies had educational-functions costs that were significantly higher than such costs in institutions that used two or fewer agencies. In some of the programs studied, three 12-week courses were given by cooperating agencies. The total student-weeks accumulated in such programs were about three-fourths of the total accumulated in programs of equal enrollment size that used no cooperating agencies.

<sup>1.</sup> William K. Turner. "Must the Patient Pay for Nursing Education?" Hospitals, 35:53-55, Dec. 16, 1961.

<sup>2.</sup> Elmer L. Harvey. "Financing Diploma Schools of Nursing." Hospital Management, 92:26-29, Dec., 1961.

<sup>3. &</sup>lt;u>Ibid.,</u> p. 26.

erating agencies. Cooperating agencies offering courses of one month's duration (communicable disease nursing) had significantly higher educational-functions costs than did cooperating agencies offering courses of three months' duration (psychiatric nursing and nursing of children).

There was no evidence that parent institutions with programs of small enrollment size compensated for the increased cost of educational functions by securing more outside income for the program, nor was the value of students' clinical experiences greater than that for institutions with programs of medium or large enrollment size. The percent of the cost of the program met by parent institutions with programs of small enrollment size was appreciably greater than that met by institutions with programs of other enrollment sizes. The value of students' clinical experiences was significantly lower in hospitals with programs of small enrollment size than it was in hospitals with programs of medium or large enrollment size.

Generally, throughout the analysis of the data, evidence of compensations that could have occurred failed to appear. Data collected in one of the parent institutions could be construed to mean that a variable other than those considered in the study had engendered compensating economies. The institution was the only one for which two cost analyses were done—one at the beginning of the project and one near the end. In the interim period, educational—functions costs of the nursing program had decreased, although many other costs in the institution had increased. At the time of the second analysis, the institution possessed a characteristic that that it did not have when the first analysis took place—for several years it had been aware of the cost of its nursing program.



### DESCRIPTION OF STATISTICAL METHODS USED IN THE STUDY

The following explanation is intended for readers who are unfamiliar with the statistical methods used in the study. The explanation is based upon an example of imaginary cost data on 10 imaginary diploma programs.

For the sake of exposition, assume that cost analyses of 10 programs, A through J, resulted in the following costs per student—week.

Program	Cost per Student-Week
A	\$44
В	28
Č	45
D	55
Ē	80
F	75
Ġ	53
H	31
1	27
j	68

Also assume that 4 of the programs, namely, E, F, G, and J, had small-size enrollments and all other programs had medium- or large-size enrollments. Assume further that the question to be answered by statistical analysis is, Do programs of small-size enrollment differ significantly from all other programs in cost per student-week?

In order to answer the question by means of the method used in the study, it will be necessary to convert the cost data to ranking data, apply statistical tests to the ranking data, and determine whether or not the test results indicate that programs of small-size enrollment differ significantly in cost from programs of other enrollment sizes.

To convert the preceding cost data to ranking data, each program is ranked in order of increasing cost. That is, the program with the lowest cost is ranked 1 and that with the highest cost is ranked 10. In this case, the ranks of the programs are as follows:

Program	Rank
A	4
В	2 5
Ċ	5
D	7
E	10
F	9
Ġ	6
н	3
1	1
j	8

Total 55

The average rank per program is then computed. This is done by dividing the sum of the ranks (55) by the number of cases (10). The resultant average is 5.5. Next, the ranks of the 4 programs with small-size enrollments and those of the 6 with other-size enrollments are summed as follows:

Small	-Size	Oth	ers
rogram	Rank	Program	Rank
F	10	A	4
Ē	9	! В	2
Ġ	6	C	5
ĭ	8	D	7
•	1	H	3
			1
Tot	al 33	Tot	al 22

24/75

The average rank for small-size programs is obtained by dividing the sum of ranks (33) by the number of cases (4) and is 8.25. This is 2.75 ranks above the average (5.50) for all programs. The average rank for other-size programs is obtained by dividing the sum of ranks (22) by the number of cases (6). The result is 3.67 and is 1.83 ranks below the average for all programs.

The next step is to subject the ranking data to tests of statistical significance and to interpret the results of the tests. In this case, it is obvious that the average rank of the two groups chosen on the basis of enrollment size differ from one another. Is this difference statistically significant? (The term statistically significant means that the difference is appreciably greater than would be expected if the 10 ranks were shuffled and a blindfolded person divided them into a group of 4 ranks and a group of 6 ranks. In other words, tests of statistical significance give results in terms of the probability that a difference of a given magnitude would be expected to occur randomly—that is, on the basis of chance alone.) To answer the question, an appropriate test is applied to the ranks of the two groups (the 4 small—size enrollment programs and the 6 other—size programs), the result of which is a .019 probability of chance occurrence. This means that 19/1,000th of the time—or 19 times out of 1,000—differences of this magnitude would have been expected to result from shuffling the ranks and drawing the two groups at random. One would probably round off the fraction and state the result as follows: "The probability is less than 2 times out of 100 that this would occur on the basis of chance." The statement can be expressed in mathematical symbols as: p < .02. The symbol p means probability and the symbol < means less than (>means greater than).

In this report, a difference is held to be significant if it could be expected to occur less than 5 times out of 100 on the basis of chance. If the result is p < .05 or p < .01 or p < .001 or any amount less than .05, the finding is held to be of significance. If the result is p > .05 or p > .10 or p > .80 or any amount greater than .05, the finding is not held to be statistically significant.

In the example, the result p < .02 indicates that the cost of programs of small-size enrollment differed significantly from the cost of the other programs.

In the study, two statistical tests, the Kruskai-Wallis one-way analysis of variance and the Mann-Whitney U test, were used. The first was used when differences among more than two groups were considered. The results were reported as chi-square values and as probabilities. The second test was used when only two groups were involved. The results were reported as standard scores and as probabilities. Further explanations of the statistical tests, of the meaning of standard score and chi-square, and of the rationale for using nonparametric statistics appear in many textbooks dealing with statistics. Persons who have not studied advanced statistics, should find Siegel's Nonparametric Statistics for the Behavioral Sciences especially useful.

<sup>1.</sup> Sidney Siegel. Nonparametric Statistics for the Behavioral Sciences. New York, McGraw-Hill, 1956.

### APPENDIX B

### A SIMPLIFIED EXAMPLE OF THE CLOSE-OUT METHOD OF COST ANALYSIS

The following explanation of the close-out (sometimes called the step-down) method of cost analysis is intended for those who are unfamiliar with cost accounting. The explanation is aimed at developing an appreciation of the method, not a mastery of it. The figures used are purely imaginary and are not based upon data collected in this study.

### Assumptions

The simplified example assumes that the following decisions have been made.

- 1. The cost to be determined is that of a diploma nursing program conducted by a hospital.
- 2. This cost will include:
  - a. The direct expenses of the nursing program.
  - b. The nursing program's fair share of the cost of overhead.
- 3. The overhead will consist of the cost of services to the nursing department from the following departments:
  - a. Plant Operation (providing and maintaining such facilities as water, light, and heat).
  - b. Administration (providing over-all administrative activities, including communication service and purchasing).
  - c. Library (providing library service to the students and faculty of the nursing program as well as to the hospital staff).
- 4. Each department's share of the cost of a service will be based on the percentage of use of the service as shown by the following statistics:
  - a. Plant Operation: The percent of total square footage in the department.
  - b. Administration: The percent of all the direct expenses that were spent in the department.
  - c. Library: The percent of all visits to the library that were made by the department.
- 5. The department Plant Operation provides services to the greatest number of other departments. The department Administration provides services to the next greatest number of other departments. The department Library provides services to the next greatest number of other departments.

### **Cost Centers**

The cost of the entire institution will be divided among certain departments, or cost centers. That is, total annual operating costs of the institution will be divided among the following five cost centers.

- 1. Plant Operation
- 2. Administration
- 3. Library
- 4. Nursing Education
- 5. All Other Departments

### Direct Expenses

In the hypothetical example, total direct expenses for the hospital for the year was \$1,040,000. The total was divided among the five cost centers as follows:



			Cost Center	S	
ltem	Plant Operation	Administration	Library	Nursing Education	All Other Departments
Direct Expenses	\$160,000	\$80,000	\$8,000	\$43,000	\$744,000

### **Closing Out Cost Centers**

The cost analysis consists of distributing the overhead from each of the first three cost centers, Plant Operation, Administration, and Library, so that the total operating cost will be distributed between the last two cost centers, Nursing Education and All Other Departments. In doing this, the cost of each of the first three cost centers will be allocated (apportioned) to each of the remaining two cost centers on the bases outlined in assumption No. 4 on the previous page. When a cost has been allocated completely, it is said to be closed out. The cost centers will be closed out in the order of service to other departments as described in assumption No. 5.

The cost center Operation of Physical Plant will be the first one to be closed out because it provides services to the greatest number of other departments. The procedure for closing out the cost center Plant Operation is as follows:

- 1. Determine the cost to be allocated. Because this is the first cost center, its cost consists of the direct expenses of \$160,000 only.
- 2. Convert statistical data into percentages of services provided to each department. The percent of Plant Operation cost charged to each succeeding department is based upon measurements of the floor space (square footage) of each department. The area of each department and the percent of total area in each department are as follows:

Department	Area	Percent of Total Area
Administration	4,000 sq. ft.	2.0
Library	1,000 sq. ft.	0.5
Nursing Education	5,000 sq. ft.	2.5
All Other Departments	190,000 sq. ft.	95.0
Total	200,000 sq. ft.	100.0

3. Allocate costs. The above percentages of total area were multiplied by the cost of the cost center Plant Operation. The results are the portions of the Plant Operation cost that will be charged to each department. They are as follows:

Department	Percent of Usage	Apportionment
Administration	2.0	\$ 3,200
Library	0.5	800
Nursing Education	2.5	4,000
All Other Departments	95.0	152,000
Total	100.0	160,000

The first line of the above table shows that the Administration Department which used 2 percent of the total area was charged 2 percent of the \$160,000 cost of Plant Operation, or was charged \$3,200.

4. Record the cost analysis up to this point. At this point, one step (close-out) of the cost analysis can be recorded. The record of the analysis is shown in the following table. In the table, the amount that was closed out is indicated by a double underline (\$160,000). The allocations that were made from this cost follow on the same line of the table. The meaning of the last line of the table is: The \$160,000 cost of Plant Operation was completely allocated, with \$3,200 of it charged to Administration, \$800 of it to Library, \$4,000 to Nursing Education, and \$152,000 to All Other Departments.



			Cost Centers		
Item	Plant Operation	Administration	Library	Nursing Education	All Other Departments
Direct Expenses	\$160,000	\$80,000	\$8,000	\$48,000	\$744,000
Allocations Plant Operation	160,000 (closed out)	3,200	800	4,000	152,000

The procedure for closing out the cost center Administration is as follows:

1. Determine the cost to be allocated. The cost to be allocated consists of the direct expenses recorded in the cost center plus all previously made allocations. Therefore, the Administration costs to be allocated are as follows:

2. Convert statistical data into percentages of services provided to each department. The percent of Administration cost charged to each succeeding department was based upon the portion of total direct expenses that were expended in each department. For each department, direct expenses and the percent of total expenses are as follows:

Department	Direct Expenses	Percent of Total Direct Expenses
Library	\$ 8,000	1.0
Nursing Education	48,000	6.0
All Other Departments	744,000	93.0
Total	800,000	100.0

3. Allocate costs. The above percentages of total direct expenses were multiplied by the cost of Administration. The results are the portions of the Administration cost that will be charged to each department. The allocations are as follows:

Department	Percent of Usage	Apportionment
Library	1.0	\$ 832
Nursing Education	6.0	4,992
All Other Departments	93.0	77,376
Total	100.0	83,200

4. Record the cost analysis up to this point. The second step of the cost analysis consists of closing out the cost of the cost center Administration and can be recorded as follows:

			Cost Centers		
Item	Plant Operation	Administration	Library	Nursing Education	All Other Departments
Direct Expenses	\$160,000	\$80,000	\$8,000	\$48,000	\$744,000
Allocations Plant Operation	160,000	3,200	800	4,000	152,000
Administration		83,200	832	4,992	77,376
		(closed out)			



The close out of the item Administration is recorded in the last table on the previous page. The allocations that were made from this cost follow on the same line of the table.

The procedure for closing out the cost center Library is as follows:

1. Determine the cost to be allocated. The Library cost to be allocated consists of the direct expenses recorded under Library plus the two allocations that have been made to that cost center and is as follows:

Direct Expenses	•	•	•	•	•	•	\$8,000
Plant Operation Allocation	•	•	•	•	•	•	800
Administration Allocation	•	•	•	•	•	•	832
Total	_	_	_	_		_	\$9.632

2. Convert statistical data into percentages of services provided to each department. The percent of Library cost charged to each succeeding department was based upon a survey of library usage (visits to the library) made by persons from each department. Visits made by each department and the percent of total visits are as follows:

Department	Number of Visits	Percent of All Visits
Nursing Education	1,500	75.0
All Other Departments	500	25.0
Total	2,000	100.0

3. Allocate costs. The above percentages of usage of the library were multiplied by the cost of the library. The results were the portion of Library cost to be charged to the two remaining cost centers. The results were as follows:

Department	Percent of Usage	Apportionment
Nursing Education	75.0	\$7,224
All Other Departments	25.0	2,408
Total	100.0	9,632

4. Complete the record of the cost analysis. We have now distributed the overhead from each of the first three cost centers to the last two cost centers. The analysis is complete. It can be shown as follows:

			Cost Centers		
ltem	Plant Operation	Administration	Library	Nursing Education	All Other Departments
Direct Expenses	\$160,000	\$80,000	\$8,000	\$48,000	\$744,000
Allocations Plant Operation	160,000	3,200	800	4,000	152,000
Administration		83,200	832	4,992	77,376
Library			9,632	7,224	2,408
Unallocated Charges				64,216	975,784

The total cost of the cost centers Nursing Education and All Other Departments now account for the \$1,040,000 that was the hospital's operating cost for the year.

The foregoing example follows the procedures used in the cost analyses done for the study but differs from them in having relatively few cost centers and therefore relatively few close-out steps.

Persons who were asked to read a preview form of the example said that it helped them to understand the records of an actual cost analysis. If the reader wishes to test his knowledge in this way, he can use the records of the cost analysis that are included in the report. The schedules used to record the steps of the analysis are in Appendix C. A record of a summary of these steps appears at the end of the section on methods used in the study.



### APPENDIX C

### SCHEDULES USED TO RECORD COST ANALYSIS

The 28 schedules contained in this appendix illustrate the steps in the cost analysis method used in the study. Data pertaining to one of the participants have been recorded on the appropriate schedules. Schedules on which no data appear were not used in the analysis of this participant's costs.

The participating parent institution was a 369-bed general hospital under religious control with an average daily census of 265 patients. It was located in the largest of three cities (population over 100,000) in a U.S. Census Bureau standard metropolitan area. There were eight other diploma programs in hospitals in the metropolitan area.

The hospital did not participate in any way in any other program in nursing education.

The hospital's school of nursing had been in existence for over 50 years. The program included 1,409 hours of classroom instruction. Of these, 728 hours (51.7 percent) were spent in nursing courses given in the parent institution. The remainder of the curriculum consisted of 550 hours (39.0 percent) of instruction by contractual arrangement with a college and 131 hours (9.3 percent) in hospitals that were cooperating agencies. The college used for part of the curriculum was located in an adjoining town in the same metropolitan area. The college provided courses in English, anatomy and physiology, microbiology, chemistry, nutrition, psychology, and sociology. The college received \$300 of the \$350 tuition that each student was charged for the first year of the program. There were two cooperating agencies. One of these, a state mental hospital, provided a 12-week course with 110 hours of instruction in psychiatric nursing. The other, a municipal hospital, provided a 4-week course with 21 hours of instruction in outpatient nursing.

At the time the data were collected, 154 students were enrolled in the program. Sixty were first-year students, 54 were second-year students, and 40 were third-year students. There were 4 weeks of vacation each year. A total of 7,392 student-weeks were accumulated during the year, of which 6,600 (89.3 percent) were spent in the parent institution. On an average, each student spent 42.9 weeks in the parent institution.

The parent institution employed 11 full-time faculty members (including the director) with a bachelors degree in nursing and 1 full-time faculty member holding a diploma. This provided 1 faculty member for every 12.8 students. The remaining school staff consisted of a secretary, a clerk, and a part-time librarian.

Students in the program were eligible for health service in a combined student and hospital personnel health service. The student residence was used exclusively for diploma program students. The hospital maintained a library for the exclusive use of diploma program students.

According to the results of the cost analysis of this institution, 67.1 percent of the cost of educational functions was accounted for by direct and indirect expenditures for instructional personnel. The total direct expenditures for educational functions accounted for 71.4 percent of the total cost of these functions.

Direct expenses accounted for 5.2 percent of the cost of noneducational functions. The bulk (89.3 percent) of this cost center came from allocations for the cost of room and board. It cost \$93,909 to maintain the residence and \$105,155 to provide dietary service to students in the program. During the year following that in which the cost analysis was completed, the hospital instituted charges of \$1,423 for room and board for the three years of the program. Assuming an enrollment identical to that during the year of study, the income would have increased 240 percent over what it was during the previous year and the rate of income per student would have tripled. The percent of the cost of the program borne by the parent institution, which was 91.7 percent when the program was studied, would have decreased to 71.8 percent.

The following table shows certain items of cost or value to the parent institution by cost or value per student-week and by percentile rank of the parent institution among the institutions studied.

Item	Cost or Value per Student-Week	Percentile Rank of Institution
Gross total cost	\$55.47	48th
Gross educational-functions cost	22.08	42nd
Gross noneducational-functions cost	33.30	54th
Net total cost	50.77	54th
Net educational-functions cost	17.71	<b>42nd</b>
Net noneducational-functions cost	33.06	60th
Professional ability-usability value	8.45	1 <i>7t</i> h





## FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

### SCHEDULE 7A - COST CENTER - STAFF BENEFITS

DIRECT EXPENDITURES FOR STAFF BENEFITS			
TYPE OF BENEFIT	ACTUAL	IMPUTED*	TOTAL
Coniel Committe taxes - hospital share	\$ 70,185		\$ 70,185
Deneton	935		935
Usel the contract of	40,208		40.208
Mortman's Componention insurance	22,268		22,268
TOIAL T	TOTAL TO BE ALLOCATED	Q	\$ 133,596

\*If expenditure is made by an outside agency or governing body, please indicate. If this is not an actual expenditure, but an estimated expense, please indicate basis of determination.

Please indicate (\*) staff benefits shown in the direct expenses of any of the following cost centers.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

## APPORTIONMENT BASED ON DISTRIBUTION OF SALARIES AND WAGES

Total Expenses - Staff Benefits \$ 133,596

	ALL SALARI	SS AND WAGES	
COST CENTER	AMOUNT	AMOUNT PERCENTAGE DISTRIBUTION	Apportionment
	\$	2 80	\$
Health Service	2,130	90.	/ / / /
Operation of Physical Plant	88,102	3.46	4,622
Administration and General Expense	196,915	7.74	10,340
Tennet	92,597	3.64	4,863
Honsekeening	183,232	7.20	9,619
	251,058	9.88	13,199
Sentingent Residence			
All control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co		-	
Library  Well-tenance of The Beliefolis			
Managare of the Nexthrost			
Non-educational Functions	10,052	.40	534
Fducational Functions	76,138	2.99	3,995
All Other Hospits] Functions	1,643,231	64.61	86,317
TOTALS	\$2,543,455	100.00%	\$ 133,596

## FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

### SCHEDULE 7B - COST CENTER - HEALTH SERVICES

TOPECT EXPENDITURES FOR HEALTH SERVICES	RVICES		
		TNUCMA	
TYPE OF EXPENSE	ACTUAL	IMPUTED	TOTAL
Salaries and Wages:	\$	\$	₩.
Physicians	21	1,700	1,721
Professional nurses	2,109		2,109
15			
Clerical personnel			
Other (specify)			
Subtotal - Salaries and Wages	\$ 2,130	\$ 1,700	\$ 3,829
Supplies and Expenses:			;
Supplies	23		23
Laboratory tests	3,405		3,405
X-ravs	598		598
Wedications	1,707		1,707
Hospital care			
Other (specify)			
Subtotal - Supplies and Expenses	\$ 5,733	\$	\$ 5,733
TOTAL	\$ 7,863	\$ 1,700	\$ 9,563
Depreciation of equipment			¢
Purchase of equipment from current operating funds	nt operating fund	ds	\$
	) :- <b>7</b>		_

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 7B-1 - HEALTH SERVICES - APPORTIONMENT BASED ON

Direct Expenses - Health Service \$ 9,563

Charges Allocated to Health Services Staff Benefits (from Schedule 7A) \$ 107 Total Expenses - Health Service \$ 9,670

COST CENTER	AVERAGE NO. EMPLOYEES	WEIGHTED*	PERCENTAGE DISTRIBUTION	APPORTIONMENT
Operation of Physical Plant	14	14	% .85	\$ 82
	67	67	2.96	286
Laundry	29	29	1.75	169
Housekeeping	51	51	3.08	298
Dietary	119	119	7.20	9.69
Employee and Student Nurse Residence				
Maintenance of The Religions				
Nursing Education (Student Nurses)	154	1.049	63.42	6.133
Non-educational Functions	2	2	.12	12
Educational Functions (Instructors)	14	14	58.	82
	327	327	19.77	1,912
TOTALS		1,654	100.00% \$ 9,670	\$ 9,670

\*Indicate basis for determining apportionment.

Weighting based on percent of visits by student nurses and employees:

Student visits 63.42% Employee visits 36.58% 100.00%

9,563

Ś

TOTAL TO BE ALLOCATED

ERIC \*\*

\*\*Full Text Provided Eyy ERIC\*\*

ENDING December 31, 1961 SCHEDULE 7C - COST CENTER - OPERATION OF PHYSICAL PLANT FISCAL YEAR BEGINNING Jamuary 1, 1961

DIRECT EXPENDITURES FOR OPERATION OF PHYSICAL PLANT	TION OF PHYS	ICAL PLANT			
+avnagaa av agam	WS	SALARIES AND WAGES	GES	SUPPLIES &	TOTAL
IIFE OF EAFENDER	ACTUAL	· IMPUTED	TOTAL	EXPENSEX	- 1
Supervisory salaries	62,7	<b>ড</b>	\$ 7,439	ક	\$ 7,439
Other eslaries	88.614		88,614		88,614
Direct supplies - fuel				40,240	40,240
Other supplies				15,524	15,524
Unclassified				235	235
Purchased services: Electricity				55.574	55,574
Water and sewage				18,110	18,110
Gas				602	602
Elevator maintenance				10,024	10,024
Preventive maintenance				6,456	6,456
Miscellaneous				2,309	2,309
Equipment repairs				7,942	7,942
Services sold to other					
institution	(1,951)		(7,951)	(16,514)	(24,465)
Fire and boiler and mach. ins.				4,498	4,498
SIBTOTAL	\$ 88,102	ۍ.	\$ 88,102	\$ 145,000	\$ 233,102
Denreciation of equipment					\$ 81,648
Direkse of equipment from current operating funds	urrent operat	ing funds			ş
	•		TOTAL TO B	TOTAL TO BE ALLOCATED	\$ 314,750

\*List general categories.
\*\*If heat, utilities, insurance, etc., are provided or paid by an outside agency, please show an imputed cost.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

ENDING December 31, 1961 FISCAL YEAR BEGINNING January 1, 1961 - OPERATION OF PHYSICAL PLANT - APPORTIONMENT BASED ON AREA SCHEDULE 7C-1 Direct Expenses - Operation of Physical Plant (from Schedule 7C) \$ 314,750

Charges Allocated to Operation of Physical Plant from Staff Benefits Health Services

4,622

Total Expenses - Operation of Physical Plant

\$ 319,454

APPORTIONMENT 9,871 8,753 13,034 225,087 11,660 958 3,770 319,454 46,321 S 100.00% APPORTIONMENT BASED ON SQUARE FOOT AREA
AREA
AREA
(SQUARE FEET) DISTRIBUTION 3.09 " 1.18 80.4 70.46 3.65 8 2.74 14.50 7,435 11,099 8,390 9,927 825 39,424 3,214 191,488 271,802 Employee and Student Nurse Residence Administration and General Expense All Other Hospital Functions Maintenance of The Religious Non-educational Functions Educational Functions COST CENTER TOTALS Nursing Education Housekeeping Laundry Dietary Library

SCHEDULE 7D - COST CENTER - ADMINISTRATION AND GENERAL EXPENSE FISCAL YEAR BECINNING January 1, 1961 ENDING December 31, 1961

DIRECT EXPENDITURES FOR ADMINISTRATION AND GENERAL EXPENSE	ISTRATION AND	GENERAL EXP		3 344 100010	
TYPE OF EXPENSE*	TVS	SALARIES AND WAGES	ATA T		TOTAL
	ACTUAL	NATURAL S	S	Π	\$
Supervisory salaries	98,420	-	98,420		98.420
	567.86		98,495		98.495
Other salation				24.262	24,262
Supplies				,,,,,,	77, 756
Unclassified				14,450	264147
				81,373	81.373
Trustee and underwriter's				7.969	7,969
Real estate rental and			•	3,000	3,000
Cakes				11,673	11,673
Purchased services				2,547	2,547
Out-or-town traver				267	267
Edulpment repairs				10,316	10,316
Other Insurance				13,318	13,318
Administrative income from				(17,187)	(17,187)
other instruction				6,208	6,208
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				39,067	39,067
Telephone and Jerephone					
SIBTOTAL	\$ 196,915	ঙ	\$ 196,915	\$ 197,269	\$ 394,184
					n
Depreciation of equipment		ting funds			ψ.
purchase of equipment from current of creating			TOTAL TO	TO BE ALLOCATED \$	5 394,184

\*List general categories.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

### SCHEDULE 7D-1 - ADMINISTRATION AND GENERAL EXPENSE APPORTIONMENT BASED ON ALL DIRECT EXPENSES

\$ 394,184	\$ 10,340 \$ 286 \$ 9,871	\$ 414,681
Direct Expenses - Administration and General Expense (from Schedule 7D)	Charges Allocated to Administration and General Expense from \$ 10,340 \$ 10,340 \$ Health Services \$ \$ 286 \$ 9,871	Total Expenses - Administration and General Expense

ADDADTIONARY RASED ON ALL DIRECT EXPENSES	ON ALL DIRECT	EXPENSES	
	ALL DIRECT EXPENSES	EXPENSES	
COST CENTER	AMOUNT	PERCENTAGE DISTRIBUTION	APPORTIONMENT
T according	\$ 102,904	3.28	\$ 13.602
מייים לפיילם	207,934	6,63	27,493
not see and	452,587	14.43	59,838
Witter Residence	889	.02	83
Library			
Maintenance of The Religious			
Nursing Education			
Non-educational Functions	11,567	.37	1.534
Walterstone Timotions	104,076	3.31	13,726
	2.257.709	71.96	298,405
All Other Hospital Functions TOTALS	\$ 3,137,465	100.001	100.007 \$ 414,681

FISCAL YEAR BEGINNING January 1, 1961 RNDING December 31, 1961

### SCHEDULE 7E - COST CENTER - LAUNDRY

· PIECE COUNT	OPTION A - ON PIECE BASIS (UNIFORMS)	\$ 133,198	TOTAL EXPENDITURES FOR LAUNDRY - TO BE ALLOCATED	
. 44,765 : 100	TOTAL (GENERAL LAUNDRY)			
: 44,234 : 98,	All other hospital functions	13.602	Administration and general expense	
	Educational functions ) Education	11.660	Operation of physical plant	
	Non-educational functions) Nursing	797	Health services	
	Maintenance of The Religious	4,863	Staff benefits	
: 531 $:$ 1	Precessy And student nurses residence			
	Housekeeping		* 2 CHARGES ALLOCATED TO LAUNDRY:	_
••••	•	A	TOTAL DIRECT EXPENDITURES FOR LAUNDRY	
: NUMBER : PERCENT : DISTRIBL	COST CENTER			
POU	OFIION A - ON COUNTRY PROTO CO		Office (spects)	
RY)	CENERAL IAINDRY		used for laundry	4
			from current operating funds for) equipment	
854 : 100.	TOTALS		Supplies and expense Depreciation of (or capital expenditures made	
2 2 2 2	Uniforms	10 307	Total salaries and wages	_
806 : 94.	General laundry	6 00 507	Imputed salaries and wages	×1- ×1
••			Actual salaries and wages	
: NUMBER : FENCENT:	TYPE OF SERVICE	THOO IN	1. DIRECT EXPENDITURES	
쵥				-
DKI SERVICES ON THE PE	APPORTIONMENT - OPTION A - DIVISION OF LAUNDKI SERVICES ON THE CONTROLL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE			

\*These charges will be recorded by the NLN staff.

## COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

1, 1961 ENDING December 31, 1961 - COST CENTER - LAUNDRY	RY SERVICES ON TIME BASIS  MAN-HOUR PER WEEK  NUMBER : PERCENTAGE : VALUE OF :  ON THE CONTROL OF : DISTRIBUTION: SERVICES	806 : 94,38 <b>%</b> :\$ 125,712 486 7,486 7,486 854 100.00 <b>%</b> :\$ 133,198	XY) POUNDS NUMBER : PERCENTAGE : APPORTIONMENT : DISTRIBUTION:		44,234 : 98.81 : 124.216 44,765 : 100.00% :\$ 125,712	PIECE COUNT : PERCENTAGE : APPORTIONMENT : DISTRIBUTION:	57.12 : 4.276 606 : 57.12 : 4.276 455 : 42.88 : 3.210 1,061 : 100.00% :\$ 7,486
FISCAL YEAR BEGINNING January 1, 1961.	APPORTIONMENT - OPTION A - DIVISION OF LAUNDRY  TYPE OF SERVICE	General laundry Uniforms TOTALS	OPTION A - ON POUNDAGE BASIS (GENERAL LAUNDRY) :	Housekeeping Dietary Employee and student nurses residence Maintenance of The Religious	nal functions) Nursing functions ) Education spital functions (AL LAUNDRY)	OPTION A - ON PIECE BASIS (UNIFORMS) COST GE3R	Housekeeping Dietary Employee and student nurses residence Maintenance of The Religious Non-educational functions) Nursing Educational functions ) Education All other hospital functions TOTAL (UNIFORMS)

00

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 KNDING December 31, 1961

SCHEDULE 7E-1 - COST CENTER - LAUNDRY (CONTD.)

VALUE OF SERVICES :	GENERAL : UNIFORMS: TOTAL : :	\$: \$:	1,496 : : 1,496 :	: 4,276 : 4,276 :	124.216 : 3.210 : 127,426	\$ 125,712 \$ 7,486 \$ 133,198
OPTION A - SUPMARY - APPORTIONMENT OF LAUNDRY SERVICES - ON TIME BASIS (CONCLUDED)	COST CENTER : G	Housekeeping	Dietary Employee and student nurses residence :	Maintenance of The Religious	g	TOTALS

118		PERCENTAGE : APPORTIONMENT: DISTRIBUTION:		\$: <b>%</b>							:	100.00%	
OUNT BAS		TOTAL											11 11 11 11 11 11
S ON PIECE C	PIECES	:WEIGHTED: MS:UNIFORM :	: COUNT :			••••							10 10 10 10 10 10 10 10 10 10 10 10 10 1
UNDRY SERVICE	I d	GENERAL: : PERCENTAGE : PERCENTAGE : LAUDEY: UNIFORM : TOTAL : DISTRIBUTION:	•	··									16 86 86 86 86 86 86 86 86 86
OPPLICATION B APPORTIONMENT OF IAINDRY SERVICES ON PIECE COUNT BASIS	:	COST CENTER :G	•		Disercepting	Employee and student	Maintenance of	lous onal)	functions Nursing :	functions ) :_	runctions	TOTALS	·•ii

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 7F - COST CENTER - HOUSEKEEPING

TOTAL DIRECT EXPENDITURES FOR HOUSEKEEPING	R HOUSEKEEPIN	RI	GES	SUPPLIES &	TOTAL
TYPE OF EXPENSES	ACTUAL	TAPUTED	TOTAL	EXPENSE	-
Supervisory salaries		ક	\$ 14,374	\$	\$ 14,374
Other salaries	168,858		168,858		168,858
Supplies				22,448	22,448
Purchased services					
and miscellaneous				1,578	1,578
Rautoment repairs				929	929
					•
SIBTOTAL.	183,232		183,232	24,702	\$ 207,934
trought to the factors of					&
Displectation of equipment from current operating funds	grant opera	ting funds			ş
		1	TOTAL TO BE ALLOCATED	LLOCATED	\$ 207,934

\*List general categories.

December 31, 1961 ENDING FISCAL YEAR BEGINNING January 1, 1961

## SCHEDULE 7F-1 - HOUSEKEEPING APPORTIONMENT ON BASIS OF AREA WEIGHTED FOR USAGE

\$ 207,934 9,619 Charges Allocated to Housekeeping from Staff Benefits Health Services Operation of Physical Plant Administration and General Expense Laundry - Housekeeping Direct Expenses

\$ 246,302 Total Expenses for Housekeeping - TO BE ALLOCATED

27,493

	AREA	E A	ADDODUTONMENT
COST CENTER	SQUARE FEET*	PERCENTAGE	AFFORT TOWNERS
		%	\$
Dietary	7,435	2,94	7,241
Farm and Ctudent Nurse Residence	39.454	15,60	38,423
בייים אות ארתביור זומיאר זיכורים			
Library			
Maintenance of The Religious			
Nursing Education			
Non-educational Functions	3,214	1.27	3,128
	11.099	62.4	10.813
Educational Functions			
All Other Hospital Functions	191,488	75.80	186,697
TOTALS	252,660	100.00%	100.00% \$ 246,302

\*Use only area serviced by personnel in the housekeeping department. See areas recorded in red in summary of square foot area.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

January 1, 1961 ENDING December 31, 1961 FISCAL YEAR BEGINNING

### SCHEDUTE 7G - COST CENTER - DIETARY

TOTAL DIRECT EXPENDITURES FOR DIETARY	R DIETARY			3 SALIGUES	
TYPE OF EXPENSE*	SALA	SALAKIES AND WAGES	TOTAT.	EXPENSE**	TOTAL
and the less than the second	\$ 31.930	\$	\$ 31,930		\$ 31,930
Other salaries	219.128		219,128		219.128
Direct supplies:				10,679	10,679
Butter				14,119	14,119
Groceries				73,250	73,250
Meat				55,918	55,918
Milk				25,268	25,268
Other supplies				19,356	19,356
Unclassified				424	757
Purchased services					
				1,487	1,487
Rouinment renairs				1,028	1,028
***************************************	\$ 251.058	s	\$ 251,058	\$ 201,529	\$ 452,587
THIOTERS					ঞ
Depreciation of equipment	Current opera	ting funds			\$
rucusse or equipment ricm			TOTAL TO BE ALLOCATED	LOCATED	\$ 452,587

<sup>\*\*</sup>Under supplies and expense include the value of foodstuffs donated or produced on hospital's farm, at fair market value. \*List general categories.

90 ERIC Apult Toxic Provided by ERIC

## COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 76-1 - APPORTIONMENT OF DISTARY COSTS ON BASIS OF MEALS SERVED

Charges Allocated to Dietary from \$ 452,587

Charges Allocated to Dietary from \$ 13,199
Staff Benefits
Health Services
Operation of the Physical Plant \$ 8,753
Administration and General Expense \$ 59,838
Laundry
Housekeeping

Total Expenses for Dietary - TO BE ALLOCATED \$ 542,314

		an value of the	
COST CENTER	MEALS SERVED	DISTRIBUTION	APPORTIONMENT
		2	\$
Tanlows and Student Nurse Residence			
משלוטלבר שוני סביביורי			
Library			
withtenance of The Beliefous			
שביוויבווים כי דיים יים שביים			
Nursing Education		ļ	1
Non-educational Functions	89,324	19.39	105,155
Educational Functions			
All Other Boanits   Functions	371,283	80.61	437,159
ALL CLIES HOSPANS	460.607	100.00%	100.00% \$ 542,314
CTUTOT			

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BECINNING January 1, 1961 ENDING December 31, 1961 SCHEDULE 7H - COST CENTER - EMPLOYEE AND STUDENT NURSE RESIDENCE

	C EXPENDITURES FOR EMPLO	YEE AND STUD SALA	ENT NURSE RE	SIDENCE ES**	SUPPLIES &	TOTAL
\$ 889 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	PE OF EXPENSE*	ACTUAL	IMPUTED	TOTAL	EXPENSE	- 1
	eplacement	\$	\$	S.	688	1
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		,				
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
a current operating funds TOTAL TO BE ALLOCATED \$	O: BOM AIT	w.	&_	S.	l	1
n current operating funds	TWINTER					
TOTAL TO BE ALLOCATED \$	stion of equipment	urrent oper	iting funds			\$
			l B	TAL TO BE AL	COCATED	i

\*Please list general categories. \*\*Salaries of housemothers should be listed in the direct expenditures of Non-educational Functions, unless the residence is used exclusively for the school of nursing.

ERIC

Full Text Provided by ERIC

# FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 7H-1 - APPORTIONMENT OF COSTS FOR EMPLOYEE AND STUDENT NURSE RESIDENCE BASED ON:

Direct Expenses - Residence

Charges Allocated to Employee and Student Nurse Residence from
Staff Benefits
Health Services
Operation of Physical Plant
Administration and General Expense
Iaundry
Housekeeping
Dietary

Total Expenses - Residence

COST CENTERS  Library  Maintenance of The Religious  Nursing Education  Non-educational Functions  Educational Functions	PERCENTAGE DISTRIBUTION 7 2 100.00	PERCENTAGE APPORTIONMENT 7 \$ \$ 100.00 87,011
TOTALS	700.001	1100,007 \$ 87,011

\*Indicate basis of apportionment.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 71 - COST CENTER - LIBRARY\*

OMIT

TYPE OF EXPENSE	AMOUNT
Salaries - actual \$	
- imputed \$	
Total 5.	<b>\$</b>
Supplies	
Books	
Subscriptions	
Binding	
Library supplies	
Other**	
SUBTOTAL	৵
	\$
Purchase of equipment from current operating funds	\$ \$

\*If nursing students' use of the library is negligible and no allocation is to be made to nursing education, hospital library costs may be recorded in the cost center, All Other Hospital Functions.

\*\*Please specify.

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1261

TIMO			
IBRARY ON THE BASIS:	£ \$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	S
SCHEDULE 71-1 - DISTRIBUTION OF COSTS OF LIBRARY ON THE BASIS:	Direct Expenses - Library (from Schedule 71) \$_	Charges Allocated to the Library from: Staff Benefits Health Services Operation of the Physical Plant Administration and General Expense Laundry Housekeeping Dietary	Total Expenses - Library

	DISTRIBUTION APPORTIONMENT				\$	
DDDCDUTACE	DISTRIBUTION	2			100.00%	
		*				
	COST CENTERS		Educational Functions	All Other Hospital Functions	TOTAL	

\*Indicate basis of apportionment.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 73 - COST CENTER - MAINTENANCE OF THE RELIGIOUS

OMIT

w-	S	TELLED	TOTAL TOTAL	EXPENSE	
	•		ş	\$	\$
\$	S		\$	S.	or-
SUBTOTAL					or
Depreciation of equipment  Of Depreciation of equipment from current operating funds	it operating	funds			<b>ም</b>
	•	1	TOTAL - NO.	TOTAL - NOT ALLOCATED	S

\*List by general category.

## FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

ICIONS OMIT	w	W. W. W. W. W. W. W.	w.
SCHEDULE 7J-1 - MAINTENANCE OF THE RELIGIOUS	Direct Expenses - Maintenance of The Religious	Charges Allocated to Maintenance of The Religious from Staff Benefits Health Services Operation of Physical Plant Administration and General Expense Laundry Housekeeping Dietary	Total Expenses - Maintenance of The Religious -

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

# FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

# SCHEDULE 7K - COST CENTER - NURSING EDUCATION - NON-EDUCATIONAL FUNCTIONS

DIRECT EXPENDITURES - NON-EDUCATIONAL FUNCTIONS	ONAL FUNCTIONS		
devidence and access		AMOUNT	
TAPE OF EAFBNOR	ACTUAL	IMPUTED	TOTAL
Salaries and Wages:		\$	\$
Honomother	6,873		6,873
Social director			
*Health service personnel:			
Physician(s)			
personnel			
Clerical personnel			01.
Other (specify) Receptionist	3,179		3,179
Subtotal - Salaries and Wages	\$ 10,052	\$	\$ 10,052
Supplies and Expenses:			
Decreational program	769		769
Transportation of students	26		56
Laboratory tests			
X-rays			
Medications			
Other (specify)			
Chorus	690		069
Subtotal - Supplies and Expenses	\$ 1,515	ঞ	\$ 1,515
TATION	\$ 11.567	Ş	\$ 11,567
	•		<b>\$</b> -
Depreciation of equipment			S
Purchase of equipment from current operating funds	nt operating fund	lsst	
	TOTAL NOT TO	TOTAL NOT TO BE ALLOCATED	\$ 11,567

\*Health service costs not allocated from Health Service cost center.

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 7K-1 - NURSING EDUCATION - NON-EDUCATIONAL FUNCTIONS DISTRIBUTION OF COSTS BETWEEN PROGRAMS BASED ON WEEKS OF RESIDENCE

Direct Costs - Non-educational Functions (Schedule 7K) \$ 11,567

Charges Allocated to Non-educational Functions from
Staff Benefits
Health Services
Operation of Physical Plant
Administration and General Expense
Laundry
Housekeeping
Dietary
Employee and Student Nurse Residence

Total Costs - Non-educational Functions

\$ 223,120

WEEKS IN PERCENTAGE

TYPE OF PROGRAM	WEEKS IN RESIDENCE	PERCENTAGE DISTRIBUTION	APPORTIONMENT
Distant Droprom		00.001	\$ 223,120
Uproms trokism			
Affiliate Frogram			30. 300
TOTAL		100.00%	100.00%  \$ 223,120

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 7L - COST CENTER - NURSING EDUCATION - EDUCATIONAL FUNCTIONS

DIRECT EXPENDITURES - EDUCATIONAL FUNCTIONS*	FUNCTIONS*		
doughan no miss		ALTOUNT	
IXER OF EAFENDE	ACTUAL	DAPUTED	TOTAL
Salaries and Wages:	\$	\$	S.
Administration	7.324		7,324
Thetmictional	57,771		57,771
Counselors			
Librarians	1,593		1,593
Corretarial and clerical	7,818		7,818
1 (v3 1	1,632		1,632
Subtotal - Salaries and Wages	\$ 76,138	\$	\$ 76,138
Supplies and Expenses:			
Fees paid to colleges	17,400		17,400
ដ			
pooks			
Uniforms			
Office supplies	624		624
Library expenses:			
S.heorintions			
Tihrary cumlies			
Other (specify)*	9,695		9,695
Subtotal - Supplies and Expenses	\$ 27,719	s	\$ 27,719
TOTAL	\$ 103,857	Ś	\$ 103,857
Munctions Descriped Runctions	Bunctions		\$ 219
Itansier from Air Other Hospital			\$
		Tames and the second	3 10% 076
	TOTAL NOT IN	TOTAL NOT TO BE ALLUCATED	1

\*Includes student nurses' library.



FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

# (ACCUMULATION OF TOTAL COSTS WITH DISTRIBUTION TO DIFFERENT PROGRAMS, IF NECESSARY)

Charges Allocated to Educational Functions from
Staff Benefits
Staff Benefits
Health Services
Operation of Physical Plant
Administration of Physical Plant
Housekeeping
Dietary
Employee and Student Nurse Residence
Library

Total Expenses for Educational Functions
To be allocated to different types of educational programs in nursing, if more than one type of program is offered.

	COURSES	COURSES GIVEN TO AFFILIATES		BEST OF REJICA-	TOTAL
TYPE OF PROGRAM				TIONAL PROGRAM APPORTIONMENT	APPORTIONMENT
Diploma Program	\$	s	Ś	\$	\$ 145,726
Affiliate Program				$\bigvee$	
*Graduate Nurse				$\bigvee$	
TOTALS	ۍ.	\$	\$	\$	\$ 145,726

<sup>\*</sup>Use only if educational program is organized under the department of nursing education. Generally, costs for the staff education program in the department of nursing will be in the cost center, All Other Hospital Functions.

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

## FISCAL YEAR BEGINNING January 1, 1961 ENDING December 31, 1961

SCHEDULE 7M - COST CENTER - ALL OTHER HOSPITAL FUNCTIONS

DIRECT EXPENSES - ALL OTHER HOSPITAL FUNCTIONS* SAIARIES A	HOSPITAL FUNCT	FUNCTIONS* SALARIES AND WAGES		SUPPLIES &	TOTA1.
TYPE OF EXPENSE	ACTUAL	DIPUTED	TOTAL	EXPENSE	١
All other	31	\$	33	\$	\$ 1,643,231
All other				614,697	614,697
SUBTOTAL	\$ 1,643,231	ŝ	\$ 1,643,231	\$ 614,697	\$ 2,257,928
Transfer to Educational Functions	nctions				(219)
		TOTA	TOTAL NOT TO BE ALLOCATED	LLOCATED	\$ 2,257,709

<sup>\*</sup>Include costs of inservice training programs (including volunteers), practical nurse and aide instruction, and resident and intern program.

ENDING December 31, 1961 BEGINNING January 1, 1961 FISCAL YEAR

### SCHEDULE 7M-1 - ALL OTHER HOSPITAL FUNCTIONS

\$ 2,257,709	\$ 86,317 \$ 1,912 \$ 225,087 \$ 298,405 \$ 127,426 \$ 186,697 \$ 437,159 \$ 5	\$ 3,620,712
Direct Expenses - All Other Hospital Functions	Charges Allocated to All Other Hospital Functions from Staff Benefits Health Services Operation of Physical Plant Administration and General Expense Laundry Housekeeping Dietary Employee and Student Nurse Residence	Total Expenses - All Other Hospital Functions - NOT TO BE ALLOCATED

### COST ANALYSIS OF ONE PARTICIPATING INSTITUTION

ENDING December 31, 1961 FISCAL YEAR BEGINNING January 1, 1961

### SCHEDULE 7N - USE VALUE OF BULLDINGS

Insured Value of All Buildings \$\_

ö

\$ 6,552,355 at 2%% = \$163,809 Use Value of Buildings Cost Value of All Buildings

### PARTICIPATING INSTITUTIONS

### Schools of Nursing

### Alabama

Birmingham Baptist Hospital School of Nursing
Birmingham

Mobile Infirmary School of Nursing

Mobile

Providence School of Nursing

Mobile

St. Vincent School of Nursing

Birmingham

Sylacauga Hospital School of Nursing

Sylacauga

### Arizona

St. Mary's School of Nursing

Tucson

### Arkansas

Sparks Memorial Hospital School of Nursing

Fort Smith

### California

Highland School of Nursing

Oakland

Los Angeles County General Hospital School of Nursing

Los Angeles

Queen of Angels School of Nursing

Los Angeles

Samuel Merritt Hospital School of Nursing

Oakland

San Joaquin General Hospital School of Nursing

Stockton

### Colorado

St. Mary-Corwin Hospital School of Nursing

Pueblo

### Connecticut

Danbury Hospital School of Nursing

Danbury

Grace-New Haven School of Nursing

New Haven

### Delaware

Delaware Hospital School of Nursing

Wilmington

### District of Columbia

Capital City School of Nursing

Freedmen's Hospital School of Nursing

Washington Hospital Center School of Nursing

### Florida

St. Vincent's Hospital School of Nursing

Jacksonville

### Georgia

Crawford W. Long Memorial Hospital School of Nursing

Atlant

St. Joseph's Infirmary School of Nursing

Atlanta

### Illinois

Grant Hospital School of Nursing

Chicago

Presbyterian-St. Luke's Hospital School of Nursing

Chicago

### Indiana

Methodist Hospital of Indiana School of Nursing

Indianapolis

St. Margaret Hospital School of Nursing

Hammond

St. Vincent's School of Nursing

Indianapolis

Union Hospital School of Nursing

Terre Haute

### lowa

Broadlawns Polk County Hospital School of Nursing

Des Moines

Mercy Hospital School of Nursing

Council Bluffs

Mercy Hospital School of Nursing

Des Moines

St. Luke's Hospital School of Nursing

Davenport

### Kansas

St. Francis Hospital School of Nursing

Wichita

Wesley Medical Center School of Nursing

Wichita

### Kentucky

Kentucky Baptist Hospital School of Nursing

Louisville

Louisville General Hospital School of Nursing

Louisville

Norton Memorial Infirmary School of Nursing

Louisville

### Louisiana

Charity Hospital School of Nursing

New Orleans

Hotel Dieu School of Nursing

New Orleans

### Maine

Maine Medical Center School of Nursing

*"*ortland



### Schools of Nursing, Continued

Maryland

Johns Hopkins Hospital School of Nursing

Baltimore

Maryland General Hospital School of Nursing

Baltimore

Massachus etts

Beverly Hospital School of Nursing

Bever!y

Catherine Laboure School of Nursing

Boston

The Children's Hospital School of Nursing

Boston

Henry W. Bishop, 3rd, Memorial School of Nursing

Pittsfield

Malden Hospital School of Nursing

Malden

Massachusetts General F' spital School of Nursing

Boston

McLean Hospital School of Nursing

Belmont

Peter Bent Brigham Hospital School of Nursing

Boston

Quincy City Hospital School of Nursing

Quincy

Sturdy Memorial Hospital School of Nursing

Attleboro

Worcester City Hospital School of Nursing

Worcester

Worcester Hahnemann Hospital School of Nursing

Worcester

Michigan

W. A. Foote Memorial Hospital School of Nursing

Jackson

Minnesota

St. Barnabas Hospital School of Nursing

Minneapolis

St. Luke's Hospital School of Nursing

Duluth

Mississippi

Gilfoy School of Nursing of the Micsissippi Baptist Hospital

lackson

Mercy Hospital-Street Memorial School of Nursing

Vicksburg

Missouri

Barnes Hospital School of Nursing

St. Louis

Burge-Protestant Hospital School of Nursing

Springfield

Independence Sanitarium and Hospital School of Nursing

Independence

The Jewish Hospital School of Nursing

St. Louis

Research Hospital and Medical Center School of Nursing

Kansas City

St. Louis City Hospital School of Nursing

St. Louis

St. Luke's Hospital School of Nursing

St. Louis

Nebraska

Bryan Memorial Hospital School of Nursing

Lincolr

Mary Lanning Memorial Hospital School of Nursing

Hastings

Nebraska Methodist Hospital School of Nursing

Omaho

West Nebraska General Hospital School of Nursing

Scottsbluff

New Hampshire

Mary Hitchcock Memorial Hospital School of Nursing

Hanover

New Jersey

Hackensack Hospital School of Nursing

Hackensack

Medical Center-Jersey City Hospital School of Nursing

Jersey City

Mercer Hospital School of Nursing

**Trenton** 

Newark City Hospital School of Nursing

Newark

Orange Memorial Hospital School of Nursing

Orange

New York

Beth Israel Hospital School of Nursing

New York

Binghamton General Hospital School of Nursing

Binghamton

Charles S. Wilson Memorial Hospital School of Nursing

Johnson City

Flushing Hospital and Dispensary School of Nursing

Flushing

House of the Good Samaritan Hospital School of Nursing

Watertown

St. Francis Hospital School of Nursing

Poughkeepsie

St. John's Episcopal Hospital School of Nursing

Brooklyn

North Carolina

Cabarrus Memorial Hospital School of Nursing

Concord

Gaston Memorial Hospital School of Nursing

Gastonia

Memorial Mission Hospital School of Nursing

Asheville

Rowan Memorial Hospital School of Nursing

Salisbury

North Dakota

St. Alexius School of Nursing

Bismarck

St. Andrew's Hospital School of Nursing

Bottineau

Ohio

Bethesda Hospital School of Nursing

Zanesville

Huron Road Hospital School of Nursing

Cleveland

The Jewish Hospital School of Nursing

Cincinnati

### Schools of Nursing, Continued

Ohio, Continued

Maumee Valley Hospital School of Nursing

Toledo

Mercy School of Nursing

Hamilton

Toledo Hospital School of Nursing

Toledo

Oklahoma

Hillcrest Medical Center School of Nursing

Tulsa

Oregon

Emanuel Hospital School of Nursing

Portland

Pennsylvania

Chestnut Hill Hospital School of Nursing

Philadelphia

Coatesville Hospital School of Nursing

Coatesville

Germantown Dispensary and Hospital School of Nursing

Philadelphia

Hahnemann Medical College and Hospital School of Nursing

Philadelphia

Hospital of the Woman's Medical College School of Nursing

Philadelphia

Jefferson Medical College Hospital School of Nursing

Philadelphia

Lancaster General Hospital School of Nursing

Lancaster

Lankenau Hospital School of Nursing

Philadelphia

St. Francis General Hospital School of Nursing

Pittsburgh

St. Luke's Hospital School of Nursing

**Bethlehem** 

Western Pennsylvania Hospital School of Nursing

Pittsburgh

Puerto Rico

Damas Hospital School of Nursing

Ponce

Rhode Island

Memorial Hospital School of Nursing

Pawtucket

Rhode Island Hospital School of Nursing

Providence

South Carolina

Greenville General Hospital School of Nursing

Greenville

South Dakota

St. John's McNamara Hospital School of Nursing

Rapid City

Tennessee

Baptist Memorial Hospital School of Nursing

Memphi

City of Memphis Hospitals School of Nursing

Memphis

St. Thomas School of Nursing

Nashville

Texas

John Peter Smith Hospital School of Nursing

Fort Worth

Shannon West Texas Memorial Hospital School of Nursing

San Angelo

Utah

St. Benedict's Hospital School of Nursing

Ogden

Vermont

Mary Fletcher Hospital School of Nursing

Burlington

Virginia

Riverside Hospital School of Nursing

Newport News

Washington

St. Joseph's Hospital School of Nursing

Tacoma

West Virginia

Wheeling Hospital School of Nursing

Wheeling

Wisconsin

Milwaukee County General Hospital School of Nursing

Milwaukee

St. Agnes School of Nursing

Fond du Lac

St. Mary's School of Nursing

Wausau

Cooperating Agencies

Alabama

Children's Hospital of Birmingham

Birmingham

Hale Memorial Hospital

Tuscaloosa

Veterans Administration Hospital

Tuscaloosa

California

Agnews State Hospital

San Jose

California, Continued

Children's Hospital of the East Bay

Oakland

Mount Zion Hospital and Medical Center

San Francisco

Stockton State Hospital

Stockton

Veterans Administration Center, Brentwood Hospital

Los Angeles

Veterans Administration Hospital

Palo Alto



### Cooperating Agencies, Continued

Colorado

Children's Hospital

Denver

Connecticut

Connecticut Valley Hospital

Middletown

Fairfield State Hospital

Newtown

Delaware

Emily P. Bissell Hospital

Wilmington

District of Columbia

Children's Hospital of the District of Columbia

St. Elizabeths Hospital

Florida

Florida State Hospital

Chattahoochee

W. T. Edwards Tuberculosis Hospital

Tallahassee

Illinois

Cook County School of Nursing

Chicago

Municipal Tuberculosis Sanitarium

Chicago

Indiana

Dr. Norman M. Beatty Memorial Hospital

Westville

Evansville State Hospital

Evansville

Madison State Hospital

Madison

Sunnyside Sanatorium

Indianapolis

lowa

Hand Community Hospital

Shenandoah

Mental Health Institute

Independence

St. Bernard's Hospital

**Council Bluffs** 

Veterans Administration Hospital

Knoxville

Kentucky

Central State Hospital

Lakeland

Children's Hospital

Louisville

Eastern State Hospital

Lexington

Louisiana

De Paul Hospital

New Orleans

Maryland

Seton Psychiatric Institute

**Baltimore** 

Maryland, Continued

Spring Grove State Hospital

Catonsville

Massachusetts

Boston City Hospital

Boston

The Boston Floating Hospital for Infants and Children

Boston Lying-in Hospital

Boston

Boston State Hospital

Boston

Massachusetts Mental Health Center

Medfield State Hospital

Medfield

Metropolitan State Hospital

Waltham

Worcester State Hospital

Worcester

Michigan

Children's Hospital of Michigan

Detroit

Pontiac State Hospital

**Pontiac** 

Ypsilanti State Hospital

**Ypsilanti** 

Minnesota

Hennepin County General Hospital

Minneapolis

Moose Lake State Hospital

Moose Lake

Missouri

Cardinal Glennon Memorial Hospital for Children

St. Louis

Children's Mercy Hospital

Kansas City

Missouri State Sanatorium

Mount Vernon

St. Louis Children's Hospital

St. Louis

St. Louis State Hospital

St. Louis

St. Vincent's Hospital

St. Louis

Nebraska

Children's Memorial Hospital

Omaha

Hastings State Hospital

Ingleside

Veterans Administration Hospital

Omaha

New Hampshire

New Hampshire Hospital

Concord

New Jersey

Essex County Overbrook Hospital

Cedar Grove

### Cooperating Agencies, Continued

New Jersey, Continued

New Jersey State Hospital
Greystone Park
New Jersey State Hospital
Marlboro
New Jersey State Hospital
Trenton

New York

Binghamton State Hospital
Binghamton
Central Islip State Hospital
Central Islip
Creedmoor State Hospital
Jamaica

St. Vincent's Hospital of the City of New York Westchester Branch, Harrison

North Carolina
Dorothea Dix Hospital
Raleigh

North Dakota
St. Aloisius Hospital
Harvey
St. John's Hospital
Fargo
State Hospital
Jamestown

Ohio
Children's Hospital
Cincinnati

The Children's Hospital

Columbus

Children's Hospital of Akron

AKTON

Dayton State and Receiving Hospital

Dayton

Massillon State Hospital

Massillon

Rollman Psychiatric Institute

Cincinnati

Toledo State and Receiving Hospital

Toledo

Oklahoma Central S

Central State Griffin Memorial Hospital
Norman

Oregon

Oregon State Hospital

Salem

<u>Pennsylvania</u>

Allentown State Hospital Allentown Pennsylvania, Continued

Children's Hospital of Philadelphia

Philadelphia

Eastern Pennsylvania Psychiatric Institute

Philadelphia

Henry R. Landis State Hospital

Philadelphia

Institute of the Pennsylvania Hospital

Philadelphia

Philadelphia State Hospital

Philadelphia

The Rehabilitation Center at Philadelphia

Philadelphia

Torrance State Hospital

Torrance

Veterans Administration Hospital

Coatesville

Rhode Island

Charles V. Chapin Hospital

Providence

Providence Lying-in Hospital

Providence

Rhode Island Medical Center, Institute of Mental Health

Howard

South Carolina

South Carolina State Hospital

Columbia

South Dakota

Yankton State Hospital

Yankton

**Texas** 

San Antonio State Hospital

San Antonio

Vermont

Vermont State Hospital

Waterbury

Washington

Veterans Administration Hospital

American Lake

Wisconsin

Milwaukee Children's Hospital

Milwaukee

Milwaukee County Mental Health Center - North Division

Milwaukee

Muirdale Sanatorium

Milwaukee

St. Mary's Hill Hospital

Milwaukee

Winnebago State Hospital

Winnebago

